

**Crisis Management Centre
Former Yugoslav Republic of Macedonia**

**TECHNICAL ASSISTANCE FOR DEVELOPMENT OF
INTEGRATED SYSTEM FOR
PREVENTION AND EARLY WARNING OF FOREST FIRES
(SYSTEM IMPROVEMENT)**

FINAL REPORT

March 2014

Japan International Cooperation Agency (JICA)

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1.1 Project Background

The Republic of Macedonia (hereinafter, Macedonia) is a mountainous, landlocked country with a total area of about 25,000 square kilometers and forest occupies 38 percent of the country. Due to the hot, dry summer of the Mediterranean climate, the loss of forests with frequent massive fires has become a serious problem in the Balkan Region as a whole. In the last ten years, Macedonia has had about 2,400 forest fires and has lost 96,000 ha of forest area (this is about half of the area of Tokyo), and total damage has been estimated to be about 50 million euros. The government of Macedonia declared a state of national emergency when a large-scale forest fire occurred in 2007. Thus, forest fires are a national issue in Macedonia.

In 2005, the government of Macedonia established a Crisis Management Centre (hereinafter called CMC) which is responsible for the accumulation and analysis of information to enhance the prevention and early warning of national crises, and to promote cooperation and coordination with organizations concerned. The forest fire prevention and warning is one of its missions and the information relating to forest fires is expected to be managed centrally at CMC; to provide recommendations and results of the analysis based on the information in order to quickly deliver to the public and relevant organizations; and to reduce the damage caused by massive forest fires. However, CMC is facing challenges in developing the system of collecting, accumulating and analysing relevant information, and is facing the challenges of insufficient capacity to utilize the system and to coordinate with organizations concerned.

Under such circumstances, the Japan International Cooperation Agency (JICA) has been implementing the Project on Development of Integrated System for Prevention and Early Warning of Forest Fires from May 2011 to April 2014, based on a request made by the government of Macedonia. Now, two long-term experts, one is a chief advisor responsible for project management and the other is a project coordinator responsible for project coordination and information system management, have been assigned to the project. The project has the following targets.

- 1) To build and maintain a mechanism for risk assessment against forest fires, which consists of both a soft component (e.g. related organizations and human resources) and a hard component (e.g. information system).
- 2) To enhance the cooperation and information sharing between the related organizations and the relevant personnel.

In terms of the hard component 1) above, two GIS short-term experts and one network design short-term expert were dispatched in the fiscal year 2011 and conducted the conceptual design, the basic design and the detailed design of the information system. The system was developed by a local developer based on these designs in the fiscal year 2012, under the quality management and the technical assistance of three other short-term experts (system design, development management and data creation). And the version 1.0 of the system was released in March 2013.

1.2 Purpose of Mission

The consultants dispatched this time aim at performing the following along with the CMC staff:

- Clarification of the part of the GIS to be improved through the test operation.
- Design of the portion of the system to be upgraded based on above clarification.
- Completion of the GIS which contains necessary information for prevention, early detection, warning, firefighting management and damage evaluation of forest fires, and enables the sharing of this information among the concerned organizations through the activities of development management for the improvement work by the local developer who will be contracted by JICA.
- Advice and guidance towards future expansion and operation of the system

Purpose of this mission in detail is as follows.

- (1) Clarification of the part of the system for prevention, early detection and warning, management, operation adjustment and damage evaluation of forest fires to be improved.
- (2) Design of the part of the system to be improved, and order support.
- (3) Support for selection of developers
- (4) Management of the system improvement work by the selected developer
- (5) Construction of system maintenance management system.
- (6) Investigation, analysis and instruction for improved data quality

1.3 PDM

PDM ver2 (approved by SC on 15 November 2012)

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumptions
<p>Overall Goal</p> <p>The occurrences of massive forest fire are reduced by strengthening the social capacity for prevention (*i) and early warning of forest fire.</p>	<p>1. Data/information provided from CMC to institutions under the Crisis Management System will become more promptly and adequately.</p> <p>2. Rate of forest fire that reaches massive level will be reduced.</p> <p><u>Note for Indicators: By March 2013, indicators for the Overall Goal, including definition of "more promptly", "more adequately", "rate of forest fire", and "massive level", will be examined by TCGM and proposal on necessary modification will be submitted to the subsequent SC for approval.</u></p>	<p>Regulations, guidelines, reports and documents of CMC and of the government of Macedonia</p>	<p>1. There will be no significant change in crisis management policy against forest fires.</p> <p>2. Unexpected extreme weather will not occur.</p>
<p>Project Purpose</p> <p>The capacity of CMC for transmitting information to domestic relevant institutions (*ii) for prevention and early warning of forest fire and coordinating them is strengthened.</p>	<p>1. By the Project end, modifications in the existing government procedures, necessary to fit the integrated GIS, in legislative framework, are adopted by the relevant authorities.</p> <p>2. By the Project end, information contained in forest fire risk assessment tools of the integrated GIS at CMC is updated with pre-determined frequency for transmission to the relevant institutions.</p> <p>3. By the Project end, data/information from CMC based on the integrated GIS is utilized by the domestic relevant institutions for prevention and early warning of forest fire.</p>	<p>1. Records of the date of adoption</p> <p>2. Record of system monitoring</p> <p>3 ditto</p>	<p>1. Budget and number of personnel of CMC will not be significantly decreased.</p>
<p>Outputs</p> <p>1. National system for forest fire risk assessment (*iii), using the integrated GIS (*iv), is developed.</p>	<p>1a By February 2013, integrated GIS is developed based on the risk assessment methodology developed by the Project (i.e. integrated GIS ver1); and is improved by December 2013 (i.e. integrated GIS ver2).</p> <p>1b From March 2013, all of the data required for forest fire risk assessment with pre-determined time/spatial resolution, provided by PEMF and Hydro-met, is received and stored in the integrated GIS.</p> <p>1c By February 2013, four forest risk assessment tools (i.e. hot spot map and vegetation dryness map, covering all land of Macedonia, as well as forest vegetation map and fire history map, covering 90 % of forests in Macedonia) are stored in the integrated GIS; and the other three (i.e. FWI map and suppression resource table, covering all land of Macedonia, as well as damaged forest value table, covering 90% of forests) are stored by December 2013.</p> <p>1d By March 2013, at least X officers from HQ and regional CMC and X officers from HQ and regional offices of the principal information user institutions (X from PEM, X from MAFWE, X from DPR) are trained in administration and/or utilization of the integrated GIS as well as interpretation of the first 4 forest fire risk assessment tools; and the other four tools by March 2014.</p> <p>1e By March 2013, information contained in the forest fire risk assessment tools of the integrated GIS is available to the principal information users (*v) through intranet for utilization in prevention and early warning according to the agreed access rights.</p> <p>1f By April 2013, part of information contained in the forest fire risk assessment tools (i.e. X, X, . . .) of the integrated GIS is published at CMC's website for utilization by other relevant institutions.</p> <p><u>Note for Indicator 1d: Target number (X) shall be specified by December 2012 in consultation with TCG for approval by the subsequent SC.</u></p> <p><u>Note for Indicator 1f: Forest fire risk assessment tools that shall be published through internet shall be identified through consultation with TCG by March 2013. Name of tools to be published (X) shall be specified in the indicator accordingly and modification shall be proposed to the subsequent SC for approval.</u></p>	<p>1a Inspection report of the system</p> <p>1b, 1c Record of system monitoring</p> <p>1d Training record</p> <p>1e, 1f: Record of system monitoring</p>	<p>Necessary cooperation by allocation of sufficient budget, and other resources by relevant institutions is secured according to the PO approved by the SC.</p>
<p>2. National coordination mechanism of information sharing</p>	<p>2a By the Project end, the final draft(s) for necessary modifications of the existing government procedures is (are) submitted by the responsible organizations to the relevant authority/authorities for adoption.</p> <p>2b By the Project end, a technical-level coordination meeting on prevention and early warning is formalized for the post-project period.</p>	<p>2a Date of submission of the final drafts</p> <p>2b&2c M/M of</p>	

and cooperation among domestic relevant institutions for prevention and early warning of forest fire is reinforced.	2c By the Project end, recommendations for improvement of coordination, using the integrated GIS, are made based on monitoring in some model areas within jurisdiction of selected RCMCs for action by CMC.	TCG	
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Activities	Inputs	
<p>1-1 Design risk assessment methodology for forest fire and document the methodology (*vi).</p> <p>1-2 Identify and collect data/information useful for the forest fire risk assessment.</p> <p>1-3 Develop the integrated GIS, including software, hardware and equipment.</p> <p>1-4 Prepare and store GIS risk maps and tables for forest fire in the integrated GIS.</p> <p>1-5 Design methodology on assessment of damages and consequences of forest fire.</p> <p>1-6 Prepare the feasibility study on the technical system for forest fire early detection.</p> <p>1-7 Hold training/workshops on the integrated GIS & forest fire risk assessment tools for system users/administrators at CMC and the relevant institutions.</p> <p>1-8 Share information for forest fire risk assessment from CMC to the relevant institutions through the integrated GIS.</p> <p>2-1 Develop sustainable coordination mechanism of CMC and relevant institutions about information sharing and coordination using the integrated GIS.</p> <p>2-2 Periodically organize Technical Coordination Group Meetings (TCGM).</p> <p>2-3 Confirm the existing state of coordination of information sharing and cooperation on prevention and early warning of forest fire at some model areas.</p> <p>2-4 Assess the effectiveness of the integrated GIS in coordination of CMC and relevant institutions and identify supplementary measures, if necessary, utilizing the results of 2-3.</p>	<p><u>Japanese Side</u></p> <ol style="list-style-type: none"> 1. Experts <ul style="list-style-type: none"> - Forest Fire Management - GIS system/database - Other fields required <p>Chief Advisor and Project Coordinator will be assigned from above experts.</p> 2. Training of counterpart personnel in Japan 3. Provision of equipment for the Project activities in the followings: <ul style="list-style-type: none"> - Forest fire management - GIS system/database - Others if necessary 4. Operational costs <p><u>Macedonian Side</u></p> <ol style="list-style-type: none"> 1. Government Staff as Project staff as needed for the Project <ol style="list-style-type: none"> ① Project Director ② Project Manager ③ Project staff (Counterpart personnel) ④ Supporting staff 2. Administrative and operational costs 3. Provision of land, building, facilities and equipment for the Project. 	<p>Necessary cooperation such as appointment of users/administrators of the integrated GIS allocation of sufficient budget by relevant institutions is secured according to the PO approved by SC.</p> <hr/> <p>Pre-Conditions</p> <p>Commitment and willingness of project partners in CMC and relevant institutions.</p>

- i "Prevention" includes risk reduction among others.
 - ii "Domestic relevant institutions" targeted by the Project are MAFWE, PEMF, DPR, municipal government, local fire fighting forces and others as required.
 - iii Concept of "forest fire risk assessment" consists of four elements (hazard, exposure, vulnerability, and capacity and measure).
 - iv Integrated GIS developed by the Project is known as "Macedonian Forest Fire Information System (MKFFIS)".
 - v "Principal information users" targeted by the Project are the relevant institutions, to which equipment for information users are provided (i.e. PEMF, MAFWE, DPR).
 - vi "Document of the risk assessment methodology for forest fires" means of a set of specific documents that define integrated method and procedures for work on forest fire risk assessment in all relevant institutions such as: (1) Method of collecting information and utilization of proper equipment; and (2) How to make data collection and how to conduct appropriate data processing.

2 Work Contents

2.1 Job assignment for each Consultant

Table 1 shows TOR of each consultant and Chart 2 shows the implementation system of this mission.

Table1: Job assignment table)

Name	Title	work contents
Hiroyuki Kozu	Chief consultant/ System improvement design • development management	<Domestic preparation>
		(A) Collection and analysis of relevant information
		(B) Preparation and submission of the Inception Report
		<Local Activities>
		(C) Explanation of the Inception Report to JICA Balkan Office
		(D) Improvement of integrated web GIS system
		a. Summarization and analysis of user request on system expansion and improve
		b. Designing system expansion and improvement
		c. Drafting work orders to local developers
		d. Final confirmation of contents of system improvement design shown to develo
		e. Examination of developers' proposals as a developer selection committee.
		f. Quality and progress management
		g. Confirmation and advice of training materials which have been created
		h. Acceptance inspection of unit tests and comprehensive tests
		(E) Advice and suggestions on system maintenance
		(F) Preparation and submission of the work report.
<Domestic summarization>		
(G) Final confirmation of content of improvement		
(H) Preparation and submission of the Final Report		
Yuta Morikawa	Vice chief consultant/ GIS Data Quality improvement	<Domestic preparation>
		(A) Collection and analysis of relevant information
		(B) Preparation and submission of the Inception Report
		<Local Activities>
		(C) Explanation of the Inception Report to JICA Balkan Office
		(D) Evaluation of data quality and Training
		i. Verification of GIS data, analysis and evaluation of quality of the data
		j. Planning and preparation of the required training based on result of the item (i
		k. Implementation of training and guidance
		(E) Advice and suggestions on system maintenance
(F) Preparation and submission of the work report.		
<Domestic summarization>		
(G) Preparation and submission of the Final Report		

Chart 1 shows the implementation system. In the local activities, basically, each consultant in charge carries out his respective business with responsibility, and summarizes his results. However the two consultants will collaborate in compilation of the Final Report. Mr. Kozu takes overall responsibility for this mission.

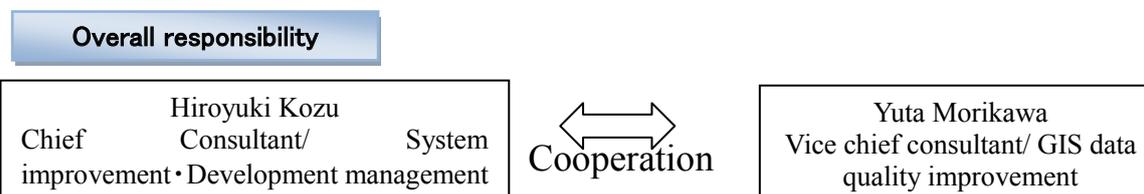


Chart 1: Implementation system

2.3 Implementation Items and Schedule

Based on the JICA's instructions this mission was started from the beginning of April 2013. Required local studies were carried out from the end of April. All the information collected was summarized and analyzed by late February 2014. And the final report was submitted by late-March 2014. Table 2 shows the work plan and activities.

Table2: Work plan/Activities

Contents	Period	2013												2014		
		4	5	6	7	8	9	10	11	12	1	2	3			
[Chief consultant/System Improvement design・development management]																
<Domestic preparation>																
(A) Collection and analysis of relevant information		■	■													
(B) Preparation and submission of the inception report		■	□													
<Local Activities>																
(C) Explanation of the Inception report to JICA Balkan office		■	□													
(D) Improvement of integrated web GIS system		■	■	■	■	■	■	■	■	■	■	■	■	■		
a. Summarization and analysis of user request on system expansion and improvement		■	■	■	■	■	■	■	■	■	■	■	■	■		
b. Designing system expansion and improvement			■	■	■	■	■	■	■	■	■	■	■	■		
c. Drafting work orders to local developers				■	■	■	■	■	■	■	■	■	■	■		
d. Final confirmation of contents of system improvement design shown to developers					■	□										
e. Examination of developers' proposals as a developer selection committee.						■	□									
f. Quality and progress management								■	■	■	■	■	■	■		
g. Confirmation and advice of training materials which have been created												■	■	■		
h. Acceptance inspection of unit tests and comprehensive tests											■	■	■	■		
(E) Advice and suggestions on system maintenance												■	■	■		
(F) Preparation and submission of the work report.													■	■		
<Domestic summarization>																
(G) Final confirmation of content of improvement						■	□									
(H) Preparation and submission of the final report														■		
[GIS data quality improvement]																
<Domestic preparation>																
(A) Collection and analysis of relevant information		■	■													
(B) Preparation and submission of the Inception report		■	□													
<Local Activities>																
(C) Explanation of the Inception report to JICA Balkan office			□													
(D) Evaluation of data quality and Training			■	■	■	■	■	■	■	■	■	■	■	■		
i. Verification of GIS data, analysis and evaluation of quality of the data			■	■	■	■	■	■	■	■	■	■	■	■		
j. Planning and preparation of the required training based on result of the item (i)			■	■	■	■	■	■	■	■	■	■	■	■		
k. Implementation of training and guidance			■	■	■	■	■	■	■	■	■	■	■	■		
(E) Advice and suggestions on system maintenance													■	■		
(F) Preparation and submission of the work report.													■	■		
<Domestic summarization>																
(G) Preparation and submission of the final report						■	□							■		
Period		4	5	6	7	8	9	10	11	12	1	2	3			
Chief consultants/System improvement design・development management		■	■	■	■	■	■	■	■	■	■	■	■	■		
GIS data quality improvement		■	■	■	■	■	■	■	■	■	■	■	■	■		
Outputs													△	△		

Legend: ■ Local activities, □ Domestic preparation, ■ Work in temporary return

2.4 Consultant Dispatch Record

Consultant dispatch record is shown in Appendix 1.

2.5 Activities

2.5.1 System improvement/Design (Kozu: 1st dispatch)

The followings were performed as activities concerning system improvement design.

2.5.1.1 The work plan was submitted to the C/Ps and the JICA Balkan Office and its contents were approved before starting the mission. Progress was reported monthly to JICA HQ and Balkan Office.

2.5.1.2 System Improvement Design

- A) Requirement analysis of improvement of existing functions
- B) Investigation and analysis of new functions to add
- C) Selection of improvement items
 - Included as many requests of CMC/PEMF as possible.
- D) Design document for improvement, work instructions
 - FSD was created. (See Table 3 for contents of improvement)

2.5.1.3 Other Activities

- A) Minor corrections of MKFFIS/GFIS were requested to Edusoft
- B) Contracted with Prof. MILTINOVIC as System Advisor
- C) Data collection for adjustment of FWI/VDM/hotspot
 - Weather data from year 2006 to 2011 were obtained from Hydromet
 - Forest fire history will be retrieved as much as possible from individual PEMF fire reports of daily bases; however the data quality is low.
- D) Data collection for three National Parks and Zone 1 Protected Forests was carried out.
- E) Small correction was done to FWI module (Bug fix)
- F) Establishment of maintenance system using the system health monitor
 - Discussion with Hydromet on AWS maintenance started.
- G) VDM module was modified to be able to download satellite data by HTTP, because anonymous FTP from NASA site seemed to be disabled.

2.5.1.4 Contents of Improvement

Table 3 shows the contents of improvement.

Table 3. Contents of Improvement

No.	Target	Content	
1	MKFFIS GIS	Reform MKFFIS Left Pane	developer
2	MKFFIS GIS / Fire Report	Add a link to user manual	developer
3	MKFFIS GIS	Change background image seasonally	developer
4	MKFFIS GIS	Add a common calendar control to specify a date for all the maps: VDM, FWI and hotspots	developer
5	MKFFIS GIS	Display FWI Map of the previous day until today's FWI Map becomes available	developer
6	MIFFIS GIS	Relocate vegetation map's attribute selector from Layers panel to the top of FMU selector	developer
7	MKFFIS GIS GFIS GIS	Add new layers: National Parks, Protected Forest Zone 1, MGRS Grid, Indirect damage vulnerable area	developer
8	MKFFIS GIS	Grid information: MGRS code, Summary of resources, Summary of events, Summary of inventories, FWI at the center of the grid, Vegetation dryness at the center of the grid	developer
9	MKFFIS GIS	Demographic information: Demographic information by administrative area	developer
10	MKFFIS GIS	Real-time disaster report from RCMC	developer
11	MKFFIS GIS	Search disaster reports	developer
12	MKFFIS GIS	Switch MKFFIS for internal and public	developer
13	MKFFIS Fire report	Fill some fields in CMC Fire Report taking meteorological data from AWS	developer
14	GFIS GIS, Planning, Fire report	Add a link to user manual	developer
15	GFIS GIS	Limit available FMU by user privilege	developer
16	GFIS GIS	Allow access to past version of forest plan	developer
17	GFIS GIS	Search FMU by year of expiry of special plan	developer
18	GFIS Planning	Change monthly input to daily for form3, 3a and 5	developer
19	GFIS Planning	Keep annual achievement for 10 years in form 6 and form 8	developer
20	GFIS Planning	Fill area in form 1 taken from polygon attribute	developer
21	GFIS Planning	Add National and Regional office level summary to the reports in Reports/Rekapitulari menu	developer
22	GFIS Fire report, MKFFIS Fire Report	Modify PEMF fire report input module to report by fire	developer
23	MKFFIS, GFIS	Performance tuning	developer
24	MKFFIS	System monitor: <ul style="list-style-type: none"> ● AWS Measurements, AWS Status, Module Status, MODIS/Seviri FTP Status, MODIS raw data status and PEMF Replication status ● Alarm function ● Dynamic Adjustment (FWI/VDM/hotspot) ● SYNOP data import 	Kozu
25	MKFFIS	Upgrade FWI Module	Kozu
26	MKFFIS	Upgrade VDM Module	Kozu

2.5.1.5 The activities above were reported and submitted to the C/Ps and the JICA Balkan Office.

2.5.1.6 Instruction during absence

Instructions during absence (in July and August) were given to the C/Ps as follows.

- A) SD1 developer's final dead line is 31st August. Make sure Edusoft submit all the deliverables and documents by the due date.
- B) Create attribute conversion table for data of national parks.
- C) Input fire history data (manual editing before entering data will be required, such as taking away unnecessary sheets, adding FMU number, etc.).
- D) Upgrade Windows for Internet server, intranet server and PEMF forest server.
- E) Upgrade memories.
- F) Reinstall MKFFIS to intranet server (use Dual CPU machine for Intranet server)
- G) Reinstall GFIS to PEMF Forest server.
Be careful not to lose data during the server update. Backup data first and update the system.

2.5.1.7 Activity in Japan

- A) As a member of the developer selection committee, the consultant joined the technical proposal review in August 2013.

2.5.2 Development Management (Kozu: 2nd dispatch)

The followings were performed as activities concerning development management.

2.5.2.1 The work plan was submitted to the C/Ps and JICA Balkan Office and its contents were approved before starting the mission. And the progress was reported monthly to JICA HQ and Balkan Office.

2.5.2.2 Development progress and quality management

- A) Systematization of the system development management

For smooth implementation of the system development, it was required to perform systematic processes and quality management. The CMC, the project and local developer have agreed to the following matters such as reporting the process and progress of test implementation policy and test item design. However, the agreement was not always in effect because the developer often neglected to inform to the project the part that they have updated, as a result the project had to seek what was improved in the last update, causing very low efficiency to the application functionality test.

- B) Progress management of the system development by steering committee meeting.

The steering committee consists of CMC, developers and the Project, and weekly meetings were held. In the meetings, the any delays in the development were investigated and the cause of the delay was analyzed to work out whether the delay was as the fault of the developer or CMC. Each situation was dealt with in accordance with the cause.

- C) Guidance concerning the change in development management

In the system development management process, when the developer proposes any change for improvement such as proposals that were considered from a point of view of limitations or maintenance abilities, the results of the consideration were explained to the project. Basically, the developer's proposal should be based on the functional specification document (FSD). If the proposal is exceeding the functionalities specified by FSD which was made to carry out during the maintenance period of the development that is outside of the project period; a large change might not be produced in the SD2 basic design itself.

- D) System Quality Management

This is the part that the consultant put the most effort into.

- Usability of the system was examined by operating the actual system. In case that any abnormal behavior was found, the consultant requested the developer for correction. Extraordinary number of errors were detected and ordered to correct. This led the consultant to suspect that the developer had problems with their

internal test process, or that they did not conduct internal tests. The consultant found that some developers had very poor quality management and no sense of group development. For example, from time to time, the part which had been working before did not work in the next update. This means that their version management was poor and this made the test process very inefficient.

- Discrepancy issues between all the maps served by Geoserver and Google Maps was completely solved.
- Discrepancy issues between FMU maps and Google Maps on the iPad was completely solved.
- Discrepancy issues between FMU maps downloaded from GFIS version2 and Google Maps on QGIS was completely solved.
- Discrepancy issues between FMU maps downloaded from GFIS version1 and Google Maps on QGIS was solved by applying custom CRS to the FMU maps.
- In order to eliminate discrepancy issues, EPSG:4326 was exclusively used as the CRS through out the FMU and damage area editing flow.
- Sample program to draw Emergency Grid (MGRS) was developed and offered to the developer.
- Sample program to obtain FWI of any location was developed and offered to the developer.

2.5.2.3 Check contents of the training materials that have been created

A) Give advice and support for creating manuals and training materials.

This part was covered by Ms. Honda, except for the manuals of agents created by the consultant and materials of trainings performed by the consultant.

B) Give advice and support for user training

This part was covered by Ms. Honda, except for the training conducted by the consultant.

2.5.2.4 Give advice and support the project on acceptance inspection of the system

A) Acceptance inspection of improvement development

The inspection was done together with the CMC, the project and the developers in the steering committee meeting, making the developer demonstrate how the inspection should be undertaken. In case the inspection was not implemented suitably, the consultant requested the developer for correction. Further investigation was mostly done by Ms. Honda and the consultant. Ms. Honda covered all the MKFFIS system and the consultant covered the MKFFIS GIS part.

2.5.2.5 Give advice and proposals to the long-term experts and the C/Ps about system maintenance

A) Establish system maintenance management structure

Expanding the system monitoring tool developed in the year 2012, a new web-based system health monitor (MKFFIS Monitor) was developed and introduced to both CMC and

Hydromet. The monitor shows messages helpful for the trouble shooting when any malfunction is detected. Recommendation was made that CMC should establish a system to monitor the system health constantly by using this tool in order to allow for quick trouble shooting. (See Fig.3)

Fig. 3 : MKFFIS Monitor



B) Stable operation of vegetation dryness module

The consultant made following modifications to deal with malfunction of the vegetation dryness map creation module created by the Sawada laboratory in the Institute of Industrial Science, University of Tokyo.

- Changed the protocol to receive satellite data, from FTP to HTTP, because specification of NASA server was changed (this was done in the 1st dispatch).
- Modified to publish created VDM to the Geoservers
Vegetation dryness map creation module had only mapping function, and map publication was done in a separate module written by the developer. Because the map publication was not functioning as expected, and also technology of the developer in this field was skeptical, map publication function was added to the VDM module. From the system design point of view, it is natural and effective that the module which creates a map should publish the map to the Geoservers, rather than using separate modules for map creation and map publication.
- Change installation partition for the VDM Module
Partition with small capacity was used for storing satellite data and maps created. This caused overflow of the partition and resulted in a malfunction in VDM creation. The consultant modified the module to use larger partition for storing growing data. The partition has enough space to keep satellite data for 10 years; however the consultant recommended that every year IT staff should delete data that is more than 5 years old to save space.

C) Stable hotspot acquisition, FWI map creation and publication, VDM publication

In order to stabilize the functions to create the MKFFIS main products: hotspots, FWI map and VDM map; the consultant developed the following modules additionally. Some old modules developed in SD1 were discarded from the point of view of reliability and accuracy.

- fwiEx: This is the FWI map creation and publication module. This version uses data from AWS and SYNOP, and for backing up AWS. The old SD1 FWI module was obsolete.
- modisRawEx: This is the module for acquisition of MODIS raw data from HydroMet satellite server by FTP and hotspot publication. The old SD1 module written by the developer was obsolete. Also raw data transfer using Delta-Copy was obsolete because IT department cannot manage it when an error arises. Simple FTP is used currently for the raw data transfer that IT department can manage easily. After this modification MODIS raw data acquisition module is working stably.
- cleanModisRaw: This is the module for safe cleaning of MODIS raw data accumulated in the satellite server at Hydromet. It deletes MODIS raw data after confirming acquisition of the data in order to avoid overwhelming the storage capacity of the satellite server. The old deleting function had become obsolete.
- seviriftpEx: This is the module for acquisition of Seviriftp hotspot from Eumetsat FTP server and hotspot publication. Old SD1 module written by the developer was obsolete.
- fwiAutoPublish: This is the module to seek FWI maps which have not been published due to an error, so that they can be published.
- vdmAutoPublish: This is the module to find VDM maps which have not been published due to an error, so that they can be published.
- fwiChaser: This is the module to fill hotspot attributes - FWI and VDM rank - if a hotspot missed them.

2.5.2.6 Training

The consultant conducted the following training sessions.

A) Training on FMU/ Fire damaged area polygon handling among GFIS-QGIS-iPad with GPS

Purpose : PEMF forest engineers will become to be able to handle (edit, create new, and convert CRS of) FMU polygon and Fire damaged area polygon through the practice following the PEMF workflow.

Contents : Explanation of the coordinate system throughout the workflow, QGIS environment settings for editing work, Acquisition of FMU shapefiles from GFIS, Editing FMU by QGIS, Uploading FMU on iPad, Drawing Fire Damedged Area Polygon on iPad manually, Drawing Fire Damaged Area Polygon on iPad assisted by GPS, Editing Fire Damaged Area Polygon by QGIS, Coordinate Reference System Conversion for the polygons created by the old version of GFIS system.

Date : 20th February (full day)

Target : PEMF Forest Engineers (3)

Outcome : Among the participants, Mr. Miroslav Grujevski could obtain enough technologies to teach the contents of this training to the other PEMF forest engineers, because he could independently verify the contents of teaching materials, and perform practice. However the other participants could not leave any outcomes because they could just superficially go through the teaching materials with a lot of help of Ms. Honda (project coordinator) and Mr. Koneski (project secretary).

B) MKFFIS Monitor Training AWS part

Purpose : Hydromet staff will become to be able to use the AWS monitoring function of MKFFIS Monitor and utilize it to their AWS maintenance planning.

Contents : Explanation of AWS data acquisition view, AWS recieved data view, AWS latest data table, AWS gauge checker and AWS data download function.

Date : 21st February (1 hour)

Target : Hydromet Forecast (3), Meteorology (2), IT (1)

Outcome : Formerly, hydromet had no way to see the data of AWSs which JICA supplied. They did not

C) MKFFIS Monitor Training

Purpose : CMC staff will be able to perform quick troubleshooting of MKFFIS System by grasping malfunctioning of the system using the MKFFIS Monitor. Neither the means to utilize the data for their business, nor the means to discuss possibility to utilize the data was provided. In spite of this situation Hydromet was to carry out the maintenance management of the AWSs. Under such circumstances, we could not expect high motivation of Hydromet against maintenance of the AWSs provided by JICA. By this training, Hydromet obtained the means to utilize data from those AWSs, and a view by which they can look through the present condition of all the AWSs. Improvement of the motivation to maintain the AWSs provided by JICA might be expected if data from the AWSs will be used for their own purpose in the future. However the AWSs provided by JICA have been used only to create FWI at present, and confirmation whether or not they can be diverted to other uses has not been performed yet.

Contents : Explanation of functionalities of MKFFIS Monitor, daily check points, Caution to change MKFFIS Settings, and User management.

Date : 21st February (2 hours)

Target : CMC Analysis (3), IT(3), Project (3)

Outcome : CMC Staff became to be able to use a view of MKFFIS Monitor , in which daily monitoring tasks required to maintain MKFFIS system are consolidated. As a result, it is expected to improve efficiency of the MKFFIS system monitoring and troubleshooting.

2.5.2.7 Meeting with Professor Milutinovic

- A) Drawing MGRS Grid
Date : 24th October (half day)
Attendance: Kozu
- B) Adjustment of FWI Danger Classes I
29th January (half day)
Attendance : Sato, Kozu
- C) Adjustment of FWI Danger Classes II
24th February (half day)
Attendance : Sato, Kozu

2.5.2.8 The consultant produced a work report in English based on the above activities, and submitted and explained it to the C/Ps and the JICA Balkan Office.

2.5.3 GIS Data Quality Improvement (Morikawa: 1st and 2nd dispatch)

Following activities were performed for PEMF concerning GIS data quality improvement.

- 2.5.3.1 The consultant read relevant reports about the Web-GIS such as design documents created by short-term experts, understood its design policy, how to use, required functionalities, and created inception report with the other consultant in charge of development management.
- 2.5.3.2 The consultant submitted the inception reports (in both Japanese and English) to JICA Head Office and discussed implementation items.
- 2.5.3.3 The consultant submitted and explained the inception report to the JICA Balkan Office and the C/Ps. Also submitted progress report to JICA Balkan Office at appropriate intervals.
- 2.5.3.4 The consultant implemented the following contents with CMC IT department and PEMF (Public Enterprise Macedonian Forests) which supported system end-user.
 - A) Confirmed, evaluated and analyzed GIS data which were entered and modified by PEMF after starting system operation.
 - B) Performed on-the-job guidance and support for GIS data creation and data editing.
 - C) Performed guidance and support for FMU data creation which PEMF conducted by itself.
 - D) Based on the result of analysis performed in A, performed planning and preparation of the necessary training.
 - E) Implemented the training sessions above.
 - F) Updated data quality evaluation procedures and created data quality evaluation procedure documents.
 - G) Created and updated FAQ (Frequently Asked Questions).

Details of above A-G are as follows.

A) GIS data quality evaluation

Editing GIS data started since April 2013 by PEMF. Although training on basic operation and how to use the system had already been given to PEMF staff, they made some mistakes when they have started using the system. Thus, GIS data quality was evaluated.

In addition, edited GIS data which were reflected based on the field notes was evaluated later in the new year.

Based on the result of evaluation, data editors learnt how to solve errors and assignments. The evaluation results were reflected to the FAQ which

will be described later, and to the data quality evaluation procedures.

B) OJT (On the Job Training)

In the first dispatch, the amount of edited GIS data was limited because the system had just been developed. GIS data editing operation and some other issues were confirmed by conducting interviews of every engineer on an individual basis. Solutions were taught to the engineers under the OJT style.

In the second dispatch, many more engineers started GIS data editing as a result of the Review training which will be described later. Hearing investigation was also performed as well as the case in the first dispatch, though the time spent for each engineer was shortened.

C) FMU data set creation

Since the new FMU data set had to be created by PEMF itself, other than the regular data editing work, specialized operations and effective ways focused on the new FMU data creation were instructed in the first dispatch. Although this new FMU data creation was not completed in the first dispatch, support was continued by exchanging e-mails.

Since the regular work using CAD continued during system development, 11 FMU CAD data were more updated than the GIS data (shapefiles) created by the developer. These FMU GIS data had to be updated based on the CAD data. CAD data are easily converted to the GIS data if their quality is high. On the other hand, CAD data with low quality take a lot of time for converting. After trial and error and discussions with PEMF C/Ps, it was decided that CAD data would only be used for the reference.

D) Planning and preparation of QGIS training

QGIS training sessions were planned and prepared based on the data quality evaluation which was described in A), and based on the interviews with the engineers in PEMF. In the training which was implemented in February 2013, GIS general knowledge and major commands were explained. In this year, training was performed considering practical operations related to the regular work using actual data.

E) Implementation of Training

Based on the planning and preparation described in D), the consultant conducted the training. Details of the training have been described in the attached training report. Summary is as follows.

① Refresher training

Target : At the end of training, the trainee will be expected to do

regular work by themselves on QGIS.

Contents : Basic data editing operation in QGIS1.8.0

Period : 23rd and 24th January (2 days)

Participants : 12 engineers from PEMF (including 1 support member)

② Final Training

Target : At the end of training, the trainees will be expected to do regular work by themselves on QGIS and evaluate data quality.

Contents : Basic operation and data modification on QGIS.
Data evaluation procedure.

Period : 18th, 19th and 21st February (3 days)

Participants : 19 engineers and 2 cartographers from PEMF

F) Data quality evaluation procedure document

Data quality evaluation procedure document, which was created last year, was updated based on the latest situation of GIS data for the responsible persons and the administrators in PEMF. After discussion with the C/Ps, it was decided that not only the administrators but all the engineers needed to have the responsibility for the management of FMUs. The above-mentioned document contains too much information and is complicated for the engineers. Thus, a simpler version of data quality evaluation procedure document was created for the engineers. The contents were decided upon discussions with the C/Ps and were then explained to the engineers in the final training.

G) Creation and update of FAQ

In the 1st and 2nd assignment to Macedonia a lot of questions and issues were coming to the surface through the process of interviews with the PEMF staff. These issues were solved and taught in OJT on a personal basis. In order to share the issues and solutions among the PEMF staff, frequently asked questions (FAQ) were compiled. (Refer to Appendix 3 for the FAQ)

2.5.3.5 The consultant gave advice and proposals to the long-term experts and the C/Ps about system maintenance especially on data quality improvement and data maintenance.

2.5.3.6 The consultant produced a work report in English based on the above activities, and submitted and explained it to the C/Ps and the JICA Balkan Office.

The following are issues, ideas and lessons on the implementation of the project.

3.1 System improvement design/development management

① Difficulty in selection of developer

By comparing the speed of the new and old MKFFIS using the same Macedonian Internet service, the new MKFFIS recorded a processing speed of more than four times that of the old MKFFIS. In addition, it can be said from the fact that opinion favorable to the new MKFFIS has been received from training participants in terms of both speed and ease of use, that the purpose of the SD2 has been largely achieved. As a result of developer's continued development through a maintenance period from SD1 to SD2, developer's level of technology, especially the skill of development of the GIS application using Geoserver, has been more clearly improved than the time of SD1. However, the question remains whether a developer with a higher skill level could not have been selected at the beginning. In both SD1 and SD2, developers were selected by evaluating their technical proposals, but the contents written in the proposal were not necessarily performed. Considering the fact that some templates for writing a splendid technical proposal exist, it might be difficult to select an excellent developer only by a technical proposal. The best way to judge level of technology of a developer might be to check the similar system under operation created by the developer; however, whether such a developer exists in the recipient country is another question. In the case that such a developer can be found, if developer is selected by competitive tender, a technically satisfying developer will not necessarily be selected. When a similar project will be carried out in the future, sufficient preliminary study on the solution to be used, technological level of developer available in the recipient country, and the needs for the use of foreign skilled developers must be conducted.

② Development period restriction by JICA one-year budget

Considering user training after development, only three to four months could be spared for the development itself, in accordance with the procurement schedule of JICA taken in both SD1 and SD2. This period seemed to be too short for the development of the size of MKFFIS/GFIS. However, we could establish practical system finally in SD2. This is because of the seemingly generous custom of system development in Macedonia that will allow not only bug fixes but also even addition of functionalities in the maintenance period.

③ Limit in creating scientific application

We can take FWI map creation for example. In the case of EFFIS which is providing FWI map of Europe on their website, they have no missing values in their data source. So, calculation of FWI is very easy for them as they have to just follow a textbook for carrying out the calculation. On the other hand, in the case of Macedonia, there are special circumstances such as missing data in their measurement of AWSs. And as we were unable to find the paper describing a method for calculating FWI under missing data, it is necessary to develop a unique approach for the FWI calculation, such as by conducting technical research which normally takes time. In order to employ a developer to create FWI, we should create a functionality specification document first. So, in the case of Macedonia we cannot have an employed developer for this purpose in SD1. After all, the FWI module which the developer created in SD1 was useless, and the consultant rewrote the module after a lot of trial and error. Scientific development of this kind which requires research should be carried out in collaboration with a research institute (s) such as a university.

④ Problem of consortium

At a rough estimate, three technologies network, database and GIS was required in the development of MKFFIS/GFIS. The developer that CMC/Project selected was a consortium of three companies. Each of them was responsible for a particular niche.

A consortium has advantage that they can combine several specialized fields into one project, but also has disadvantage that responsibility becomes uncertain about the boundary between each specialized field. This is an obstacle for the development management. Probably, it will be safer to avoid employing a consortium, unless it is necessitated by a lack of skilled resources.

3. 2 GIS data quality improvement

① Privilege for data editing

All the QGIS training sessions were implemented targeting all the engineers incorporating the intention of PEMF. After the completion of the training conducted in the first and second dispatch, all the engineers obtained general knowledge of GIS which was new concept for them, and got to perform the basic level editing of GIS data. On the other hand, some engineer's skills have not come to the level whereby they can edit GIS data with high accuracy. At the end PEMF should be decided how they will manage to maintain data in high accuracy; however they should consider the way to give privilege of data editing only to the selected engineers not to all the engineers.

② Data quality management

Each engineer has to have responsibility for data quality of his/her FMUs in charge. After that, cartographers and an administrator will inspect data quality based on the data quality evaluation procedures, and upload the data to the system. In February 2014, since the data upload interface is still under development, data specification such as naming conventions has not been decided yet. It is necessary to disseminate to all levels of the data editor to comply with the data specification which will be determined by developers.

③ New FMU data creation

Since the regular work using CAD continued during the period of system development, 11 FMU CAD data are more updated than the GIS data created by the developer in SD1. After trial and error and discussions with the C/Ps, it was decided that CAD data would be used only for the reference, and corresponding GIS data would be updated to the new FMU. It could be converted to the shapefile with good efficiency if CAD data could have been created with high accuracy. This fact can be a good lesson for a system development while regular work is on going.

Additionally, there are some GIS data which have already been edited in the datum of the old system MGIBalkanZone7_EPSG:31277. These data should be converted to WGS84_EPSG:4326. Although the engineers studied how to convert them in the training, but they should be very careful for this conversion.

④ Use of QGIS Version 2

An open source software (OSS) QGIS was nominated and introduced as a GIS data editing software. PEMF staff had used QGIS 1.8.0 until last year. And QGIS version 2.0 was released in September 2013. In general, caution should be exercised when introducing newest version of software, because normally bugs are remaining in the codes and it might bother users raising unexpected errors. After discussions with the C/Ps, QGIS 2.0 was introduced to the PEMF staff since we considered there would be a significant advantage in using the new version and also we could confirm that its working environment is very stable. As a result, we spent some time to get used to the new version, and it is believed that it was worth it.

On the other hand, the time spent to evaluate QGIS version 2.0 was not enough to extract all the underlying bugs. We cannot deny the possibility that unexpected bugs may occur in the future. In that case, it is recommended to consider partial use of the previous version 1.8.0 in the period during which the existence of bugs is investigated.

Continued use of MKFFIS/GFIS system will be required in order to reduce the occurrences of massive forest fires by strengthening the social capacity for prevention and early warning of forest fires. VDM, hotspots and FWI are the main products of MKFFIS/GFIS system, and among them, the creation of VDM and Hotspots deeply depend on MODIS services. Basically, life-time of these maps creation functions are determined by the life-time of these satellites. Terra has been working for 14 years and Aqua for 12 years. There is a possibility of these services being stopped suddenly.

On the other hand, FWI does not depend on MODIS service. It depends on only data from AWS and the AWS data are backed up by Synop data. This means FWI is available as long as the classic meteorological stations are operational. In light of this situation, the following proposals are made.

- ① In the legislation regarding MKFFIS/GFIS, FWI should be used as a main criterion of judgment and VDM and hotspots should be limited to auxiliary use.
- ② To prepare for the possibility of MODIS services coming to an end, a study of alternative services to replace MODIS should be undertaken. It is a good idea to keep in touch with EFFIS as they are providing similar information (Hotspots) taking from MODIS. And it is important for CMC to look for some organization such as a university, in which joint research is possible.

Appendix 1 Consultant Dispatch Record

	Post	Name	Belonging	2013												2014			Total	MM	
																				Total	
				4	5	6	7	8	9	10	11	12	1	2	3			Macedonia		Japan	
Work in Macedonia	Chief consultant/ System Improvement (Design・Development Management)	Hiroyuki Koza	YSK CONSULTANTS CO., LTD.	4/21	[Local activities]			7/4	9/1	[Local activities]			2/27			255	8.50	/			
	System Improvement (GIS Data Quality Improvement)	Yuta Morikawa	KOKUSAI KOGYO CO., LTD.	5/13	[Local activities]		6/1					1/13	2/27			66	2.20				
	Total														321	10.70					
Work in Japan	Chief consultant/ System Improvement (Design・Development Management)	Hiroyuki Koza	YSK CONSULTANTS CO., LTD.	4/5	4/8~4/10		7/8~7/10						3/3~3/5			10	0.50	/			
	System Improvement (GIS Data Quality Improvement)	Yuta Morikawa	KOKUSAI KOGYO CO., LTD.	4/4~4/5	5/10						1/9~1/10	2/28			6	0.30					
	Total														16	0.80					
	Report			△									Work Report	△△△	Final Report			/			
Total															10.70	0.80					
Total															11.50						

Legend : [Local activities] Local activities [Domestic preparation] Domestic preparation

Appendix 2 Training Report

**Technical Assistance for Development of Integrated System for
Prevention and Early Warning of Forest Fires
(SYSTEM IMPROVEMENT)**

QGIS Training Report

Contents

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1. Outline of Training

1.1 Refresh Training

Purpose: At the end of training, trainees will be expected to do regular work by themselves on QGIS.

Contents: Basic operation and data modification on QGIS

Software: Quantum GIS 1.8.0

Period: 24th and 25th Jan 2014

Number of Participants: 12

Participants overview: All participants are engineers from PEMF

1.2 Final Training

Purpose: At the end of training, trainees will be expected to do regular work by themselves on QGIS and evaluate data quality.

Contents: Basic operation and data modification on QGIS.

Data evaluate procedure.

Software: Quantum GIS 2.0

Period: 18th, 19th and 21st Feb 2014

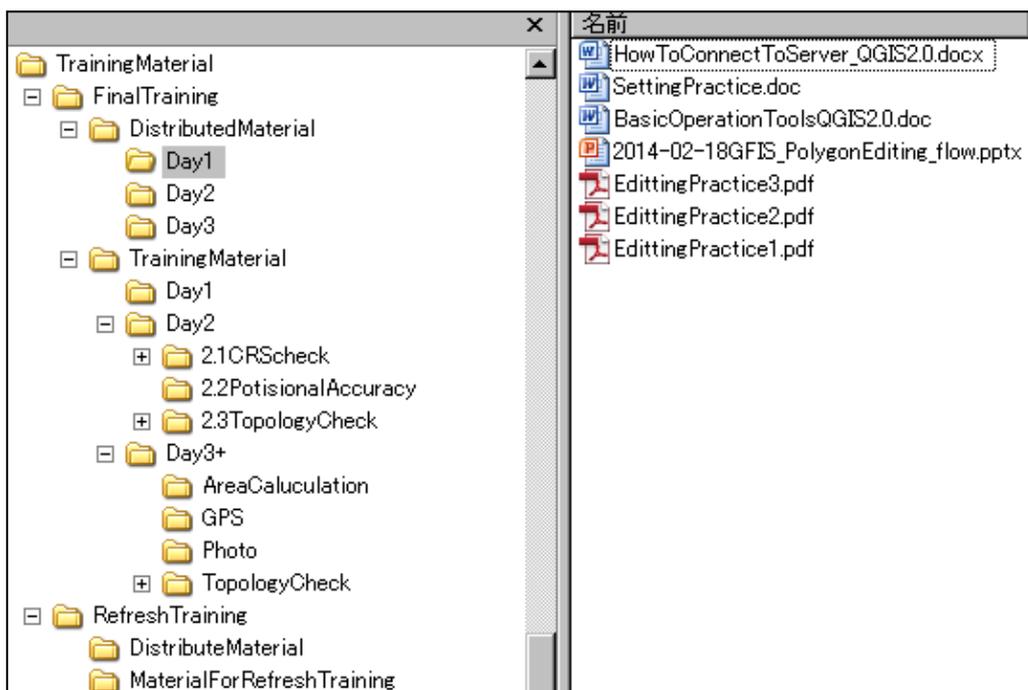
Number of Participants: 21

Participants overview: 19 participants are engineer from PEMF

2 participants are cartographer from PEMF

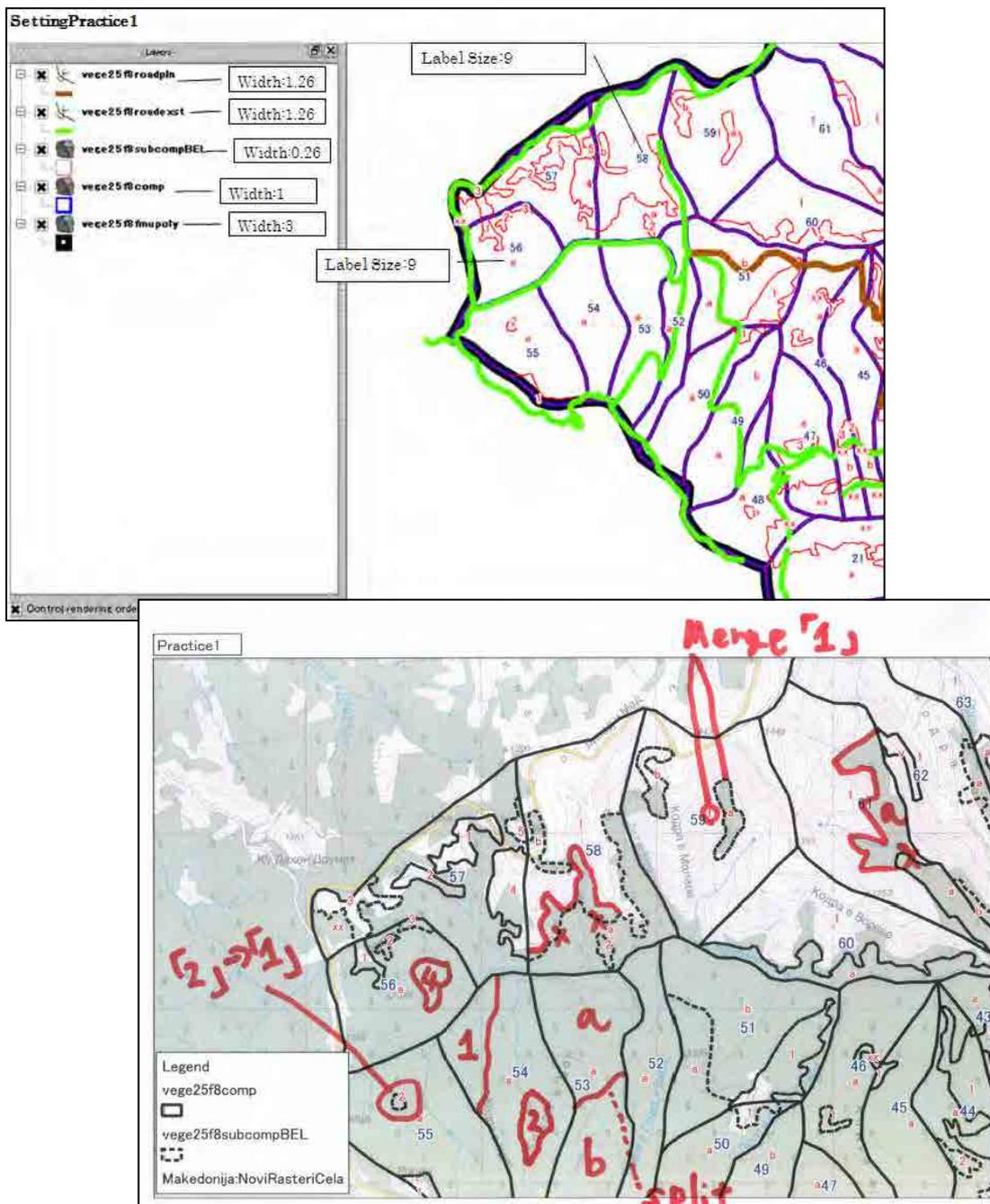
2. Training material

Below picture shows the components of training material



4. Sample of practice material

Following materials were distributed for trainees as practice material



Appendix

A-1 Contents of Refresh Training

Scope & Target

The training is designed for GIS beginners. Training will be provided on the QGIS software tool and general GIS knowledge will be gained. The material will be selected from the actual GIS data which PEMF has to manage.

Objectives

The trainee at the end of the training are expected to do below task by themselves.

Objectives focus on the regular operation.

- ✓ To modify existing polygon
- ✓ To modify attribute data
- ✓ To create new polygon

After training, trainees try to modify data that you are responsible.

First week of February, data inspection will be done.

Training Schedule

Contents of training	Time	
1. Downloading Data from the server Explain by Miro-san	Lecture (0.25h) Practice (0.25h)	D A Y 1
2. Basic Operation of QGIS 2.1 QGIS (Start-up, Add data and Save) 2.2 Basic Operation of QGIS Zooming in/out, Scrolling, Symbol, Transparency & Label 2.3 Attribute data Open data, Edit data and others <u>Practice Setting</u>	Lecture (0.5h) Practice (1h)	
3. Shape file modification 3.1 Shape change of polygon and polyline Snap and Topology function 3.2 Delete, Merge and Split 3.3 Consistency between Compartment and Sub-compartment <u>Practice Editing</u>	Lecture (0.5h) Practice (1h)	

<p>4. Saving Shape file saving VS Map Saving</p>	<p>Lecture (0.5h) Practice (0.5h)</p>	
<p>5. New Polygon Creation</p>	<p>Practice (1h)</p>	
<p>6. Practice Common troubles</p> <ul style="list-style-type: none"> ◆ I cannot see a map feature which is supposed to be there ◆ I cannot grab (select) an object ◆ I want to remove the yellow color of some polygons. ◆ Others <p><u>Practice</u></p>	<p>Review (1h) Practice (3h)</p>	<p>D A Y 2</p>

A-2 Contents of Final Training

Scope & Target

The training is designed for QGIS users. Training will be provided on the QGIS2.0 software tool and general GIS knowledge will be gained. The material will be selected from the actual GIS data which PEMF has to manage.

Objectives

The trainee at the end of the training are expected to do below task by themselves on QGIS2.0. Objectives focus on the regular operation.

- ✓ To modify existing polygon
- ✓ To modify attribute data
- ✓ To inspect data quality and modify errors

After training, trainee tries to modify data that they have a responsibility.

Training Schedule

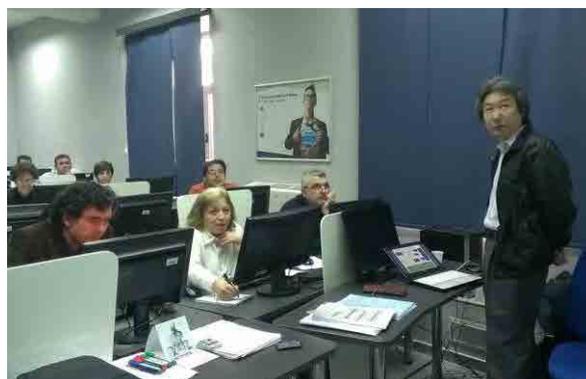
Contents of training	Time	
1. New Flow of FMU/Damage polygon editing Explain by Kozu-san	Lecture (0.15h) Practice (0.15h)	
2. Basic Operation of <i>QGIS 2.0</i> 2.1 QGIS (Start-up, Add data and Save) 2.2 Basic Operation of QGIS Zooming in/out, Scrolling, Symbol, Transparency and Label Coloring. 2.3 Attribute data Open data, Edit data and others <u>Practice setting</u>	Lecture (0.5h) Practice (1h)	
3. Shape file modification on <i>QGIS2.0</i> 3.1 Shape change of polygon and polyline Snap and Topology function 3.2 Delete, Merge, Split and Donut polygon 3.3 Connect to the server <u>Practice editing</u>	Lecture (0.5h) Practice (1h)	D A Y 1
4. Data inspection 4.1 CRS (Coordinate Reference System) 4.2 Plug-in	Lecture (1h) Practice (1h)	D

<p>4.3 Data Quality Evaluation Procedure</p> <p>4.4 Topology Check</p> <p>4.5 Modification topology errors</p> <p><u>Practice Data Quality Evaluation</u></p>		<p>A</p> <p>Y</p> <p>2</p>
<p>5. Common Trouble and Effective operation</p> <ul style="list-style-type: none"> ◆ Area calculation ◆ Picture on the map(Photo2Shape) ◆ Open project in QGIS2.0 not 1.8 ◆ Bookmark ◆ Color style saves ◆ Label Setting ◆ GPS data transfer ◆ Join Table ◆ Missing Toolbar ◆ Others 	<p>Review (1h)</p> <p>Practice (3h)</p>	<p>D</p> <p>A</p> <p>Y</p> <p>3</p>

A-3 Picture of Training



OJT



Explanation



Personal explanation



Supporting each other's



Class room



Certificate

Appendix 3 FAQ



25 Feb 2014

F A Q
Frequently Asked Questions

~ QGIS @ PEMF ~

Setting	- 1 -
➤ Can I print out A0 size?	- 1 -
➤ How do I cover lower layer between the dot (dash) lines of upper layer?	- 2 -
➤ How do I set black and white color to the raster data?	- 4 -
➤ How do I put a different color for the forest and non-forest?	- 6 -
➤ Can I put a label inside a feature?	- 7 -
Editing	- 10 -
➤ Can I delete part of feature?	- 10 -
➤ Part of feature still exists... ..	- 12 -
➤ How do I select a behind feature?	- 15 -
➤ Can I change the order of column in attribute table?	- 17 -
➤ How do I divide a road polyline by the each feature of compartment.....	- 19 -
➤ Can I use the same setting of “Print Composer”?	- 20 -
Analysing	- 21 -
➤ How do I calculate area of polygon?	- 21 -
GPS	- 24 -
➤ Can I see the map on the GPS	- 24 -
Reference_Plugin	- 27 -
➤ What is Plug-in?	- 27 -
➤ How to use Plug-in?	- 28 -



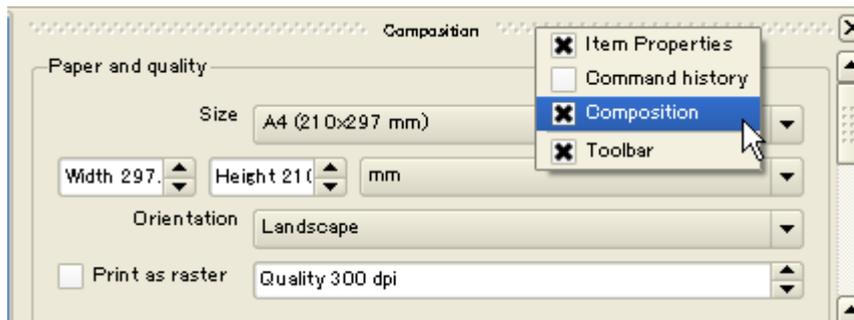
Setting

- Can I print out A0 size?

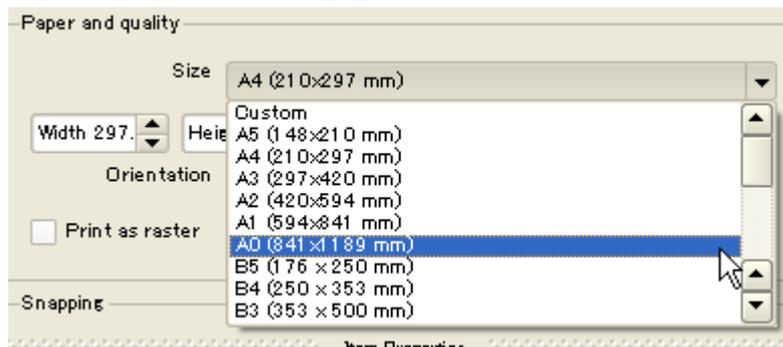
Step1: Open “Print Composer”



Step2: Right click on the right side of print composer screen and check “Composition”



Step3: Change the size of paper



Step4: Create map in the usual procedure

Step5: Set Page A0 from “Page Setup”



Step6: Print out!!



Technical Assistance for Development of Integrated System for Prevention and Early Warning of Forest Fires



- How do I cover lower layer between the dot (dash) lines of upper layer?

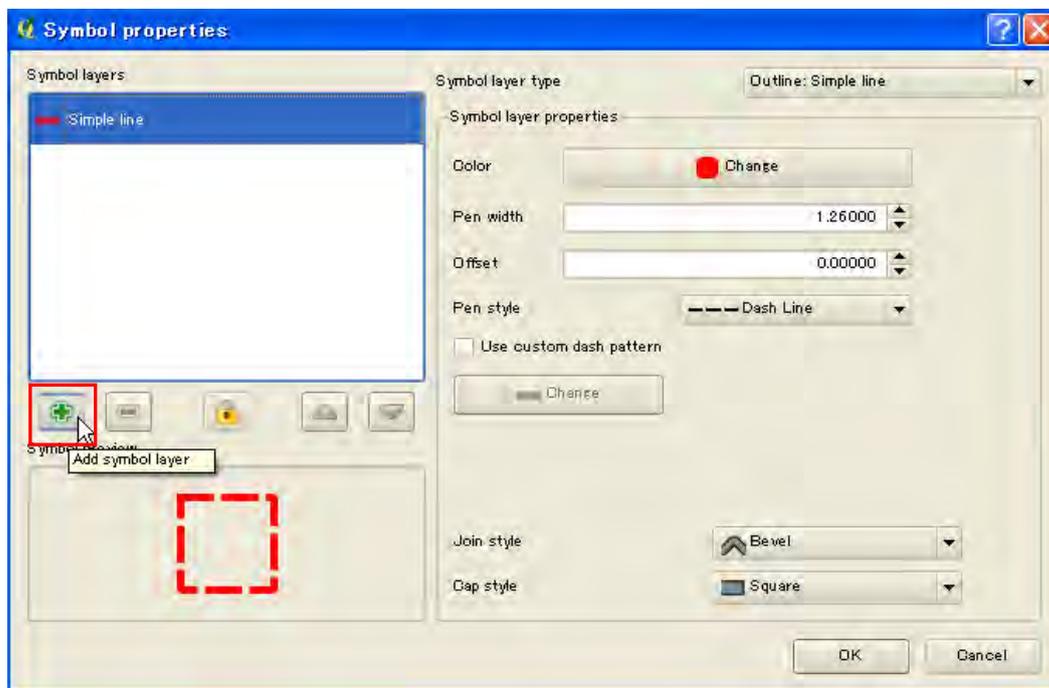
Issue: Below line (Sub compartment in here) should be not describe between dot lines of compartment.



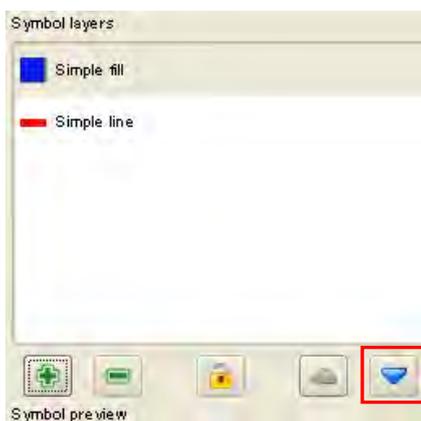
Compartment: Red line

Sub-Compartment: Blue line

Step1: Add symbol layer form the “Symbol properties”



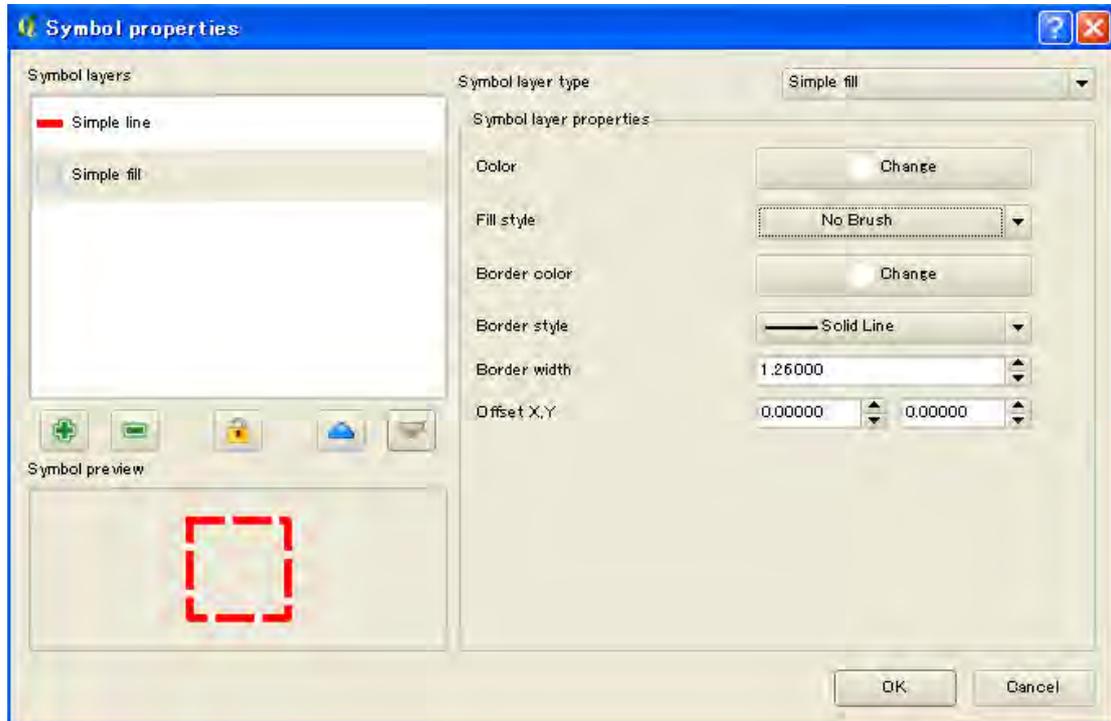
Step2: Click “Move down”





Step3: Change setting by referring to the below figure

※Border width should be the same of the upper symbol layer.



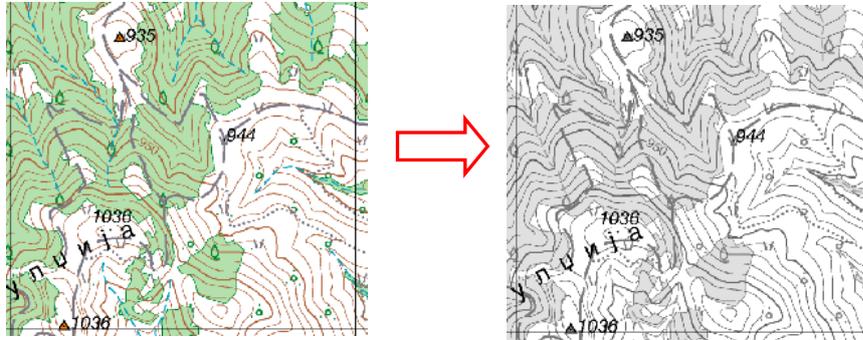
Step4: Click “OK” and confirm result





- How do I set black and white color to the raster data?

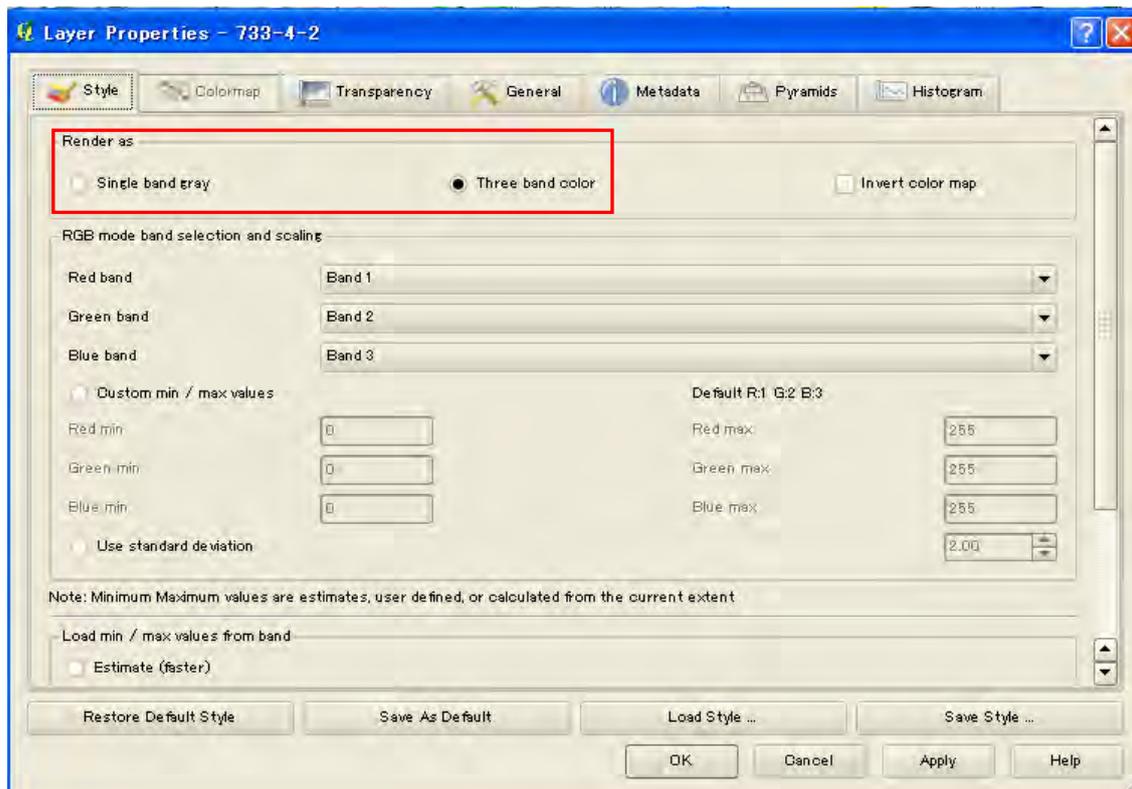
Issue: Topographic map should be described black and white color.



Step1: Open property of target raster data

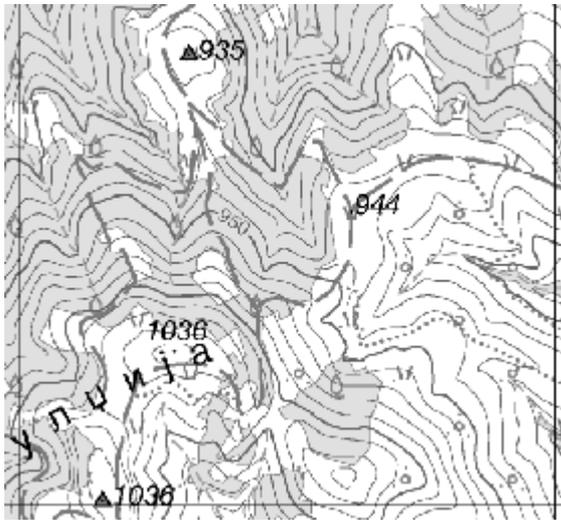
Step2: Select “Style” tab

Step3: Change “Render as” from “Three band color” to “Single band gray”

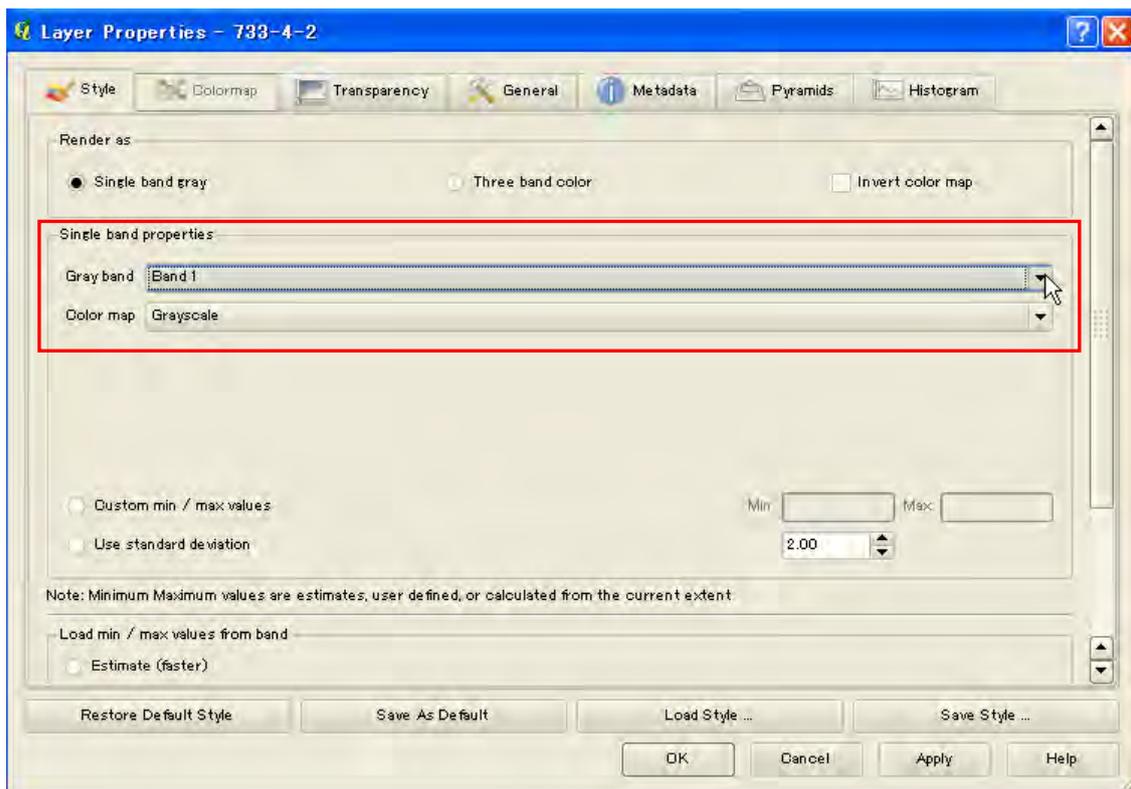




Step4: Confirm result



Additional Step: Adjust color description from “band properties” and others.



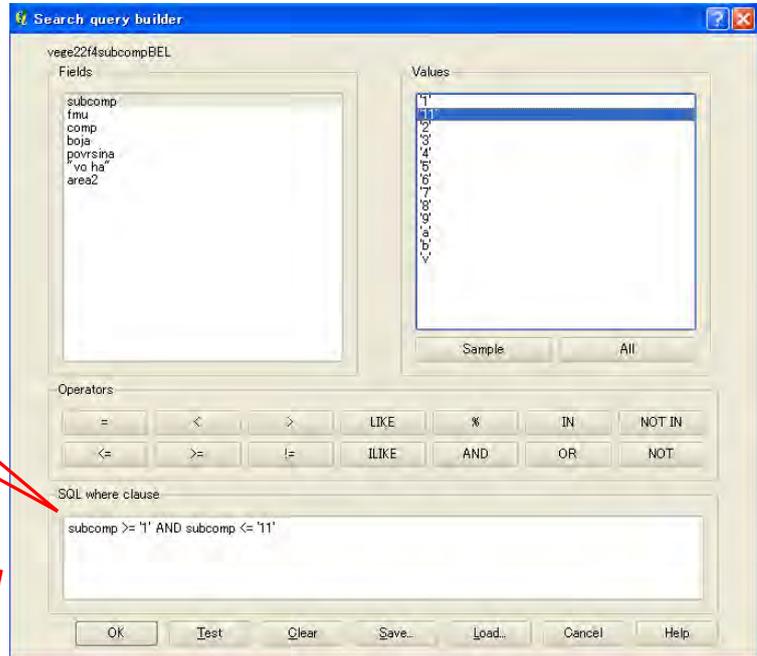


- How do I put a different color for the forest and non-forest?

Step1: Select only non-forest feature of Sub-compartment

Select non-forest feature with “Advanced search”

This is just example.
You can select data with your style



	subcomp	fmu	comp	boja	povrsina	vo ha
0	a	22-4	65	0	549613.72	54.93
1	8	22-4	49	0	3708.03	0.37
2	2	22-4	54	0	6016.97	0.6
3	b	22-4	1	0	405608.81	40.56
4	1	22-4	55	0	13219.4	1.32
5	v	22-4	67	0	101073.03	10.11
6	3	22-4	67	0	8210.04	0.82
7	1	22-4	67	0	5579.4	0.56
8	4	22-4	64	0	5019.49	0.5
9	2	22-4	67	0	17133.71	1.71
10	5	22-4	63	0	8692.04	0.87
11	2	22-4	66	0	5013.37	0.5
12	v	22-4	62	0	92038.81	9.2
13	2	22-4	63	0	21743.35	2.17

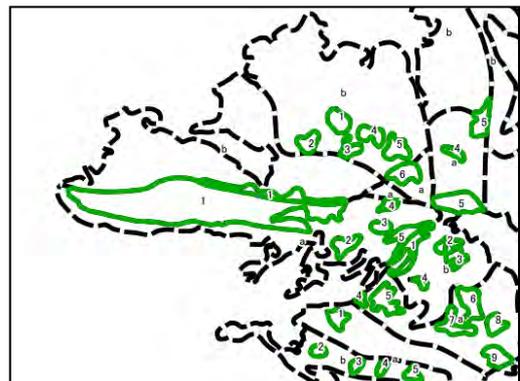
Step2: Create new shape file by “Save selection as”

Right click target polygon and select “Save selection as” and save data

Step3: Add saved data on the map

Step4: Set different color for each polygon

※ Non-forest polygon must be put upper layer in this example.



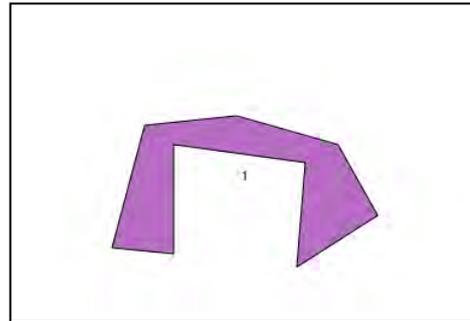


Technical Assistance for Development of Integrated System for Prevention and Early Warning of Forest Fires



- Can I put a label inside a feature?

Issue: Some label's position are outside of feature.



Step1: Install “EasyCustomLabeling” as “Plug-in” with reference to the “Reference_Plugin”

Step2: Check “EasyCustomLabeling” from “Plugin manager”



Step3: Select target layer

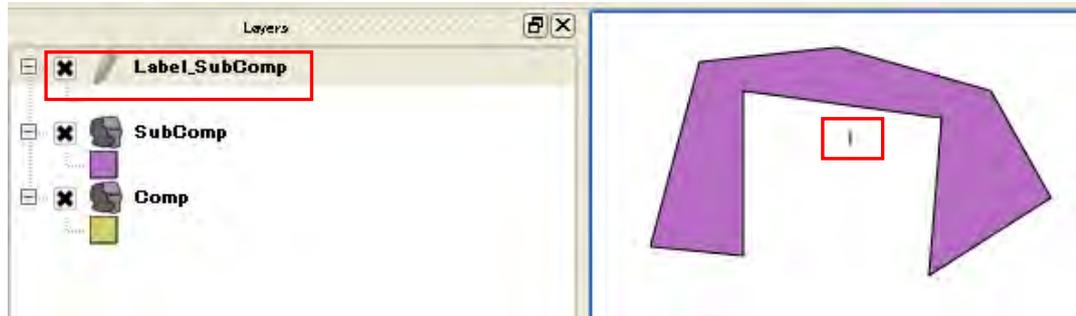


Step4: Click “Generates centroid layer for custom labeling tool ” and set proper CRS

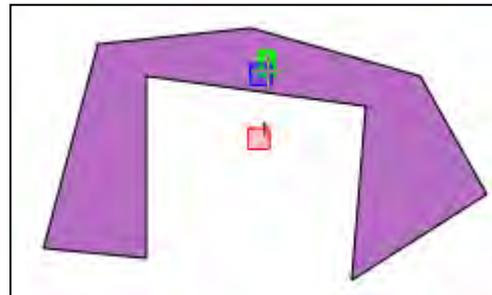




Step5: Confirm result



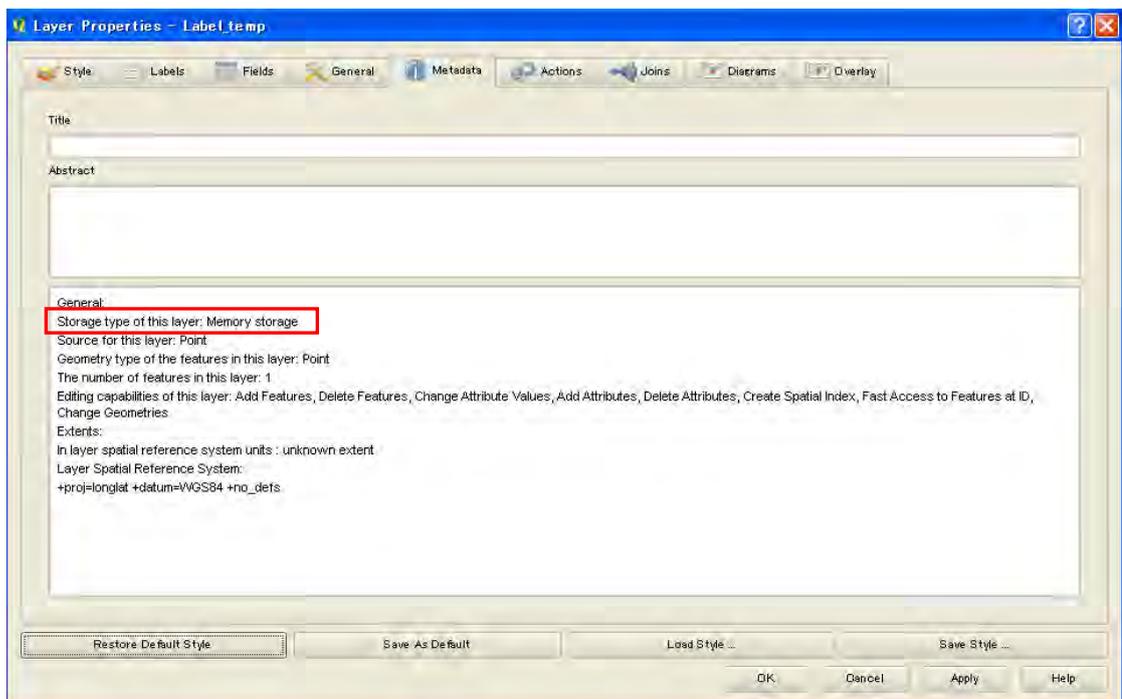
Step6: Select “move label” and move label on the map



Step7: Add plug-in (Memory Layer Server 2.1 or 3.0)

The label which was created above steps is temporary file. You can save even this temporary file on the project file with this plug-in.

You can confirm if this data is temporary or not from Metadata





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Step8: Click “Memory Layer Server”

After editing label place and size, click “Memory Layer Server” from Plug-in



You can confirm additional files in the folder which project file is located.



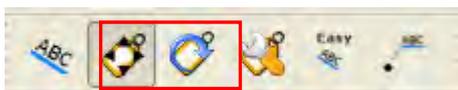
Point!!

- Different layer

EasyCustomLabeling create new layer as label. This layer is saved on the map temporary. If it is necessary to save eternally, save layer from “save as”

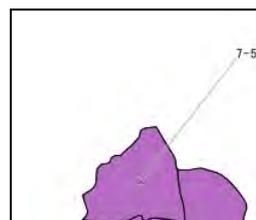
- Change label style

You can change the label style, position and etc from “Change label” and “Rotate label”



- Add arrow

You can add the arrows between label and centroid feature.

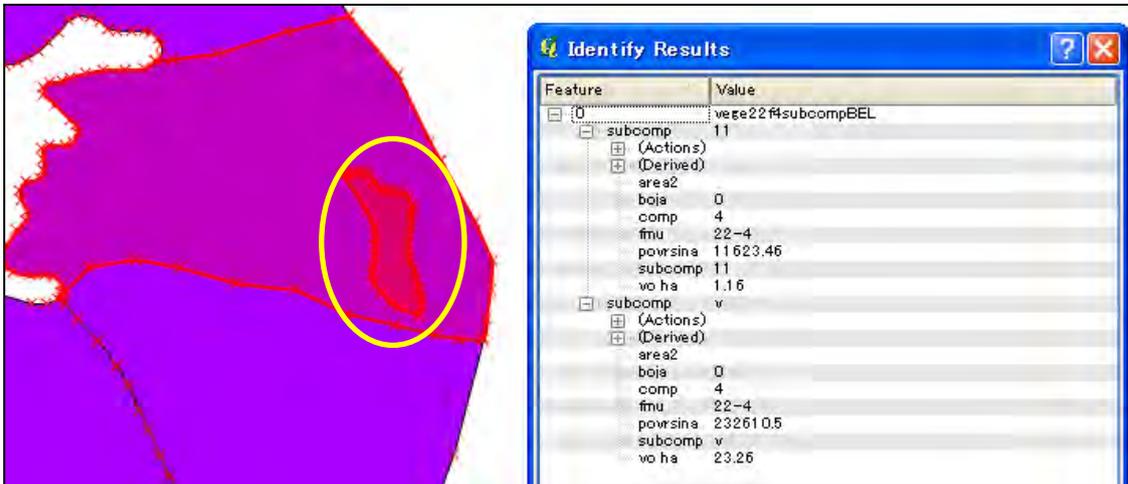




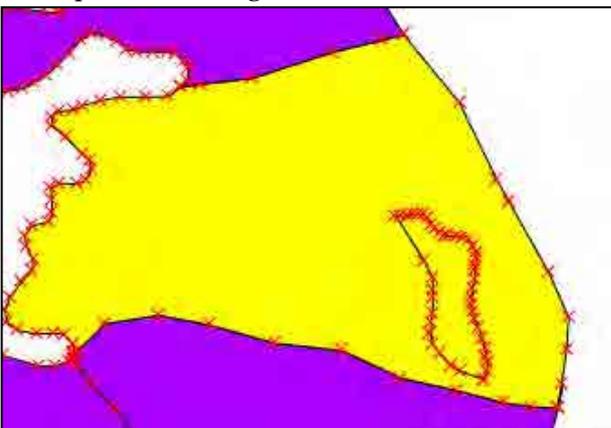
Editing

➤ Can I delete part of feature?

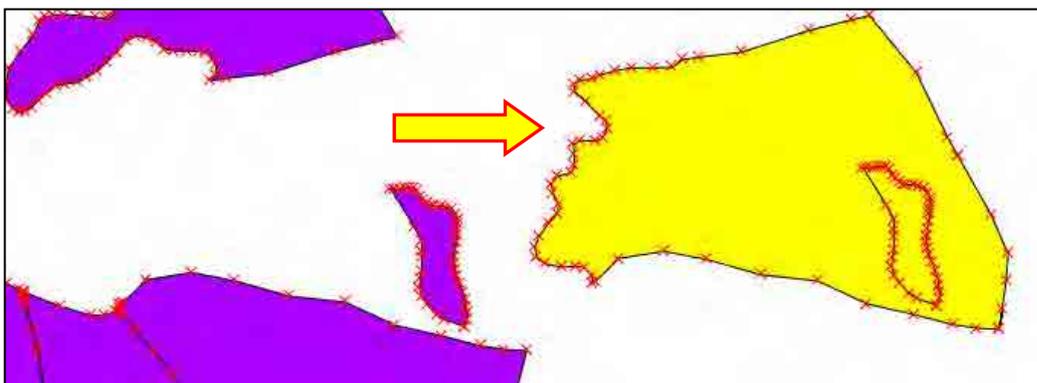
Issue: There are overlapped feature in the same layer. Although I try to delete overlapped feature as normal way, I could not delete part.



Step1: Select target feature



Step2: Move target feature

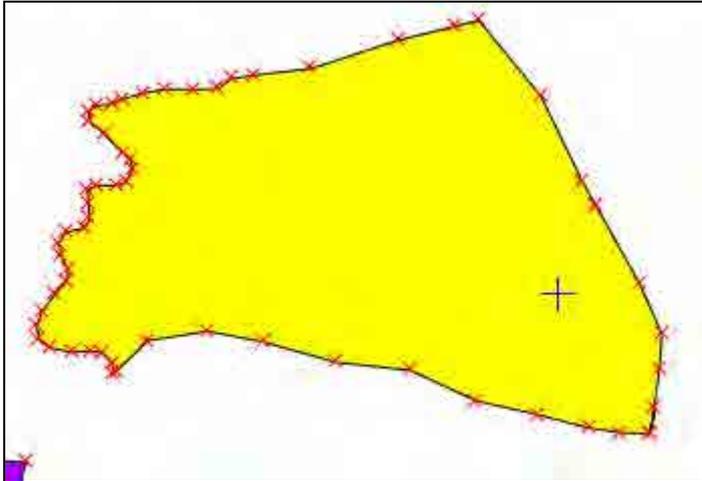
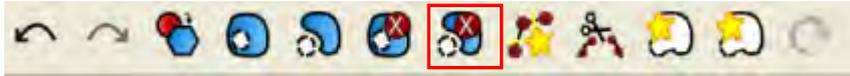




Technical Assistance for Development of Integrated System for Prevention and Early Warning of Forest Fires



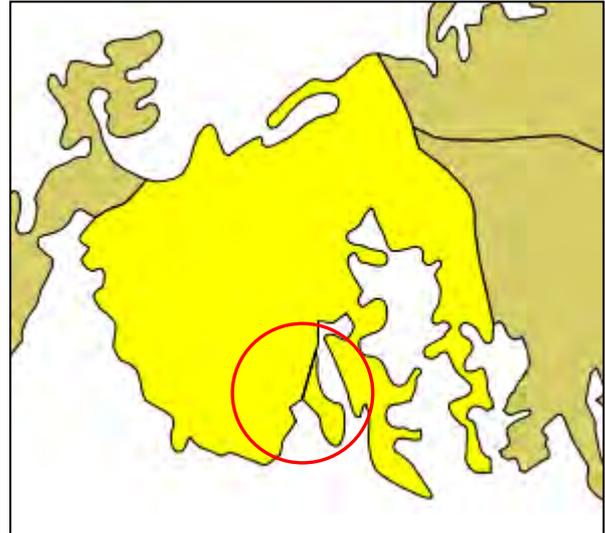
Step3: Select “Delete part” and click on the target feature





➤ Part of feature still exists...

Issue: Two features must be the one feature, though there is a border line. I tried to delete part with following the above-mentioned instruction. The part of feature still exists.



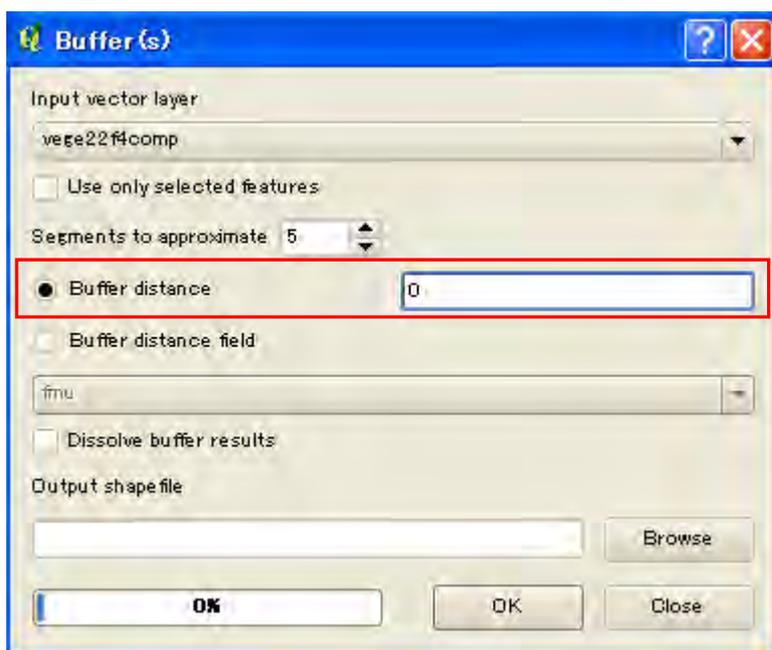
There are two ways to solve this issue.

① Buffer

Step1: Select "Buffer"

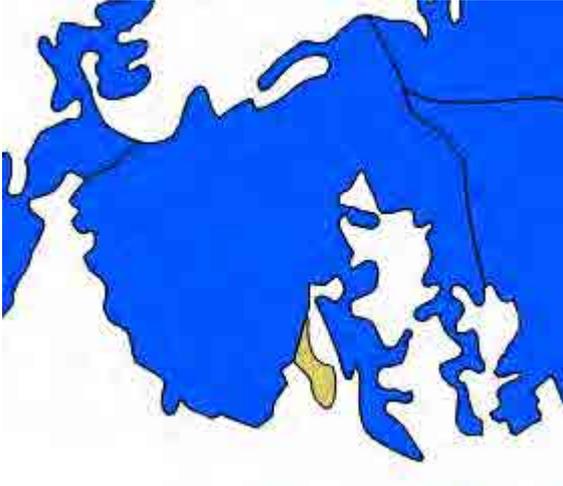


Step2: Create new polygon by buffer function with setting "0" as buffer distance.





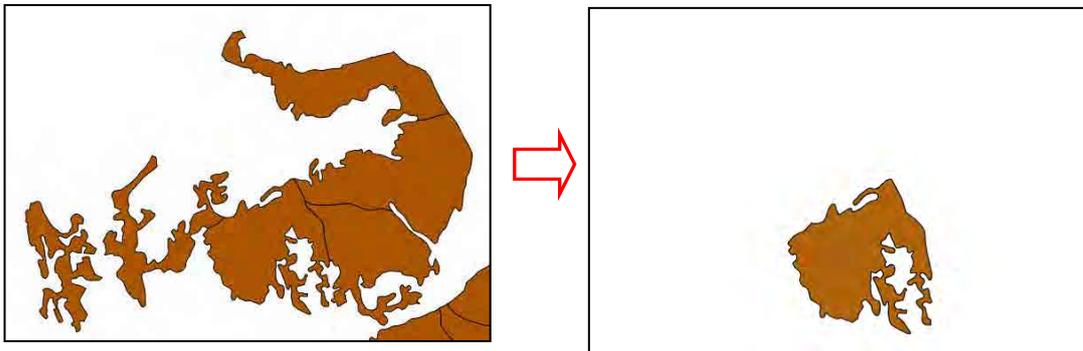
Step3: Confirm new polygon



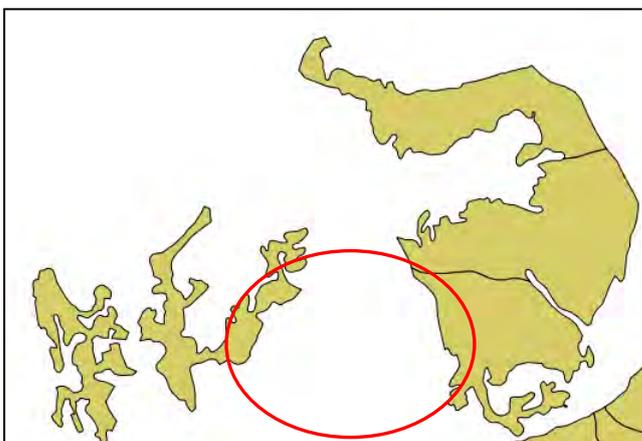
Blue: Buffered polygon
Brown: Existed polygon

② Merge shape files to one(if there is an original file before editing)

Step1: Add original polygon and delete features except target feature



Step2: Delete target feature of edited polygon

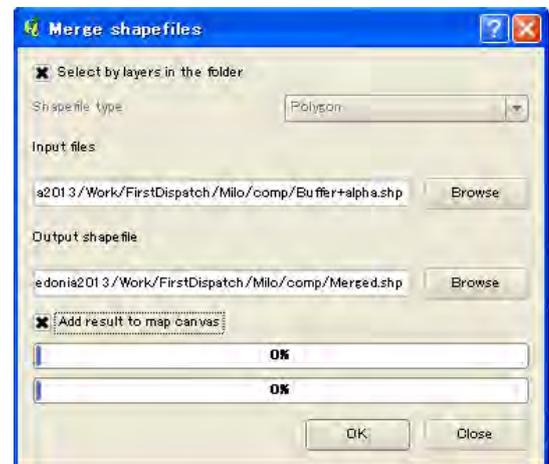




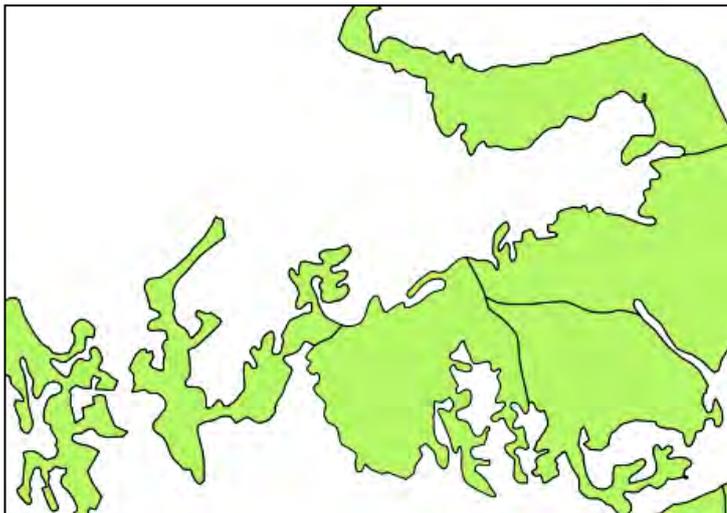
Technical Assistance for Development of Integrated System for Prevention and Early Warning of Forest Fires



Step3: Select “Merge shapefiles to one”



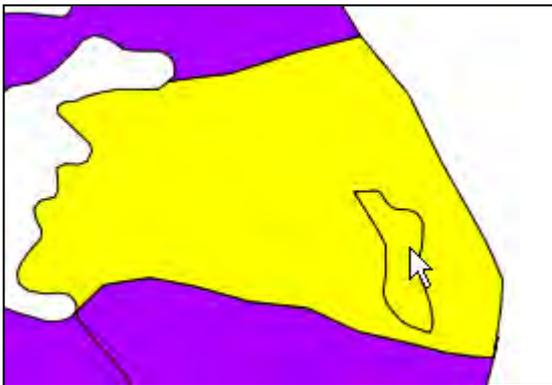
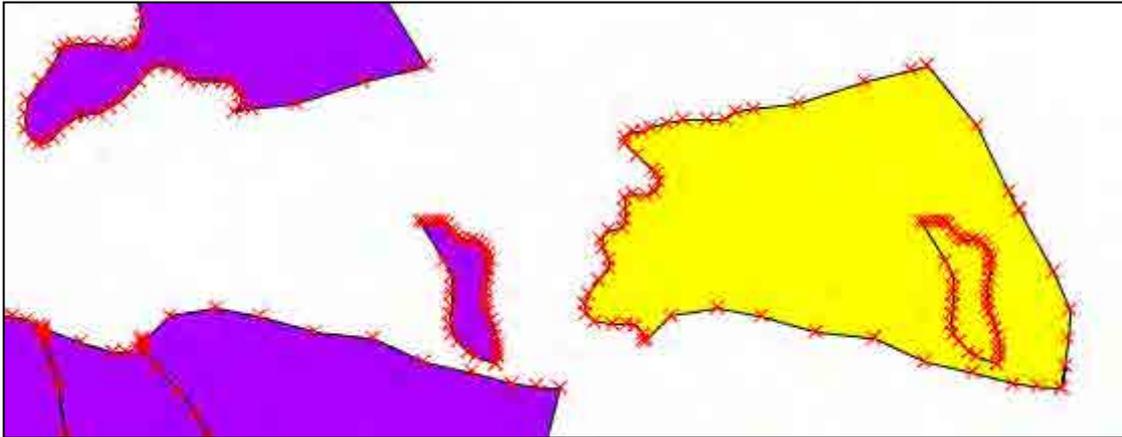
Step4: Confirm merged file and use this file.





➤ How do I select a behind feature?

Issue: I can not select behind overlapped feature.



I can select only upper feature.

Step1: Check value of each feature from “Identify Features”

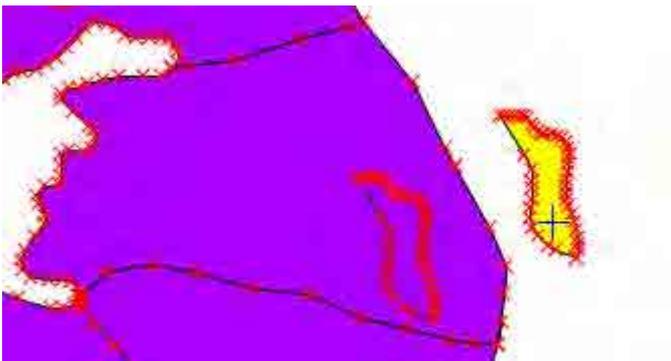
Feature	Value
0	case22 f4subcompBEL
subcomp	11
(Actions)	
(Derived)	
area2	
boja	0
comp	4
fmu	22-4
powrsina	11623.46
subcomp	11
vo ha	1.16
subcomp	v
(Actions)	
(Derived)	
area2	
boja	0
comp	4
fmu	22-4
powrsina	23261.05
subcomp	v
vo ha	23.26



Step2: Select target feature from attribute table

	subcomp	fmu	comp	boja	površina	vo ha
6	a	22-4		2 0	724556.63	72.46
7	a	22-4		2 0	780091.74	78.01
8	a	22-4		2 0	724556.63	72.46
9	a	22-4		2 0	780091.74	78.01
10	1	22-4		3 0	26023.44	2.6
11	2	22-4		3 0	11498.04	1.15
12	a	22-4		3 0	612411.83	61.24
13	5	22-4		4 0	10199.9	1.02
14	1	22-4		4 0	9912.54	0.99
15	3	22-4		4 0	15545.06	1.55
16	b	22-4		4 0	73511.71	7.35
17	a	22-4		4 0	616797.69	61.68
18	11	22-4		4 0	11623.46	1.16
19	v	22-4		4 0	232610.5	23.26
20	1	22-4		5 0	667374.14	9.1

Step3: Move target feature by “Move Feature”



Point!!

As far as MORIKAWA know, you can not use snapping function by feature. Snapping function works only node.



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- Can I change the order of column in attribute table?

Issue: I want to change the order of column. “fmu” must be put at the far right in this example.

	fmu	comp	boja
0	22-4	2	0
1	22-4	37	0
2	22-4	42	0
3	22-4	51	0
4	22-4	65	0
5	22-4	31	0
6	22-4	4	0
7	22-4	3	0
8	22-4	32	0
9	22-4	39	0
10	22-4	33	0
11	22-4	34	0
12	22-4	35	0
13	22-4	36	0
14	22-4	38	0

Step1: Create new column (fmu)

	fmu	comp	boja	fmu2
0	22-4	2	0	NULL
1	22-4	37	0	NULL
2	22-4	42	0	NULL
3	22-4	51	0	NULL
4	22-4	65	0	NULL
5	22-4	31	0	NULL
6	22-4	4	0	NULL
7	22-4	3	0	NULL
8	22-4	32	0	NULL
9	22-4	39	0	NULL
10	22-4	33	0	NULL
11	22-4	34	0	NULL
12	22-4	35	0	NULL
13	22-4	36	0	NULL
14	22-4	38	0	NULL

Step2: Update existing field “fmu2” and select “fmu” from “Field Calculator”

Field calculator

Only update selected features

Create a new field Update existing field

Output field name:

Output field type: Whole number (integer)

Output field width: 10 Precision: 0

Function List:

- Operators
- Math
- Conversions
- String
- Geometry
- Record
- Fields and Values
 - fmu
 - comp
 - boja
 - fmu2

Selected Function Help:

Field

Double click to add field name to expression string.

Right-Click on field name to open context menu sample value loading options.

Operators: = + - / * ^ || ()

Expression: "fmu"

Output preview:

OK Cancel Help



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Step3: Delete old column, “fmu” in this example.

	fmu	comp	boja	fmu2
0	22-4	2	0	22-4
1	22-4	37	0	22-4
2	22-4	42	0	22-4
3	22-4	51	0	22-4
4	22-4	65	0	22-4
5	22-4	31	0	22-4
6	22-4	4	0	22-4
7	22-4	3	0	22-4
8	22-4	32	0	22-4
9	22-4	39	0	22-4
10	22-4	33	0	22-4
11	22-4	34	0	22-4
12	22-4	35	0	22-4
13	22-4	36	0	22-4
14	22-4	38	0	22-4

Step4: Confirm result

	comp	boja	fmu2
0	2	0	22-4
1	37	0	22-4
2	42	0	22-4
3	51	0	22-4
4	65	0	22-4
5	31	0	22-4
6	4	0	22-4
7	3	0	22-4
8	32	0	22-4
9	39	0	22-4
10	33	0	22-4
11	34	0	22-4
12	35	0	22-4
13	36	0	22-4
14	38	0	22-4

Point!!

How to change the column name.

- ① Open *.dbf file on EXCEL.
- ② Change the name
- ③ Save file
- ④ Add shape file and confirm differences.
※Copy target file before editing ,just in case.

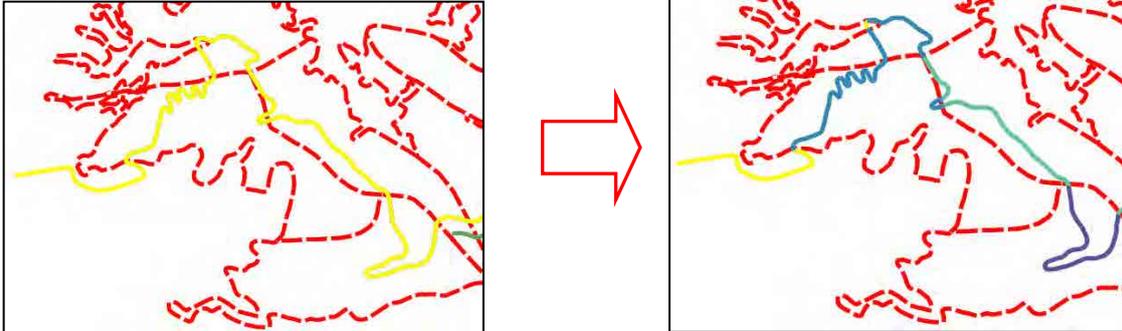


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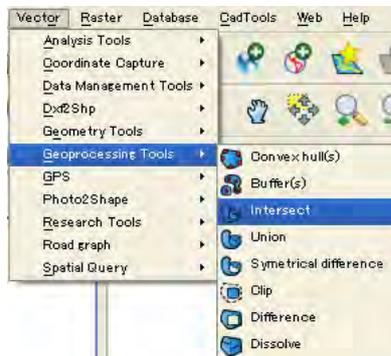


- How do I divide a road polyline by the each feature of compartment

Issue: Road polyline must be divided in each compartment.



Step1: Select “Intersect”



Step1: Set each setting refer to right figure.

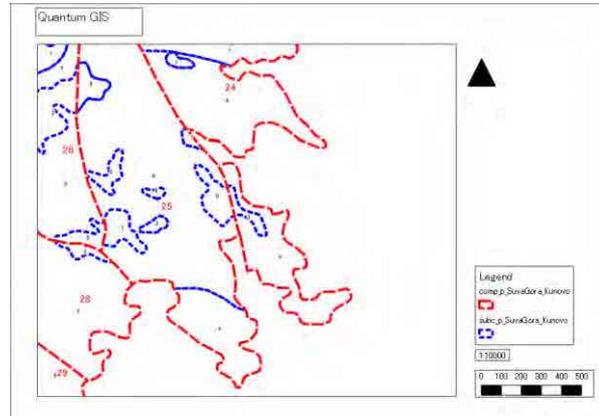


Step3: Confirm result (Add new vector)

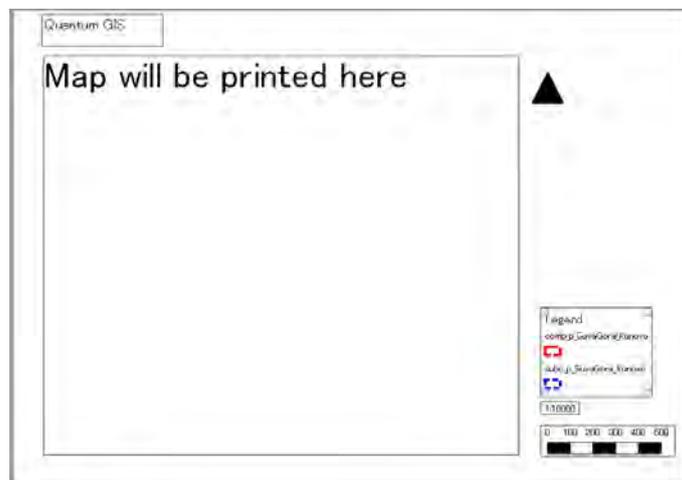
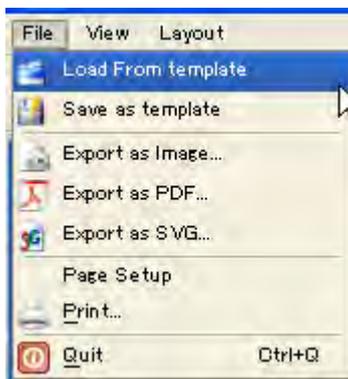


- Can I use the same setting of “Print Composer”?

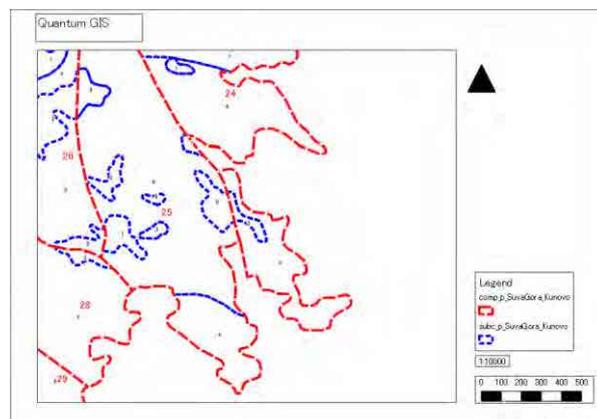
Issue: I have to recreate map every time, though I wish I could use saved map not only template but also data itself.



Confirmation : You can use template for another map.



Step: Click “Composer Manager” and select existing composer and click “show”.





Analysing

- How do I calculate area of polygon?

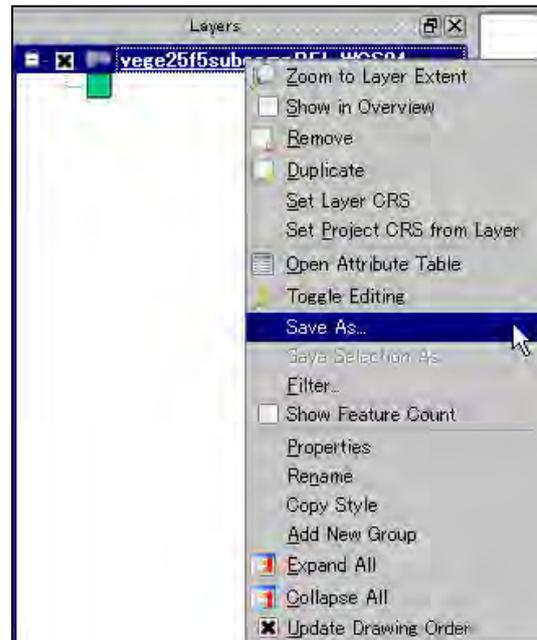
Issue : I calculated area with the attribute function. But, the area is very small.

Reason : CRS of polygon is WGS84_Lat/Long(EPSC:4326). You have to convert shape file to the UTM34 (EPSC:32634), for example.

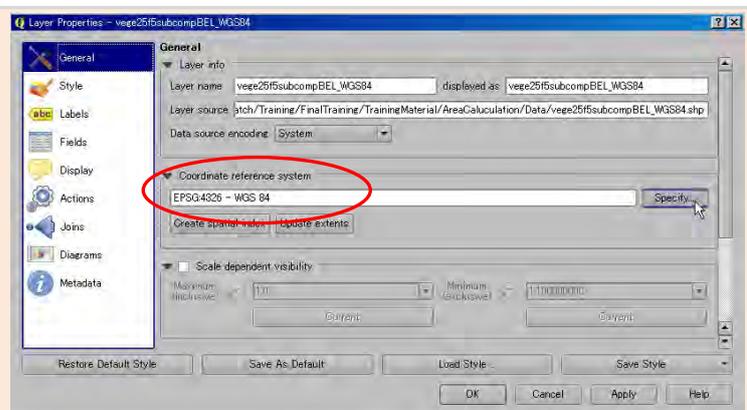
※ Any CRS is useful if it is a “Projected Cordcate System” not “Geographic Coordinate System”.

Step1: Right click on the target shape file in the layers.

Step2: Click “Save as”



CRS changing from the property is just working on the current project file. You have to create new shape file, if you need it with new CRS.



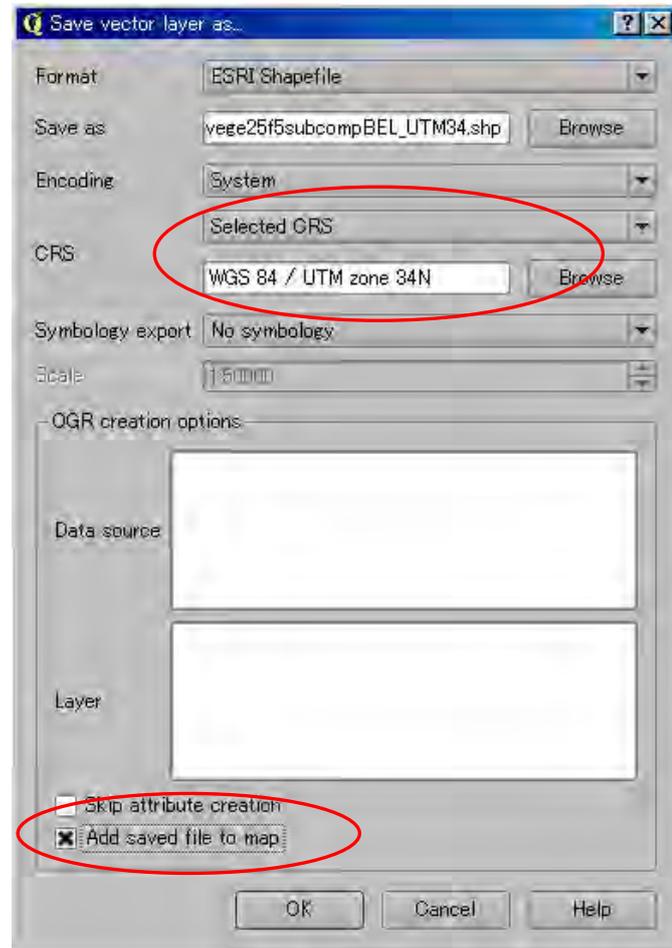


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Step3:Select proper CRS from the “Browse”.

※Check “Add saved file to map”



Step5:Open attribute table and star editing.

Step6:Click “Open field Calculator”





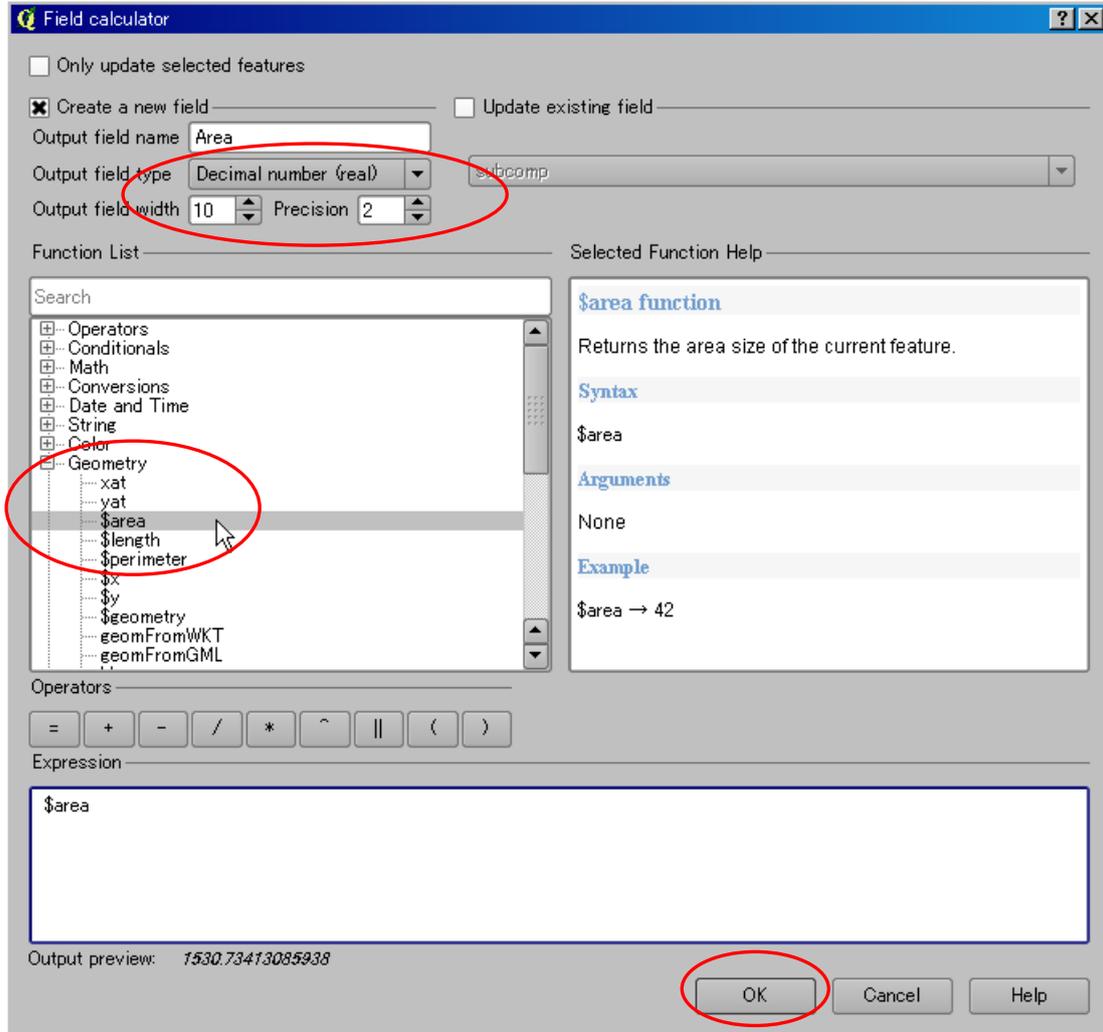
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Step6: Check "Create a new field" and type proper name of field

Select "Decimal number(real)" and put "2" at precision.

Click "\$area" from Geometry.



Confirm result!!

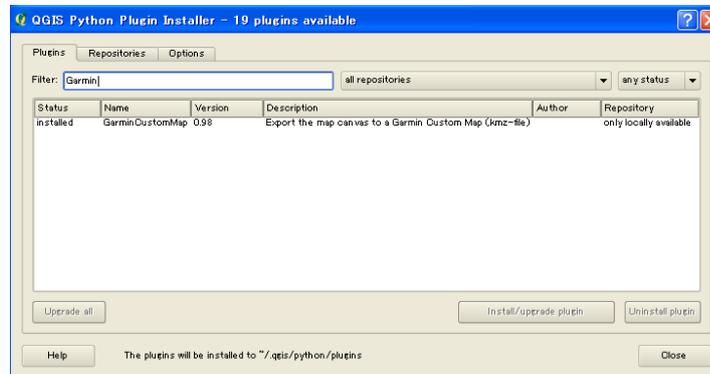
	subcomp	fmu	comp	boja	Area
0	2	25-5	28 0		1530.73
1	6	25-5	21 0		5439.41
2	1	25-5	34 0		2696.48
3	b	25-5	34 0		512101.82
4	a	25-5	36 0		478520.06
5	b	25-5	6 0		467257.67
6	4	25-5	47 0		7568.17
7	a	25-5	42 0		727919.20
8	a	25-5	58 0		898249.29
9	6	25-5	19 0		12826.27
10	2	25-5	19 0		6209.85
11	10	25-5	61 0		2660.76
12	6	25-5	47 0		3090.04
13	6	25-5	60 0		2079.15



GPS

- Can I see the map on the GPS

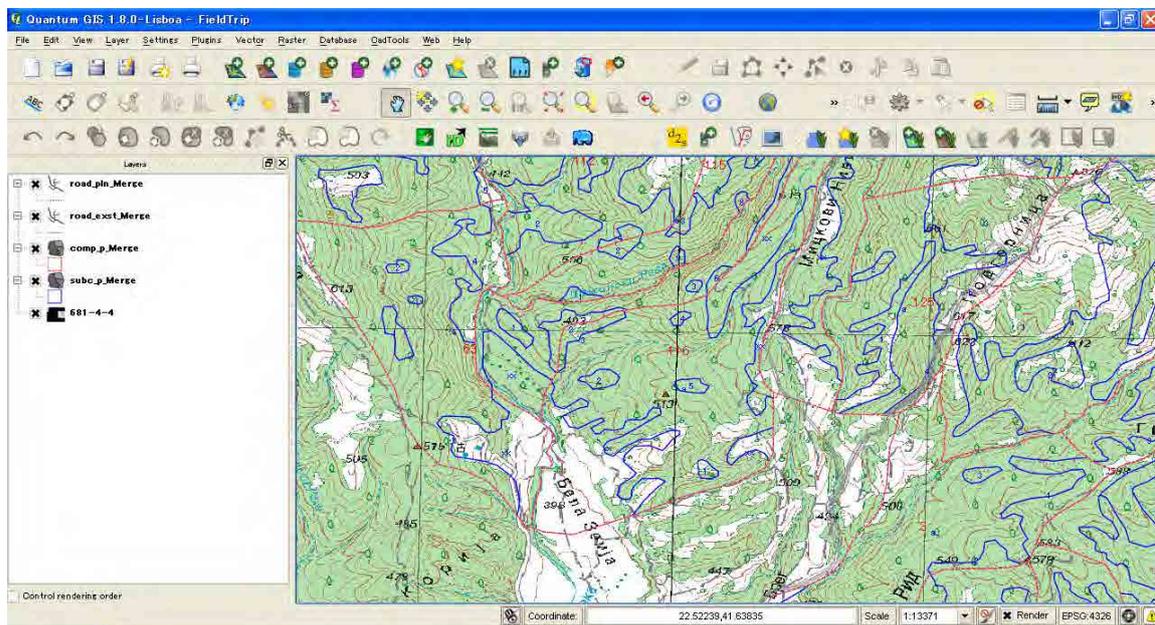
Step1a: Select “GarminCustomMap” from the “QGIS Python Plug-in installer”



Step1b: Download plug-in package from below URL refer to reference “what is plug-in?”

<http://plugins.qgis.org/plugins/plugins.xml>

Step2: Create the map on QGIS



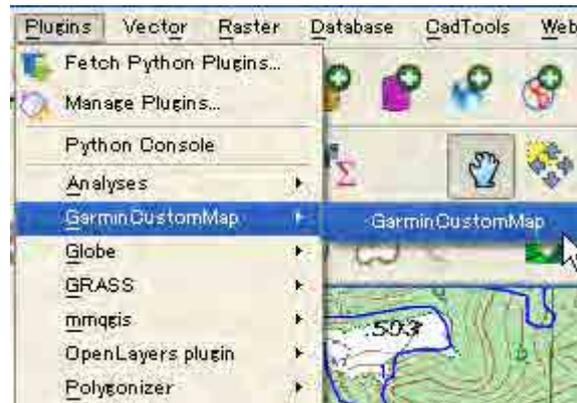
Coordinate Reference System have to be set WGS84 for using GPS with WGS84. When CRS of data is bessel841, it have to be converted to WGS84 refer to “03.ShpCreation_2013_3.4 Shape file to KML (Google Earth)”



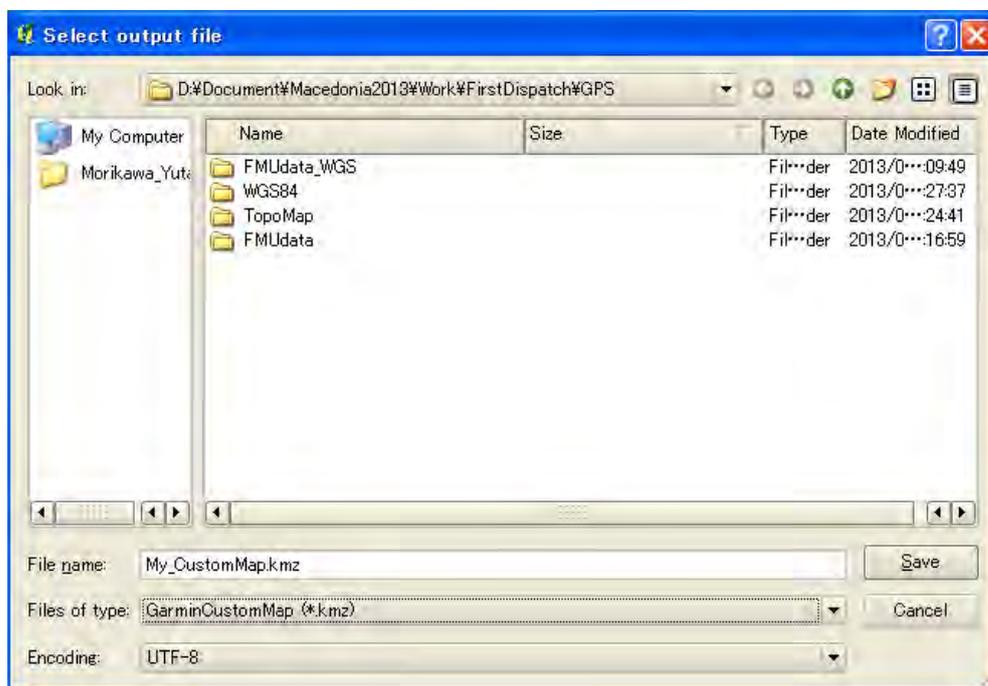
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Step3: Start “GarminCustomMap”



Step4: Save the file as KMZ



Step5: Put the file on the folder “Garmin/CustomMaps”





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Step6: Confirm result on GPS



Step7: Better to check the present location (Skopje)



Each file is limited to **1 megapixel** (e.g. 1024 x 1024 pixel or 2048 x 512 pixel).

The time for drawing the map on your GPS unit is affected by the file size.

The number of Custom Map files on a GPS unit is limited to max100.



Reference_Plugin

➤ What is Plug-in?

QGIS has been designed with a plugin architecture. This allows many new features/functions to be easily added to the application. Many of the features in QGIS are actually implemented as either core or external plugins.

- Core Plugins

These are maintained by the QGIS Development Team and are automatically part of every QGIS distribution. They are written in one of two languages: C++ or Python. More information about core plugins are provided in Section Using QGIS Core Plugins

- External Plugins

These are currently all written in Python. They are stored in external repositories and maintained by the individual authors. They can be added to QGIS using the Python Plugin Installer. More information about external plugins is provided in Section Loading an external QGIS Plugin.



➤ How to use Plug-in?

① Core plug-in

Step 1: Open Plug-in Manager

Click “Plugins” and “Manage Plug-ins”



Step2: check plug-in

To enable a particular plug-in, click on the checkbox to the left of the plug-in name, and click OK. When you exit the application, a list of loaded plug-in is retained, and the next time you run QGIS these plug-in are automatically loaded.

② External Plug-in

There are two ways to install new plug-in.

QGis1.8.0

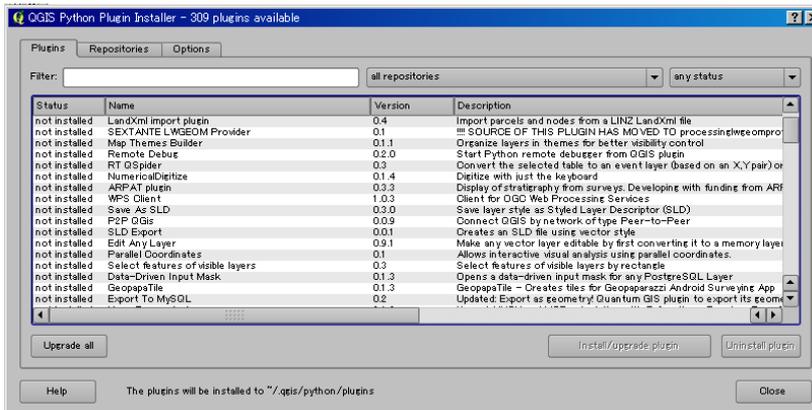
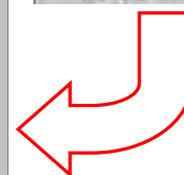
1. Using “Fetch python plug-in”

Click “Plug-in” >Click “Fetch python plug-in”

>Choose plug-in from the list

To install a plug-in, select it from the list and click the Install plug-in button.

You can install new plugin from the list.





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QGIS2.0.0

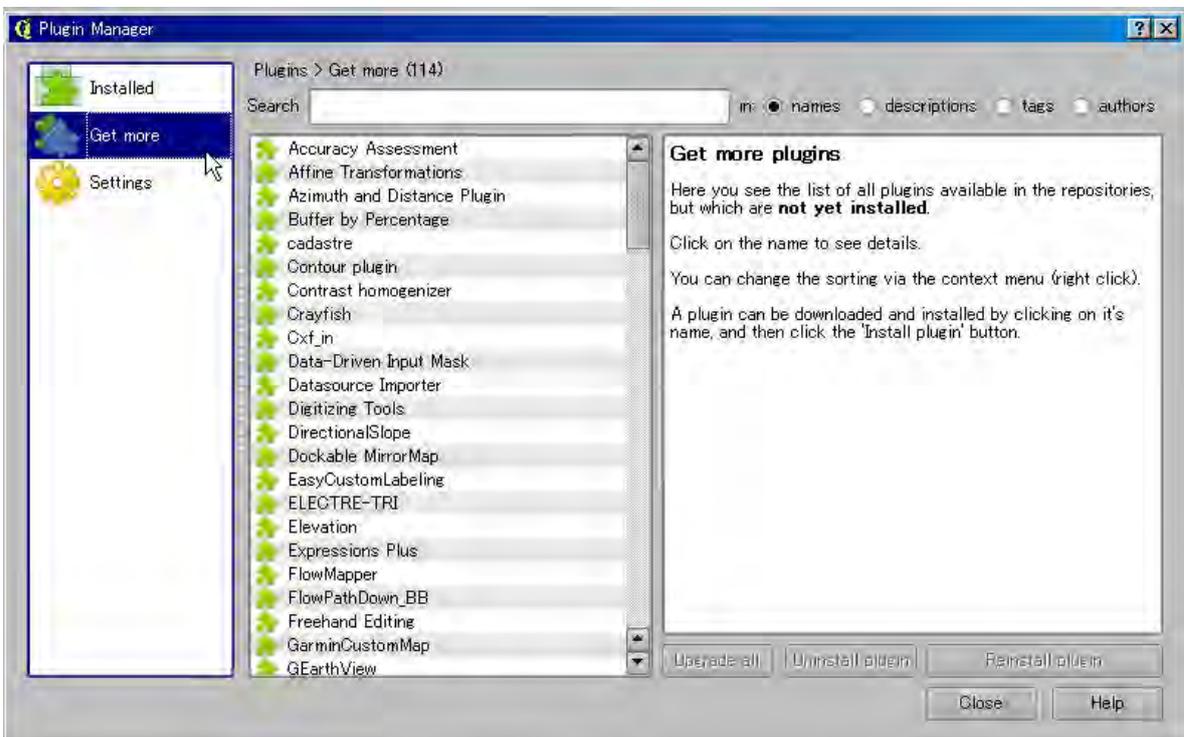
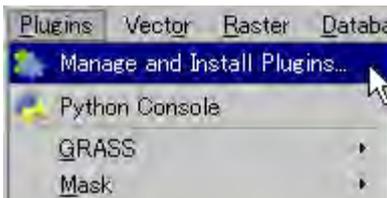
1. Click “Plug-in”

>Click “Manage and Install Plugins”

>Choose plug-in from the list

To install a plug-in, select it from the list and click the “Installed” tab.

From the “Get more” tab, you can get new plugin.



2. Get file from any site and put downloaded folder in the below folder.

QGIS1.8: C:\Program Files\Quantum GIS Lisboa\apps\qgis\python\plugins

QGIS2.0: C:\Program Files\Quantum GIS Dufour\apps\qgis\python\plugins

site: <http://plugins.qgis.org/plugins/>

<http://pyqgis.org/repo/contributed>

[etc](#)

Appendix 4 Progress Report

MINUTES

JICA SD2 Project for Improvement of Integrated System for Prevention and Early Warning of Forest Fires Steering Committee Meeting held on September 3th, 2013 at 2 p.m. in CMC HQ meeting room

Note taker: Ljupco Tagasovski

Attendees:

Eisho Sato, Honda Yasuyo, Hiroyuki Kozu – **JICA**
Stevko Stefanoski, Igorce Karafilovski – **CMC**
Ljupcho Tagasovski – **EDUSOFT**
Predrag Radojicic, Anastas Ristevski - **SIMT**
Igor Mazganski, Vasko Bozov - **TRINITY**

	Agenda topics	Topic Mediator
1	Introductory, Initial meeting	- JICA
2	Other Project program activities	- Open

Agenda topic:**Review of weekly activities****- JICA****Discussion:**

This Introductory and first initial, kick-off meeting was chaired and opened by Mr. Sato.

Ms. Honda described and reconfirmed how the newly introduced project will officially conduct Operational matters:

- Communication between involved parties:
 - main/general lesion will be between Mr. Tagasovski and Mr. Sato, and sometimes for some admin coordination between Mr. Tagasovski and Mr. Koneski;
 - operational/topic specific communication will be directly between involved relevant parties with mandatory Cc: Sato, Honda, Kozu, Koneski, Stefanoski, Karafilovski, and Tagasovski;
 - All e-mails should be answered as soon as possible, with at least by promptly acknowledge its reception.
 - Prompt informing/emailing each time when new versions or new stuff will be uploaded.
- Regular Committee meetings will be held every working Friday at 10am in JICA/CMC office
- Reporting:
 - Weekly Progress Reports to be in the same format as the one in SD1, and delivered to JICA 2 days before the Committee meetings. For example, for a regular Friday's meeting, the Weekly Progress Report must be submitted to JICA by 4p.m on Wednesday;
 - Minutes from the Committee meetings will be in the same format as ones in SD1, and tentatively delivered one working day after the meeting.
- Deadlines:
 - End of December is the firm deadline which MUST be met. It means all the precursor activities and working versions must be installed, tested and commissioned way before, so that in December the final-final Operational Acceptance is completely signed off.
 - Training will HAVE to be conducted as planned in January 2014. The signed Contract specifically determine the obligations regarding user trainings, but generally Contractor will provide trainers and training materials while the Purchaser/User will provide training venue and logistics.

Mr. Kozu then described the Technical matters:

- There will be two virtual environments established especially dedicated for software development and testing. Only finally tested software and approved by Purchaser/User can be moved and introduced in live working environment. Mr. Karafilovski from CMC will coordinate this and by Friday, September 6th, will report availability of the testing environments;
- Some of the modules listed in the Functional Requirements shall be developed by Mr. Kozu. He will be responsible for the complete development circle including testing and operational acceptance and documenting (test reports, tech documentation and manuals). Once Mr. Kozu will commence these modules he will instruct and handover the maintains and warranty to SIMT and Trinity accordingly which will be notified also in the SDD.

MINUTES

JICA SD2 Project for Improvement of Integrated System for Prevention and Early Warning of Forest Fires Steering Committee Meeting

held on September 3th, 2013 at 2 p.m. in CMC HQ meeting room

This conclusion also will apply to those modules Mr. Koza and Mr. Sawada have developed for SD1;

- Elaborated and more detailed by Mr. Koza were all the items/modules listed in the topic “4. Application Improvement Requirements” of the signed Contract. For each item there was discussion and clarifications. At the end agreed was that there is a immanent need of having joint meeting with PEMF as soon as possible. Suggested was to arrange tentative meeting with PEMF on Friday, September 6th, in 10am in JICA/CMC premises. On that meeting SIMT and Trinity will come with already formulated precise questions for PEMF.

Agenda topic:	Other Project program activities	- all
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At the end of the meeting Mr. Sato and Ms. Honda asked about the status of finalization of SD1 deliverables. SIMT reported that they have just installed new version with fixed bugs, and the relevant documentation and CDs will be accordingly updated and moved in FTP site for Purchaser review by the end of Wednesday, September 4th. However, some portions which are joint stuff with have to wait for Trinity’ update. Trinity said that due to fixing some issues noted just last week, they will try to complete their part of deliverables before Friday, September 6th. JICA will then review and approve and give instruction for putting on CD and what to be printed on paper. Hopefully, these deliverables’ packages will be presented/given to Mr. Makita during his visit to Skopje next week.

Next Steering Committee meeting was scheduled for Friday, September 6th, 2013 at 10 a.m. at CMC

Tasks to be accomplish and reported on the next meeting	Person/firm responsible	Deadline
Prepare and make functional the two Testing environments at CMC	CMC/ Mr. Karafilovski	Friday, September 6 th , 2013
Prepare concrete clarification questions for meeting with PEMF	SIMT and Trinity	Friday, September 6 th , 2013
Put on FTP site all the SD1 deliverables for JICA review	SIMT and Trinity	Friday, September 6 th , 2013

Note taker: Ljupco Tagasovski

Attendees:

Eisho Sato, Honda Yasuyo, Hiroyuki Kozu – **JICA**
Stevko Stefanoski, Igorce Karafilovski – **CMC**
Ljupcho Tagasovski – **EDUSOFT**
Predrag Radojicic, Anastas Ristevski - **SIMT**
Igor Mazganski – **TRINITY**
Miroslav Grujevski, Jovan Chakovski - **PEMF**

Agenda topics

Topic Mediator

- | | | |
|---|---|-------------|
| 1 | Report on status of tasks from previous meeting | - assignees |
| 2 | PEMF related functional requirements | - Open |

MINUTES

JICA SD2 Project for Improvement of Integrated System for Prevention and Early Warning of Forest Fires Steering Committee Meeting

held on September 6th, 2013 at 10 a.m. in CMC HQ meeting room

Agenda topic: Report on status of assigned tasks - JICA

In the opening Ms. Honda reconfirm the AWS related meeting at HydroMet at 12:30 same day and welcomed PEMF participants Mr. Grujevski and Mr. Chakovski. Wrapping up, Ms. Honda emphasized that in contrast to previous SD1 project, now for the current SD2 there is much less time for completion. He reminded that in accordance to the signed contract, the deadlines are definitive and firmed, and therefore the whole improvements have to be completed in little bit more then next two months. Once the SDD is created and approved, there will not be additions to it. She also noted that due to short deadlines the work on SD2 shall got the maximum attention, and therefore the work on SD1 deliverables can be only for fixing bugs and irregularities, i.e. no time for SD1 additional modifications.

Trinity reported that they have FTP-ed all their SD1 deliverables, and now underway is integration with SIMT ones. SIMT said that they will finish the integration and wrap-up on the FTP site all the SD1 deliverables by the end of the day.

Mr. Karafiloski from CMC reported that the Testing environment has been established at CMC HQ, and invited SIMT and Trinity to log and check them.

Agenda topic: PEMF related functional requirements all

Mr. Koza then briefly went through the list of Functional requirement items related to PEMF, reconfirming that all their comments are reflected in that list. Mr. Radojicic and Mr. Ristevski from SIMT pointed out some items from that list for which additional clarification and additional explanations are needed, among which: Definitive list of three types, unsuitability of Form-8 regarding 5-year vs 10-year terms, defining which reports/recapitulars out of existing 38 ones at FMU level will also have to be created at National and Regional levels too, P2 Fire Reports issues, etc.

It was agreed that PEMF participants at the meeting cannot answer right away nor make decision but shall rather firstly make internal consultations upon which provided will be corresponding answers and clarifications. Because of tidily deadlines, SIMT will participate at PEMF's internal meeting next week in order to push and have PEMF's definitive answers and clarification by the end of next week.

Agenda topic: Other Project program activities - all

JICA, CMC and SIMT representatives continue the meeting at HydroMet premises to discuss the AWS related issues.

Next Steering Committee meeting was scheduled for Friday, September 13th, 2013 at 10 a.m. at CMC

Tasks to be accomplish and reported on the next meeting	Person/firm responsible	Deadline
Push for and participate in internal PEMF meeting in order to get their final and detailed functional requirement	SIMT	Friday, September 13 th , 2013
Review, approve and instruct what SD1 deliverables (put previously on FTP site by SIMT and TRINITY) to be put on CD and what needs to be printed on paper	JICA	Friday, September 13 th , 2013

Note taker: Ljupco Tagasovski

Attendees:

Eisho Sato, Honda Yasuyo, Hiroyuki Kozu – **JICA**
 Stevko Stefanoski, Igorce Karafilovski – **CMC**
 Ljupcho Tagasovski – **EDUSOFT**
 Predrag Radojicic, Anastas Ristevski - **SIMT**
 Igor Mazganski – **TRINITY**

Agenda topics

Topic Mediator

1 Concluding the CDD ver.1

- Open

Agenda topic:

Report on status of assigned tasks

- JICA

It was a brief meeting dedicated to finalizing the CDD ver.1. Some changes in the CDD document were made on the spot, during the meeting. The adopted version was distributed/e-mailed immediately after the meeting to all involved parties.

At the end of the meeting Mr. Sato announced officially that CDD ver. 1 is formally approved by purchaser and User, and therefore the contracted developers can practically move forward and start with adequate changes due to improve the system.

Agenda topic:

Other Project program activities

-

Next Steering Committee meeting scheduled for Friday, October 4th, 2013 at 10 a.m. in CMC

- SD 2 -

WEEKLY PROGRESS REPORT No.1
Period until October 2nd, 2013

Author: EDUSOFT, SIMT, TRINITY

Creation Date: October 2nd, 2013

Seq.No	Task Description	Assignee	Current % of progress	Start Date	End Date	Target date
4.2	Improve MKFFIS User Interface					
	Reform MKFFIS Left pane		20%			
	a) Remove Accordion menu, Navigation and Layers button from the left pane.	TRINITY	40%	02.10.2013	10.10.2013	10.10.2013
	b) Add Tab control with five tabs.	TRINITY	40%	02.10.2013	10.10.2013	10.10.2013
	c) Deploy Layers panel in the first tab named 'Layers'. This tab should be a default. (See Fig. 7)	TRINITY		02.10.2013	10.10.2013	10.10.2013
	d) Deploy Map Selector in the second tab named 'Maps'. Show hierarchy of each map using a tree view control, except vegetation map. Show only the root node for vegetation map in the tree view. (See Fig.6) Because vegetation map has a lot of FMUs as its children, FMU selector should be accommodated in a separate tab (e). (See Fig. 8)	TRINITY	40%	02.10.2013	10.10.2013	10.10.2013
4.2.1	e) Deploy FMU selector in the third tab named 'FMU'. (See Fig. 8)	TRINITY	40%	02.10.2013	10.10.2013	10.10.2013
	f) Deploy an accordion menu with two menu items in the fourth tab named 'Search'. Deploy Search Forest History panel in the first accordion menu item. (See Fig. 10)	TRINITY	40%	02.10.2013	10.10.2013	10.10.2013
	g) Deploy AWS Overview panel in the fifth tab named 'AWS'. (See Fig. 9)	TRINITY	40%	02.10.2013	10.10.2013	10.10.2013
	h) Tab names should be displayed in the language specified by the current language mode.	TRINITY	40%	02.10.2013	10.10.2013	10.10.2013
	i) Layer settings in the Layers panel (Order of the layers, selected maps) and selected maps in the Map Selector and FMU selector shall be kept in a table with a relation to the user account, and when the user logs in again, the settings shall be restored.	TRINITY	0%	TBD	20.11.2013	20.11.2013
	Add a link to user manual		%			
4.2.2	a) Add a link to end user manual of MKFFIS GIS to the tool bar.	TRINITY	0%	TBD	20.11.2013	20.11.2013

	b) Add a link to end user manual of MKFFIS Fire Report to the top link.	TRINITY	0%	TBD	20.11.2013	20.11.2013
	c) In English mode link to the user manual of English version, and In Macedonian mode link to the user manual of Macedonian version.	TRINITY	0%	TBD	20.11.2013	20.11.2013
4.2.3	Change background image seasonally		%			
	a) Change background image on the login page seasonally. Image for each season will be provided by USER.	TRINITY	0%	TBD	20.11.2013	20.11.2013
4.2.4	Add a common calendar control					
	a) Currently, vegetation dryness map (VDM) and FWI map have their own calendar control independently. And each hotspot (Seviri, Modis and Modis raw) has selections of 1 day ago, 2 days ago and 3 days ago.	TRINITY	20%	04.10.2013	15.10.2013	15.02.2013
	b) Remove the calendar control for VDM and FWI map.	TRINITY	20%	04.10.2013	15.10.2013	15.10.2013
	c) Remove the hot spot selections: 1 day ago, 2 days ago and 3 days ago.	TRINITY	20%	04.10.2013	15.10.2013	15.10.2013
	d) Rename hot spot selections: 'Seviri (Today)' as 'Seviri', 'Modis (Today)' as 'Modis' and 'Modis raw data (Today)' as 'Modis raw data'.	TRINITY	20%	04.10.2013	15.10.2013	15.10.2013
	e) Add a calendar control with label 'Date' on the space where currently 'Navigation' is there. (See Fig. 7)	TRINITY	0%	TBD	20.11.2013	20.11.2013
	f) Add a check box with label 'Now' next to the above calendar control. 'Now' shall be checked by default. *Labels should be in the language specified by current language mode.	TRINITY	0%	TBD	20.11.2013	20.11.2013

	<p>g) Modify code as follows:</p> <ul style="list-style-type: none"> • When a past day is specified by the calendar control, clear 'Now' check box, show VDM, FWI map, hotspots and real-time disaster report (see 4.3.5.4) of the day specified. • When 'Now' check box is checked, show vegetation map, FWI map, hotspots and real-time disaster report of the current day, and keep updating these four real-time maps. 	TRINITY	20%	04.10.2013	15.10.2013	15.10.2013
4.2.5	Display FWI Map of the previous day until today's FWI Map becomes available					
	a) Currently, FWI Map is not shown until a day is specified by its calendar control.	TRINITY	0%	TBD	20.11.2013	20.11.2013
	<p>b) Modify code as follows: When 'Now' is checked (it is checked by default) FWI Map of now should be displayed. But FWI Map is created almost every day at 2pm. Therefore, it shall be displayed by the following rule.</p> <ul style="list-style-type: none"> • If FWI Map of the current day exists now, display it. • Otherwise display FWI Map of one day before, if such exists. • Otherwise don't display FWI Map. 	TRINITY	0%	TBD	20.11.2013	20.11.2013
4.2.6	Relocate vegetation map's attribute selector from Layers panel to the top of FMU selector					
	a) Currently, attribute selectors of vegetation map are located in the Layers panel for each FMU (See Appendix A.4)	TRINITY	0%	TBD	20.11.2013	20.11.2013
	b) Remove all the attribute selectors from the Layers panel.	TRINITY	0%	TBD	20.11.2013	20.11.2013
	c) Add one attribute selector to the top line of FMU selector accommodated in the FMU Tab. (See Fig. 8)	TRINITY	0%	TBD	20.11.2013	20.11.2013
	d) Modify code to apply the selected attribute to all the FMUs.	TRINITY	0%	TBD	20.11.2013	20.11.2013
4.3	Add New Layers / Improve Layers					
4.3.1	Improve Vegetation map Layer by including National Parks					
	a) Shape files for three national parks will be provided from PURCHASER/USER.	TRINITY	0%	TBD	20.11.2013	20.11.2013

	b) Classification of species of National parks is not compatible to PEMF classification. So, Classification shall be converted to be compatible to PEMF's according to direction of PURCHASER/USER.	TRINITY	0%	TBD	20.11.2013	20.11.2013
	c) Add each National park FMU polygon as a member of PEMF FMU group.	TRINITY	0%	TBD	20.11.2013	20.11.2013
	Improve Vegetation map Layer by including Protected area Zone 1					
4.3.2	a) Shape files for Protected area Zone 1 will be provided from PURCHASER/USER. They don't contain attributes.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	b) Add each Protected area Zone 1 polygon as a member of PEMF FMU group.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	Add a New Layer for MGRS Grid					
	a) Add MGRS grid.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	b) Idea of implementation of MGRS grid can be obtained from http://dhost.info/usngweb/ (* definition of MGRS grid is different from definition of U.S. National Grid)	TRINITY	0%	TBD	30.11.2013	30.11.2013
4.3.3	c) Definition of MGRS Grid can be obtained from http://earth-info.nga.mil/GandG/coordsys/grids/mgrs.doc	TRINITY	0%	TBD	30.11.2013	30.11.2013
	d) Suitable grids according to current zoom-in factor shall be selectable from Zone, 100km, 10km, 1km, 100m and 10m.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	Add a new Layer "Damage Forest Value Map"					
4.3.4	a) Add a user privilege to enable/disable to access this map. When this layer is selected following functions shall be enabled.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	b) Allow users to draw a polygon	TRINITY	0%	TBD	30.11.2013	30.11.2013
	c) Find intersections of the drawn polygon and subcompartments	TRINITY	0%	TBD	30.11.2013	30.11.2013

	<p>d) As table form, the following data shall be shown for the intersected area:</p> <ul style="list-style-type: none"> • CompartmentNo./SubCompartmentNo. • Intersected Area (ha) • Total Area of Subcompartment (ha) This value should be taken from Form9 of Inventory for corresponding subcompartment • % of intersected area over total area of subcompartment This value should be calculated by Intersected Area / total area of subcompartment x 100 • Value for the intersected area This value should be calculated as Value of Forest x % of intersected area where Value of Forest area shall be taken from corresponding field in Form 9 of Inventory • Total Value for the intersected areas 	TRINITY	0%	TBD	30.11.2013	30.11.2013
	<p>e) Result intersection polygons shall be displayed in this layer with a color classification according to the total value for the intersected areas. User shall provide classification of colors by value.</p>	TRINITY	0%	TBD	30.11.2013	30.11.2013
4.3.5	Add new layer group – CMC Operation Maps					
4.3.5	<p>a) Add a user privilege to enable/disable to access this Layer group.</p>	TRINITY	0%	TBD	30.11.2013	30.11.2013
	<p>b) When this layer group is selected, user is allowed to draw a polygon which is used for inner polygon searches enabled by corresponding inner polygon search switches. (see Fig.6-A)</p>	TRINITY	0%	TBD	30.11.2013	30.11.2013
	<p>c) State of inner polygon search switches shall be kept in a table with a relation to the user account, and when the user logs in again, the state shall be restored.</p>	TRINITY	0%	TBD	30.11.2013	30.11.2013
	<p>d) The node of “CMC Operation Maps” shall be expanded by default.</p>	TRINITY	0%	TBD	30.11.2013	30.11.2013
4.3.5.1	Add a “Resource Map” Layer					

	a) Create and display resource icons corresponding to resource types at the coordinates specified in resource records from UNDP Database. (See Appendix B-1)	TRINITY	0%	TBD	30.11.2013	30.11.2013
	b) This is not a permanent map. Successful PROPOSER shall write code to create and replace the map once a month.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	c) Add function for optional inner polygon search. Breakdown of resources in the drawn polygon shall be displayed as a table in the search result pane.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	Add a "Facility inventory Map" Layer					
4.3.5.2	a) Create and display facility inventory icons corresponding to facility types at the coordinates specified in facility inventory records from UNDP Database. (See Appendix B-1)	TRINITY	0%	TBD	30.11.2013	30.11.2013
	b) This is not a permanent map. Successful PROPOSER shall write code to create and replace the map once a month.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	c) Add function for optional inner polygon search. Breakdown of facility inventory in the drawn polygon shall be displayed as a table in the search result pane.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	Add a "Demographic Map" Layer					
4.3.5.3	a) Show a thematic map showing total population by color classification using border of settlements.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	b) This is not a permanent map. Successful PROPOSER shall write code to create and replace the map once a month.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	c) Demographic information will be in a database to be created by UNDP which will become accessible from MKFFIS in mid July 2013. (see Appendix B-2)	TRINITY	0%	TBD	30.11.2013	30.11.2013
	d) Add function for optional inner polygon search. Breakdown of total population of each settlement which is intersected by the drawn polygon shall be displayed in the search result pane.	TRINITY	0%	TBD	30.11.2013	30.11.2013

4.3.5.4	Real-time disaster report from RCMC					
	a) Add a user privilege to enable/disable this function	TRINITY	30%	05.10.2013	01.11.2013	01.11.2013
	b) Users having this privilege are able to send/edit/delete disaster report. Report consists of followings. <ul style="list-style-type: none"> • Geographic information (polygon, line, point, icon) drawn/dropped on the MKFFIS Map Pane • Text information (Details shall be decided by USER) 	TRINITY	30%	05.10.2013	01.11.2013	01.11.2013
	c) Disaster report sent shall be stored in Disaster Report Database. (Successful PROPOSER shall prepare this database).	TRINITY	30%	05.10.2013	01.11.2013	01.11.2013
	d) The report sent, edited, deleted shall be reflected in real time to all the MKFFIS users who are online.	TRINITY	30%	05.10.2013	01.11.2013	01.11.2013
	e) Geographic information sent shall be displayed as a Real-time disaster Map which is one member layer of the CMC Operation Maps. (see Fig.6-A)	TRINITY	30%	05.10.2013	01.11.2013	01.11.2013
	f) Alarm message shall be displayed upon arrival of real-time disaster report. (In a message box for example)	TRINITY	30%	05.10.2013	01.11.2013	01.11.2013
	g) Salvage as much data as possible from ESRI Application created on ArcSDE (see APPENDIX C). Source code is not available for ESRI Application, but user account of ArcSDE database (MSSQL) will be provided.	TRINITY	0%	TBD	01.11.2013	01.11.2013
	h) If type of disaster is forest fire; create a new CMC Forest Fire Report. (Refer to 4.6.1)	TRINITY	0%	TBD	01.11.2013	01.11.2013
4.3.5.5	Search disaster reports					
	a) Add a panel for this search in the second menu item of the accordion menu in Search tab. (see Fig. 10)	TRINITY	0%	TBD	30.11.2013	30.11.2013
	b) Only the filter by CMC classification is required. PEMF classification is not necessary.	TRINITY	0%	TBD	30.11.2013	30.11.2013

	<p>c) Search disaster report panel has following controls:</p> <ul style="list-style-type: none"> • From Date • To Date • GCUK unit selector • RCUK unit selector • Municipality and Settlement selector • Type of events • Search Report button • Clear Result button • Print Result button 	TRINITY	0%	TBD	30.11.2013	30.11.2013
	d) Search result shall be shown in the search result pane.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	e) Color of GCUK or RCUK polygons shall be classified by the number of disasters in the polygons in the specified period.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	f) Result Map shall be displayed as a 'Disaster search result' which is one member layer of the CMC Operation Maps. (see Fig.6-A)	TRINITY	0%	TBD	30.11.2013	30.11.2013
	g) As for Print Result function, format of printed report shall be provided by USER.	TRINITY	0%	TBD	30.11.2013	30.11.2013
4.4	Add New Functions to MKFFIS					
4.4.1	Grid Inforamtion					

	<p>a) Show following information of a MGRS Grid clicked.</p> <ul style="list-style-type: none"> • MGRS Grid code • Summary of resources in the grid (see Appendix B-1). Resources are in a database created by UNDP which is accessible from MKFFIS. • Summary of disaster events in the grid. Disaster events are in a database created by UNDP which is accessible from MKFFIS. • Summary of facility inventories in the grid. Inventories are in a database created by UNDP which is accessible from MKFFIS. • FWI at the center of the grid. FWI grid values are kept as GeoTIFF image. • <input checked="" type="checkbox"/> Vegetation dryness at the center of the grid. Vegetation dryness grid values are kept as GetTIFF image. 	TRINITY	0%	TBD	30.11.2013	30.11.2013
	Demographic information					
4.4.2	<p>a) Show demographic information of an administrative area clicked (National, Municipalities, Settlements). When info button is clicked, show summary, and detail table representation to be shown below on the screen.</p>	TRINITY	0%	TBD	30.11.2013	30.11.2013
	<p>b) Demographic information will be in a database to be created by UNDP which will become accessible from MKFFIS in mid July 2013.</p>	TRINITY	0%	TBD	30.11.2013	30.11.2013
	<p>c) Demographic information to be shown on the info button and detailed table will be decided by USER.</p>	TRINITY	0%	TBD	30.11.2013	30.11.2013
4.4.3	Add means to switch Between MKFFIS for internal purpose and MKFFIS for Public					

	<p>a) Currently, MKFFIS serves for internal purpose controlling available features by user account. But another instance of MKFFIS will be installed on the Internet Server to serve public users. MKFFIS for Public can be opened without login process, but much stronger restriction will be applied. Successful PROPOSER shall add means to switch from MKFFIS for internal purpose to MKFFIS for Public. Following procedure is an example of solution.</p> <ul style="list-style-type: none"> • Define a special user GUEST. • Restriction to the public user will be applied by privilege settings of user GUEST. • Add necessary exceptions applicable to GUEST user. For example, user profile of GUEST user is not kept . • Prepare PUBLIC flag in a configuration file of MKFFIS GIS. • If the flag is OFF, MKFFIS starts normally from the login page. • VI. If the flag is ON, MKFFIS skips login page and starts from the main page, setting user name to GUEST automatically. 	TRINITY	0%	TBD	30.11.2013	30.11.2013
	<p>b) Link to MKFFIS for internal purpose shall be added to the MKFFIS for public.</p>	TRINITY	0%	TBD	30.11.2013	30.11.2013
4.4.4	Add function to fill section 5.1 in P2 report taking meteorological data from AWS.					
	<p>a) Add an AWS select box next to the 'Meteorological Station' text box. (See Fig..11) AWS Names in the select box shall be taken dynamically from the 'meteorologicalstations' table in the CUK database.</p>	TRINITY SIMIT	0% 50%	TBD 25.09.2013	30.11.2013	30.11.2013 02.10.2013
	<p>b) Search the meteorological data of the selected AWS which is closest to the date/time specified in the '2.2 Detection' text box.</p>	TRINITY Simit	0% 50%	TBD 25.09.2013	30.11.2013	30.11.2013 02.10.2013

	<p>c) If there is no data between 3 hours before and after the date/time specified by the '2.2 Detection' text box, show message 'No AWS data available' and do nothing to the textboxes, otherwise fill following textboxes in the section 5.1 of P2 report.</p> <ul style="list-style-type: none"> • Meteorological Station: (name of meteorological station) • hour: (hour of the meteorological data measured) • Number of days from last raining: (to fill this box some calculation is necessary) • Maximum temperature: (fill maximum temperature of the specified day) • Relative humidity • Wind Speed • Direction (Wind direction) 	TRINITY	0%	TBD	30.11.2013	30.11.2013
	Changes requested from Damages department from CMC about forest fire report	SIMT	5%	03.10.2013	TBD	07.10.2013
4.5	Add New Functions/Interface to GFIS					
	Add a link to user manual					
4.5.1	a) Add a link to end user manual of GFIS GIS to the tool bar.	JICA				
	b) Add a link to end user manual of GFIS Planning to the top link.	JICA				
	c) Add a link to end user manual of GFIS Fire Report to the top link.	JICA				
	d) In English mode link to the user manual of English version, and In Macedonian mode link to the user manual of Macedonian version.	JICA				
	Limit available FMU by user privilege					
4.5.2	a) Add a function to the GFIS Admin page in order to specify FMUs under responsibility of each user.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	b) Limit FMUs to display and/or edit according to above privilege.	TRINITY	0%	TBD	30.11.2013	30.11.2013

	c) Limit FMUs shown in the FMU Selector according to above privilege.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	d) Zoom in FMU under responsibility of the user when that user opens GFIS GIS.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	Allow access to past versions of forest plan.					
4.5.3	<p>a) Currently, if a FMU polygon is edited and uploaded, old FMU polygons will be replaced by new FMU polygons. Therefore only the latest FMUs can be seen on GFIS GIS. Successful PROPOSER under the direction of PEMF shall add function to show FMUs in a past date specified by a calendar control. Following procedures are just an example of solution:</p> <ul style="list-style-type: none"> • Add a calendar control to a suitable place on GFIS GIS. • Add attributes (effective from, expired on) to each FMU. • Preset some past date such as 1900.01.01 to 'effective from' and NULL to 'expired on'. • When a new FMU is uploaded, keep the old FMU and set its 'expired on' to the updated date. • Set the updated date to the new FMU's 'effective from' and set NULL to 'expired on'. • When a past date is specified, display FMUs according to their attribute 'effective from' and 'expired on'. 	TRINITY	0%	TBD	30.11.2013	30.11.2013
	Search FMU by year of expiry of special plan					
4.5.4	a) Each FMU has its planning effective for ten years. And the duration is kept in the forest planning database. Successful PROPOSER under the direction of PEMF shall add a function to search FMUs which special plans expire in the year specified.	TRINITY SIMT	0% 0%	TBD 01.12.2013	30.11.2013 TBD	30.11.2013 20.12.2013
4.5.5	Change monthly input to daily for form 3, 3a and 5		SIMT	15.10.2013	TBD	25.10.2013

	a) Currently, data entry to the form 3, 3a and 5 is carried out on a monthly basis. Successful PROPOSER under the direction of PEMF shall modify the code to cater to daily data entry. And add two options to the print function for these forms, one is daily summary, the other is monthly summary.	SIMT	0%	15.10.2013	TBD	25.10.2013
	Keep annual achievement for 10 years in Form 6					
4.5.6	a) Successful PROPOSER under the direction of PEMF shall modify code and design of Form 6 data entry sheet to keep annual achievement for 10 years for each sub compartment. Items to keep are as follows. <ul style="list-style-type: none"> • Area (ha) • Number of seedlings • Weight of seeds (kg) 	SIMT	0%	26.10.2013	TBD	31.10.2013
	Keep annual achievement for 10 years in Form 8					
4.5.7	a) Successful PROPOSER under the direction of PEMF shall modify code and design of Form 8 data entry sheet to keep annual achievement for 10 years for each sub compartment. Items to keep are as follows. <ul style="list-style-type: none"> • Length of roads (km) • Cleared wood (m3) 	SIMT	0%	01.11.2013	TBD	06.11.2013
	Fill area in Form 1 taken from polygon attribute					
4.5.8	a) Successful PROPOSER under the direction of PEMF shall modify code of Form 1 data entry sheet to fill area automatically taken from the attribute of polygon corresponding to selected sub compartment.	SIMT	0%	20.11.2013	TBD	01.12.2013
	Add National and Regional office level summaries to the reports in Reports/Rekapitulari menu.					
4.5.9	a) Currently, reports under the Reports/Rekapitulari menu are summary of selected FMU. Successful PROPOSER under the direction of PEMF shall add summary of National level and Regional Office level, and add links to corresponding summaries in the menu.	JICA				

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	b) FMUs shall be classified by regional office in order to create regional office summary.	SIMT	5%	03.10.2013	TBD	20.10.2013
6.	Improvement related to MKFFIS & GFIS modules					
4.6.1	Modify PEMF Fire Report input module to report by fire.					
	<p>a) Currently fire report is created in PEMF by each sub compartment even in case of one big fire over several compartments. On the other hand, in the CMC fire report (P2 report) is fire based, not sub compartment based. Therefore, a fire report divided into several reports by sub compartment must be merged at CMC to create P2 report for one fire. There are some complaints in PEMF for this process.</p> <ul style="list-style-type: none"> • PEMF does not want redundant data entry. For example, some common fields such as start of fire and end of fire should be entered repeatedly for each related sub compartment. • PEMF has authority to identify a fire over several sub compartments, therefore merging reports by sub compartment into one fire report should be conducted by PEMF. • Fire report from PEMF does not have to be by sub compartment. Report by fire is acceptable. 	SIMT	0%	06.11.2013	TBD	25.11.2013
	b) Because P2 report module has a function to manage a report containing information of multiple sub compartments, applying the same approach to the PEMF fire report will be an elegant solution.	SIMT	0%	06.11.2013	TBD	25.11.2013

	<p>c) Successful PROPOSER under direction of USER shall conduct following modification.</p> <ul style="list-style-type: none"> • Modify current PEMF fire report module on GFIS Fire Report so that it can report by fire by adding functionality to manage information from multiple sub compartments. • Remove MERGE PEMF REPORT function from P2 report module in MKFFIS Fire Report. • Add IMPORT PEMF REPORT function to MKFFIS Fire Report • Adjust P2 Report module on MKFFIS Fire Report to be able to show correctly the Fire report which was imported from PEMF REPORT • Rename P2 Report as CMC Forest Fire Report. • Add 'read-only' user privilege to GFIS Fire Report and MKFFIS Fire Report which allows MKFFIS user to browse PEMF fire report, and allows GFIS user to browse CMC Fire Report. • Printing format of PEMF Fire Report to obtain approval of SiFH shall not be changed. 	SIMT	0%	06.11.2013	TBD	25.11.2013
7.	Performance Tuning					
	Performance tuning of MKFFIS		10%			
4.7.1	<p>a) Currently, there are following complaints about speed.</p> <ul style="list-style-type: none"> • MKFFIS GIS takes very long time to show the login page, if it is accessed over a long distance. For example, accessing from Japan, it takes 90 seconds to open the login page and another 90 • Speed to show FMUs is slow, and from time to time it fails to show them. 	TRINITY	30%	02.10.2013	25.10.2013	25.10.2013
	<p>b) MKFFIS GIS shall be optimized by execution speed.</p>	TRINITY	30%	02.10.2013	25.10.2013	25.10.2013

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	c) Optimization is not limited to source code level. All the possible factors shall be taken into account. For example, server configuration, deployment of files, network structure, use of external servers (Google server for jQuery), indexing of tables in databases, etc.	TRINITY	10%	02.10.2013	25.10.2013	25.10.2013
	d) Improvement of performance should be shown quantitatively.	TRINITY	15%	02.10.2013	25.10.2013	25.10.2013
	Performance tuning of GFIS					
4.7.2	a) Currently, there are following complaints about speed which are similar to MKFFIS GIS. <ul style="list-style-type: none"> • GFIS GIS takes very long time to show the login page, if it is accessed over a long distance. • Speed to show FMUs is slow, and from time to time it fails to show them. 	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013
	b) GFIS GIS shall be optimized by execution speed	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013
	c) Optimization is not limited to source code level. All the possible factors shall be taken into account. For example, server configuration, deployment of files, network structure, use of external servers (Google server for jQuery), indexing of tables in databases, etc.	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013
	d) Improvement of performance should be shown quantitatively.	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013
8.	Installation/QA/Training/Documentation					
4.8.1	MKFFIS and GIS Installation, Quality Assurance, Training, Documentation					
4.8.2	GFIS and GIS Installation, Quality Assurance, Training, Documentation					

4.2 Improve MKFFIS User Interface

4.2.1 The 5 tabs have been created and now we are in the process of making the transfer of everything in the correct tab.

4.2.3 The calendar control function is under development. For the hotspot maps the plan is to publish all of the information in one shape file per hotspot map and the viewing will be filter based (from the attribute date in each of the layers).

4.3.5.4 According to the meeting held in CMC HQ with Mr. Karafilovski and representatives from RCUK the preliminary design of the creation of Disaster reports was determined. It was decided that for now we shall fully create a disaster even/report template for Fires only.

4.3 Add New Layers / Improve Layers

4.3.1 Improve Vegetation map Layer by including National Parks **TRINITY & SIMT (b, c)**

Target: MKFFIS GIS and GFIS GIS

According to the meeting at Friday, 06.09.2013 in PEMF with people from planiang section (Blaze and Miroslav), they explain that only shape attributes need to be added in the MKFFIS. There is no need for adding FMU's for planning in the PEMF attribute database or any database migration.

4.3.5.4 Real-time disaster report from RCMC **TRINITY & SIMT**

Target: MKFFIS GIS

*Very important is that topic **h** in the FSD for this section (If type of disaster is forest fire; create a new CMC Forest Fire Report) is abandoned according to the meeting in Monday, 16.09.2013 at CMC. CMC Persons agreed that this module will not be connected with forest fire reporting module, they will be separate modules.*

4.4 Add New Functions to MKFFIS

4.4.4 Add function to fill section 5.1 in P2 report taking meteorological data from AWS. **SIMT**

Target: MKFFIS Fire Report

SIMT postponed Initial date for first demo at CMC Test server originally planned for Friday September 27th, because of request for making changes in the report by damages department from CMC.

4.5 Add New Functions/Interface to GFIS

4.5.4 Search FMU by year of expiry of special plan **TRINITY & SIMT**

Target: GFIS GIS

For this function, user will have form where he selects FMU and year. According to that selection, if in the selected year plan for current FUM exist, system will open that old plan with all forms and reports. Also in the header of the page, selected plan with from-to year will be shown.

4.5.5 Change monthly input to daily for form 3, 3a and 5 **SIMT**

Target: GFIS Planning

Field for day will be added. Also, type of phase field will be added – it can be one from these options: transport, logging and supply. There will be two kinds of printouts. First will be right page from the plan according to the law, where no grouping per day, month or year will exist. Second will be summary reports where only phase type will be shown as columns, and as a row will be shown type of tree. These summaries will be on FMU level, regional center level or state level.

Also, very important is that system need to allow input of logging for sub-compartments, where logging was not planned (in rare occasions PEMF users need that function).

4.5.6 Keep annual achievement for 10 years in Form 6 **SIMT**

Target: GFIS Planning

New form will be created, and print out of right page will be created.

4.5.7 Keep annual achievement for 10 years in Form 8 **SIMT**

Target: GFIS Planning

New form will be created, and print out of new generated and designed right page will be created, very similar as right page of form 6.

4.5.8 Fill area in Form 1 taken from polygon attribute **SIMT**

Target: GFIS Planning

New function will be added, where user will click on button and system automatically fills form 1 from shape file database. If old plan is used, system will update areas for matching items, and no exist items in the shape files will be deleted from planning database and if new shape files are added, then new items will be added in the planning database.

4.5.9 Add National and Regional office level summaries to the reports in Reports/Rekapitulari menu. **SIMT**

Target: GFIS Planning

SIMT started with creating views in the database and queries which collects data from form 2 and form 2a and summaries by regional center and state level. Three views are created – for report by form od management, for report by cultivation form and by report for clean and mixed trees in uneven and even aged stands.

Only summary for both form 2 and form 2a will be added (at regional center level and state level):

1. Composition of plantations report
2. Form of cultivation report
3. Form of management report
4. Economy class report
5. Growing ratio report
6. Mixed and clean even aged plantations report
7. Phytocenosis report
8. Quality of stand report
9. Slope report
10. Soil report
11. Place of growth report
12. Within report
13. Aspect report

4.6 Improvement related to both MKFFIS and GFIS modules

4.6.1 Modify PEMF Fire Report input module to report by fire. **SIMT**

Target: GFIS Fire Report, MKFFIS Fire Report

1. *Change in PEMF fire report*

a. *PEMF fire report record will be created for each fire with multiple damaged sub-compartments information.*

- b. *Damage to unmanaged area will be added to PEMF fire report. Also here will have code table with type of area that is not in jurisdiction of PEMF – agriculture, etc.*
2. *Fire report merge function will be discarded. (There will be no need to merge)*
3. *Once the PEMF official click on "submit to RCMC" with the same meaning as report is finalized, Fire Report (Former P2 report) record will be created.*
4. *RCMC will add the data in Fire Report which does not come from PEMF*
5. *If PEMF report is not valid by Inspectorate: PEMF updates the data in PEMF fire report according to Inspectorate's instruction*

4.7.1 Trinity extensively works on finding ways of fixing the performance issues. Unnecessary scripts are being deleted, performance tuning on the loading of the layers is done, external loading of the scripts is done etc.

Note taker: Ljupco Tagasovski

Attendees:

Eisho Sato, Honda Yasuyo, Hiroyuki Kozu – **JICA**
Stevko Stefanoski, Igorce Karafilovski – **CMC**
Ljupcho Tagasovski – **EDUSOFT**
Predrag Radojicic, Anastas Ristevski - **SIMT**
Igor Mazganski – **TRINITY**

Agenda topics

Topic Mediator

- | | | |
|---|---|--------------------|
| 1 | Briefing on Trinity - CMC Operation Section meeting | - Trinity |
| 2 | Report on SD2 progress | - Trinity and SIMT |
| 3 | SD1 performance issues | - Trinity and SIMT |
| 4 | Other | - open |

Agenda topic:**Trinity - CMC Operation Section meeting****- JICA**

Mr. Sato opened the meeting introducing the Agenda topics as follows:

1. Briefing on Trinity - CMC Operation Section meeting held this week. Mr. Mazganski from Trinity informed that it was a useful meeting which clarified a lot of things about how this CMC Section currently operates and what do they need and expect to get from switching to new application. Trinity was also given a documented technical material prepared by Mr. Karafilovski from CMC. As wrap up conclusion Mr. Mazganski from Trinity informed that basically it will be completely new set of functionalities and many, many new reports to be added into the current solution. For each category of event, new vector map layer will be created which will be constantly updated, showing always the current situation (no need to save past, historical traces). Below the map will be a info panel showing on the left-side event's information and on the right-side accompanying reports. Anticipated is that due to need of so many, numerous different reports they will be done during the warranty period.

Mr. Koza's opinion is that integrating this CMC Operational Section task is far the biggest and the most complicated item in the list of SD2 deliverables. Therefore Mr. Koza expressed concerns that these new additions to the already too long list of deliverables envisioned to be accomplished in such a short time, will burdened and stretch too much Trinity's resources and asked does Trinity have enough programmers. Mr. Mazganski answered that currently a team of 5 Trinity people are engaged in the SD2 development and that adding more will not be quite beneficiary nor effective. According to him the System Performance deliverable is the biggest and the most complex topic comparing it with "basic tool in a wall" which will require the biggest attention, effort and time. Mr. Koza offered Trinity help and assistance regarding the "performance" deliverable.

Ms. Honda suggested careful approach to this issue of adding more and more deliverables into the list, expressing concern is everything realistically doable within the given timefram. She once again reminded about the fact that no deadline extensions or prolongations are possible, and therefore suggested that Trinity should really evaluate and estimate the volume of work versus affordable time and resource. She asked Trinity by next Wednesday to produce a categorized deliverable list, i.e. what is realistically doable by December, what can left to be realistically accomplished during Warranty period, and lastly what ca not be done at all. JICA and CMC should be provided with this categorized deliverables list one day in advance of next meeting which will probably be held next Thursday, October 10th.

Mr. Karafilovski from CMC suggested listed to be functionalities and just couple of reports while for the rest of the reports to be noted that they will be done during the Warranty period. He also suggested on the next meeting Trinity to illustrate the categorized deliverables list with some demo envisioned on-line examples.

Concluding the topic, Mr. Mazganski agreed and promised to once again carefully and realistically reevaluate and afterwards to prepare and send out the categorized list of

deliverables, as well to try to prepare (not promising anything) some illustrative examples for the next meeting.

Agenda topic:	Report on SD2 progress	- Trinity, SIMT
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2. SD2 weekly progress report. On behalf of Trinity, Mr. Mazganski reported that they have already started with the most sensitive part regarding the system performance which is the basic ground for everything else. Simultaneously they have pre-prepared some of the required new functionalities too. Trinity re-took obligation to record their SD2 progress in a regular written form through Weekly Progress Report by next meeting. Mr. Kozu remind Trinity also to send e-mail notification to JICA and CMC each time Trinity intervene and change something in the running system and/or each time when they update the FTP folders. Mr. Mazganski promised to take care Trinity to comply with the contracted obligations.
- On behalf of SIMT, Mr. Radojicic informed that they have started effective development work in accordance with the CDD, although they have still not obtained PEMF formal concurrence. JICA was asked if possible to push PEMF for such approval. In meantime, while developing other deliverables, SIMT also waits CMC Operations Section to provide clarifications and specifications for some of the requested reports.

Agenda topic:	SD1 performance issues	- Trinity, SIMT
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3. SD1 current status. JICA representatives asked for explanation regarding some SD1 still malfunctioning, file transferring and FWI generating. In that context, Trinity was asked to:
- Check and report back if previously applied fixes were temporary or permanent ones
 - Properly to document fixes in FTP folders, and to
 - Promptly send e-mails notifying about their latest interventions and changes.

Agenda topic:	program activities	- all
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Because next Friday is a national holiday non working day, tentatively the Next Steering Committee meeting scheduled for **Thursday, October 9th, 2013 at 10 a.m. in CMC**

Tasks to be accomplish and reported on the next meeting	Person/firm responsible	Deadline
Check and report on FWI generation issue, and weather previous fixes are temporary or permanent and accordingly document them in SD1 deliverables FTP site	TRINITY	Monday October 7 th , 2013
Carefully and realistically re-evaluate the list of deliverables, categorized them into a list with 3 categories (doable by December, doable in Warranty period, and not doable at all) and send it to CMC and JICA for a pre-meeting review.	TRINITY	Wednesday, October 9 th , 2013
Prepare and submit Weekly Progress Report.	SIMT and TRINITY	Wednesday, October 9 th , 2013
If possible prepare illustrative examples on testing site to be shown and disused on next meeting	TRINITY	Thursday, October 9 th , 2013

- SD 2 -

WEEKLY PROGRESS REPORT No.2
For period from October 3rd to October 9th, 2013

Author: EDUSOFT, SIMT, TRINITY

Creation Date: October 9th, 2013

Seq.No	Task Description	Assignee	Current % of progress	Start Date	End Date	Target date
4.2	Improve MKFFIS User Interface					
	Reform MKFFIS Left pane		20%			
	a) Remove Accordion menu, Navigation and Layers button from the left pane.	TRINITY	60%	02.10.2013	10.10.2013	10.10.2013
	b) Add Tab control with five tabs.	TRINITY	60%	02.10.2013	10.10.2013	10.10.2013
	c) Deploy Layers panel in the first tab named 'Layers'. This tab should be a default. (See Fig. 7)	TRINITY		02.10.2013	10.10.2013	10.10.2013
	d) Deploy Map Selector in the second tab named 'Maps'. Show hierarchy of each map using a tree view control, except vegetation map. Show only the root node for vegetation map in the tree view. (See Fig.6) Because vegetation map has a lot of FMUs as its children, FMU selector should be accommodated in a separate tab (e). (See Fig. 8)	TRINITY	60%	02.10.2013	10.10.2013	10.10.2013
4.2.1	e) Deploy FMU selector in the third tab named 'FMU'. (See Fig. 8)	TRINITY	60%	02.10.2013	10.10.2013	10.10.2013
	f) Deploy an accordion menu with two menu items in the fourth tab named 'Search'. Deploy Search Forest History panel in the first accordion menu item. (See Fig. 10)	TRINITY	40%	02.10.2013	10.10.2013	10.10.2013
	g) Deploy AWS Overview panel in the fifth tab named 'AWS'. (See Fig. 9)	TRINITY	40%	02.10.2013	10.10.2013	10.10.2013
	h) Tab names should be displayed in the language specified by the current language mode.	TRINITY	40%	02.10.2013	10.10.2013	10.10.2013
	i) Layer settings in the Layers panel (Order of the layers, selected maps) and selected maps in the Map Selector and FMU selector shall be kept in a table with a relation to the user account, and when the user logs in again, the settings shall be restored.	TRINITY	0%	TBD	20.11.2013	20.11.2013
	Add a link to user manual		%			
4.2.2	a) Add a link to end user manual of MKFFIS GIS to the tool bar.	TRINITY	0%	TBD	20.11.2013	20.11.2013

	b) Add a link to end user manual of MKFFIS Fire Report to the top link.	TRINITY	0%	TBD	20.11.2013	20.11.2013
	c) In English mode link to the user manual of English version, and In Macedonian mode link to the user manual of Macedonian version.	TRINITY	0%	TBD	20.11.2013	20.11.2013
4.2.3	Change background image seasonally		%			
	a) Change background image on the login page seasonally. Image for each season will be provided by USER.	TRINITY	0%	TBD	20.11.2013	20.11.2013
4.2.4	Add a common calendar control					
	a) Currently, vegetation dryness map (VDM) and FWI map have their own calendar control independently. And each hotspot (Seviri, Modis and Modis raw) has selections of 1 day ago, 2 days ago and 3 days ago.	TRINITY	20%	04.10.2013	15.10.2013	15.02.2013
	b) Remove the calendar control for VDM and FWI map.	TRINITY	20%	04.10.2013	15.10.2013	15.10.2013
	c) Remove the hot spot selections: 1 day ago, 2 days ago and 3 days ago.	TRINITY	20%	04.10.2013	15.10.2013	15.10.2013
	d) Rename hot spot selections: 'Seviri (Today)' as 'Seviri', 'Modis (Today)' as 'Modis' and 'Modis raw data (Today)' as 'Modis raw data'.	TRINITY	20%	04.10.2013	15.10.2013	15.10.2013
	e) Add a calendar control with label 'Date' on the space where currently 'Navigation' is there. (See Fig. 7)	TRINITY	0%	TBD	20.11.2013	20.11.2013
	f) Add a check box with label 'Now' next to the above calendar control. 'Now' shall be checked by default. *Labels should be in the language specified by current language mode.	TRINITY	0%	TBD	20.11.2013	20.11.2013

	<p>g) Modify code as follows:</p> <ul style="list-style-type: none"> • When a past day is specified by the calendar control, clear 'Now' check box, show VDM, FWI map, hotspots and real-time disaster report (see 4.3.5.4) of the day specified. • When 'Now' check box is checked, show vegetation map, FWI map, hotspots and real-time disaster report of the current day, and keep updating these four real-time maps. 	TRINITY	20%	04.10.2013	15.10.2013	15.10.2013
4.2.5	Display FWI Map of the previous day until today's FWI Map becomes available					
	a) Currently, FWI Map is not shown until a day is specified by its calendar control.	TRINITY	0%	TBD	20.11.2013	20.11.2013
	<p>b) Modify code as follows: When 'Now' is checked (it is checked by default) FWI Map of now should be displayed. But FWI Map is created almost every day at 2pm. Therefore, it shall be displayed by the following rule.</p> <ul style="list-style-type: none"> • If FWI Map of the current day exists now, display it. • Otherwise display FWI Map of one day before, if such exists. • Otherwise don't display FWI Map. 	TRINITY	0%	TBD	20.11.2013	20.11.2013
4.2.6	Relocate vegetation map's attribute selector from Layers panel to the top of FMU selector					
	a) Currently, attribute selectors of vegetation map are located in the Layers panel for each FMU (See Appendix A.4)	TRINITY	0%	TBD	20.11.2013	20.11.2013
	b) Remove all the attribute selectors from the Layers panel.	TRINITY	0%	TBD	20.11.2013	20.11.2013
	c) Add one attribute selector to the top line of FMU selector accommodated in the FMU Tab. (See Fig. 8)	TRINITY	0%	TBD	20.11.2013	20.11.2013
	d) Modify code to apply the selected attribute to all the FMUs.	TRINITY	0%	TBD	20.11.2013	20.11.2013
4.3	Add New Layers / Improve Layers					
4.3.1	Improve Vegetation map Layer by including National Parks					
	a) Shape files for three national parks will be provided from PURCHASER/USER.	TRINITY	0%	TBD	20.11.2013	20.11.2013

	b) Classification of species of National parks is not compatible to PEMF classification. So, Classification shall be converted to be compatible to PEMF's according to direction of PURCHASER/USER.	TRINITY	0%	TBD	20.11.2013	20.11.2013
	c) Add each National park FMU polygon as a member of PEMF FMU group.	TRINITY	0%	TBD	20.11.2013	20.11.2013
	Improve Vegetation map Layer by including Protected area Zone 1					
4.3.2	a) Shape files for Protected area Zone 1 will be provided from PURCHASER/USER. They don't contain attributes.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	b) Add each Protected area Zone 1 polygon as a member of PEMF FMU group.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	Add a New Layer for MGRS Grid					
	a) Add MGRS grid.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	b) Idea of implementation of MGRS grid can be obtained from http://dhost.info/usngweb/ (* definition of MGRS grid is different from definition of U.S. National Grid)	TRINITY	0%	TBD	30.11.2013	30.11.2013
4.3.3	c) Definition of MGRS Grid can be obtained from http://earth-info.nga.mil/GandG/coordsys/grids/mgrs.doc	TRINITY	0%	TBD	30.11.2013	30.11.2013
	d) Suitable grids according to current zoom-in factor shall be selectable from Zone, 100km, 10km, 1km, 100m and 10m.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	Add a new Layer "Damage Forest Value Map"					
4.3.4	a) Add a user privilege to enable/disable to access this map. When this layer is selected following functions shall be enabled.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	b) Allow users to draw a polygon	TRINITY	0%	TBD	30.11.2013	30.11.2013
	c) Find intersections of the drawn polygon and subcompartments	TRINITY	0%	TBD	30.11.2013	30.11.2013

	<p>d) As table form, the following data shall be shown for the intersected area:</p> <ul style="list-style-type: none"> • CompartmentNo./SubCompartmentNo. • Intersected Area (ha) • Total Area of Subcompartment (ha) This value should be taken from Form9 of Inventory for corresponding subcompartment • % of intersected area over total area of subcompartment This value should be calculated by Intersected Area / total area of subcompartment x 100 • Value for the intersected area This value should be calculated as Value of Forest x % of intersected area where Value of Forest area shall be taken from corresponding field in Form 9 of Inventory • Total Value for the intersected areas 	TRINITY	0%	TBD	30.11.2013	30.11.2013
	<p>e) Result intersection polygons shall be displayed in this layer with a color classification according to the total value for the intersected areas. User shall provide classification of colors by value.</p>	TRINITY	0%	TBD	30.11.2013	30.11.2013
4.3.5	Add new layer group – CMC Operation Maps					
4.3.5	<p>a) Add a user privilege to enable/disable to access this Layer group.</p>	TRINITY	0%	TBD	30.11.2013	30.11.2013
	<p>b) When this layer group is selected, user is allowed to draw a polygon which is used for inner polygon searches enabled by corresponding inner polygon search switches. (see Fig.6-A)</p>	TRINITY	0%	TBD	30.11.2013	30.11.2013
	<p>c) State of inner polygon search switches shall be kept in a table with a relation to the user account, and when the user logs in again, the state shall be restored.</p>	TRINITY	0%	TBD	30.11.2013	30.11.2013
	<p>d) The node of “CMC Operation Maps” shall be expanded by default.</p>	TRINITY	0%	TBD	30.11.2013	30.11.2013
4.3.5.1	Add a “Resource Map” Layer					

	a) Create and display resource icons corresponding to resource types at the coordinates specified in resource records from UNDP Database. (See Appendix B-1)	TRINITY	0%	TBD	30.11.2013	30.11.2013
	b) This is not a permanent map. Successful PROPOSER shall write code to create and replace the map once a month.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	c) Add function for optional inner polygon search. Breakdown of resources in the drawn polygon shall be displayed as a table in the search result pane.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	Add a "Facility inventory Map" Layer					
4.3.5.2	a) Create and display facility inventory icons corresponding to facility types at the coordinates specified in facility inventory records from UNDP Database. (See Appendix B-1)	TRINITY	0%	TBD	30.11.2013	30.11.2013
	b) This is not a permanent map. Successful PROPOSER shall write code to create and replace the map once a month.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	c) Add function for optional inner polygon search. Breakdown of facility inventory in the drawn polygon shall be displayed as a table in the search result pane.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	Add a "Demographic Map" Layer					
4.3.5.3	a) Show a thematic map showing total population by color classification using border of settlements.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	b) This is not a permanent map. Successful PROPOSER shall write code to create and replace the map once a month.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	c) Demographic information will be in a database to be created by UNDP which will become accessible from MKFFIS in mid July 2013. (see Appendix B-2)	TRINITY	0%	TBD	30.11.2013	30.11.2013
	d) Add function for optional inner polygon search. Breakdown of total population of each settlement which is intersected by the drawn polygon shall be displayed in the search result pane.	TRINITY	0%	TBD	30.11.2013	30.11.2013

4.3.5.4	Real-time disaster report from RCMC					
	a) Add a user privilege to enable/disable this function	TRINITY	30%	05.10.2013	01.11.2013	01.11.2013
	b) Users having this privilege are able to send/edit/delete disaster report. Report consists of followings. <ul style="list-style-type: none"> • Geographic information (polygon, line, point, icon) drawn/dropped on the MKFFIS Map Pane • Text information (Details shall be decided by USER) 	TRINITY	30%	05.10.2013	01.11.2013	01.11.2013
	c) Disaster report sent shall be stored in Disaster Report Database. (Successful PROPOSER shall prepare this database).	TRINITY	30%	05.10.2013	01.11.2013	01.11.2013
	d) The report sent, edited, deleted shall be reflected in real time to all the MKFFIS users who are online.	TRINITY	30%	05.10.2013	01.11.2013	01.11.2013
	e) Geographic information sent shall be displayed as a Real-time disaster Map which is one member layer of the CMC Operation Maps. (see Fig.6-A)	TRINITY	30%	05.10.2013	01.11.2013	01.11.2013
	f) Alarm message shall be displayed upon arrival of real-time disaster report. (In a message box for example)	TRINITY	30%	05.10.2013	01.11.2013	01.11.2013
	g) Salvage as much data as possible from ESRI Application created on ArcSDE (see APPENDIX C). Source code is not available for ESRI Application, but user account of ArcSDE database (MSSQL) will be provided.	TRINITY	0%	TBD	01.11.2013	01.11.2013
	h) If type of disaster is forest fire; create a new CMC Forest Fire Report. (Refer to 4.6.1)	TRINITY	0%	TBD	01.11.2013	01.11.2013
4.3.5.5	Search disaster reports					
	a) Add a panel for this search in the second menu item of the accordion menu in Search tab. (see Fig. 10)	TRINITY	0%	TBD	30.11.2013	30.11.2013
	b) Only the filter by CMC classification is required. PEMF classification is not necessary.	TRINITY	0%	TBD	30.11.2013	30.11.2013

	<p>c) Search disaster report panel has following controls:</p> <ul style="list-style-type: none"> • From Date • To Date • GCUK unit selector • RCUK unit selector • Municipality and Settlement selector • Type of events • Search Report button • Clear Result button • Print Result button 	TRINITY	0%	TBD	30.11.2013	30.11.2013
	d) Search result shall be shown in the search result pane.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	e) Color of GCUK or RCUK polygons shall be classified by the number of disasters in the polygons in the specified period.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	f) Result Map shall be displayed as a 'Disaster search result' which is one member layer of the CMC Operation Maps. (see Fig.6-A)	TRINITY	0%	TBD	30.11.2013	30.11.2013
	g) As for Print Result function, format of printed report shall be provided by USER.	TRINITY	0%	TBD	30.11.2013	30.11.2013
4.4	Add New Functions to MKFFIS					
4.4.1	Grid Inforamtion					

	<p>a) Show following information of a MGRS Grid clicked.</p> <ul style="list-style-type: none"> • MGRS Grid code • Summary of resources in the grid (see Appendix B-1). Resources are in a database created by UNDP which is accessible from MKFFIS. • Summary of disaster events in the grid. Disaster events are in a database created by UNDP which is accessible from MKFFIS. • Summary of facility inventories in the grid. Inventories are in a database created by UNDP which is accessible from MKFFIS. • FWI at the center of the grid. FWI grid values are kept as GeoTIFF image. • <input checked="" type="checkbox"/> Vegetation dryness at the center of the grid. Vegetation dryness grid values are kept as GetTIFF image. 	TRINITY	0%	TBD	30.11.2013	30.11.2013
	Demographic information					
4.4.2	<p>a) Show demographic information of an administrative area clicked (National, Municipalities, Settlements). When info button is clicked, show summary, and detail table representation to be shown below on the screen.</p>	TRINITY	0%	TBD	30.11.2013	30.11.2013
	<p>b) Demographic information will be in a database to be created by UNDP which will become accessible from MKFFIS in mid July 2013.</p>	TRINITY	0%	TBD	30.11.2013	30.11.2013
	<p>c) Demographic information to be shown on the info button and detailed table will be decided by USER.</p>	TRINITY	0%	TBD	30.11.2013	30.11.2013
4.4.3	Add means to switch Between MKFFIS for internal purpose and MKFFIS for Public					

	<p>a) Currently, MKFFIS serves for internal purpose controlling available features by user account. But another instance of MKFFIS will be installed on the Internet Server to serve public users. MKFFIS for Public can be opened without login process, but much stronger restriction will be applied. Successful PROPOSER shall add means to switch from MKFFIS for internal purpose to MKFFIS for Public. Following procedure is an example of solution.</p> <ul style="list-style-type: none"> • Define a special user GUEST. • Restriction to the public user will be applied by privilege settings of user GUEST. • Add necessary exceptions applicable to GUEST user. For example, user profile of GUEST user is not kept . • Prepare PUBLIC flag in a configuration file of MKFFIS GIS. • If the flag is OFF, MKFFIS starts normally from the login page. • VI. If the flag is ON, MKFFIS skips login page and starts from the main page, setting user name to GUEST automatically. 	TRINITY	0%	TBD	30.11.2013	30.11.2013
	<p>b) Link to MKFFIS for internal purpose shall be added to the MKFFIS for public.</p>	TRINITY	0%	TBD	30.11.2013	30.11.2013
4.4.4	Add function to fill section 5.1 in P2 report taking meteorological data from AWS.					
	<p>a) Add an AWS select box next to the 'Meteorological Station' text box. (See Fig..11) AWS Names in the select box shall be taken dynamically from the 'meteorologicalstations' table in the CUK database.</p>	SIMT	80%	25.09.2013	09.10.2013	09.10.2013
	<p>b) Search the meteorological data of the selected AWS which is closest to the date/time specified in the '2.2 Detection' text box.</p>	SIMT	80%	25.09.2013	09.10.2013	09.10.2013

	<p>c) If there is no data between 3 hours before and after the date/time specified by the '2.2 Detection' text box, show message 'No AWS data available' and do nothing to the textboxes, otherwise fill following textboxes in the section 5.1 of P2 report.</p> <ul style="list-style-type: none"> • Meteorological Station: (name of meteorological station) • hour: (hour of the meteorological data measured) • Number of days from last raining: (to fill this box some calculation is necessary) • Maximum temperature: (fill maximum temperature of the specified day) • Relative humidity • Wind Speed • Direction (Wind direction) 	SIMT	80%	TBD	09.10.2013	09.10.2013
	Changes requested from Damages department from CMC about forest fire report	SIMT	80%	03.10.2013	09.10.2013	09.10.2013
4.5	Add New Functions/Interface to GFIS					
	Add a link to user manual					
4.5.1	a) Add a link to end user manual of GFIS GIS to the tool bar.	JICA				
	b) Add a link to end user manual of GFIS Planning to the top link.	JICA				
	c) Add a link to end user manual of GFIS Fire Report to the top link.	JICA				
	d) In English mode link to the user manual of English version, and In Macedonian mode link to the user manual of Macedonian version.	JICA				
	Limit available FMU by user privilege					
4.5.2	a) Add a function to the GFIS Admin page in order to specify FMUs under responsibility of each user.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	b) Limit FMUs to display and/or edit according to above privilege.	TRINITY	0%	TBD	30.11.2013	30.11.2013

	c) Limit FMUs shown in the FMU Selector according to above privilege.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	d) Zoom in FMU under responsibility of the user when that user opens GFIS GIS.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	Allow access to past versions of forest plan.					
4.5.3	<p>a) Currently, if a FMU polygon is edited and uploaded, old FMU polygons will be replaced by new FMU polygons. Therefore only the latest FMUs can be seen on GFIS GIS. Successful PROPOSER under the direction of PEMF shall add function to show FMUs in a past date specified by a calendar control. Following procedures are just an example of solution:</p> <ul style="list-style-type: none"> • Add a calendar control to a suitable place on GFIS GIS. • Add attributes (effective from, expired on) to each FMU. • Preset some past date such as 1900.01.01 to 'effective from' and NULL to 'expired on'. • When a new FMU is uploaded, keep the old FMU and set its 'expired on' to the updated date. • Set the updated date to the new FMU's 'effective from' and set NULL to 'expired on'. • When a past date is specified, display FMUs according to their attribute 'effective from' and 'expired on'. 	TRINITY	0%	TBD	30.11.2013	30.11.2013
	Search FMU by year of expiry of special plan					
4.5.4	a) Each FMU has its planning effective for ten years. And the duration is kept in the forest planning database. Successful PROPOSER under the direction of PEMF shall add a function to search FMUs which special plans expire in the year specified.	TRINITY	0%	TBD	30.11.2013	30.11.2013
		SIMT	0%	01.12.2013	TBD	20.12.2013
4.5.5	Change monthly input to daily for form 3, 3a and 5					
		SIMT		15.10.2013	TBD	25.10.2013

	a) Currently, data entry to the form 3, 3a and 5 is carried out on a monthly basis. Successful PROPOSER under the direction of PEMF shall modify the code to cater to daily data entry. And add two options to the print function for these forms, one is daily summary, the other is monthly summary.	SIMT	0%	15.10.2013	TBD	25.10.2013
	Keep annual achievement for 10 years in Form 6					
4.5.6	a) Successful PROPOSER under the direction of PEMF shall modify code and design of Form 6 data entry sheet to keep annual achievement for 10 years for each sub compartment. Items to keep are as follows. <ul style="list-style-type: none"> • Area (ha) • Number of seedlings • Weight of seeds (kg) 	SIMT	0%	26.10.2013	TBD	31.10.2013
	Keep annual achievement for 10 years in Form 8					
4.5.7	a) Successful PROPOSER under the direction of PEMF shall modify code and design of Form 8 data entry sheet to keep annual achievement for 10 years for each sub compartment. Items to keep are as follows. <ul style="list-style-type: none"> • Length of roads (km) • Cleared wood (m3) 	SIMT	0%	01.11.2013	TBD	06.11.2013
	Fill area in Form 1 taken from polygon attribute					
4.5.8	a) Successful PROPOSER under the direction of PEMF shall modify code of Form 1 data entry sheet to fill area automatically taken from the attribute of polygon corresponding to selected sub compartment.	SIMT	0%	20.11.2013	TBD	01.12.2013
	Add National and Regional office level summaries to the reports in Reports/Rekapitulari menu.					
4.5.9	a) Currently, reports under the Reports/Rekapitulari menu are summary of selected FMU. Successful PROPOSER under the direction of PEMF shall add summary of National level and Regional Office level, and add links to corresponding summaries in the menu.	JICA				

	b) FMUs shall be classified by regional office in order to create regional office summary.	SIMT	5%	03.10.2013	TBD	20.10.2013
6.	Improvement related to MKFFIS & GFIS modules					
4.6.1	Modify PEMF Fire Report input module to report by fire.					
	<p>a) Currently fire report is created in PEMF by each sub compartment even in case of one big fire over several compartments. On the other hand, in the CMC fire report (P2 report) is fire based, not sub compartment based. Therefore, a fire report divided into several reports by sub compartment must be merged at CMC to create P2 report for one fire. There are some complaints in PEMF for this process.</p> <ul style="list-style-type: none"> • PEMF does not want redundant data entry. For example, some common fields such as start of fire and end of fire should be entered repeatedly for each related sub compartment. • PEMF has authority to identify a fire over several sub compartments, therefore merging reports by sub compartment into one fire report should be conducted by PEMF. • Fire report from PEMF does not have to be by sub compartment. Report by fire is acceptable. 	SIMT	0%	06.11.2013	TBD	25.11.2013
	b) Because P2 report module has a function to manage a report containing information of multiple sub compartments, applying the same approach to the PEMF fire report will be an elegant solution.	SIMT	0%	06.11.2013	TBD	25.11.2013

	<p>c) Successful PROPOSER under direction of USER shall conduct following modification.</p> <ul style="list-style-type: none"> • Modify current PEMF fire report module on GFIS Fire Report so that it can report by fire by adding functionality to manage information from multiple sub compartments. • Remove MERGE PEMF REPORT function from P2 report module in MKFFIS Fire Report. • Add IMPORT PEMF REPORT function to MKFFIS Fire Report • Adjust P2 Report module on MKFFIS Fire Report to be able to show correctly the Fire report which was imported from PEMF REPORT • Rename P2 Report as CMC Forest Fire Report. • Add 'read-only' user privilege to GFIS Fire Report and MKFFIS Fire Report which allows MKFFIS user to browse PEMF fire report, and allows GFIS user to browse CMC Fire Report. • Printing format of PEMF Fire Report to obtain approval of SiFH shall not be changed. 	SIMT	0%	06.11.2013	TBD	25.11.2013
7.	Performance Tuning					
	Performance tuning of MKFFIS		10%			
4.7.1	<p>a) Currently, there are following complaints about speed.</p> <ul style="list-style-type: none"> • MKFFIS GIS takes very long time to show the login page, if it is accessed over a long distance. For example, accessing from Japan, it takes 90 seconds to open the login page and another 90 • Speed to show FMUs is slow, and from time to time it fails to show them. 	TRINITY	30%	02.10.2013	25.10.2013	25.10.2013
	<p>b) MKFFIS GIS shall be optimized by execution speed.</p>	TRINITY	30%	02.10.2013	25.10.2013	25.10.2013

	c) Optimization is not limited to source code level. All the possible factors shall be taken into account. For example, server configuration, deployment of files, network structure, use of external servers (Google server for jQuery), indexing of tables in databases, etc.	TRINITY	10%	02.10.2013	25.10.2013	25.10.2013
	d) Improvement of performance should be shown quantitatively.	TRINITY	15%	02.10.2013	25.10.2013	25.10.2013
	Performance tuning of GFIS					
4.7.2	a) Currently, there are following complaints about speed which are similar to MKFFIS GIS. <ul style="list-style-type: none"> • GFIS GIS takes very long time to show the login page, if it is accessed over a long distance. • Speed to show FMUs is slow, and from time to time it fails to show them. 	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013
	b) GFIS GIS shall be optimized by execution speed	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013
	c) Optimization is not limited to source code level. All the possible factors shall be taken into account. For example, server configuration, deployment of files, network structure, use of external servers (Google server for jQuery), indexing of tables in databases, etc.	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013
	d) Improvement of performance should be shown quantitatively.	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013
8.	Installation/QA/Training/Documentation					
4.8.1	MKFFIS and GIS Installation, Quality Assurance, Training, Documentation					
4.8.2	GFIS and GIS Installation, Quality Assurance, Training, Documentation					

4.2 Improve MKFFIS User Interface

4.2.1 The functionality of the tree view has been completed. It reads and creates it dynamically from a postgresql database table. The only thing remaining is to link the administrators panel with the database and create new and improved form for entering the layers.

4.2.3 The calendar control function is under development. For the hotspot maps the plan is to publish all of the information in one shape file per hotspot map and the viewing will be filter based (from the attribute date in each of the layers).

4.3 Add New Layers / Improve Layers

4.3.1 Improve Vegetation map Layer by including National Parks **TRINITY**

Target: MKFFIS GIS and GFIS GIS

We are waiting for the shape files of the National Parks so that we can implement them in the database and the Geoserver.

4.3.5.4 Real-time disaster report from RCMC **TRINITY & SIMT**

Target: MKFFIS GIS

A draft version for the Disaster report event and reports has been created. The information in the database is currently only for the fire events. A closer look should be cast in Thursday's meeting for the appropriate format of entering the data and functionality.

4.4 Add New Functions to MKFFIS

4.4.4 Add function to fill section 5.1 in P2 report taking meteorological data from AWS. **SIMT**

Target: MKFFIS Fire Report

This functionality is done with programing and internal testing. Demo version is on test server at CMC.

4.5 Add New Functions/Interface to GFIS

4.5.4 Search FMU by year of expiry of special plan **TRINITY & SIMT**

Target: GFIS GIS

4.5.5 Change monthly input to daily for form 3, 3a and 5 **SIMT**

Target: GFIS Planning

4.5.6 Keep annual achievement for 10 years in Form 6 **SIMT**

Target: GFIS Planning

4.5.7 Keep annual achievement for 10 years in Form 8 **SIMT**

Target: GFIS Planning

4.5.8 Fill area in Form 1 taken from polygon attribute **SIMT**

Target: GFIS Planning

4.5.9 Add National and Regional office level summaries to the reports in Reports/Rekapitulari menu. **SIMT**

Target: GFIS Planning

These reports are done for Macedonian version – with testing:

- 1. Composition of plantations report*
- 2. Form of cultivation report*

3. *Economy class report*
4. *Growing ratio report*
5. *Place of growth report*
6. *Within report*
7. *Aspect report*

It can be seen at test server at CMC.

4.6 Improvement related to both MKFFIS and GFIS modules

4.6.1 Modify PEMF Fire Report input module to report by fire. **SIMT**

4.7.1 Trinity extensively works on finding ways of fixing the performance issues. Unnecessary scripts are being deleted, performance tuning on the loading of the layers is done, external loading of the scripts is done etc.

- SD 2 -

WEEKLY PROGRESS REPORT No.3
For period from October 9th to October 16th, 2013

Author: EDUSOFT, SIMT, TRINITY

Creation Date: October 16th, 2013

Seq.No	Task Description	Assignee	Current % of progress	Start Date	End Date	Target date
4.2	Improve MKFFIS User Interface					
	Reform MKFFIS Left pane					
	a) Remove Accordion menu, Navigation and Layers button from the left pane.	TRINITY	90%	02.10.2013	18.10.2013	10.10.2013
	b) Add Tab control with five tabs.	TRINITY	90%	02.10.2013	18.10.2013	10.10.2013
	c) Deploy Layers panel in the first tab named 'Layers'. This tab should be a default. (See Fig. 7)	TRINITY		02.10.2013	18.10.2013	10.10.2013
	d) Deploy Map Selector in the second tab named 'Maps'. Show hierarchy of each map using a tree view control, except vegetation map. Show only the root node for vegetation map in the tree view. (See Fig.6) Because vegetation map has a lot of FMUs as its children, FMU selector should be accommodated in a separate tab (e). (See Fig. 8)	TRINITY	90%	02.10.2013	26.10.2013	10.10.2013
4.2.1	e) Deploy FMU selector in the third tab named 'FMU'. (See Fig. 8)	TRINITY	90%	02.10.2013	18.10.2013	10.10.2013
	f) Deploy an accordion menu with two menu items in the fourth tab named 'Search'. Deploy Search Forest History panel in the first accordion menu item. (See Fig. 10)	TRINITY	40%	02.10.2013	18.10.2013	10.10.2013
	g) Deploy AWS Overview panel in the fifth tab named 'AWS'. (See Fig. 9)	TRINITY	40%	02.10.2013	18.10.2013	10.10.2013
	h) Tab names should be displayed in the language specified by the current language mode.	TRINITY	0%	02.10.2013	18.10.2013	10.10.2013
	i) Layer settings in the Layers panel (Order of the layers, selected maps) and selected maps in the Map Selector and FMU selector shall be kept in a table with a relation to the user account, and when the user logs in again, the settings shall be restored.	TRINITY	0%	TBD	20.11.2013	20.11.2013
	Add a link to user manual		%			
4.2.2	a) Add a link to end user manual of MKFFIS GIS to the tool bar.	jica	0%	TBD	20.11.2013	20.11.2013

	b) Add a link to end user manual of MKFFIS Fire Report to the top link.	jica	0%	TBD	20.11.2013	20.11.2013
	c) In English mode link to the user manual of English version, and In Macedonian mode link to the user manual of Macedonian version.	jica	0%	TBD	20.11.2013	20.11.2013
4.2.3	Change background image seasonally		%			
	a) Change background image on the login page seasonally. Image for each season will be provided by USER.		80%	TBD	20.11.2013	20.11.2013
4.2.4	Add a common calendar control					
	a) Currently, vegetation dryness map (VDM) and FWI map have their own calendar control independently. And each hotspot (Seviri, Modis and Modis raw) has selections of 1 day ago, 2 days ago and 3 days ago.	TRINITY	60%	04.10.2013	26.10.2013	15.10.2013
	b) Remove the calendar control for VDM and FWI map.	TRINITY	60%	04.10.2013	26.10.2013	15.10.2013
	c) Remove the hot spot selections: 1 day ago, 2 days ago and 3 days ago.	TRINITY	60%	04.10.2013	26.10.2013	15.10.2013
	d) Rename hot spot selections: 'Seviri (Today)' as 'Seviri', 'Modis (Today)' as 'Modis'.	TRINITY	60%	04.10.2013	26.10.2013	15.10.2013
	e) Add a calendar control with label 'Date' on the space where currently 'Navigation' is there. (See Fig. 7)	TRINITY	60%	TBD	26.10.2013	20.11.2013
	f) Add a check box with label 'Now' next to the above calendar control. 'Now' shall be checked by default. *Labels should be in the language specified by current language mode.	TRINITY	60%	TBD	26.10.2013	20.11.2013
	g) Modify code as follows: <ul style="list-style-type: none"> • When a past day is specified by the calendar control, clear 'Now' check box, show VDM, FWI map, hotspots and real-time disaster report (see 4.3.5.4) of the day specified. • When 'Now' check box is checked, show vegetation map, FWI map, hotspots and real-time disaster report of the current day, and keep updating these four real-time maps. 	TRINITY	20%	04.10.2013	26.10.2013	15.10.2013

4.2.5	Display FWI Map of the previous day until today's FWI Map becomes available					
	a) Currently, FWI Map is not shown until a day is specified by its calendar control.	TRINITY	0%	TBD	26.10.2013	20.11.2013
	b) Modify code as follows: When 'Now' is checked (it is checked by default) FWI Map of now should be displayed. But FWI Map is created almost every day at 2pm. Therefore, it shall be displayed by the following rule. <ul style="list-style-type: none"> •If FWI Map of the current day exists now, display it. •Otherwise display FWI Map of one day before, if such exists. •Otherwise don't display FWI Map. 	TRINITY	0%	TBD	26.10.2013	20.11.2013
4.2.6	Relocate vegetation map's attribute selector from Layers panel to the top of FMU selector					
	a) Currently, attribute selectors of vegetation map are located in the Layers panel for each FMU (See Appendix A.4)	TRINITY	0%	TBD	20.11.2013	20.11.2013
	b) Remove all the attribute selectors from the Layers panel.	TRINITY	0%	TBD	20.11.2013	20.11.2013
	c) Add one attribute selector to the top line of FMU selector accommodated in the FMU Tab. (See Fig. 8)	TRINITY	0%	TBD	20.11.2013	20.11.2013
	d) Modify code to apply the selected attribute to all the FMUs.	TRINITY	0%	TBD	20.11.2013	20.11.2013
4.3	Add New Layers / Improve Layers					
4.3.1	Improve Vegetation map Layer by including National Parks					
	a) Shape files for three national parks will be provided from PURCHASER/USER. (*Related data set cleaning in progress by SIMT)	TRINITY	0%	TBD	20.11.2013	20.11.2013

	<p>b) Classification of species of National parks is not compatible to PEMF classification. So, Classification shall be converted to be compatible to PEMF's according to direction of PURCHASER/USER.</p> <p>(*Related classification of species in progress by SIMT)</p>	TRINITY	0%	TBD	20.11.2013	20.11.2013
	<p>c) Add each National park FMU polygon as a member of PEMF FMU group.</p>	TRINITY	0%	TBD	20.11.2013	20.11.2013
4.3.2	Improve Vegetation map Layer by including Protected area Zone 1					
	<p>a) Shape files for Protected area Zone 1 will be provided from PURCHASER/USER. They don't contain attributes.</p>	TRINITY	0%	TBD	30.11.2013	30.11.2013
	<p>b) Add each Protected area Zone 1 polygon as a member of PEMF FMU group.</p>	TRINITY	0%	TBD	30.11.2013	30.11.2013
4.3.3	Add a New Layer for MGRS Grid					
	<p>a) Add MGRS grid.</p>	TRINITY	0%	TBD	30.11.2013	30.11.2013
	<p>b) Idea of implementation of MGRS grid can be obtained from http://dhost.info/usngweb/ (* definition of MGRS grid is different from definition of U.S. National Grid)</p>	TRINITY	0%	TBD	30.11.2013	30.11.2013
	<p>c) Definition of MGRS Grid can be obtained from http://earth-info.nga.mil/GandG/coordsys/grids/mgrs.doc</p>	TRINITY	0%	TBD	30.11.2013	30.11.2013
	<p>d) Suitable grids according to current zoom-in factor shall be selectable from Zone, 100km, 10km, 1km, 100m and 10m.</p>	TRINITY	0%	TBD	30.11.2013	30.11.2013
4.3.4	Add a new Layer "Damage Forest Value Map"					
	<p>a) Add a user privilege to enable/disable to access this map. When this layer is selected following functions shall be enabled.</p>	TRINITY	0%	TBD	30.11.2013	30.11.2013
	<p>b) Allow users to draw a polygon</p>	TRINITY	0%	TBD	30.11.2013	30.11.2013
	<p>c) Find intersections of the drawn polygon and subcompartments</p>	TRINITY	0%	TBD	30.11.2013	30.11.2013

	<p>d) As table form, the following data shall be shown for the intersected area:</p> <ul style="list-style-type: none"> • CompartmentNo./SubCompartmentNo. • Intersected Area (ha) • Total Area of Subcompartment (ha) This value should be taken from Form9 of Inventory for corresponding subcompartment • % of intersected area over total area of subcompartment This value should be calculated by Intersected Area / total area of subcompartment x 100 • Value for the intersected area This value should be calculated as Value of Forest x % of intersected area where Value of Forest area shall be taken from corresponding field in Form 9 of Inventory • Total Value for the intersected areas 	TRINITY	0%	TBD	30.11.2013	30.11.2013
	<p>e) Result intersection polygons shall be displayed in this layer with a color classification according to the total value for the intersected areas. User shall provide classification of colors by value.</p>	TRINITY	0%	TBD	30.11.2013	30.11.2013
4.3.5	Add new layer group – CMC Operation Maps					
4.3.5	<p>a) Add a user privilege to enable/disable to access this Layer group.</p>	TRINITY	0%	TBD	30.11.2013	30.11.2013
	<p>b) When this layer group is selected, user is allowed to draw a polygon which is used for inner polygon searches enabled by corresponding inner polygon search switches. (see Fig.6-A)</p>	TRINITY	0%	TBD	30.11.2013	30.11.2013
	<p>c) State of inner polygon search switches shall be kept in a table with a relation to the user account, and when the user logs in again, the state shall be restored.</p>	TRINITY	0%	TBD	30.11.2013	30.11.2013
	<p>d) The node of “CMC Operation Maps” shall be expanded by default.</p>	TRINITY	0%	TBD	30.11.2013	30.11.2013
4.3.5.1	Add a “Resource Map” Layer					

	a) Create and display resource icons corresponding to resource types at the coordinates specified in resource records from UNDP Database. (See Appendix B-1)	TRINITY	0%	TBD	30.11.2013	30.11.2013
	b) This is not a permanent map. Successful PROPOSER shall write code to create and replace the map once a month.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	c) Add function for optional inner polygon search. Breakdown of resources in the drawn polygon shall be displayed as a table in the search result pane.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	Add a "Facility inventory Map" Layer					
	a) Create and display facility inventory icons corresponding to facility types at the coordinates specified in facility inventory records from UNDP Database. (See Appendix B-1)	TRINITY	0%	TBD	30.11.2013	30.11.2013
4.3.5.2	b) This is not a permanent map. Successful PROPOSER shall write code to create and replace the map once a month.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	c) Add function for optional inner polygon search. Breakdown of facility inventory in the drawn polygon shall be displayed as a table in the search result pane.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	Add a "Demographic Map" Layer					
	a) Show a thematic map showing total population by color classification using border of settlements.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	b) This is not a permanent map. Successful PROPOSER shall write code to create and replace the map once a month.	TRINITY	0%	TBD	30.11.2013	30.11.2013
4.3.5.3	c) Demographic information will be in a database to be created by UNDP which will become accessible from MKFFIS in mid July 2013. (see Appendix B-2)	TRINITY	0%	TBD	30.11.2013	30.11.2013
	d) Add function for optional inner polygon search. Breakdown of total population of each settlement which is intersected by the drawn polygon shall be displayed in the search result pane.	TRINITY	0%	TBD	30.11.2013	30.11.2013

	Real-time disaster report from RCMC					
	a) Add a user privilege to enable/disable this function	TRINITY	30%	05.10.2013	01.11.2013	01.11.2013
	b) Users having this privilege are able to send/edit/delete disaster report. Report consists of followings. <ul style="list-style-type: none"> • Geographic information (polygon, line, point, icon) drawn/dropped on the MKFFIS Map Pane • Text information (Details shall be decided by USER) 	TRINITY	30%	05.10.2013	01.11.2013	01.11.2013
	c) Disaster report sent shall be stored in Disaster Report Database. (Successful PROPOSER shall prepare this database).	TRINITY	30%	05.10.2013	01.11.2013	01.11.2013
	d) The report sent, edited, deleted shall be reflected in real time to all the MKFFIS users who are online.	TRINITY	30%	05.10.2013	01.11.2013	01.11.2013
4.3.5.4	e) Geographic information sent shall be displayed as a Real-time disaster Map which is one member layer of the CMC Operation Maps. (see Fig.6-A)	TRINITY	30%	05.10.2013	01.11.2013	01.11.2013
	f) Alarm message shall be displayed upon arrival of real-time disaster report. (In a message box for example)	TRINITY	30%	05.10.2013	01.11.2013	01.11.2013
	g) Salvage as much data as possible from ESRI Application created on ArcSDE (see APPENDIX C). Source code is not available for ESRI Application, but user account of ArcSDE database (MSSQL) will be provided.	TRINITY	0%	TBD	01.11.2013	01.11.2013
	h) If type of disaster is forest fire; create a new CMC Forest Fire Report. (Refer to 4.6.1)	TRINITY	0%	TBD	01.11.2013	01.11.2013
	Search disaster reports					
4.3.5.5	a) Add a panel for this search in the second menu item of the accordion menu in Search tab. (see Fig. 10)	TRINITY	0%	TBD	30.11.2013	30.11.2013
	b) Only the filter by CMC classification is required. PEMF classification is not necessary.	TRINITY	0%	TBD	30.11.2013	30.11.2013

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	<p>c) Search disaster report panel has following controls:</p> <ul style="list-style-type: none"> • From Date • To Date • GCUK unit selector • RCUK unit selector • Municipality and Settlement selector • Type of events • Search Report button • Clear Result button • Print Result button 	TRINITY	0%	TBD	30.11.2013	30.11.2013
	d) Search result shall be shown in the search result pane.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	e) Color of GCUK or RCUK polygons shall be classified by the number of disasters in the polygons in the specified period.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	f) Result Map shall be displayed as a 'Disaster search result' which is one member layer of the CMC Operation Maps. (see Fig.6-A)	TRINITY	0%	TBD	30.11.2013	30.11.2013
	g) As for Print Result function, format of printed report shall be provided by USER.	TRINITY	0%	TBD	30.11.2013	30.11.2013
4.4	Add New Functions to MKFFIS					
4.4.1	Grid Information					

	<p>a) Show following information of a MGRS Grid clicked.</p> <ul style="list-style-type: none"> • MGRS Grid code • Summary of resources in the grid (see Appendix B-1). Resources are in a database created by UNDP which is accessible from MKFFIS. • Summary of disaster events in the grid. Disaster events are in a database created by UNDP which is accessible from MKFFIS. • Summary of facility inventories in the grid. Inventories are in a database created by UNDP which is accessible from MKFFIS. • FWI at the center of the grid. FWI grid values are kept as GeoTIFF image. • <input checked="" type="checkbox"/> Vegetation dryness at the center of the grid. Vegetation dryness grid values are kept as GetTIFF image. 	TRINITY	0%	TBD	30.11.2013	30.11.2013
	Demographic information					
4.4.2	<p>a) Show demographic information of an administrative area clicked (National, Municipalities, Settlements). When info button is clicked, show summary, and detail table representation to be shown below on the screen.</p>	TRINITY	0%	TBD	30.11.2013	30.11.2013
	<p>b) Demographic information will be in a database to be created by UNDP which will become accessible from MKFFIS in mid July 2013.</p>	TRINITY	0%	TBD	30.11.2013	30.11.2013
	<p>c) Demographic information to be shown on the info button and detailed table will be decided by USER.</p>	TRINITY	0%	TBD	30.11.2013	30.11.2013
4.4.3	Add means to switch Between MKFFIS for internal purpose and MKFFIS for Public					

	<p>a) Currently, MKFFIS serves for internal purpose controlling available features by user account. But another instance of MKFFIS will be installed on the Internet Server to serve public users. MKFFIS for Public can be opened without login process, but much stronger restriction will be applied. Successful PROPOSER shall add means to switch from MKFFIS for internal purpose to MKFFIS for Public. Following procedure is an example of solution.</p> <ul style="list-style-type: none"> • Define a special user GUEST. • Restriction to the public user will be applied by privilege settings of user GUEST. • Add necessary exceptions applicable to GUEST user. For example, user profile of GUEST user is not kept . • Prepare PUBLIC flag in a configuration file of MKFFIS GIS. • If the flag is OFF, MKFFIS starts normally from the login page. • VI. If the flag is ON, MKFFIS skips login page and starts from the main page, setting user name to GUEST automatically. 	TRINITY	0%	TBD	30.11.2013	30.11.2013
	<p>b) Link to MKFFIS for internal purpose shall be added to the MKFFIS for public.</p>	TRINITY	0%	TBD	30.11.2013	30.11.2013
4.4.4	Add function to fill section 5.1 in P2 report taking meteorological data from AWS.					
	<p>a) Add an AWS select box next to the 'Meteorological Station' text box. (See Fig..11) AWS Names in the select box shall be taken dynamically from the 'meteorologicalstations' table in the CUK database.</p>	SIMT	90%	25.09.2013	09.10.2013	09.10.2013
	<p>b) Search the meteorological data of the selected AWS which is closest to the date/time specified in the '2.2 Detection' text box.</p>	SIMT	90%	25.09.2013	09.10.2013	09.10.2013

	<p>c) If there is no data between 3 hours before and after the date/time specified by the '2.2 Detection' text box, show message 'No AWS data available' and do nothing to the textboxes, otherwise fill following textboxes in the section 5.1 of P2 report.</p> <ul style="list-style-type: none"> • Meteorological Station: (name of meteorological station) • hour: (hour of the meteorological data measured) • Number of days from last raining: (to fill this box some calculation is necessary) • Maximum temperature: (fill maximum temperature of the specified day) • Relative humidity • Wind Speed • Direction (Wind direction) 	SIMT	90%	25.09.2013	09.10.2013	09.10.2013
	Changes requested from Damages department from CMC about forest fire report	SIMT	90%	03.10.2013	09.10.2013	09.10.2013
4.5	Add New Functions/Interface to GFIS					
	Add a link to user manual					
4.5.1	a) Add a link to end user manual of GFIS GIS to the tool bar.	JICA				
	b) Add a link to end user manual of GFIS Planning to the top link.	JICA				
	c) Add a link to end user manual of GFIS Fire Report to the top link.	JICA				
	d) In English mode link to the user manual of English version, and In Macedonian mode link to the user manual of Macedonian version.	JICA				
	Limit available FMU by user privilege					
4.5.2	a) Add a function to the GFIS Admin page in order to specify FMUs under responsibility of each user.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	b) Limit FMUs to display and/or edit according to above privilege.	TRINITY	0%	TBD	30.11.2013	30.11.2013

	c) Limit FMUs shown in the FMU Selector according to above privilege.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	d) Zoom in FMU under responsibility of the user when that user opens GFIS GIS.	TRINITY	0%	TBD	30.11.2013	30.11.2013
	Allow access to past versions of forest plan.					
4.5.3	<p>a) Currently, if a FMU polygon is edited and uploaded, old FMU polygons will be replaced by new FMU polygons. Therefore only the latest FMUs can be seen on GFIS GIS. Successful PROPOSER under the direction of PEMF shall add function to show FMUs in a past date specified by a calendar control. Following procedures are just an example of solution:</p> <ul style="list-style-type: none"> • Add a calendar control to a suitable place on GFIS GIS. • Add attributes (effective from, expired on) to each FMU. • Preset some past date such as 1900.01.01 to 'effective from' and NULL to 'expired on'. • When a new FMU is uploaded, keep the old FMU and set its 'expired on' to the updated date. • Set the updated date to the new FMU's 'effective from' and set NULL to 'expired on'. • When a past date is specified, display FMUs according to their attribute 'effective from' and 'expired on'. 	TRINITY	0%	TBD	30.11.2013	30.11.2013
	Search FMU by year of expiry of special plan					
4.5.4	a) Each FMU has its planning effective for ten years. And the duration is kept in the forest planning database. Successful PROPOSER under the direction of PEMF shall add a function to search FMUs which special plans expire in the year specified.	SIMT	0%	01.12.2013	TBD	20.12.2013
4.5.5	Change monthly input to daily for form 3, 3a and 5		SIMT	15.10.2013	25.10.2013	25.10.2013

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	a) Currently, data entry to the form 3, 3a and 5 is carried out on a monthly basis. Successful PROPOSER under the direction of PEMF shall modify the code to cater to daily data entry. And add two options to the print function for these forms, one is daily summary, the other is monthly summary.	SIMT	10%	15.10.2013	25.10.2013	25.10.2013
	Keep annual achievement for 10 years in Form 6					
4.5.6	a) Successful PROPOSER under the direction of PEMF shall modify code and design of Form 6 data entry sheet to keep annual achievement for 10 years for each sub compartment. Items to keep are as follows. <ul style="list-style-type: none"> • Area (ha) • Number of seedlings • Weight of seeds (kg) 	SIMT	0%	26.10.2013	TBD	31.10.2013
	Keep annual achievement for 10 years in Form 8					
4.5.7	a) Successful PROPOSER under the direction of PEMF shall modify code and design of Form 8 data entry sheet to keep annual achievement for 10 years for each sub compartment. Items to keep are as follows. <ul style="list-style-type: none"> • Length of roads (km) • Cleared wood (m3) 	SIMT	0%	01.11.2013	TBD	06.11.2013
	Fill area in Form 1 taken from polygon attribute					
4.5.8	a) Successful PROPOSER under the direction of PEMF shall modify code of Form 1 data entry sheet to fill area automatically taken from the attribute of polygon corresponding to selected sub compartment.	SIMT	0%	20.11.2013	TBD	01.12.2013
	Add National and Regional office level summaries to the reports in Reports/Rekapitulari menu.					
4.5.9	a) Currently, reports under the Reports/Rekapitulari menu are summary of selected FMU. Successful PROPOSER under the direction of PEMF shall add summary of National level and Regional Office level, and add links to corresponding summaries in the menu.	SIMT	80%			

	b) FMUs shall be classified by regional office in order to create regional office summary.	SIMT	80%	03.10.2013	TBD	20.10.2013
6.	Improvement related to MKFFIS & GFIS modules					
4.6.1	Modify PEMF Fire Report input module to report by fire.					
	<p>a) Currently fire report is created in PEMF by each sub compartment even in case of one big fire over several compartments. On the other hand, in the CMC fire report (P2 report) is fire based, not sub compartment based. Therefore, a fire report divided into several reports by sub compartment must be merged at CMC to create P2 report for one fire. There are some complaints in PEMF for this process.</p> <ul style="list-style-type: none"> • PEMF does not want redundant data entry. For example, some common fields such as start of fire and end of fire should be entered repeatedly for each related sub compartment. • PEMF has authority to identify a fire over several sub compartments, therefore merging reports by sub compartment into one fire report should be conducted by PEMF. • Fire report from PEMF does not have to be by sub compartment. Report by fire is acceptable. 	SIMT	0%	06.11.2013	TBD	25.11.2013
	b) Because P2 report module has a function to manage a report containing information of multiple sub compartments, applying the same approach to the PEMF fire report will be an elegant solution.	SIMT	0%	06.11.2013	TBD	25.11.2013

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	<p>c) Successful PROPOSER under direction of USER shall conduct following modification.</p> <ul style="list-style-type: none"> • Modify current PEMF fire report module on GFIS Fire Report so that it can report by fire by adding functionality to manage information from multiple sub compartments. • Remove MERGE PEMF REPORT function from P2 report module in MKFFIS Fire Report. • Add IMPORT PEMF REPORT function to MKFFIS Fire Report • Adjust P2 Report module on MKFFIS Fire Report to be able to show correctly the Fire report which was imported from PEMF REPORT • Rename P2 Report as CMC Forest Fire Report. • Add 'read-only' user privilege to GFIS Fire Report and MKFFIS Fire Report which allows MKFFIS user to browse PEMF fire report, and allows GFIS user to browse CMC Fire Report. • Printing format of PEMF Fire Report to obtain approval of SiFH shall not be changed. 	SIMT	0%	06.11.2013	TBD	25.11.2013
7.	Performance Tuning					
	Performance tuning of MKFFIS		10%			
4.7.1	<p>a) Currently, there are following complaints about speed.</p> <ul style="list-style-type: none"> • MKFFIS GIS takes very long time to show the login page, if it is accessed over a long distance. For example, accessing from Japan, it takes 90 seconds to open the login page and another 90 • Speed to show FMUs is slow, and from time to time it fails to show them. 	TRINITY	30%	02.10.2013	25.10.2013	25.10.2013
	<p>b) MKFFIS GIS shall be optimized by execution speed.</p>	TRINITY	30%	02.10.2013	25.10.2013	25.10.2013

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	c) Optimization is not limited to source code level. All the possible factors shall be taken into account. For example, server configuration, deployment of files, network structure, use of external servers (Google server for jQuery), indexing of tables in databases, etc.	TRINITY	10%	02.10.2013	25.10.2013	25.10.2013
	d) Improvement of performance should be shown quantitatively.	TRINITY	15%	02.10.2013	25.10.2013	25.10.2013
	Performance tuning of GFIS					
4.7.2	a) Currently, there are following complaints about speed which are similar to MKFFIS GIS. <ul style="list-style-type: none"> • GFIS GIS takes very long time to show the login page, if it is accessed over a long distance. • Speed to show FMUs is slow, and from time to time it fails to show them. 	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013
	b) GFIS GIS shall be optimized by execution speed	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013
	c) Optimization is not limited to source code level. All the possible factors shall be taken into account. For example, server configuration, deployment of files, network structure, use of external servers (Google server for jQuery), indexing of tables in databases, etc.	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013
	d) Improvement of performance should be shown quantitatively.	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013
8.	Installation/QA/Training/Documentation					
4.8.1	MKFFIS and GIS Installation, Quality Assurance, Training, Documentation					
4.8.2	GFIS and GIS Installation, Quality Assurance, Training, Documentation					

4.2 Improve MKFFIS User Interface

4.2.1 The functionality of the tree view has been completed. It reads and creates it dynamically from a postgresql database table. The only thing remaining is to link the administrators panel with the database and create new and improved form for entering the layers. The FMU selector is being applied as well as the AWS and Forest Fire History search. These two option in their full functionality should be done by 01.11.2013

4.2.3 The calendar control function is under development. For the hotspot maps the plan is to publish all of the information in one shape file per hotspot map and the viewing will be filter based (from the attribute date in each of the layers). This functionality shall be completed by 26.10.2013.

4.3 Add New Layers / Improve Layers

4.3.1 Improve Vegetation map Layer by including National Parks **TRINITY**

Target: MKFFIS GIS and GFIS GIS

We are waiting for the shape files of the National Parks so that we can implement them in the database and the Geoserver.

4.3.5.4 Real-time disaster report from RCMC **TRINITY & SIMT**

Target: MKFFIS GIS

A draft version for the Disaster report event and reports has been created. The information in the database is currently only for the fire events. A closer look should be cast in Thursday's meeting for the appropriate format of entering the data and functionality.

The reporting phase is nearly completed. We have fully completed a report for a snowfall event to be shown on Monday.

4.4 Add New Functions to MKFFIS

4.4.4 Add function to fill section 5.1 in P2 report taking meteorological data from AWS. **SIMT**

Target: MKFFIS Fire Report

Changes were made in the method for taking the date time of the fire – to work correct for Macedonian and English version. New version of demo is on test server.

4.5 Add New Functions/Interface to GFIS

4.5.4 Search FMU by year of expiry of special plan **TRINITY & SIMT**

Target: GFIS GIS

4.5.5 Change monthly input to daily for form 3, 3a and 5 **SIMT**

Target: GFIS Planning

New fields were added in the database, new views in the database are created and design form for form3a is created with all input fields and validations.

4.5.6 Keep annual achievement for 10 years in Form 6 **SIMT**

Target: GFIS Planning

4.5.7 Keep annual achievement for 10 years in Form 8 **SIMT**

Target: GFIS Planning

4.5.8 Fill area in Form 1 taken from polygon attribute **SIMT**

Target: GFIS Planning

4.5.9 Add National and Regional office level summaries to the reports in Reports/Rekapitulari menu. **SIMT**

Target: GFIS Planning

All reports are done, for Macedonian and English version, and we are testing if results are correct.

It can be seen at test server at CMC.

4.6 Improvement related to both MKFFIS and GFIS modules

4.6.1 Modify PEMF Fire Report input module to report by fire. **SIMT**

4.7.1 Trinity extensively works on finding ways of fixing the performance issues. Unnecessary scripts are being deleted, performance tuning on the loading of the layers is done, external loading of the scripts is done etc.

- SD 2 -

WEEKLY PROGRESS REPORT No.4
For period from October 17th to October 24th, 2013

Author: EDUSOFT, SIMT, TRINITY

Creation Date: October 24th, 2013

Seq.No	Task Description	Assignee	Current % of progress	DATES			
				Planned Start	Planned End	Contracted/ Targeted	Tested Accepted by Purchaser User
4.2	Improve MKFFIS User Interface						
4.2.1	Reform MKFFIS Left pane						
	a) Remove Accordion menu, Navigation and Layers button from the left pane.	TRINITY	100%	02.10.2013	18.10.2013	10.10.2013	
	b) Add Tab control with five tabs.	TRINITY	100%	02.10.2013	18.10.2013	10.10.2013	
	c) Deploy Layers panel in the first tab named 'Layers'. This tab should be a default. (See Fig. 7)	TRINITY		02.10.2013	18.10.2013	10.10.2013	
	d) Deploy Map Selector in the second tab named 'Maps'. Show hierarchy of each map using a tree view control, except vegetation map. Show only the root node for vegetation map in the tree view. (See Fig.6) Because vegetation map has a lot of FMUs as its children, FMU selector should be accommodated in a separate tab (e). (See Fig. 8)	TRINITY	100%	02.10.2013	26.10.2013	10.10.2013	
	e) Deploy FMU selector in the third tab named 'FMU'. (See Fig. 8)	TRINITY	100%	02.10.2013	18.10.2013	10.10.2013	
	f) Deploy an accordion menu with two menu items in the fourth tab named 'Search'. Deploy Search Forest History panel in the first accordion menu item. (See Fig. 10)	TRINITY	40%	02.10.2013	01.12.2013	01.12.2013	
	g) Deploy AWS Overview panel in the fifth tab named 'AWS'. (See Fig. 9)	TRINITY	40%	02.10.2013	01.12.2013	01.12.2013	
	h) Tab names should be displayed in the language specified by the current language mode.	TRINITY	0%	02.10.2013	31.12.2013	31.12.2013	

	i) Layer settings in the Layers panel (Order of the layers, selected maps) and selected maps in the Map Selector and FMU selector shall be kept in a table with a relation to the user account, and when the user logs in again, the settings shall be restored.	TRINITY	0%	TBD	31.12.2013	31.12.2013	
4.2.2	Add a link to user manual		%				
	a) Add a link to end user manual of MKFFIS GIS to the tool bar.	JICA	0%	TBD	20.11.2013	20.11.2013	
	b) Add a link to end user manual of MKFFIS Fire Report to the top link.	JICA	0%	TBD	20.11.2013	20.11.2013	
	c) In English mode link to the user manual of English version, and In Macedonian mode link to the user manual of Macedonian version.	JICA	0%	TBD	20.11.2013	20.11.2013	
4.2.3	Change background image seasonally		%				
	a) Change background image on the login page seasonally. Image for each season will be provided by USER.		80%	TBD	20.11.2013	20.11.2013	
4.2.4	Add a common calendar control						
	a) Currently, vegetation dryness map (VDM) and FWI map have their own calendar control independently. And each hotspot (Seviri, Modis and Modis raw) has selections of 1 day ago, 2 days ago and 3 days ago.	TRINITY	100%	.04.10.2013	26.10.2013	15.10.2013	
	b) Remove the calendar control for VDM and FWI map.	TRINITY	100%	04.10.2013	26.10.2013	15.10.2013	
	c) Remove the hot spot selections: 1 day ago, 2 days ago and 3 days ago.	TRINITY	60%	04.10.2013	26.10.2013	15.10.2013	
	d) Rename hot spot selections: 'Seviri (Today)' as 'Seviri', 'Modis (Today)' as 'Modis'.	TRINITY	60%	04.10.2013	26.10.2013	15.10.2013	
	e) Add a calendar control with label 'Date' on the space where currently 'Navigation' is there. (See Fig. 7)	TRINITY	100%	TBD	26.10.2013	20.11.2013	
	f) Add a check box with label 'Now' next to the above calendar control. 'Now' shall be checked by default. *Labels should be in the language specified by current language mode.	TRINITY	100%	TBD	26.10.2013	20.11.2013	

	<p>g) Modify code as follows:</p> <ul style="list-style-type: none"> • When a past day is specified by the calendar control, clear 'Now' check box, and show VDM, FWI map hotspots and real-time disaster report (see 4.3.5.4) of the day specified. • When 'Now' check box is checked, show vegetation map, FWI map, hotspots and real-time disaster report of the current day, and keep updating these four real-time maps. 	TRINITY	100%	04.10.2013	26.10.2013		15.10.2013
4.2.5	Display FWI Map of the previous day until today's FWI Map becomes available						
	<p>a) Currently, FWI Map is not shown until a day is specified by its calendar control.</p>	TRINITY	100%	TBD	26.10.2013	20.11.2013	
	<p>b) Modify code as follows: When 'Now' is checked (it is checked by default) FWI Map of now should be displayed. But FWI Map is created almost every day at 2pm. Therefore, it shall be displayed by the following rule.</p> <ul style="list-style-type: none"> • If FWI Map of the current day exists now, display it. • Otherwise display FWI Map of one day before, if such exists. • Otherwise don't display FWI Map. 	TRINITY	100%	TBD	26.10.2013	20.11.2013	
4.2.6	Relocate vegetation map's attribute selector from Layers panel to the top of FMU selector						
	<p>a) Currently, attribute selectors of vegetation map are located in the Layers panel for each FMU (See Appendix A.4)</p>	TRINITY	100%	TBD	20.11.2013	20.11.2013	
	<p>b) Remove all the attribute selectors from the Layers panel.</p>	TRINITY	100%	TBD	20.11.2013	20.11.2013	
	<p>c) Add one attribute selector to the top line of FMU selector accommodated in the FMU Tab. (See Fig. 8)</p>	TRINITY	100%	TBD	20.11.2013	20.11.2013	
	<p>d) Modify code to apply the selected attribute to all the FMUs.</p>	TRINITY	100%	TBD	20.11.2013	20.11.2013	

4.3	Add New Layers / Improve Layers						
4.3.1	Improve Vegetation map Layer by including National Parks						
	a) Shape files for three national parks will be provided from PURCHASER/USER. (*Related data set cleaning in progress by SIMT)	TRINITY	0%	TBD	20.11.2013	20.11.2013	
	b) Classification of species of National parks is not compatible to PEMF classification. So, Classification shall be converted to be compatible to PEMF's according to direction of PURCHASER/USER. (*Related classification of species in progress by SIMT)	TRINITY	0%	TBD	20.11.2013	20.11.2013	
	c) Add each National park FMU polygon as a member of PEMF FMU group.	TRINITY	0%	TBD	20.11.2013	20.11.2013	
4.3.2	Improve Vegetation map Layer by including Protected area Zone 1						
	a) Shape files for Protected area Zone 1 will be provided from PURCHASER/USER. They don't contain attributes.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	b) Add each Protected area Zone 1 polygon as a member of PEMF FMU group.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.3.3	Add a New Layer for MGRS Grid						
	a) Add MGRS grid.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	b) Idea of implementation of MGRS grid can be obtained from http://dhost.info/usngweb/ (* definition of MGRS grid is different from definition of U.S. National Grid)	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	c) Definition of MGRS Grid can be obtained from http://earth-info.nga.mil/GandG/coordsys/grids/mgrs.doc	TRINITY	0%	TBD	30.11.2013	30.11.2013	

	d) Suitable grids according to current zoom-in factor shall be selectable from Zone, 100km, 10km, 1km, 100m and 10m.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	Add a new Layer "Damage Forest Value Map"						
	a) Add a user privilege to enable/disable to access this map. When this layer is selected following functions shall be enabled.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	b) Allow users to draw a polygon	TRINITY	100%	TBD	30.11.2013	30.11.2013	
	c) Find intersections of the drawn polygon and subcompartments	TRINITY	100%	TBD	30.11.2013	30.11.2013	
4.3.4	<p>d) As table form, the following data shall be shown for the intersected area:</p> <ul style="list-style-type: none"> • CompartmentNo./SubCompartment No. • Intersected Area (ha) • Total Area of Subcompartment (ha) This value should be taken from Form9 of Inventory for corresponding subcompartment • % of intersected area over total area of subcompartment This value should be calculated by Intersected Area / total area of subcompartment x 100 • Value for the intersected area This value should be calculated as Value of Forest x % of intersected area where Value of Forest area shall be taken from corresponding field in Form 9 of Inventory • Total Value for the intersected areas 	TRINITY	80%	TBD	30.11.2013	30.11.2013	
	e) Result intersection polygons shall be displayed in this layer with a color classification according to the total value for the intersected areas. User shall provide classification of colors by value.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.3.5	Add new layer group – CMC Operation Maps						

4.3.5	a) Add a user privilege to enable/disable to access this Layer group.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	b) When this layer group is selected, user is allowed to draw a polygon which is used for inner polygon searches enabled by corresponding inner polygon search switches. (see Fig.6-A)	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	c) State of inner polygon search switches shall be kept in a table with a relation to the user account, and when the user logs in again, the state shall be restored.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	d) The node of "CMC Operation Maps" shall be expanded by default.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
Add a "Resource Map" Layer							
4.3.5.1	a) Create and display resource icons corresponding to resource types at the coordinates specified in resource records from UNDP Database. (See Appendix B-1)	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	b) This is not a permanent map. Successful PROPOSER shall write code to create and replace the map once a month.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	c) Add function for optional inner polygon search. Breakdown of resources in the drawn polygon shall be displayed as a table in the search result pane.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
Add a "Facility inventory Map" Layer							
4.3.5.2	a) Create and display facility inventory icons corresponding to facility types at the coordinates specified in facility inventory records from UNDP Database. (See Appendix B-1)	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	b) This is not a permanent map. Successful PROPOSER shall write code to create and replace the map once a month.	TRINITY	0%	TBD	30.11.2013	30.11.2013	

	c) Add function for optional inner polygon search. Breakdown of facility inventory in the drawn polygon shall be displayed as a table in the search result pane.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.3.5.3	Add a "Demographic Map" Layer						
	a) Show a thematic map showing total population by color classification using border of settlements.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	b) This is not a permanent map. Successful PROPOSER shall write code to create and replace the map once a month.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	c) Demographic information will be in a database to be created by UNDP which will become accessible from MKFFIS in mid July 2013. (see Appendix B-2)	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	d) Add function for optional inner polygon search. Breakdown of total population of each settlement which is intersected by the drawn polygon shall be displayed in the search result pane.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.3.5.4	Real-time disaster report from RCMC						
	a) Add a user privilege to enable/disable this function	TRINITY	60%	05.10.2013	01.11.2013	01.11.2013	
	b) Users having this privilege are able to send/edit/delete disaster report. Report consists of followings. <ul style="list-style-type: none"> • Geographic information (polygon, line, point, icon) drawn/dropped on the MKFFIS Map Pane • Text information (Details shall be decided by USER) 	TRINITY	60%	05.10.2013	01.11.2013	01.11.2013	
	c) Disaster report sent shall be stored in Disaster Report Database. (Successful PROPOSER shall prepare this database).	TRINITY	60%	05.10.2013	01.11.2013	01.11.2013	
	d) The report sent, edited, deleted shall be reflected in real time to all the MKFFIS users who are online.	TRINITY	60%	05.10.2013	01.11.2013	01.11.2013	

	e) Geographic information sent shall be displayed as a Real-time disaster Map which is one member layer of the CMC Operation Maps. (see Fig.6-A)	TRINITY	60%	05.10.2013	01.11.2013	01.11.2013	
	f) Alarm message shall be displayed upon arrival of real-time disaster report. (In a message box for example)	TRINITY	60%	05.10.2013	01.11.2013	01.11.2013	
	g) Salvage as much data as possible from ESRI Application created on ArcSDE (see APPENDIX C). Source code is not available for ESRI Application, but user account of ArcSDE database (MSSQL) will be provided.	TRINITY	0%	TBD	01.11.2013	01.11.2013	
	h) If type of disaster is forest fire; create a new CMC Forest Fire Report. (Refer to 4.6.1)	TRINITY	0%	TBD	01.11.2013	01.11.2013	
	Search disaster reports						
	a) Add a panel for this search in the second menu item of the accordion menu in Search tab. (see Fig. 10)	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	b) Only the filter by CMC classification is required. PEMF classification is not necessary.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.3.5.5	c) Search disaster report panel has following controls: <ul style="list-style-type: none"> • From Date • To Date • GCUK unit selector • RCUK unit selector • Municipality and Settlement selector • Type of events • Search Report button • Clear Result button • Print Result button 	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	d) Search result shall be shown in the search result pane.	TRINITY	0%	TBD	30.11.2013	30.11.2013	

	e) Color of GCUK or RCUK polygons shall be classified by the number of disasters in the polygons in the specified period.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	f) Result Map shall be displayed as a 'Disaster search result' which is one member layer of the CMC Operation Maps. (see Fig.6-A)	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	g) As for Print Result function, format of printed report shall be provided by USER.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.4	Add New Functions to MKFFIS						
4.4.1	Grid Information						
	a) Show following information of a MGRS Grid clicked. <ul style="list-style-type: none"> • MGRS Grid code • Summary of resources in the grid (see Appendix B-1). Resources are in a database created by UNDP which is accessible from MKFFIS. • Summary of disaster events in the grid. Disaster events are in a database created by UNDP which is accessible from MKFFIS. • Summary of facility inventories in the grid. Inventories are in a database created by UNDP which is accessible from MKFFIS. • FWI at the center of the grid. FWI grid values are kept as GeoTIFF image. • <input checked="" type="checkbox"/> Vegetation dryness at the center of the grid. Vegetation dryness grid values are kept as GetTIFF image. 	TRINITY	0%	TBD	30.12.2013	30.12.2013	
	Demographic information						
4.4.2	a) Show demographic information of an administrative area clicked (National, Municipalities, Settlements). When info button is clicked, show summary, and detail table representation to be shown below on the screen.	TRINITY	0%	TBD	30.11.2013	30.11.2013	

	b) Demographic information will be in a database to be created by UNDP which will become accessible from MKFFIS in mid July 2013.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	c) Demographic information to be shown on the info button and detailed table will be decided by USER.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	Add means to switch Between MKFFIS for internal purpose and MKFFIS for Public						
4.4.3	<p>a) Currently, MKFFIS serves for internal purpose controlling available features by user account. But another instance of MKFFIS will be installed on the Internet Server to serve public users. MKFFIS for Public can be opened without login process, but much stronger restriction will be applied. Successful PROPOSER shall add means to switch from MKFFIS for internal purpose to MKFFIS for Public. Following procedure is an example of solution.</p> <ul style="list-style-type: none"> • Define a special user GUEST. • Restriction to the public user will be applied by privilege settings of user GUEST. • Add necessary exceptions applicable to GUEST user. For example, user profile of GUEST user is not kept . • Prepare PUBLIC flag in a configuration file of MKFFIS GIS. • If the flag is OFF, MKFFIS starts normally from the login page. • VI. If the flag is ON, MKFFIS skips login page and starts from the main page, setting user name to GUEST automatically. 	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	b) Link to MKFFIS for internal purpose shall be added to the MKFFIS for public.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.4.4	Add function to fill section 5.1 in P2 report taking meteorological data from AWS.		100%	25.09.2013	09.10.2013	09.10.2013	

	a) Add an AWS select box next to the 'Meteorological Station' text box. (See Fig..11) AWS Names in the select box shall be taken dynamically from the 'meteorologicalstations' table in the CUK database.	SIMT	100%	25.09.2013	09.10.2013	09.10.2013	
	b) Search the meteorological data of the selected AWS which is closest to the date/time specified in the '2.2 Detection' text box.	SIMT	100%	25.09.2013	09.10.2013	09.10.2013	
	c) If there is no data between 3 hours before and after the date/time specified by the '2.2 Detection' text box, show message 'No AWS data available' and do nothing to the textboxes, otherwise fill following textboxes in the section 5.1 of P2 report. <ul style="list-style-type: none"> • Meteorological Station: (name of meteorological station) • hour: (hour of the meteorological data measured) • Number of days from last raining: (to fill this box some calculation is necessary) • Maximum temperature: (fill maximum temperature of the specified day) • Relative humidity • Wind Speed • Direction (Wind direction) 	SIMT	100%	25.09.2013	09.10.2013	09.10.2013	
	Changes requested from Operation department from CMC about forest fire report	SIMT	100%	03.10.2013	09.10.2013	09.10.2013	
4.5	Add New Functions/Interface to GFIS						
	Add a link to user manual						
4.5.1	a) Add a link to end user manual of GFIS GIS to the tool bar.	JICA					
	b) Add a link to end user manual of GFIS Planning to the top link.	JICA					
	c) Add a link to end user manual of GFIS Fire Report to the top link.	JICA					

	d) In English mode link to the user manual of English version, and In Macedonian mode link to the user manual of Macedonian version.	JICA					
4.5.2	Limit available FMU by user privilege						
	a) Add a function to the GFIS Admin page in order to specify FMUs under responsibility of each user.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	b) Limit FMUs to display and/or edit according to above privilege.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	c) Limit FMUs shown in the FMU Selector according to above privilege.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	d) Zoom in FMU under responsibility of the user when that user opens GFIS GIS.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.5.3	Allow access to past versions of forest plan.						
	<p>a) Currently, if a FMU polygon is edited and uploaded, old FMU polygons will be replaced by new FMU polygons. Therefore only the latest FMUs can be seen on GFIS GIS. Successful PROPOSER under the direction of PEMF shall add function to show FMUs in a past date specified by a calendar control. Following procedures are just an example of solution:</p> <ul style="list-style-type: none"> • Add a calendar control to a suitable place on GFIS GIS. • Add attributes (effective from, expired on) to each FMU. • Preset some past date such as 1900.01.01 to 'effective from' and NULL to 'expired on'. • When a new FMU is uploaded, keep the old FMU and set its 'expired on' to the updated date. • Set the updated date to the new FMU's 'effective from' and set NULL to 'expired on'. • When a past date is specified, display FMUs according to their attribute 'effective from' and 'expired on'. 	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.5.4	Search FMU by year of expiry of special plan			0%	01.12.2013	20.12.2013	20.12.2013

	a) Each FMU has its planning effective for ten years. And the duration is kept in the forest planning database. Successful PROPOSER under the direction of PEMF shall add a function to search FMUs which special plans expire in the year specified.	SIMT	0%	01.12.2013	20.12.2013	20.12.2013	
4.5.5	Change monthly input to daily for form 3, 3a and 5		90%	15.10.2013	29.10.2013	29.10.2013	
	a) Currently, data entry to the form 3, 3a and 5 is carried out on a monthly basis. Successful PROPOSER under the direction of PEMF shall modify the code to cater to daily data entry. And add two options to the print function for these forms, one is daily summary, the other is monthly summary.	SIMT	90%	15.10.2013	29.10.2013	29.10.2013	
4.5.6	Keep annual achievement for 10 years in Form 6		0%	28.10.2013	06.11.2013	06.11.2013	
	a) Successful PROPOSER under the direction of PEMF shall modify code and design of Form 6 data entry sheet to keep annual achievement for 10 years for each sub compartment. Items to keep are as follows. <ul style="list-style-type: none"> • Area (ha) • Number of seedlings • Weight of seeds (kg) 	SIMT	0%	28.10.2013	06.11.2013	06.11.2013	
4.5.7	Keep annual achievement for 10 years in Form 8		0%	01.11.2013	06.11.2013	06.11.2013	
	a) Successful PROPOSER under the direction of PEMF shall modify code and design of Form 8 data entry sheet to keep annual achievement for 10 years for each sub compartment. Items to keep are as follows. <ul style="list-style-type: none"> • Length of roads (km) • Cleared wood (m3) 	SIMT	0%	01.11.2013	06.11.2013	06.11.2013	
4.5.8	Fill area in Form 1 taken from polygon attribute		0%	20.11.2013	01.12.2013	01.12.2013	
	a) Successful PROPOSER under the direction of PEMF shall modify code of Form 1 data entry sheet to fill area automatically taken from the attribute of polygon corresponding to selected sub compartment.	SIMT	0%	20.11.2013	01.12.2013	01.12.2013	

4.5.9	Add National and Regional office level summaries to the reports in Reports/Rekapitulari menu.		100%	03.10.2013	20.10.2013	20.10.2013	
	a) Currently, reports under the Reports/Rekapitulari menu are summary of selected FMU. Successful PROPOSER under the direction of PEMF shall add summary of National level and Regional Office level, and add links to corresponding summaries in the menu.	SIMT	100%	03.10.2013	20.10.2013	20.10.2013	
	b) FMUs shall be classified by regional office in order to create regional office summary.	SIMT	100%	03.10.2013	20.10.2013	20.10.2013	
6.	Improvement related to MKFFIS & GFIS modules						
4.6.1	Modify PEMF Fire Report input module to report by fire.						
	a) Currently fire report is created in PEMF by each sub compartment even in case of one big fire over several compartments. On the other hand, in the CMC fire report (P2 report) is fire based, not sub compartment based. Therefore, a fire report divided into several reports by sub compartment must be merged at CMC to create P2 report for one fire. There are some complaints in PEMF for this process.	SIMT	0%	06.11.2013	TBD	25.11.2013	
	<ul style="list-style-type: none"> • PEMF does not want redundant data entry. For example, some common fields such as start of fire and end of fire should be entered repeatedly for each related sub compartment. • PEMF has authority to identify a fire over several sub compartments, therefore merging reports by sub compartment into one fire report should be conducted by PEMF. • Fire report from PEMF does not have to be by sub compartment. Report by fire is acceptable. 						

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	<p>b) Because P2 report module has a function to manage a report containing information of multiple sub compartments, applying the same approach to the PEMF fire report will be an elegant solution.</p>	SIMT	0%	06.11.2013	TBD	25.11.2013	
	<p>c) Successful PROPOSER under direction of USER shall conduct following modification.</p> <ul style="list-style-type: none"> • Modify current PEMF fire report module on GFIS Fire Report so that it can report by fire by adding functionality to manage information from multiple sub compartments. • Remove MERGE PEMF REPORT function from P2 report module in MKFFIS Fire Report. • Add IMPORT PEMF REPORT function to MKFFIS Fire Report • Adjust P2 Report module on MKFFIS Fire Report to be able to show correctly the Fire report which was imported from PEMF REPORT • Rename P2 Report as CMC Forest Fire Report. • Add 'read-only' user privilege to GFIS Fire Report and MKFFIS Fire Report which allows MKFFIS user to browse PEMF fire report, and allows GFIS user to browse CMC Fire Report. • Printing format of PEMF Fire Report to obtain approval of SiFH shall not be changed. 	SIMT	0%	06.11.2013	TBD	25.11.2013	
7.	Performance Tuning						
4.7.1	Performance tuning of MKFFIS		10%				

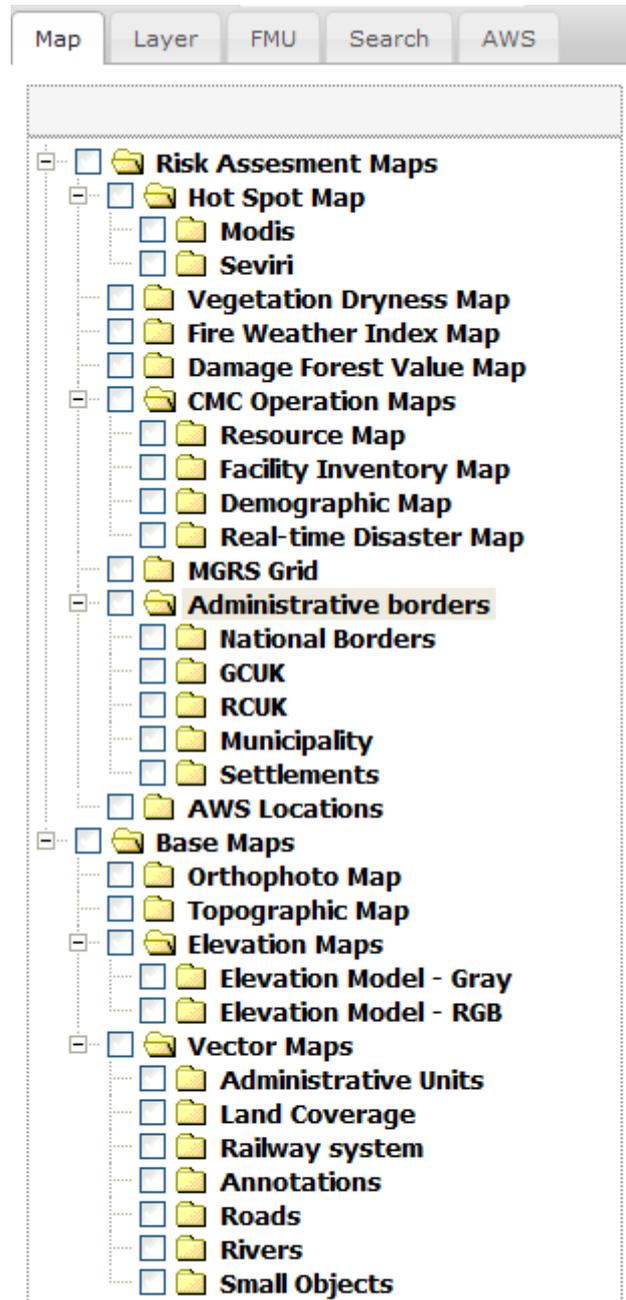
	<p>a) Currently, there are following complaints about speed.</p> <ul style="list-style-type: none"> • MKFFIS GIS takes very long time to show the login page, if it is accessed over a long distance. For example, accessing from Japan, it takes 90 seconds to open the login page and another 90 • Speed to show FMUs is slow, and from time to time it fails to show them. 	TRINITY	30%	02.10.2013	25.10.2013	25.10.2013	
	<p>b) MKFFIS GIS shall be optimized by execution speed.</p>	TRINITY	30%	02.10.2013	25.10.2013	25.10.2013	
	<p>c) Optimization is not limited to source code level. All the possible factors shall be taken into account. For example, server configuration, deployment of files, network structure, use of external servers (Google server for jQuery), indexing of tables in databases, etc.</p>	TRINITY	10%	02.10.2013	25.10.2013	25.10.2013	
	<p>d) Improvement of performance should be shown quantitatively.</p>	TRINITY	15%	02.10.2013	25.10.2013	25.10.2013	
	Performance tuning of GFIS						
4.7.2	<p>a) Currently, there are following complaints about speed which are similar to MKFFIS GIS.</p> <ul style="list-style-type: none"> • GFIS GIS takes very long time to show the login page, if it is accessed over a long distance. • Speed to show FMUs is slow, and from time to time it fails to show them. 	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013	
	<p>b) GFIS GIS shall be optimized by execution speed</p>	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013	
	<p>c) Optimization is not limited to source code level. All the possible factors shall be taken into account. For example, server configuration, deployment of files, network structure, use of external servers (Google server for jQuery), indexing of tables in databases, etc.</p>	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013	

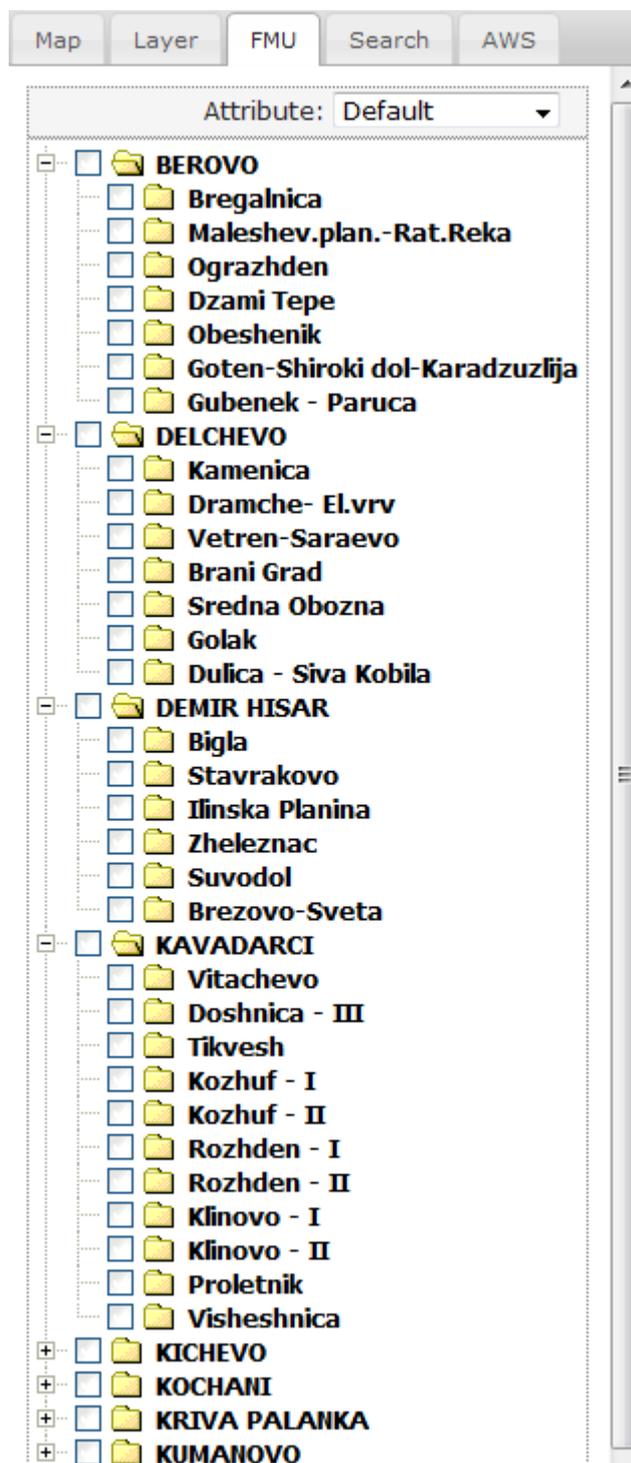
WEEKLY PROGRESS REPORT for the period from October 17th to October 24th 2013

	d) Improvement of performance should be shown quantitatively.	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013	
8.	Installation/QA/Training/Documentation						
4.8.1	MKFFIS and GIS Installation, Quality Assurance, Training, Documentation						
4.8.2	GFIS and GIS Installation, Quality Assurance, Training, Documentation						

4.2 Improve MKFFIS User Interface

4.2.1 Both tree views, FMU and regular have been completed and functional. Different Icon can be placed instead of the default directory icon.





4.2.3 The calendar control function is under development. For the hotspot maps the plan is to publish all of the information in one shape file per hotspot map and the viewing will be filter based (from the attribute date in each of the layers). This functionality shall be completed by 26.10.2013.

4.2.6 The attribute selection has been set up in the correct position and is fully functional. A demonstration shall be done Monday.

4.3 Add New Layers / Improve Layers

4.3.1 Improve Vegetation map Layer by including National Parks **TRINITY**

Target: MKFFIS GIS and GFIS GIS

We are waiting for the shape files of the National Parks so that we can implement them in the database and the Geoserver.

4.3.5.4 Real-time disaster report from RCMC **TRINITY & SIMT**

Target: MKFFIS GIS

A draft version for the Disaster report event and reports has been created. The information in the database is currently only for the fire events. A closer look should be cast in Thursday's meeting for the appropriate format of entering the data and functionality.

The reporting phase is nearly completed. We have fully completed a report for a snowfall event to be shown on Monday.

4.3.4 The damage forest maps has been finished. The function utilizes the JSTS libraries. The user first needs to select FMU to view from the FMU tab. When the FMU have been selected, the user should check the checkbox for the Damage Forest Value Map. Upon checking the map, the script checks which FMU have been selected and sends an appropriate WFS request containing the sub-compartments of all the selected FMUs as one. Then the user is granted a tool for drawing the polygon on top of the WFS layer. The JSTS tool that checks for intersections and displays the intersected area in ha. The only thing left to do is to gather the rest of the information that is stored in the Form9 from the database.

4.4 Add New Functions to MKFFIS

4.4.4 Add function to fill section 5.1 in P2 report taking meteorological data from AWS. **SIMT**

Target: MKFFIS Fire Report

Waiting for test on side be CMC/JICA and approval.

Demo is on test side.

4.5 Add New Functions/Interface to GFIS

4.5.4 Search FMU by year of expiry of special plan **TRINITY & SIMT**

Target: GFIS GIS

4.5.5 Change monthly input to daily for form 3, 3a and 5 **SIMT**

Target: GFIS Planning

All three forms (3, 3a and 5) for logging are completed, for insert, update and delete, summary reports by all three forms are created and right page printing for all three forms are done. Only translating to English need to be done. Last version of the application is on test server.

4.5.6 Keep annual achievement for 10 years in Form 6 **SIMT**

Target: GFIS Planning

4.5.7 Keep annual achievement for 10 years in Form 8 **SIMT**

Target: GFIS Planning

4.5.8 Fill area in Form 1 taken from polygon attribute **SIMT**

Target: GFIS Planning

4.5.9 Add National and Regional office level summaries to the reports in Reports/Rekapitulari menu. **SIMT**

Target: GFIS Planning

*Waiting for test on side be PEMF/CMC/JICA and approval.
Demo is on test side.*

4.6 Improvement related to both MKFFIS and GFIS modules

4.6.1 Modify PEMF Fire Report input module to report by fire. **SIMT**

4.7.1 Trinity extensively works on finding ways of fixing the performance issues. Unnecessary scripts are being deleted, performance tuning on the loading of the layers is done, external loading of the scripts is done etc.

- SD 2 -

WEEKLY PROGRESS REPORT No.5
For period from October 25th to October 31th, 2013

Author: EDUSOFT, SIMT, TRINITY

Creation Date: October 31th, 2013

Seq.No	Task Description	Assignee	Current % of progress	DATES			
				Planned Start	Planned End	Contracted/ Targeted	Tested Accepted by Purchaser User
4.2	Improve MKFFIS User Interface						
4.2.1	Reform MKFFIS Left pane						
	a) Remove Accordion menu, Navigation and Layers button from the left pane.	TRINITY	100%	02.10.2013	18.10.2013	10.10.2013	
	b) Add Tab control with five tabs.	TRINITY	100%	02.10.2013	18.10.2013	10.10.2013	
	c) Deploy Layers panel in the first tab named 'Layers'. This tab should be a default. (See Fig. 7)	TRINITY		02.10.2013	18.10.2013	10.10.2013	
	d) Deploy Map Selector in the second tab named 'Maps'. Show hierarchy of each map using a tree view control, except vegetation map. Show only the root node for vegetation map in the tree view. (See Fig.6) Because vegetation map has a lot of FMUs as its children, FMU selector should be accommodated in a separate tab (e). (See Fig. 8)	TRINITY	100%	02.10.2013	26.10.2013	10.10.2013	
	e) Deploy FMU selector in the third tab named 'FMU'. (See Fig. 8)	TRINITY	100%	02.10.2013	18.10.2013	10.10.2013	
	f) Deploy an accordion menu with two menu items in the fourth tab named 'Search'. Deploy Search Forest History panel in the first accordion menu item. (See Fig. 10)	TRINITY	40%	02.10.2013	01.12.2013	01.12.2013	
	g) Deploy AWS Overview panel in the fifth tab named 'AWS'. (See Fig. 9)	TRINITY	40%	02.10.2013	01.12.2013	01.12.2013	
	h) Tab names should be displayed in the language specified by the current language mode.	TRINITY	0%	02.10.2013	31.12.2013	31.12.2013	

	i) Layer settings in the Layers panel (Order of the layers, selected maps) and selected maps in the Map Selector and FMU selector shall be kept in a table with a relation to the user account, and when the user logs in again, the settings shall be restored.	TRINITY	0%	TBD	31.12.2013	31.12.2013	
4.2.2	Add a link to user manual		%				
	a) Add a link to end user manual of MKFFIS GIS to the tool bar.	JICA	0%	TBD	20.11.2013	20.11.2013	
	b) Add a link to end user manual of MKFFIS Fire Report to the top link.	JICA	0%	TBD	20.11.2013	20.11.2013	
	c) In English mode link to the user manual of English version, and In Macedonian mode link to the user manual of Macedonian version.	JICA	0%	TBD	20.11.2013	20.11.2013	
4.2.3	Change background image seasonally		%				
	a) Change background image on the login page seasonally. Image for each season will be provided by USER.		80%	TBD	20.11.2013	20.11.2013	
4.2.4	Add a common calendar control						
	a) Currently, vegetation dryness map (VDM) and FWI map have their own calendar control independently. And each hotspot (Seviri, Modis and Modis raw) has selections of 1 day ago, 2 days ago and 3 days ago.	TRINITY	100%	.04.10.2013	26.10.2013	15.10.2013	
	b) Remove the calendar control for VDM and FWI map.	TRINITY	100%	04.10.2013	26.10.2013	15.10.2013	
	c) Remove the hot spot selections: 1 day ago, 2 days ago and 3 days ago.	TRINITY	60%	04.10.2013	26.10.2013	15.10.2013	
	d) Rename hot spot selections: 'Seviri (Today)' as 'Seviri', 'Modis (Today)' as 'Modis'.	TRINITY	60%	04.10.2013	26.10.2013	15.10.2013	
	e) Add a calendar control with label 'Date' on the space where currently 'Navigation' is there. (See Fig. 7)	TRINITY	100%	TBD	26.10.2013	20.11.2013	
	f) Add a check box with label 'Now' next to the above calendar control. 'Now' shall be checked by default. *Labels should be in the language specified by current language mode.	TRINITY	100%	TBD	26.10.2013	20.11.2013	

	<p>g) Modify code as follows:</p> <ul style="list-style-type: none"> • When a past day is specified by the calendar control, clear 'Now' check box, and show VDM, FWI map hotspots and real-time disaster report (see 4.3.5.4) of the day specified. • When 'Now' check box is checked, show vegetation map, FWI map, hotspots and real-time disaster report of the current day, and keep updating these four real-time maps. 	TRINITY	100%	04.10.2013	26.10.2013		15.10.2013
4.2.5	Display FWI Map of the previous day until today's FWI Map becomes available						
	<p>a) Currently, FWI Map is not shown until a day is specified by its calendar control.</p>	TRINITY	100%	TBD	26.10.2013	20.11.2013	
	<p>b) Modify code as follows: When 'Now' is checked (it is checked by default) FWI Map of now should be displayed. But FWI Map is created almost every day at 2pm. Therefore, it shall be displayed by the following rule.</p> <ul style="list-style-type: none"> • If FWI Map of the current day exists now, display it. • Otherwise display FWI Map of one day before, if such exists. • Otherwise don't display FWI Map. 	TRINITY	100%	TBD	26.10.2013	20.11.2013	
4.2.6	Relocate vegetation map's attribute selector from Layers panel to the top of FMU selector						
	<p>a) Currently, attribute selectors of vegetation map are located in the Layers panel for each FMU (See Appendix A.4)</p>	TRINITY	100%	TBD	20.11.2013	20.11.2013	
	<p>b) Remove all the attribute selectors from the Layers panel.</p>	TRINITY	100%	TBD	20.11.2013	20.11.2013	
	<p>c) Add one attribute selector to the top line of FMU selector accommodated in the FMU Tab. (See Fig. 8)</p>	TRINITY	100%	TBD	20.11.2013	20.11.2013	
	<p>d) Modify code to apply the selected attribute to all the FMUs.</p>	TRINITY	100%	TBD	20.11.2013	20.11.2013	

4.3	Add New Layers / Improve Layers						
4.3.1	Improve Vegetation map Layer by including National Parks						
	a) Shape files for three national parks will be provided from PURCHASER/USER. (*Related data set cleaning in progress by SIMT)	TRINITY	0%	TBD	20.11.2013	20.11.2013	
	b) Classification of species of National parks is not compatible to PEMF classification. So, Classification shall be converted to be compatible to PEMF's according to direction of PURCHASER/USER. (*Related classification of species in progress by SIMT)	TRINITY	0%	TBD	20.11.2013	20.11.2013	
	c) Add each National park FMU polygon as a member of PEMF FMU group.	TRINITY	0%	TBD	20.11.2013	20.11.2013	
4.3.2	Improve Vegetation map Layer by including Protected area Zone 1						
	a) Shape files for Protected area Zone 1 will be provided from PURCHASER/USER. They don't contain attributes.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	b) Add each Protected area Zone 1 polygon as a member of PEMF FMU group.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.3.3	Add a New Layer for MGRS Grid						
	a) Add MGRS grid.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	b) Idea of implementation of MGRS grid can be obtained from http://dhost.info/usngweb/ (* definition of MGRS grid is different from definition of U.S. National Grid)	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	c) Definition of MGRS Grid can be obtained from http://earth-info.nga.mil/GandG/coordsys/grids/mgrs.doc	TRINITY	0%	TBD	30.11.2013	30.11.2013	

	d) Suitable grids according to current zoom-in factor shall be selectable from Zone, 100km, 10km, 1km, 100m and 10m.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	Add a new Layer "Damage Forest Value Map"						
	a) Add a user privilege to enable/disable to access this map. When this layer is selected following functions shall be enabled.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	b) Allow users to draw a polygon	TRINITY	100%	TBD	30.11.2013	30.11.2013	
	c) Find intersections of the drawn polygon and subcompartments	TRINITY	100%	TBD	30.11.2013	30.11.2013	
4.3.4	<p>d) As table form, the following data shall be shown for the intersected area:</p> <ul style="list-style-type: none"> • CompartmentNo./SubCompartment No. • Intersected Area (ha) • Total Area of Subcompartment (ha) This value should be taken from Form9 of Inventory for corresponding subcompartment • % of intersected area over total area of subcompartment This value should be calculated by Intersected Area / total area of subcompartment x 100 • Value for the intersected area This value should be calculated as Value of Forest x % of intersected area where Value of Forest area shall be taken from corresponding field in Form 9 of Inventory • Total Value for the intersected areas 	TRINITY	80%	TBD	30.11.2013	30.11.2013	
	e) Result intersection polygons shall be displayed in this layer with a color classification according to the total value for the intersected areas. User shall provide classification of colors by value.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.3.5	Add new layer group – CMC Operation Maps						

4.3.5	a) Add a user privilege to enable/disable to access this Layer group.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	b) When this layer group is selected, user is allowed to draw a polygon which is used for inner polygon searches enabled by corresponding inner polygon search switches. (see Fig.6-A)	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	c) State of inner polygon search switches shall be kept in a table with a relation to the user account, and when the user logs in again, the state shall be restored.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	d) The node of "CMC Operation Maps" shall be expanded by default.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
Add a "Resource Map" Layer							
4.3.5.1	a) Create and display resource icons corresponding to resource types at the coordinates specified in resource records from UNDP Database. (See Appendix B-1)	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	b) This is not a permanent map. Successful PROPOSER shall write code to create and replace the map once a month.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	c) Add function for optional inner polygon search. Breakdown of resources in the drawn polygon shall be displayed as a table in the search result pane.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
Add a "Facility inventory Map" Layer							
4.3.5.2	a) Create and display facility inventory icons corresponding to facility types at the coordinates specified in facility inventory records from UNDP Database. (See Appendix B-1)	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	b) This is not a permanent map. Successful PROPOSER shall write code to create and replace the map once a month.	TRINITY	0%	TBD	30.11.2013	30.11.2013	

	c) Add function for optional inner polygon search. Breakdown of facility inventory in the drawn polygon shall be displayed as a table in the search result pane.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.3.5.3	Add a "Demographic Map" Layer						
	a) Show a thematic map showing total population by color classification using border of settlements.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	b) This is not a permanent map. Successful PROPOSER shall write code to create and replace the map once a month.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	c) Demographic information will be in a database to be created by UNDP which will become accessible from MKFFIS in mid July 2013. (see Appendix B-2)	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	d) Add function for optional inner polygon search. Breakdown of total population of each settlement which is intersected by the drawn polygon shall be displayed in the search result pane.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.3.5.4	Real-time disaster report from RCMC						
	a) Add a user privilege to enable/disable this function	TRINITY	60%	05.10.2013	01.11.2013	01.11.2013	
	b) Users having this privilege are able to send/edit/delete disaster report. Report consists of followings. <ul style="list-style-type: none"> • Geographic information (polygon, line, point, icon) drawn/dropped on the MKFFIS Map Pane • Text information (Details shall be decided by USER) 	TRINITY	60%	05.10.2013	01.11.2013	01.11.2013	
	c) Disaster report sent shall be stored in Disaster Report Database. (Successful PROPOSER shall prepare this database).	TRINITY	60%	05.10.2013	01.11.2013	01.11.2013	
	d) The report sent, edited, deleted shall be reflected in real time to all the MKFFIS users who are online.	TRINITY	60%	05.10.2013	01.11.2013	01.11.2013	

	e) Geographic information sent shall be displayed as a Real-time disaster Map which is one member layer of the CMC Operation Maps. (see Fig.6-A)	TRINITY	60%	05.10.2013	01.11.2013	01.11.2013	
	f) Alarm message shall be displayed upon arrival of real-time disaster report. (In a message box for example)	TRINITY	60%	05.10.2013	01.11.2013	01.11.2013	
	g) Salvage as much data as possible from ESRI Application created on ArcSDE (see APPENDIX C). Source code is not available for ESRI Application, but user account of ArcSDE database (MSSQL) will be provided.	TRINITY	0%	TBD	01.11.2013	01.11.2013	
	h) If type of disaster is forest fire; create a new CMC Forest Fire Report. (Refer to 4.6.1)	TRINITY	0%	TBD	01.11.2013	01.11.2013	
	Search disaster reports						
	a) Add a panel for this search in the second menu item of the accordion menu in Search tab. (see Fig. 10)	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	b) Only the filter by CMC classification is required. PEMF classification is not necessary.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.3.5.5	c) Search disaster report panel has following controls: <ul style="list-style-type: none"> • From Date • To Date • GCUK unit selector • RCUK unit selector • Municipality and Settlement selector • Type of events • Search Report button • Clear Result button • Print Result button 	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	d) Search result shall be shown in the search result pane.	TRINITY	0%	TBD	30.11.2013	30.11.2013	

	e) Color of GCUK or RCUK polygons shall be classified by the number of disasters in the polygons in the specified period.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	f) Result Map shall be displayed as a 'Disaster search result' which is one member layer of the CMC Operation Maps. (see Fig.6-A)	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	g) As for Print Result function, format of printed report shall be provided by USER.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.4	Add New Functions to MKFFIS						
4.4.1	Grid Information						
	a) Show following information of a MGRS Grid clicked. <ul style="list-style-type: none"> • MGRS Grid code • Summary of resources in the grid (see Appendix B-1). Resources are in a database created by UNDP which is accessible from MKFFIS. • Summary of disaster events in the grid. Disaster events are in a database created by UNDP which is accessible from MKFFIS. • Summary of facility inventories in the grid. Inventories are in a database created by UNDP which is accessible from MKFFIS. • FWI at the center of the grid. FWI grid values are kept as GeoTIFF image. • <input type="checkbox"/> Vegetation dryness at the center of the grid. Vegetation dryness grid values are kept as GetTIFF image. 	TRINITY	0%	TBD	30.12.2013	30.12.2013	
	Demographic information						
4.4.2	a) Show demographic information of an administrative area clicked (National, Municipalities, Settlements). When info button is clicked, show summary, and detail table representation to be shown below on the screen.	TRINITY	0%	TBD	30.11.2013	30.11.2013	

	b) Demographic information will be in a database to be created by UNDP which will become accessible from MKFFIS in mid July 2013.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	c) Demographic information to be shown on the info button and detailed table will be decided by USER.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	Add means to switch Between MKFFIS for internal purpose and MKFFIS for Public						
4.4.3	<p>a) Currently, MKFFIS serves for internal purpose controlling available features by user account. But another instance of MKFFIS will be installed on the Internet Server to serve public users. MKFFIS for Public can be opened without login process, but much stronger restriction will be applied. Successful PROPOSER shall add means to switch from MKFFIS for internal purpose to MKFFIS for Public. Following procedure is an example of solution.</p> <ul style="list-style-type: none"> • Define a special user GUEST. • Restriction to the public user will be applied by privilege settings of user GUEST. • Add necessary exceptions applicable to GUEST user. For example, user profile of GUEST user is not kept . • Prepare PUBLIC flag in a configuration file of MKFFIS GIS. • If the flag is OFF, MKFFIS starts normally from the login page. • VI. If the flag is ON, MKFFIS skips login page and starts from the main page, setting user name to GUEST automatically. 	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	b) Link to MKFFIS for internal purpose shall be added to the MKFFIS for public.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.4.4	Add function to fill section 5.1 in P2 report taking meteorological data from AWS.		100%	25.09.2013	09.10.2013	09.10.2013	

WEEKLY PROGRESS REPORT for the period from October 25th to October 31th 2013

	a) Add an AWS select box next to the 'Meteorological Station' text box. (See Fig..11) AWS Names in the select box shall be taken dynamically from the 'meteorologicalstations' table in the CUK database.	SIMT	100%	25.09.2013	09.10.2013	09.10.2013	
	b) Search the meteorological data of the selected AWS which is closest to the date/time specified in the '2.2 Detection' text box.	SIMT	100%	25.09.2013	09.10.2013	09.10.2013	
	c) If there is no data between 3 hours before and after the date/time specified by the '2.2 Detection' text box, show message 'No AWS data available' and do nothing to the textboxes, otherwise fill following textboxes in the section 5.1 of P2 report. <ul style="list-style-type: none"> • Meteorological Station: (name of meteorological station) • hour: (hour of the meteorological data measured) • Number of days from last raining: (to fill this box some calculation is necessary) • Maximum temperature: (fill maximum temperature of the specified day) • Relative humidity • Wind Speed • Direction (Wind direction) 	SIMT	100%	25.09.2013	09.10.2013	09.10.2013	
	Changes requested from Operation department from CMC about forest fire report	SIMT	100%	03.10.2013	09.10.2013	09.10.2013	
4.5	Add New Functions/Interface to GFIS						
	Add a link to user manual						
4.5.1	a) Add a link to end user manual of GFIS GIS to the tool bar.	JICA					
	b) Add a link to end user manual of GFIS Planning to the top link.	JICA					
	c) Add a link to end user manual of GFIS Fire Report to the top link.	JICA					

	d) In English mode link to the user manual of English version, and In Macedonian mode link to the user manual of Macedonian version.	JICA					
4.5.2	Limit available FMU by user privilege						
	a) Add a function to the GFIS Admin page in order to specify FMUs under responsibility of each user.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	b) Limit FMUs to display and/or edit according to above privilege.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	c) Limit FMUs shown in the FMU Selector according to above privilege.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	d) Zoom in FMU under responsibility of the user when that user opens GFIS GIS.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.5.3	Allow access to past versions of forest plan.						
	<p>a) Currently, if a FMU polygon is edited and uploaded, old FMU polygons will be replaced by new FMU polygons. Therefore only the latest FMUs can be seen on GFIS GIS. Successful PROPOSER under the direction of PEMF shall add function to show FMUs in a past date specified by a calendar control. Following procedures are just an example of solution:</p> <ul style="list-style-type: none"> • Add a calendar control to a suitable place on GFIS GIS. • Add attributes (effective from, expired on) to each FMU. • Preset some past date such as 1900.01.01 to 'effective from' and NULL to 'expired on'. • When a new FMU is uploaded, keep the old FMU and set its 'expired on' to the updated date. • Set the updated date to the new FMU's 'effective from' and set NULL to 'expired on'. • When a past date is specified, display FMUs according to their attribute 'effective from' and 'expired on'. 	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.5.4	Search FMU by year of expiry of special plan			0%	01.12.2013	20.12.2013	20.12.2013

	a) Each FMU has its planning effective for ten years. And the duration is kept in the forest planning database. Successful PROPOSER under the direction of PEMF shall add a function to search FMUs which special plans expire in the year specified.	SIMT	0%	01.12.2013	20.12.2013	20.12.2013	
4.5.5	Change monthly input to daily for form 3, 3a and 5		100%	15.10.2013	29.10.2013	29.10.2013	
	a) Currently, data entry to the form 3, 3a and 5 is carried out on a monthly basis. Successful PROPOSER under the direction of PEMF shall modify the code to cater to daily data entry. And add two options to the print function for these forms, one is daily summary, the other is monthly summary.	SIMT	100%	15.10.2013	29.10.2013	29.10.2013	
4.5.6	Keep annual achievement for 10 years in Form 6		30%	28.10.2013	06.11.2013	06.11.2013	
	a) Successful PROPOSER under the direction of PEMF shall modify code and design of Form 6 data entry sheet to keep annual achievement for 10 years for each sub compartment. Items to keep are as follows. <ul style="list-style-type: none"> • Area (ha) • Number of seedlings • Weight of seeds (kg) 	SIMT	30%	28.10.2013	06.11.2013	06.11.2013	
4.5.7	Keep annual achievement for 10 years in Form 8		60%	01.11.2013	06.11.2013	06.11.2013	
	a) Successful PROPOSER under the direction of PEMF shall modify code and design of Form 8 data entry sheet to keep annual achievement for 10 years for each sub compartment. Items to keep are as follows. <ul style="list-style-type: none"> • Length of roads (km) • Cleared wood (m3) 	SIMT	60%	01.11.2013	06.11.2013	06.11.2013	
4.5.8	Fill area in Form 1 taken from polygon attribute		0%	20.11.2013	01.12.2013	01.12.2013	
	a) Successful PROPOSER under the direction of PEMF shall modify code of Form 1 data entry sheet to fill area automatically taken from the attribute of polygon corresponding to selected sub compartment.	SIMT	0%	20.11.2013	01.12.2013	01.12.2013	

4.5.9	Add National and Regional office level summaries to the reports in Reports/Rekapitulari menu.		100%	03.10.2013	20.10.2013	20.10.2013	
	a) Currently, reports under the Reports/Rekapitulari menu are summary of selected FMU. Successful PROPOSER under the direction of PEMF shall add summary of National level and Regional Office level, and add links to corresponding summaries in the menu.	SIMT	100%	03.10.2013	20.10.2013	20.10.2013	
	b) FMUs shall be classified by regional office in order to create regional office summary.	SIMT	100%	03.10.2013	20.10.2013	20.10.2013	
6.	Improvement related to MKFFIS & GFIS modules						
4.6.1	Modify PEMF Fire Report input module to report by fire.						
	a) Currently fire report is created in PEMF by each sub compartment even in case of one big fire over several compartments. On the other hand, in the CMC fire report (P2 report) is fire based, not sub compartment based. Therefore, a fire report divided into several reports by sub compartment must be merged at CMC to create P2 report for one fire. There are some complaints in PEMF for this process. <ul style="list-style-type: none"> PEMF does not want redundant data entry. For example, some common fields such as start of fire and end of fire should be entered repeatedly for each related sub compartment. PEMF has authority to identify a fire over several sub compartments, therefore merging reports by sub compartment into one fire report should be conducted by PEMF. Fire report from PEMF does not have to be by sub compartment. Report by fire is acceptable. 	SIMT	0%	06.11.2013	TBD	25.11.2013	

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	<p>b) Because P2 report module has a function to manage a report containing information of multiple sub compartments, applying the same approach to the PEMF fire report will be an elegant solution.</p>	SIMT	0%	06.11.2013	TBD	25.11.2013	
	<p>c) Successful PROPOSER under direction of USER shall conduct following modification.</p> <ul style="list-style-type: none"> • Modify current PEMF fire report module on GFIS Fire Report so that it can report by fire by adding functionality to manage information from multiple sub compartments. • Remove MERGE PEMF REPORT function from P2 report module in MKFFIS Fire Report. • Add IMPORT PEMF REPORT function to MKFFIS Fire Report • Adjust P2 Report module on MKFFIS Fire Report to be able to show correctly the Fire report which was imported from PEMF REPORT • Rename P2 Report as CMC Forest Fire Report. • Add 'read-only' user privilege to GFIS Fire Report and MKFFIS Fire Report which allows MKFFIS user to browse PEMF fire report, and allows GFIS user to browse CMC Fire Report. • Printing format of PEMF Fire Report to obtain approval of SiFH shall not be changed. 	SIMT	0%	06.11.2013	TBD	25.11.2013	
7.	Performance Tuning						
4.7.1	Performance tuning of MKFFIS		10%				

	<p>a) Currently, there are following complaints about speed.</p> <ul style="list-style-type: none"> • MKFFIS GIS takes very long time to show the login page, if it is accessed over a long distance. For example, accessing from Japan, it takes 90 seconds to open the login page and another 90 • Speed to show FMUs is slow, and from time to time it fails to show them. 	TRINITY	30%	02.10.2013	25.10.2013	25.10.2013	
	<p>b) MKFFIS GIS shall be optimized by execution speed.</p>	TRINITY	30%	02.10.2013	25.10.2013	25.10.2013	
	<p>c) Optimization is not limited to source code level. All the possible factors shall be taken into account. For example, server configuration, deployment of files, network structure, use of external servers (Google server for jQuery), indexing of tables in databases, etc.</p>	TRINITY	10%	02.10.2013	25.10.2013	25.10.2013	
	<p>d) Improvement of performance should be shown quantitatively.</p>	TRINITY	15%	02.10.2013	25.10.2013	25.10.2013	
	Performance tuning of GFIS						
4.7.2	<p>a) Currently, there are following complaints about speed which are similar to MKFFIS GIS.</p> <ul style="list-style-type: none"> • GFIS GIS takes very long time to show the login page, if it is accessed over a long distance. • Speed to show FMUs is slow, and from time to time it fails to show them. 	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013	
	<p>b) GFIS GIS shall be optimized by execution speed</p>	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013	
	<p>c) Optimization is not limited to source code level. All the possible factors shall be taken into account. For example, server configuration, deployment of files, network structure, use of external servers (Google server for jQuery), indexing of tables in databases, etc.</p>	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013	

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	d) Improvement of performance should be shown quantitatively.	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013	
8.	Installation/QA/Training/Documentation						
4.8.1	MKFFIS and GIS Installation, Quality Assurance, Training, Documentation						
4.8.2	GFIS and GIS Installation, Quality Assurance, Training, Documentation						

4.2 Improve MKFFIS User Interface

4.2.1 (e) We have started on improving the fire history search engine. Now every user had its own database table for the fire search results which is not optimum performance wise. The goal is to have one shape file, one database table, containing the joined fmu border polygons and the search is done filter based. We are working on ways to color the polygons programically and not with a style directly from the geoserver.

4.2.3 The calendar control is operational and functional. A demonstration shall be done on Monday.

4.3 Add New Layers / Improve Layers

4.3.1 Improve Vegetation map Layer by including National Parks **TRINITY**

Target: MKFFIS GIS and GFIS GIS

We are waiting for the shape files of the National Parks so that we can implement them in the database and the Geoserver.

4.3.5 We have a proposal on how the inner polygon search should be done for the three maps. Mr. Lazar sent us the development version of the database in MSSQL. We had trouble connecting the database with our Codeigniter environment but we finally managed to succeed by modifying the database driver itself. This means that the data can be used directly from the MSSQL database and no replication will be done to postgresql. A discussion for this proposal shall be conducted on Monday.

4.3.5.4 Real-time disaster report from RCMC **TRINITY & SIMT**

Target: MKFFIS GIS

. The drawing of a polygon is implemented and joined with the events. Now only the functionality for drawing and modifying a polygon has been created. A demonstration shall be conducted in Monday. Other features can be drawn, lines, points, drag and drop icon but it should be discussed on the meetings.

4.4 Add New Functions to MKFFIS

4.4.4 Add function to fill section 5.1 in P2 report taking meteorological data from AWS. **SIMT**

Target: MKFFIS Fire Report

Waiting for test on side be CMC/JICA and approval.

Demo is on test side.

4.5 Add New Functions/Interface to GFIS

4.5.4 Search FMU by year of expiry of special plan **TRINITY & SIMT**

Target: GFIS GIS

4.5.5 Change monthly input to daily for form 3, 3a and 5 **SIMT**

Target: GFIS Planning

Translating to English is done and internal testing is done.

Last version of the application is on test server.

Waiting for test on side be PEMF/CMC/JICA and approval.

4.5.6 Keep annual achievement for 10 years in Form 6 **SIMT**

Input form with initial view and insert is done for Macedonian version.

Demo is on test side.

Target: GFIS Planning

4.5.7 Keep annual achievement for 10 years in Form 8 **SIMT**

*Input form with initial view, insert, update and delete function is done for Macedonian version. Left side printing for Macedonian is done. Right side printing design for Macedonian version is done.
Demo is on test side.*

Target: GFIS Planning

4.5.8 Fill area in Form 1 taken from polygon attribute **SIMT**

Target: GFIS Planning

4.5.9 Add National and Regional office level summaries to the reports in Reports/Rekapitulari menu. **SIMT**

Target: GFIS Planning

Waiting for test on side be PEMF/CMC/JICA and approval.

Demo is on test side.

4.6 Improvement related to both MKFFIS and GFIS modules

4.6.1 Modify PEMF Fire Report input module to report by fire. **SIMT**

4.7.1 Trinity extensively works on finding ways of fixing the performance issues. Unnecessary scripts are being deleted, performance tuning on the loading of the layers is done, external loading of the scripts is done etc.

- SD 2 -

WEEKLY PROGRESS REPORT No.6
For period from November 1st to November 7th, 2013

Author: EDUSOFT, SIMT, TRINITY

Creation Date: November 8th, 2013

Seq. No.	Task Description	Assignee	Current % of progress	DATES			
				Planned Start	Planned End	Contracted/ Targeted	Tested Accepted by Purchaser User
4.2	Improve MKFFIS User Interface						
4.2.1	Reform MKFFIS Left pane						
	a) Remove Accordion menu, Navigation and Layers button from the left pane.	TRINITY	100%	02.10.2013	18.10.2013	10.10.2013	
	b) Add Tab control with five tabs.	TRINITY	100%	02.10.2013	18.10.2013	10.10.2013	
	c) Deploy Layers panel in the first tab named 'Layers'. This tab should be a default. (See Fig. 7)	TRINITY		02.10.2013	18.10.2013	10.10.2013	
	d) Deploy Map Selector in the second tab named 'Maps'. Show hierarchy of each map using a tree view control, except vegetation map. Show only the root node for vegetation map in the tree view. (See Fig.6) Because vegetation map has a lot of FMUs as its children, FMU selector should be accommodated in a separate tab (e). (See Fig. 8)	TRINITY	100%	02.10.2013	26.10.2013	10.10.2013	
	e) Deploy FMU selector in the third tab named 'FMU'. (See Fig. 8)	TRINITY	100%	02.10.2013	18.10.2013	10.10.2013	
	f) Deploy an accordion menu with two menu items in the fourth tab named 'Search'. Deploy Search Forest History panel in the first accordion menu item. (See Fig. 10)	TRINITY	40%	02.10.2013	01.12.2013	01.12.2013	
	g) Deploy AWS Overview panel in the fifth tab named 'AWS'. (See Fig. 9)	TRINITY	40%	02.10.2013	01.12.2013	01.12.2013	
	h) Tab names should be displayed in the language specified by the current language mode.	TRINITY	0%	02.10.2013	31.12.2013	31.12.2013	

	i) Layer settings in the Layers panel (Order of the layers, selected maps) and selected maps in the Map Selector and FMU selector shall be kept in a table with a relation to the user account, and when the user logs in again, the settings shall be restored.	TRINITY	0%	TBD	31.12.2013	31.12.2013	
4.2.2	Add a link to user manual		%				
	a) Add a link to end user manual of MKFFIS GIS to the tool bar.	JICA	0%	TBD	20.11.2013	20.11.2013	
	b) Add a link to end user manual of MKFFIS Fire Report to the top link.	JICA	0%	TBD	20.11.2013	20.11.2013	
	c) In English mode link to the user manual of English version, and In Macedonian mode link to the user manual of Macedonian version.	JICA	0%	TBD	20.11.2013	20.11.2013	
4.2.3	Change background image seasonally		%				
	a) Change background image on the login page seasonally. Image for each season will be provided by USER.		80%	TBD	20.11.2013	20.11.2013	
4.2.4	Add a common calendar control						
	a) Currently, vegetation dryness map (VDM) and FWI map have their own calendar control independently. And each hotspot (Seviri, Modis and Modis raw) has selections of 1 day ago, 2 days ago and 3 days ago.	TRINITY	100%	.04.10.2013	26.10.2013	15.10.2013	
	b) Remove the calendar control for VDM and FWI map.	TRINITY	100%	04.10.2013	26.10.2013	15.10.2013	
	c) Remove the hot spot selections: 1 day ago, 2 days ago and 3 days ago.	TRINITY	60%	04.10.2013	26.10.2013	15.10.2013	
	d) Rename hot spot selections: 'Seviri (Today)' as 'Seviri', 'Modis (Today)' as 'Modis'.	TRINITY	60%	04.10.2013	26.10.2013	15.10.2013	
	e) Add a calendar control with label 'Date' on the space where currently 'Navigation' is there. (See Fig. 7)	TRINITY	100%	TBD	26.10.2013	20.11.2013	
	f) Add a check box with label 'Now' next to the above calendar control. 'Now' shall be checked by default. *Labels should be in the language specified by current language mode.	TRINITY	100%	TBD	26.10.2013	20.11.2013	

	<p>g) Modify code as follows:</p> <ul style="list-style-type: none"> • When a past day is specified by the calendar control, clear 'Now' check box, and show VDM, FWI map hotspots and real-time disaster report (see 4.3.5.4) of the day specified. • When 'Now' check box is checked, show vegetation map, FWI map, hotspots and real-time disaster report of the current day, and keep updating these four real-time maps. 	TRINITY	100%	04.10.2013	26.10.2013		15.10.2013
4.2.5	Display FWI Map of the previous day until today's FWI Map becomes available						
	<p>a) Currently, FWI Map is not shown until a day is specified by its calendar control.</p>	TRINITY	100%	TBD	26.10.2013	20.11.2013	
	<p>b) Modify code as follows: When 'Now' is checked (it is checked by default) FWI Map of now should be displayed. But FWI Map is created almost every day at 2pm. Therefore, it shall be displayed by the following rule.</p> <ul style="list-style-type: none"> • If FWI Map of the current day exists now, display it. • Otherwise display FWI Map of one day before, if such exists. • Otherwise don't display FWI Map. 	TRINITY	100%	TBD	26.10.2013	20.11.2013	
4.2.6	Relocate vegetation map's attribute selector from Layers panel to the top of FMU selector						
	<p>a) Currently, attribute selectors of vegetation map are located in the Layers panel for each FMU (See Appendix A.4)</p>	TRINITY	100%	TBD	20.11.2013	20.11.2013	
	<p>b) Remove all the attribute selectors from the Layers panel.</p>	TRINITY	100%	TBD	20.11.2013	20.11.2013	
	<p>c) Add one attribute selector to the top line of FMU selector accommodated in the FMU Tab. (See Fig. 8)</p>	TRINITY	100%	TBD	20.11.2013	20.11.2013	
	<p>d) Modify code to apply the selected attribute to all the FMUs.</p>	TRINITY	100%	TBD	20.11.2013	20.11.2013	

4.3	Add New Layers / Improve Layers						
4.3.1	Improve Vegetation map Layer by including National Parks						
	a) Shape files for three national parks will be provided from PURCHASER/USER. (*Related data set cleaning in progress by SIMT)	TRINITY	0%	TBD	20.11.2013	20.11.2013	
	b) Classification of species of National parks is not compatible to PEMF classification. So, Classification shall be converted to be compatible to PEMF's according to direction of PURCHASER/USER. (*Related classification of species in progress by SIMT)	TRINITY	0%	TBD	20.11.2013	20.11.2013	
	c) Add each National park FMU polygon as a member of PEMF FMU group.	TRINITY	0%	TBD	20.11.2013	20.11.2013	
4.3.2	Improve Vegetation map Layer by including Protected area Zone 1						
	a) Shape files for Protected area Zone 1 will be provided from PURCHASER/USER. They don't contain attributes.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	b) Add each Protected area Zone 1 polygon as a member of PEMF FMU group.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.3.3	Add a New Layer for MGRS Grid						
	a) Add MGRS grid.	TRINITY	10%	TBD	30.11.2013	30.11.2013	
	b) Idea of implementation of MGRS grid can be obtained from http://dhost.info/usngweb/ (* definition of MGRS grid is different from definition of U.S. National Grid)	TRINITY	1%	TBD	30.11.2013	30.11.2013	
	c) Definition of MGRS Grid can be obtained from http://earth-info.nga.mil/GandG/coordsys/grids/mgrs.doc	TRINITY	0%	TBD	30.11.2013	30.11.2013	

	d) Suitable grids according to current zoom-in factor shall be selectable from Zone, 100km, 10km, 1km, 100m and 10m.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	Add a new Layer "Damage Forest Value Map"						
	a) Add a user privilege to enable/disable to access this map. When this layer is selected following functions shall be enabled.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	b) Allow users to draw a polygon	TRINITY	100%	TBD	30.11.2013	30.11.2013	
	c) Find intersections of the drawn polygon and subcompartments	TRINITY	100%	TBD	30.11.2013	30.11.2013	
4.3.4	<p>d) As table form, the following data shall be shown for the intersected area:</p> <ul style="list-style-type: none"> • CompartmentNo./SubCompartment No. • Intersected Area (ha) • Total Area of Subcompartment (ha) This value should be taken from Form9 of Inventory for corresponding subcompartment • % of intersected area over total area of subcompartment This value should be calculated by Intersected Area / total area of subcompartment x 100 • Value for the intersected area This value should be calculated as Value of Forest x % of intersected area where Value of Forest area shall be taken from corresponding field in Form 9 of Inventory • Total Value for the intersected areas 	TRINITY	80%	TBD	30.11.2013	30.11.2013	
	e) Result intersection polygons shall be displayed in this layer with a color classification according to the total value for the intersected areas. User shall provide classification of colors by value.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.3.5	Add new layer group – CMC Operation Maps						

4.3.5	a) Add a user privilege to enable/disable to access this Layer group.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	b) When this layer group is selected, user is allowed to draw a polygon which is used for inner polygon searches enabled by corresponding inner polygon search switches. (see Fig.6-A)	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	c) State of inner polygon search switches shall be kept in a table with a relation to the user account, and when the user logs in again, the state shall be restored.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	d) The node of "CMC Operation Maps" shall be expanded by default.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
Add a "Resource Map" Layer							
4.3.5.1	a) Create and display resource icons corresponding to resource types at the coordinates specified in resource records from UNDP Database. (See Appendix B-1)	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	b) This is not a permanent map. Successful PROPOSER shall write code to create and replace the map once a month.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	c) Add function for optional inner polygon search. Breakdown of resources in the drawn polygon shall be displayed as a table in the search result pane.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
Add a "Facility inventory Map" Layer							
4.3.5.2	a) Create and display facility inventory icons corresponding to facility types at the coordinates specified in facility inventory records from UNDP Database. (See Appendix B-1)	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	b) This is not a permanent map. Successful PROPOSER shall write code to create and replace the map once a month.	TRINITY	0%	TBD	30.11.2013	30.11.2013	

	c) Add function for optional inner polygon search. Breakdown of facility inventory in the drawn polygon shall be displayed as a table in the search result pane.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.3.5.3	Add a "Demographic Map" Layer						
	a) Show a thematic map showing total population by color classification using border of settlements.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	b) This is not a permanent map. Successful PROPOSER shall write code to create and replace the map once a month.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	c) Demographic information will be in a database to be created by UNDP which will become accessible from MKFFIS in mid July 2013. (see Appendix B-2)	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	d) Add function for optional inner polygon search. Breakdown of total population of each settlement which is intersected by the drawn polygon shall be displayed in the search result pane.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.3.5.4	Real-time disaster report from RCMC						
	a) Add a user privilege to enable/disable this function	TRINITY	60%	05.10.2013	01.11.2013	01.11.2013	
	b) Users having this privilege are able to send/edit/delete disaster report. Report consists of followings. <ul style="list-style-type: none"> • Geographic information (polygon, line, point, icon) drawn/dropped on the MKFFIS Map Pane • Text information (Details shall be decided by USER) 	TRINITY	60%	05.10.2013	01.11.2013	01.11.2013	
	c) Disaster report sent shall be stored in Disaster Report Database. (Successful PROPOSER shall prepare this database).	TRINITY	60%	05.10.2013	01.11.2013	01.11.2013	
	d) The report sent, edited, deleted shall be reflected in real time to all the MKFFIS users who are online.	TRINITY	60%	05.10.2013	01.11.2013	01.11.2013	

	e) Geographic information sent shall be displayed as a Real-time disaster Map which is one member layer of the CMC Operation Maps. (see Fig.6-A)	TRINITY	60%	05.10.2013	01.11.2013	01.11.2013	
	f) Alarm message shall be displayed upon arrival of real-time disaster report. (In a message box for example)	TRINITY	60%	05.10.2013	01.11.2013	01.11.2013	
	g) Salvage as much data as possible from ESRI Application created on ArcSDE (see APPENDIX C). Source code is not available for ESRI Application, but user account of ArcSDE database (MSSQL) will be provided.	TRINITY	0%	TBD	01.11.2013	01.11.2013	
	h) If type of disaster is forest fire; create a new CMC Forest Fire Report. (Refer to 4.6.1)	TRINITY	0%	TBD	01.11.2013	01.11.2013	
	Search disaster reports						
	a) Add a panel for this search in the second menu item of the accordion menu in Search tab. (see Fig. 10)	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	b) Only the filter by CMC classification is required. PEMF classification is not necessary.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.3.5.5	c) Search disaster report panel has following controls: <ul style="list-style-type: none"> • From Date • To Date • GCUK unit selector • RCUK unit selector • Municipality and Settlement selector • Type of events • Search Report button • Clear Result button • Print Result button 	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	d) Search result shall be shown in the search result pane.	TRINITY	0%	TBD	30.11.2013	30.11.2013	

	e) Color of GCUK or RCUK polygons shall be classified by the number of disasters in the polygons in the specified period.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	f) Result Map shall be displayed as a 'Disaster search result' which is one member layer of the CMC Operation Maps. (see Fig.6-A)	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	g) As for Print Result function, format of printed report shall be provided by USER.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.4	Add New Functions to MKFFIS						
4.4.1	Grid Information						
	a) Show following information of a MGRS Grid clicked. <ul style="list-style-type: none"> • MGRS Grid code • Summary of resources in the grid (see Appendix B-1). Resources are in a database created by UNDP which is accessible from MKFFIS. • Summary of disaster events in the grid. Disaster events are in a database created by UNDP which is accessible from MKFFIS. • Summary of facility inventories in the grid. Inventories are in a database created by UNDP which is accessible from MKFFIS. • FWI at the center of the grid. FWI grid values are kept as GeoTIFF image. • <input checked="" type="checkbox"/> Vegetation dryness at the center of the grid. Vegetation dryness grid values are kept as GetTIFF image. 	TRINITY	10%	TBD	30.12.2013	30.12.2013	
	Demographic information						
4.4.2	a) Show demographic information of an administrative area clicked (National, Municipalities, Settlements). When info button is clicked, show summary, and detail table representation to be shown below on the screen.	TRINITY	0%	TBD	30.11.2013	30.11.2013	

	b) Demographic information will be in a database to be created by UNDP which will become accessible from MKFFIS in mid July 2013.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	c) Demographic information to be shown on the info button and detailed table will be decided by USER.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	Add means to switch Between MKFFIS for internal purpose and MKFFIS for Public						
4.4.3	<p>a) Currently, MKFFIS serves for internal purpose controlling available features by user account. But another instance of MKFFIS will be installed on the Internet Server to serve public users. MKFFIS for Public can be opened without login process, but much stronger restriction will be applied. Successful PROPOSER shall add means to switch from MKFFIS for internal purpose to MKFFIS for Public. Following procedure is an example of solution.</p> <ul style="list-style-type: none"> • Define a special user GUEST. • Restriction to the public user will be applied by privilege settings of user GUEST. • Add necessary exceptions applicable to GUEST user. For example, user profile of GUEST user is not kept. • Prepare PUBLIC flag in a configuration file of MKFFIS GIS. • If the flag is OFF, MKFFIS starts normally from the login page. • VI. If the flag is ON, MKFFIS skips login page and starts from the main page, setting user name to GUEST automatically. 	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	b) Link to MKFFIS for internal purpose shall be added to the MKFFIS for public.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.4.4	Add function to fill section 5.1 in P2 report taking meteorological data from AWS.		100%	25.09.2013	09.10.2013	09.10.2013	

	a) Add an AWS select box next to the 'Meteorological Station' text box. (See Fig..11) AWS Names in the select box shall be taken dynamically from the 'meteorologicalstations' table in the CUK database.	SIMT	100%	25.09.2013	09.10.2013	09.10.2013	
	b) Search the meteorological data of the selected AWS which is closest to the date/time specified in the '2.2 Detection' text box.	SIMT	100%	25.09.2013	09.10.2013	09.10.2013	
	c) If there is no data between 3 hours before and after the date/time specified by the '2.2 Detection' text box, show message 'No AWS data available' and do nothing to the textboxes, otherwise fill following textboxes in the section 5.1 of P2 report. <ul style="list-style-type: none"> • Meteorological Station: (name of meteorological station) • hour: (hour of the meteorological data measured) • Number of days from last raining: (to fill this box some calculation is necessary) • Maximum temperature: (fill maximum temperature of the specified day) • Relative humidity • Wind Speed • Direction (Wind direction) 	SIMT	100%	25.09.2013	09.10.2013	09.10.2013	
	Changes requested from Operation department from CMC about forest fire report	SIMT	100%	03.10.2013	09.10.2013	09.10.2013	
4.5	Add New Functions/Interface to GFIS						
	Add a link to user manual						
4.5.1	a) Add a link to end user manual of GFIS GIS to the tool bar.	JICA					
	b) Add a link to end user manual of GFIS Planning to the top link.	JICA					
	c) Add a link to end user manual of GFIS Fire Report to the top link.	JICA					

	d) In English mode link to the user manual of English version, and In Macedonian mode link to the user manual of Macedonian version.	JICA					
4.5.2	Limit available FMU by user privilege						
	a) Add a function to the GFIS Admin page in order to specify FMUs under responsibility of each user.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	b) Limit FMUs to display and/or edit according to above privilege.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	c) Limit FMUs shown in the FMU Selector according to above privilege.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	d) Zoom in FMU under responsibility of the user when that user opens GFIS GIS.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.5.3	Allow access to past versions of forest plan.						
	<p>a) Currently, if a FMU polygon is edited and uploaded, old FMU polygons will be replaced by new FMU polygons. Therefore only the latest FMUs can be seen on GFIS GIS. Successful PROPOSER under the direction of PEMF shall add function to show FMUs in a past date specified by a calendar control. Following procedures are just an example of solution:</p> <ul style="list-style-type: none"> • Add a calendar control to a suitable place on GFIS GIS. • Add attributes (effective from, expired on) to each FMU. • Preset some past date such as 1900.01.01 to 'effective from' and NULL to 'expired on'. • When a new FMU is uploaded, keep the old FMU and set its 'expired on' to the updated date. • Set the updated date to the new FMU's 'effective from' and set NULL to 'expired on'. • When a past date is specified, display FMUs according to their attribute 'effective from' and 'expired on'. 	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.5.4	Search FMU by year of expiry of special plan			0%	01.12.2013	20.12.2013	20.12.2013

	a) Each FMU has its planning effective for ten years. And the duration is kept in the forest planning database. Successful PROPOSER under the direction of PEMF shall add a function to search FMUs which special plans expire in the year specified.	SIMT	0%	01.12.2013	20.12.2013	20.12.2013	
4.5.5	Change monthly input to daily for form 3, 3a and 5		100%	15.10.2013	29.10.2013	29.10.2013	
	a) Currently, data entry to the form 3, 3a and 5 is carried out on a monthly basis. Successful PROPOSER under the direction of PEMF shall modify the code to cater to daily data entry. And add two options to the print function for these forms, one is daily summary, the other is monthly summary.	SIMT	100%	15.10.2013	29.10.2013	29.10.2013	
4.5.6	Keep annual achievement for 10 years in Form 6		100%	28.10.2013	06.11.2013	06.11.2013	
	a) Successful PROPOSER under the direction of PEMF shall modify code and design of Form 6 data entry sheet to keep annual achievement for 10 years for each sub compartment. Items to keep are as follows. <ul style="list-style-type: none"> • Area (ha) • Number of seedlings • Weight of seeds (kg) 	SIMT	100%	28.10.2013	06.11.2013	06.11.2013	
4.5.7	Keep annual achievement for 10 years in Form 8		100%	01.11.2013	06.11.2013	06.11.2013	
	a) Successful PROPOSER under the direction of PEMF shall modify code and design of Form 8 data entry sheet to keep annual achievement for 10 years for each sub compartment. Items to keep are as follows. <ul style="list-style-type: none"> • Length of roads (km) • Cleared wood (m3) 	SIMT	100%	01.11.2013	06.11.2013	06.11.2013	
4.5.8	Fill area in Form 1 taken from polygon attribute		80%	20.11.2013	01.12.2013	01.12.2013	
	a) Successful PROPOSER under the direction of PEMF shall modify code of Form 1 data entry sheet to fill area automatically taken from the attribute of polygon corresponding to selected sub compartment.	SIMT	80%	20.11.2013	01.12.2013	01.12.2013	

4.5.9	Add National and Regional office level summaries to the reports in Reports/Rekapitulari menu.		100%	03.10.2013	20.10.2013	20.10.2013	
	a) Currently, reports under the Reports/Rekapitulari menu are summary of selected FMU. Successful PROPOSER under the direction of PEMF shall add summary of National level and Regional Office level, and add links to corresponding summaries in the menu.	SIMT	100%	03.10.2013	20.10.2013	20.10.2013	
	b) FMUs shall be classified by regional office in order to create regional office summary.	SIMT	100%	03.10.2013	20.10.2013	20.10.2013	
6.	Improvement related to MKFFIS & GFIS modules						
4.6.1	Modify PEMF Fire Report input module to report by fire.						
	<p>a) Currently fire report is created in PEMF by each sub compartment even in case of one big fire over several compartments. On the other hand, in the CMC fire report (P2 report) is fire based, not sub compartment based. Therefore, a fire report divided into several reports by sub compartment must be merged at CMC to create P2 report for one fire. There are some complaints in PEMF for this process.</p> <ul style="list-style-type: none"> PEMF does not want redundant data entry. For example, some common fields such as start of fire and end of fire should be entered repeatedly for each related sub compartment. PEMF has authority to identify a fire over several sub compartments, therefore merging reports by sub compartment into one fire report should be conducted by PEMF. Fire report from PEMF does not have to be by sub compartment. Report by fire is acceptable. 	SIMT	0%	06.11.2013	TBD	25.11.2013	

WEEKLY PROGRESS REPORT for the period from November 1st to November 7th 2013

	<p>b) Because P2 report module has a function to manage a report containing information of multiple sub compartments, applying the same approach to the PEMF fire report will be an elegant solution.</p>	SIMT	0%	06.11.2013	TBD	25.11.2013	
	<p>c) Successful PROPOSER under direction of USER shall conduct following modification.</p> <ul style="list-style-type: none"> • Modify current PEMF fire report module on GFIS Fire Report so that it can report by fire by adding functionality to manage information from multiple sub compartments. • Remove MERGE PEMF REPORT function from P2 report module in MKFFIS Fire Report. • Add IMPORT PEMF REPORT function to MKFFIS Fire Report • Adjust P2 Report module on MKFFIS Fire Report to be able to show correctly the Fire report which was imported from PEMF REPORT • Rename P2 Report as CMC Forest Fire Report. • Add 'read-only' user privilege to GFIS Fire Report and MKFFIS Fire Report which allows MKFFIS user to browse PEMF fire report, and allows GFIS user to browse CMC Fire Report. • Printing format of PEMF Fire Report to obtain approval of SiFH shall not be changed. 	SIMT	0%	06.11.2013	TBD	25.11.2013	
7.	Performance Tuning						
4.7.1	Performance tuning of MKFFIS		10%				

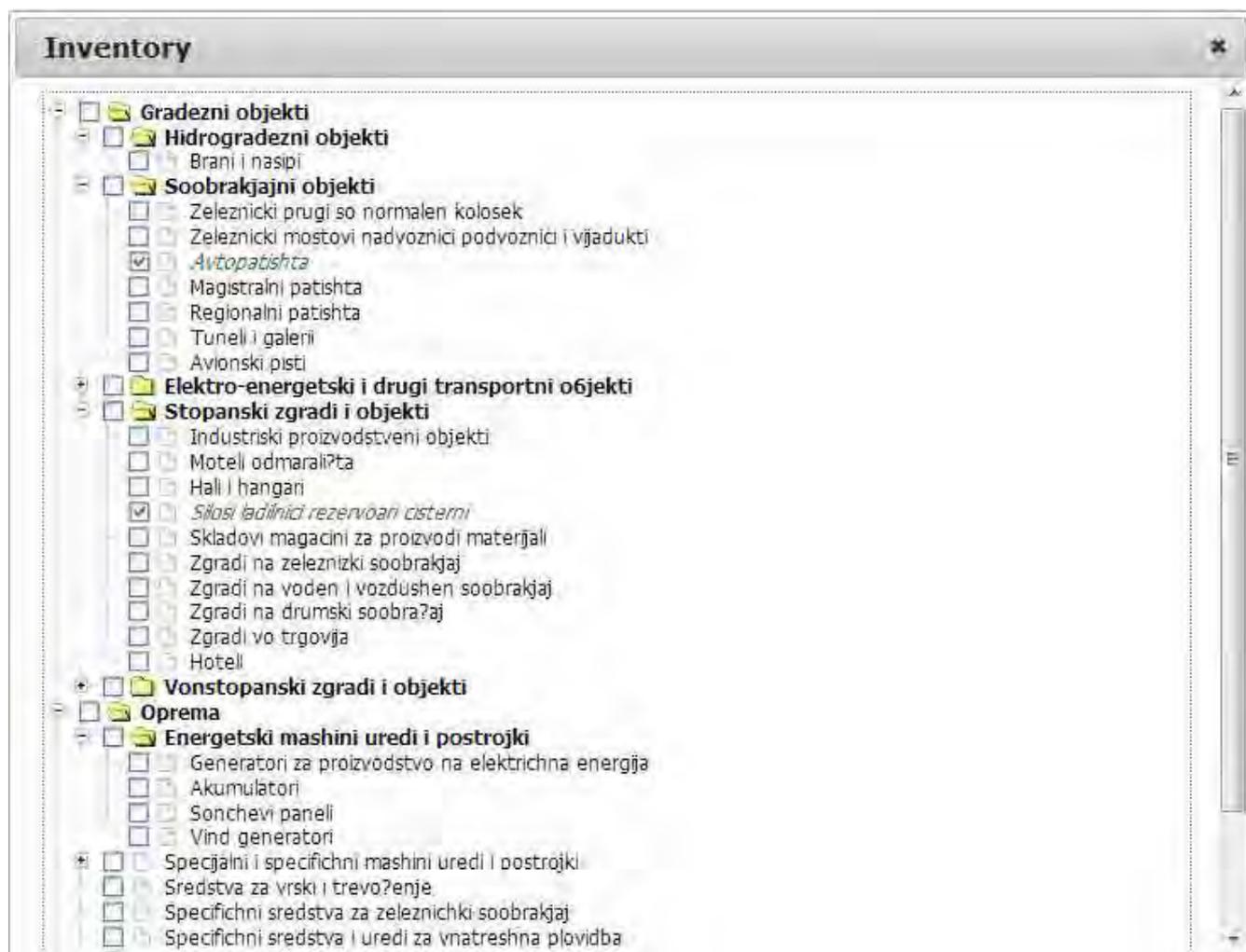
	<p>a) Currently, there are following complaints about speed.</p> <ul style="list-style-type: none"> • MKFFIS GIS takes very long time to show the login page, if it is accessed over a long distance. For example, accessing from Japan, it takes 90 seconds to open the login page and another 90 • Speed to show FMUs is slow, and from time to time it fails to show them. 	TRINITY	30%	02.10.2013	25.10.2013	25.10.2013	
	<p>b) MKFFIS GIS shall be optimized by execution speed.</p>	TRINITY	30%	02.10.2013	25.10.2013	25.10.2013	
	<p>c) Optimization is not limited to source code level. All the possible factors shall be taken into account. For example, server configuration, deployment of files, network structure, use of external servers (Google server for jQuery), indexing of tables in databases, etc.</p>	TRINITY	10%	02.10.2013	25.10.2013	25.10.2013	
	<p>d) Improvement of performance should be shown quantitatively.</p>	TRINITY	15%	02.10.2013	25.10.2013	25.10.2013	
	Performance tuning of GFIS						
4.7.2	<p>a) Currently, there are following complaints about speed which are similar to MKFFIS GIS.</p> <ul style="list-style-type: none"> • GFIS GIS takes very long time to show the login page, if it is accessed over a long distance. • Speed to show FMUs is slow, and from time to time it fails to show them. 	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013	
	<p>b) GFIS GIS shall be optimized by execution speed</p>	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013	
	<p>c) Optimization is not limited to source code level. All the possible factors shall be taken into account. For example, server configuration, deployment of files, network structure, use of external servers (Google server for jQuery), indexing of tables in databases, etc.</p>	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013	

	d) Improvement of performance should be shown quantitatively.	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013	
8.	Installation/QA/Training/Documentation						
4.8.1	MKFFIS and GIS Installation, Quality Assurance, Training, Documentation						
4.8.2	GFIS and GIS Installation, Quality Assurance, Training, Documentation						

4.2 Improve MKFFIS User Interface

4.3 Add New Layers / Improve Layers

4.3.5 We are having problems with the encoding of the DBA cur_registry database that holds the information for the resource, facility inventory and demographic map. Other problem is the Macedonian only version of the data. There is no English data in the database whatsoever. We have constructed a test tree view for selecting the appropriate resources and inventory data for the inner polygon search.



4.3.5.4 Real-time disaster report from RCMC **TRINITY & SIMT**

Target: MKFFIS GIS

. We have added the functionality of a point, line and polygon to be drawn and connected with an even. Now each event can be associated with multiple polygons, lines and/or points.

4.4 Add New Functions to MKFFIS

4.4.1 We have started to work on the MGRS GRID. The idea is taken from the script that Mr. Kozu created. The lines are drawn from code, but when a user select a particular section of the grid a polygon is created on top of the grid

containing the bounds of the quadrant. This is needed for getting the information via the intersection function provided by Openlayers. We are confident that the GRID will be done by 31.11.2013

4.4.4 Add function to fill section 5.1 in P2 report taking meteorological data from AWS. **SIMT**

Target: MKFFIS Fire Report

Waiting for test on side be CMC/JICA and approval.

Demo is on test side.

4.5 Add New Functions/Interface to GFIS

4.5.4 Search FMU by year of expiry of special plan **TRINITY & SIMT**

Target: GFIS GIS

4.5.5 Change monthly input to daily for form 3, 3a and 5 **SIMT**

Target: GFIS Planning

Waiting for test on side be PEMF/CMC/JICA and approval.

Demo is on test side.

4.5.6 Keep annual achievement for 10 years in Form 6 **SIMT**

Waiting for test on side be PEMF/CMC/JICA and approval.

Demo is on test side.

Target: GFIS Planning

4.5.7 Keep annual achievement for 10 years in Form 8 **SIMT**

Waiting for test on side be PEMF/CMC/JICA and approval.

Demo is on test side.

Target: GFIS Planning

4.5.8 Fill area in Form 1 taken from polygon attribute **SIMT**

Read area from shape files is done and main view is made. Update in form 1 is done. Still in testing mode from our side.

Target: GFIS Planning

4.5.9 Add National and Regional office level summaries to the reports in Reports/Rekapitulari menu. **SIMT**

Target: GFIS Planning

Waiting for test on side be PEMF/CMC/JICA and approval.

Demo is on test side.

4.6 Improvement related to both MKFFIS and GFIS modules

4.6.1 Modify PEMF Fire Report input module to report by fire. **SIMT**

4.7.1 Trinity extensively works on finding ways of fixing the performance issues. Unnecessary scripts are being deleted, performance tuning on the loading of the layers is done, external loading of the scripts is done etc.

- SD 2 -

WEEKLY PROGRESS REPORT No.7
For period from November 8th to November 15th, 2013

Author: EDUSOFT, SIMT, TRINITY
Creation Date: November 15th, 2013

Seq. No.	Task Description	Assignee	Current % of progress	DATES			
				Planned Start	Planned End	Contracted/ Targeted	Tested Accepted by Purchaser User
4.2	Improve MKFFIS User Interface						
4.2.1	Reform MKFFIS Left pane						
	a) Remove Accordion menu, Navigation and Layers button from the left pane.	TRINITY	100%	02.10.2013	18.10.2013	10.10.2013	
	b) Add Tab control with five tabs.	TRINITY	100%	02.10.2013	18.10.2013	10.10.2013	
	c) Deploy Layers panel in the first tab named 'Layers'. This tab should be a default. (See Fig. 7)	TRINITY		02.10.2013	18.10.2013	10.10.2013	
	d) Deploy Map Selector in the second tab named 'Maps'. Show hierarchy of each map using a tree view control, except vegetation map. Show only the root node for vegetation map in the tree view. (See Fig.6) Because vegetation map has a lot of FMUs as its children, FMU selector should be accommodated in a separate tab (e). (See Fig. 8)	TRINITY	100%	02.10.2013	26.10.2013	10.10.2013	
	e) Deploy FMU selector in the third tab named 'FMU'. (See Fig. 8)	TRINITY	100%	02.10.2013	18.10.2013	10.10.2013	
	f) Deploy an accordion menu with two menu items in the fourth tab named 'Search'. Deploy Search Forest History panel in the first accordion menu item. (See Fig. 10)	TRINITY	80%	02.10.2013	01.12.2013	01.12.2013	
	g) Deploy AWS Overview panel in the fifth tab named 'AWS'. (See Fig. 9)	TRINITY	40%	02.10.2013	01.12.2013	01.12.2013	
	h) Tab names should be displayed in the language specified by the current language mode.	TRINITY	0%	02.10.2013	31.12.2013	31.12.2013	

	i) Layer settings in the Layers panel (Order of the layers, selected maps) and selected maps in the Map Selector and FMU selector shall be kept in a table with a relation to the user account, and when the user logs in again, the settings shall be restored.	TRINITY	0%	TBD	31.12.2013	31.12.2013	
4.2.2	Add a link to user manual		%				
	a) Add a link to end user manual of MKFFIS GIS to the tool bar.	JICA	0%	TBD	20.11.2013	20.11.2013	
	b) Add a link to end user manual of MKFFIS Fire Report to the top link.	JICA	0%	TBD	20.11.2013	20.11.2013	
	c) In English mode link to the user manual of English version, and In Macedonian mode link to the user manual of Macedonian version.	JICA	0%	TBD	20.11.2013	20.11.2013	
4.2.3	Change background image seasonally		%				
	a) Change background image on the login page seasonally. Image for each season will be provided by USER.	TRINITY	80%	TBD	20.11.2013	20.11.2013	
4.2.4	Add a common calendar control						
	a) Currently, vegetation dryness map (VDM) and FWI map have their own calendar control independently. And each hotspot (Seviri, Modis and Modis raw) has selections of 1 day ago, 2 days ago and 3 days ago.	TRINITY	100%	.04.10.2013	26.10.2013	15.10.2013	
	b) Remove the calendar control for VDM and FWI map.	TRINITY	100%	04.10.2013	26.10.2013	15.10.2013	
	c) Remove the hot spot selections: 1 day ago, 2 days ago and 3 days ago.	TRINITY	60%	04.10.2013	22.11.2013	15.10.2013	
	d) Rename hot spot selections: 'Seviri (Today)' as 'Seviri', 'Modis (Today)' as 'Modis'.	TRINITY	60%	04.10.2013	22.11.2013	15.10.2013	
	e) Add a calendar control with label 'Date' on the space where currently 'Navigation' is there. (See Fig. 7)	TRINITY	100%	TBD	26.10.2013	20.11.2013	
	f) Add a check box with label 'Now' next to the above calendar control. 'Now' shall be checked by default. *Labels should be in the language specified by current language mode.	TRINITY	100%	TBD	26.10.2013	20.11.2013	

	<p>g) Modify code as follows:</p> <ul style="list-style-type: none"> • When a past day is specified by the calendar control, clear 'Now' check box, and show VDM, FWI map hotspots and real-time disaster report (see 4.3.5.4) of the day specified. • When 'Now' check box is checked, show vegetation map, FWI map, hotspots and real-time disaster report of the current day, and keep updating these four real-time maps. 	TRINITY	100%	04.10.2013	26.10.2013		15.10.2013
4.2.5	Display FWI Map of the previous day until today's FWI Map becomes available						
	<p>a) Currently, FWI Map is not shown until a day is specified by its calendar control.</p>	TRINITY	100%	TBD	26.10.2013	20.11.2013	
	<p>b) Modify code as follows: When 'Now' is checked (it is checked by default) FWI Map of now should be displayed. But FWI Map is created almost every day at 2pm. Therefore, it shall be displayed by the following rule.</p> <ul style="list-style-type: none"> • If FWI Map of the current day exists now, display it. • Otherwise display FWI Map of one day before, if such exists. • Otherwise don't display FWI Map. 	TRINITY	100%	TBD	26.10.2013	20.11.2013	
4.2.6	Relocate vegetation map's attribute selector from Layers panel to the top of FMU selector						
	<p>a) Currently, attribute selectors of vegetation map are located in the Layers panel for each FMU (See Appendix A.4)</p>	TRINITY	100%	TBD	20.11.2013	20.11.2013	
	<p>b) Remove all the attribute selectors from the Layers panel.</p>	TRINITY	100%	TBD	20.11.2013	20.11.2013	
	<p>c) Add one attribute selector to the top line of FMU selector accommodated in the FMU Tab. (See Fig. 8)</p>	TRINITY	100%	TBD	20.11.2013	20.11.2013	
	<p>d) Modify code to apply the selected attribute to all the FMUs.</p>	TRINITY	100%	TBD	20.11.2013	20.11.2013	

4.3	Add New Layers / Improve Layers						
4.3.1	Improve Vegetation map Layer by including National Parks						
	a) Shape files for three national parks will be provided from PURCHASER/USER. (*Related data set cleaning in progress by SIMT)	TRINITY	0%	TBD	22.11.2013	20.11.2013	
	b) Classification of species of National parks is not compatible to PEMF classification. So, Classification shall be converted to be compatible to PEMF's according to direction of PURCHASER/USER. (*Related classification of species in progress by SIMT)	TRINITY	0%	TBD	22.11.2013	20.11.2013	
	c) Add each National park FMU polygon as a member of PEMF FMU group.	TRINITY	0%	TBD	22.11.2013	20.11.2013	
4.3.2	Improve Vegetation map Layer by including Protected area Zone 1						
	a) Shape files for Protected area Zone 1 will be provided from PURCHASER/USER. They don't contain attributes.	TRINITY	0%	TBD	22.11.2013	30.11.2013	
	b) Add each Protected area Zone 1 polygon as a member of PEMF FMU group.	TRINITY	0%	TBD	22.11.2013	30.11.2013	
4.3.3	Add a New Layer for MGRS Grid						
	a) Add MGRS grid.	TRINITY	80%	TBD	30.11.2013	30.11.2013	
	b) Idea of implementation of MGRS grid can be obtained from http://dhost.info/usngweb/ (* definition of MGRS grid is different from definition of U.S. National Grid)	TRINITY	80%	TBD	30.11.2013	30.11.2013	
	c) Definition of MGRS Grid can be obtained from http://earth-info.nga.mil/GandG/coordsys/grids/mgrs.doc	TRINITY	80%	TBD	30.11.2013	30.11.2013	

	d) Suitable grids according to current zoom-in factor shall be selectable from Zone, 100km, 10km, 1km, 100m and 10m.	TRINITY	100%	TBD	30.11.2013	30.11.2013	
	Add a new Layer "Damage Forest Value Map"						
	a) Add a user privilege to enable/disable to access this map. When this layer is selected following functions shall be enabled.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	b) Allow users to draw a polygon	TRINITY	100%	TBD	30.11.2013	30.11.2013	
	c) Find intersections of the drawn polygon and subcompartments	TRINITY	100%	TBD	30.11.2013	30.11.2013	
4.3.4	<p>d) As table form, the following data shall be shown for the intersected area:</p> <ul style="list-style-type: none"> • CompartmentNo./SubCompartment No. • Intersected Area (ha) • Total Area of Subcompartment (ha) This value should be taken from Form9 of Inventory for corresponding subcompartment • % of intersected area over total area of subcompartment This value should be calculated by Intersected Area / total area of subcompartment x 100 • Value for the intersected area This value should be calculated as Value of Forest x % of intersected area where Value of Forest area shall be taken from corresponding field in Form 9 of Inventory • Total Value for the intersected areas 	TRINITY	80%	TBD	30.11.2013	30.11.2013	
	e) <u>Result intersection polygons shall be displayed in this layer with a color classification according to the total value for the intersected areas. User shall provide classification of colors by value. Abandoned request. No coloring of intersected polygons.</u>	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.3.5	Add new layer group – CMC Operation Maps						

4.3.5	a) Add a user privilege to enable/disable to access this Layer group.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	b) When this layer group is selected, user is allowed to draw a polygon which is used for inner polygon searches enabled by corresponding inner polygon search switches. (see Fig.6-A)	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	c) State of inner polygon search switches shall be kept in a table with a relation to the user account, and when the user logs in again, the state shall be restored.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	d) The node of "CMC Operation Maps" shall be expanded by default.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
Add a "Resource Map" Layer							
4.3.5.1	a) Create and display resource icons corresponding to resource types at the coordinates specified in resource records from UNDP Database. (See Appendix B-1)	TRINITY	70%	TBD	30.11.2013	30.11.2013	
	b) This is not a permanent map. Successful PROPOSER shall write code to create and replace the map once a month.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	c) Add function for optional inner polygon search. Breakdown of resources in the drawn polygon shall be displayed as a table in the search result pane.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
Add a "Facility inventory Map" Layer							
4.3.5.2	a) Create and display facility inventory icons corresponding to facility types at the coordinates specified in facility inventory records from UNDP Database. (See Appendix B-1)	TRINITY	70%	TBD	30.11.2013	30.11.2013	
	b) This is not a permanent map. Successful PROPOSER shall write code to create and replace the map once a month.	TRINITY	0%	TBD	30.11.2013	30.11.2013	

	c) Add function for optional inner polygon search. Breakdown of facility inventory in the drawn polygon shall be displayed as a table in the search result pane.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.3.5.3	Add a "Demographic Map" Layer						
	a) Show a thematic map showing total population by color classification using border of settlements.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	b) This is not a permanent map. Successful PROPOSER shall write code to create and replace the map once a month.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	c) Demographic information will be in a database to be created by UNDP which will become accessible from MKFFIS in mid July 2013. (see Appendix B-2)	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	d) Add function for optional inner polygon search. Breakdown of total population of each settlement which is intersected by the drawn polygon shall be displayed in the search result pane.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.3.5.4	Real-time disaster report from RCMC						
	a) Add a user privilege to enable/disable this function	TRINITY	60%	05.10.2013	30.11.2013	01.11.2013	
	b) Users having this privilege are able to send/edit/delete disaster report. Report consists of followings. <ul style="list-style-type: none"> • Geographic information (polygon, line, point, icon) drawn/dropped on the MKFFIS Map Pane • Text information (Details shall be decided by USER) 	TRINITY	80%	05.10.2013	30.11.2013	01.11.2013	
	c) Disaster report sent shall be stored in Disaster Report Database. (Successful PROPOSER shall prepare this database).	TRINITY	100%	05.10.2013	01.11.2013	01.11.2013	
	d) The report sent, edited, deleted shall be reflected in real time to all the MKFFIS users who are online.	TRINITY	60%	05.10.2013	30.11.2013	01.11.2013	

	e) Geographic information sent shall be displayed as a Real-time disaster Map which is one member layer of the CMC Operation Maps. (see Fig.6-A)	TRINITY	60%	05.10.2013	30.11.2013	01.11.2013	
	f) Alarm message shall be displayed upon arrival of real-time disaster report. (In a message box for example)	TRINITY	60%	05.10.2013	30.11.2013	01.11.2013	
	g) <u>Salvage as much data as possible from ESRI Application created on ArcSDE (see APPENDIX C). Source code is not available for ESRI Application, but user account of ArcSDE database (MSSQL) will be provided. This is abandoned request as it's not doable</u>	TRINITY	0%	TBD	01.11.2013	01.11.2013	
	h) <u>If type of disaster is forest fire; create a new CMC Forest Fire Report. (Refer to 4.6.1) Abandoned too.</u>	TRINITY	0%	TBD	01.11.2013	01.11.2013	
	Search disaster reports						
	a) Add a panel for this search in the second menu item of the accordion menu in Search tab. (see Fig. 10)	TRINITY	60%	TBD	30.11.2013	30.11.2013	
	b) Only the filter by CMC classification is required. PEMF classification is not necessary.	TRINITY	60%	TBD	30.11.2013	30.11.2013	
4.3.5.5	c) Search disaster report panel has following controls: <ul style="list-style-type: none"> • From Date • To Date • GCUK unit selector • RCUK unit selector • Municipality and Settlement selector • Type of events • Search Report button • Clear Result button • Print Result button 	TRINITY	60%	TBD	30.11.2013	30.11.2013	
	d) Search result shall be shown in the search result pane.	TRINITY	60%	TBD	30.11.2013	30.11.2013	

	e) Color of GCUK or RCUK polygons shall be classified by the number of disasters in the polygons in the specified period.	TRINITY	60%	TBD	30.11.2013	30.11.2013	
	f) Result Map shall be displayed as a 'Disaster search result' which is one member layer of the CMC Operation Maps. (see Fig.6-A)	TRINITY	60%	TBD	30.11.2013	30.11.2013	
	g) As for Print Result function, format of printed report shall be provided by USER.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.4	Add New Functions to MKFFIS						
4.4.1	Grid Information						
	a) Show following information of a MGRS Grid clicked. <ul style="list-style-type: none"> • MGRS Grid code • Summary of resources in the grid (see Appendix B-1). Resources are in a database created by UNDP which is accessible from MKFFIS. • Summary of disaster events in the grid. Disaster events are in a database created by UNDP which is accessible from MKFFIS. • Summary of facility inventories in the grid. Inventories are in a database created by UNDP which is accessible from MKFFIS. • FWI at the center of the grid. FWI grid values are kept as GeoTIFF image. • <input type="checkbox"/> Vegetation dryness at the center of the grid. Vegetation dryness grid values are kept as GetTIFF image. 	TRINITY	60%	TBD	30.12.2013	30.12.2013	
	Demographic information						
4.4.2	a) Show demographic information of an administrative area clicked (National, Municipalities, Settlements). When info button is clicked, show summary, and detail table representation to be shown below on the screen.	TRINITY	0%	TBD	30.11.2013	30.11.2013	

	b) Demographic information will be in a database to be created by UNDP which will become accessible from MKFFIS in mid July 2013.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	c) Demographic information to be shown on the info button and detailed table will be decided by USER.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	Add means to switch Between MKFFIS for internal purpose and MKFFIS for Public						
4.4.3	<p>a) Currently, MKFFIS serves for internal purpose controlling available features by user account. But another instance of MKFFIS will be installed on the Internet Server to serve public users. MKFFIS for Public can be opened without login process, but much stronger restriction will be applied. Successful PROPOSER shall add means to switch from MKFFIS for internal purpose to MKFFIS for Public. Following procedure is an example of solution.</p> <ul style="list-style-type: none"> • Define a special user GUEST. • Restriction to the public user will be applied by privilege settings of user GUEST. • Add necessary exceptions applicable to GUEST user. For example, user profile of GUEST user is not kept. • Prepare PUBLIC flag in a configuration file of MKFFIS GIS. • If the flag is OFF, MKFFIS starts normally from the login page. • VI. If the flag is ON, MKFFIS skips login page and starts from the main page, setting user name to GUEST automatically. 	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	b) Link to MKFFIS for internal purpose shall be added to the MKFFIS for public.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.4.4	Add function to fill section 5.1 in P2 report taking meteorological data from AWS.		100%	25.09.2013	09.10.2013	09.10.2013	

	a) Add an AWS select box next to the 'Meteorological Station' text box. (See Fig..11) AWS Names in the select box shall be taken dynamically from the 'meteorologicalstations' table in the CUK database.	SIMT	100%	25.09.2013	09.10.2013	09.10.2013	
	b) Search the meteorological data of the selected AWS which is closest to the date/time specified in the '2.2 Detection' text box.	SIMT	100%	25.09.2013	09.10.2013	09.10.2013	
	c) If there is no data between 3 hours before and after the date/time specified by the '2.2 Detection' text box, show message 'No AWS data available' and do nothing to the textboxes, otherwise fill following textboxes in the section 5.1 of P2 report. <ul style="list-style-type: none"> • Meteorological Station: (name of meteorological station) • hour: (hour of the meteorological data measured) • Number of days from last raining: (to fill this box some calculation is necessary) • Maximum temperature: (fill maximum temperature of the specified day) • Relative humidity • Wind Speed • Direction (Wind direction) 	SIMT	100%	25.09.2013	09.10.2013	09.10.2013	
	Changes requested from Operation department from CMC about forest fire report	SIMT	100%	03.10.2013	09.10.2013	09.10.2013	
4.5	Add New Functions/Interface to GFIS						
	Add a link to user manual						
4.5.1	a) Add a link to end user manual of GFIS GIS to the tool bar.	JICA					
	b) Add a link to end user manual of GFIS Planning to the top link.	JICA					
	c) Add a link to end user manual of GFIS Fire Report to the top link.	JICA					

	d) In English mode link to the user manual of English version, and In Macedonian mode link to the user manual of Macedonian version.	JICA					
4.5.2	Limit available FMU by user privilege						
	a) Add a function to the GFIS Admin page in order to specify FMUs under responsibility of each user.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	b) Limit FMUs to display and/or edit according to above privilege.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	c) Limit FMUs shown in the FMU Selector according to above privilege.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	d) Zoom in FMU under responsibility of the user when that user opens GFIS GIS.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.5.3	Allow access to past versions of forest plan.						
	<p>a) Currently, if a FMU polygon is edited and uploaded, old FMU polygons will be replaced by new FMU polygons. Therefore only the latest FMUs can be seen on GFIS GIS. Successful PROPOSER under the direction of PEMF shall add function to show FMUs in a past date specified by a calendar control. Following procedures are just an example of solution:</p> <ul style="list-style-type: none"> • Add a calendar control to a suitable place on GFIS GIS. • Add attributes (effective from, expired on) to each FMU. • Preset some past date such as 1900.01.01 to 'effective from' and NULL to 'expired on'. • When a new FMU is uploaded, keep the old FMU and set its 'expired on' to the updated date. • Set the updated date to the new FMU's 'effective from' and set NULL to 'expired on'. • When a past date is specified, display FMUs according to their attribute 'effective from' and 'expired on'. 	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.5.4	Search FMU by year of expiry of special plan			0%	01.12.2013	20.12.2013	20.12.2013

	a) Each FMU has its planning effective for ten years. And the duration is kept in the forest planning database. Successful PROPOSER under the direction of PEMF shall add a function to search FMUs which special plans expire in the year specified.	SIMT	0%	01.12.2013	20.12.2013	20.12.2013	
4.5.5	Change monthly input to daily for form 3, 3a and 5		100%	15.10.2013	29.10.2013	29.10.2013	
	a) Currently, data entry to the form 3, 3a and 5 is carried out on a monthly basis. Successful PROPOSER under the direction of PEMF shall modify the code to cater to daily data entry. And add two options to the print function for these forms, one is daily summary, the other is monthly summary.	SIMT	100%	15.10.2013	29.10.2013	29.10.2013	
4.5.6	Keep annual achievement for 10 years in Form 6		100%	28.10.2013	06.11.2013	06.11.2013	
	a) Successful PROPOSER under the direction of PEMF shall modify code and design of Form 6 data entry sheet to keep annual achievement for 10 years for each sub compartment. Items to keep are as follows. <ul style="list-style-type: none"> • Area (ha) • Number of seedlings • Weight of seeds (kg) 	SIMT	100%	28.10.2013	06.11.2013	06.11.2013	
4.5.7	Keep annual achievement for 10 years in Form 8		100%	01.11.2013	06.11.2013	06.11.2013	
	a) Successful PROPOSER under the direction of PEMF shall modify code and design of Form 8 data entry sheet to keep annual achievement for 10 years for each sub compartment. Items to keep are as follows. <ul style="list-style-type: none"> • Length of roads (km) • Cleared wood (m3) 	SIMT	100%	01.11.2013	06.11.2013	06.11.2013	
4.5.8	Fill area in Form 1 taken from polygon attribute		90%	20.11.2013	01.12.2013	01.12.2013	
	a) Successful PROPOSER under the direction of PEMF shall modify code of Form 1 data entry sheet to fill area automatically taken from the attribute of polygon corresponding to selected sub compartment.	SIMT	90%	20.11.2013	01.12.2013	01.12.2013	

4.5.9	Add National and Regional office level summaries to the reports in Reports/Rekapitulari menu.		100%	03.10.2013	20.10.2013	20.10.2013	
	a) Currently, reports under the Reports/Rekapitulari menu are summary of selected FMU. Successful PROPOSER under the direction of PEMF shall add summary of National level and Regional Office level, and add links to corresponding summaries in the menu.	SIMT	100%	03.10.2013	20.10.2013	20.10.2013	
	b) FMUs shall be classified by regional office in order to create regional office summary.	SIMT	100%	03.10.2013	20.10.2013	20.10.2013	
6.	Improvement related to MKFFIS & GFIS modules						
4.6.1	Modify PEMF Fire Report input module to report by fire.						
	a) Currently fire report is created in PEMF by each sub compartment even in case of one big fire over several compartments. On the other hand, in the CMC fire report (P2 report) is fire based, not sub compartment based. Therefore, a fire report divided into several reports by sub compartment must be merged at CMC to create P2 report for one fire. There are some complaints in PEMF for this process. <ul style="list-style-type: none"> PEMF does not want redundant data entry. For example, some common fields such as start of fire and end of fire should be entered repeatedly for each related sub compartment. PEMF has authority to identify a fire over several sub compartments, therefore merging reports by sub compartment into one fire report should be conducted by PEMF. Fire report from PEMF does not have to be by sub compartment. Report by fire is acceptable. 	SIMT	20%	06.11.2013	TBD	25.11.2013	

	<p>b) Because P2 report module has a function to manage a report containing information of multiple sub compartments, applying the same approach to the PEMF fire report will be an elegant solution.</p>	SIMT	20%	06.11.2013	TBD	25.11.2013	
	<p>c) Successful PROPOSER under direction of USER shall conduct following modification.</p> <ul style="list-style-type: none"> • Modify current PEMF fire report module on GFIS Fire Report so that it can report by fire by adding functionality to manage information from multiple sub compartments. • Remove MERGE PEMF REPORT function from P2 report module in MKFFIS Fire Report. • Add IMPORT PEMF REPORT function to MKFFIS Fire Report • Adjust P2 Report module on MKFFIS Fire Report to be able to show correctly the Fire report which was imported from PEMF REPORT • Rename P2 Report as CMC Forest Fire Report. • Add 'read-only' user privilege to GFIS Fire Report and MKFFIS Fire Report which allows MKFFIS user to browse PEMF fire report, and allows GFIS user to browse CMC Fire Report. • Printing format of PEMF Fire Report to obtain approval of SiFH shall not be changed. 	SIMT	20%	06.11.2013	TBD	25.11.2013	
7.	Performance Tuning						
4.7.1	Performance tuning of MKFFIS		10%				

	<p>a) Currently, there are following complaints about speed.</p> <ul style="list-style-type: none"> • MKFFIS GIS takes very long time to show the login page, if it is accessed over a long distance. For example, accessing from Japan, it takes 90 seconds to open the login page and another 90 • Speed to show FMUs is slow, and from time to time it fails to show them. 	TRINITY	30%	02.10.2013	25.10.2013	25.10.2013	
	<p>b) MKFFIS GIS shall be optimized by execution speed.</p>	TRINITY	30%	02.10.2013	25.10.2013	25.10.2013	
	<p>c) Optimization is not limited to source code level. All the possible factors shall be taken into account. For example, server configuration, deployment of files, network structure, use of external servers (Google server for jQuery), indexing of tables in databases, etc.</p>	TRINITY	10%	02.10.2013	25.10.2013	25.10.2013	
	<p>d) Improvement of performance should be shown quantitatively.</p>	TRINITY	15%	02.10.2013	25.10.2013	25.10.2013	
	Performance tuning of GFIS						
4.7.2	<p>a) Currently, there are following complaints about speed which are similar to MKFFIS GIS.</p> <ul style="list-style-type: none"> • GFIS GIS takes very long time to show the login page, if it is accessed over a long distance. • Speed to show FMUs is slow, and from time to time it fails to show them. 	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013	
	<p>b) GFIS GIS shall be optimized by execution speed</p>	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013	
	<p>c) Optimization is not limited to source code level. All the possible factors shall be taken into account. For example, server configuration, deployment of files, network structure, use of external servers (Google server for jQuery), indexing of tables in databases, etc.</p>	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013	

	d) Improvement of performance should be shown quantitatively.	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013	
8.	Installation/QA/Training/Documentation						
4.8.1	MKFFIS and GIS Installation, Quality Assurance, Training, Documentation						
4.8.2	GFIS and GIS Installation, Quality Assurance, Training, Documentation						

4.4 Add New Functions to MKFFIS

4.4.1 We have started to work on the MGRS GRID. The idea is taken from the script that Mr. Kozu created. The lines are drawn from code, but when a user select a particular section of the grid a polygon is created on top of the grid containing the bounds of the quadrant. This is needed for getting the information via the intersection function provided by Openlayers. We are confident that the GRID will be done by 31.11.2013

4.4.4 Add function to fill section 5.1 in P2 report taking meteorological data from AWS. **SIMT**

Target: MKFFIS Fire Report

Waiting for test on side be CMC/JICA and approval.

Demo is on test side.

4.5 Add New Functions/Interface to GFIS

4.5.4 Search FMU by year of expiry of special plan **TRINITY & SIMT**

Target: GFIS GIS

4.5.5 Change monthly input to daily for form 3, 3a and 5 **SIMT**

Target: GFIS Planning

Waiting for test on side be PEMF/CMC/JICA and approval.

Demo is on test side.

4.5.6 Keep annual achievement for 10 years in Form 6 **SIMT**

Waiting for test on side be PEMF/CMC/JICA and approval.

Demo is on test side.

Target: GFIS Planning

4.5.7 Keep annual achievement for 10 years in Form 8 **SIMT**

Waiting for test on side be PEMF/CMC/JICA and approval.

Demo is on test side.

Target: GFIS Planning

4.5.8 Fill area in Form 1 taken from polygon attribute **SIMT**

Only translating need to be done.

Target: GFIS Planning

4.5.9 Add National and Regional office level summaries to the reports in Reports/Rekapitulari menu. **SIMT**

Target: GFIS Planning

Waiting for test on side be PEMF/CMC/JICA and approval.

Demo is on test side.

4.6 Improvement related to both MKFFIS and GFIS modules

4.6.1 Modify PEMF Fire Report input module to report by fire. **SIMT**

Changes in the main input form for forest fire report is made.

4.7.1 Trinity extensively works on finding ways of fixing the performance issues. Unnecessary scripts are being deleted, performance tuning on the loading of the layers is done, external loading of the scripts is done etc.

- SD 2 -

WEEKLY PROGRESS REPORT No.8
For period from November 15th to November 22th, 2013

Author: EDUSOFT, SIMT, TRINITY
Creation Date: November 22th, 2013

Seq. No.	Task Description	Assignee	Current % of progress	DATES			
				Planned Start	Planned End	Contracted/ Targeted	Tested Accepted by Purchaser User
4.2	Improve MKFFIS User Interface						
4.2.1	Reform MKFFIS Left pane						
	a) Remove Accordion menu, Navigation and Layers button from the left pane.	TRINITY	100%	02.10.2013	18.10.2013	10.10.2013	
	b) Add Tab control with five tabs.	TRINITY	100%	02.10.2013	18.10.2013	10.10.2013	
	c) Deploy Layers panel in the first tab named 'Layers'. This tab should be a default. (See Fig. 7)	TRINITY		02.10.2013	18.10.2013	10.10.2013	
	d) Deploy Map Selector in the second tab named 'Maps'. Show hierarchy of each map using a tree view control, except vegetation map. Show only the root node for vegetation map in the tree view. (See Fig.6) Because vegetation map has a lot of FMUs as its children, FMU selector should be accommodated in a separate tab (e). (See Fig. 8)	TRINITY	100%	02.10.2013	26.10.2013	10.10.2013	
	e) Deploy FMU selector in the third tab named 'FMU'. (See Fig. 8)	TRINITY	100%	02.10.2013	18.10.2013	10.10.2013	
	f) Deploy an accordion menu with two menu items in the fourth tab named 'Search'. Deploy Search Forest History panel in the first accordion menu item. (See Fig. 10)	TRINITY	80%	02.10.2013	01.12.2013	01.12.2013	
	g) Deploy AWS Overview panel in the fifth tab named 'AWS'. (See Fig. 9)	TRINITY	40%	02.10.2013	01.12.2013	01.12.2013	
	h) Tab names should be displayed in the language specified by the current language mode.	TRINITY	0%	02.10.2013	31.12.2013	31.12.2013	

	i) Layer settings in the Layers panel (Order of the layers, selected maps) and selected maps in the Map Selector and FMU selector shall be kept in a table with a relation to the user account, and when the user logs in again, the settings shall be restored.	TRINITY	10%	TBD	31.12.2013	31.12.2013	
4.2.2	Add a link to user manual		%				
	a) Add a link to end user manual of MKFFIS GIS to the tool bar.	JICA	0%	TBD	20.11.2013	20.11.2013	
	b) Add a link to end user manual of MKFFIS Fire Report to the top link.	JICA	0%	TBD	20.11.2013	20.11.2013	
	c) In English mode link to the user manual of English version, and In Macedonian mode link to the user manual of Macedonian version.	JICA	0%	TBD	20.11.2013	20.11.2013	
4.2.3	Change background image seasonally		%				
	a) Change background image on the login page seasonally. Image for each season will be provided by USER.	TRINITY	100%	TBD	20.11.2013	20.11.2013	
4.2.4	Add a common calendar control						
	a) Currently, vegetation dryness map (VDM) and FWI map have their own calendar control independently. And each hotspot (Seviri, Modis and Modis raw) has selections of 1 day ago, 2 days ago and 3 days ago.	TRINITY	100%	.04.10.2013	26.10.2013	15.10.2013	
	b) Remove the calendar control for VDM and FWI map.	TRINITY	100%	04.10.2013	26.10.2013	15.10.2013	
	c) Remove the hot spot selections: 1 day ago, 2 days ago and 3 days ago.	TRINITY	100%	04.10.2013	22.11.2013	15.10.2013	
	d) Rename hot spot selections: 'Seviri (Today)' as 'Seviri', 'Modis (Today)' as 'Modis'.	TRINITY	100%	04.10.2013	22.11.2013	15.10.2013	
	e) Add a calendar control with label 'Date' on the space where currently 'Navigation' is there. (See Fig. 7)	TRINITY	100%	TBD	26.10.2013	20.11.2013	
	f) Add a check box with label 'Now' next to the above calendar control. 'Now' shall be checked by default. *Labels should be in the language specified by current language mode.	TRINITY	100%	TBD	26.10.2013	20.11.2013	

	<p>g) Modify code as follows:</p> <ul style="list-style-type: none"> • When a past day is specified by the calendar control, clear 'Now' check box, and show VDM, FWI map hotspots and real-time disaster report (see 4.3.5.4) of the day specified. • When 'Now' check box is checked, show vegetation map, FWI map, hotspots and real-time disaster report of the current day, and keep updating these four real-time maps. 	TRINITY	100%	04.10.2013	26.10.2013		15.10.2013
4.2.5	Display FWI Map of the previous day until today's FWI Map becomes available						
	<p>a) Currently, FWI Map is not shown until a day is specified by its calendar control.</p>	TRINITY	100%	TBD	26.10.2013	20.11.2013	
	<p>b) Modify code as follows: When 'Now' is checked (it is checked by default) FWI Map of now should be displayed. But FWI Map is created almost every day at 2pm. Therefore, it shall be displayed by the following rule.</p> <ul style="list-style-type: none"> • If FWI Map of the current day exists now, display it. • Otherwise display FWI Map of one day before, if such exists. • Otherwise don't display FWI Map. 	TRINITY	100%	TBD	26.10.2013	20.11.2013	
4.2.6	Relocate vegetation map's attribute selector from Layers panel to the top of FMU selector						
	<p>a) Currently, attribute selectors of vegetation map are located in the Layers panel for each FMU (See Appendix A.4)</p>	TRINITY	100%	TBD	20.11.2013	20.11.2013	
	<p>b) Remove all the attribute selectors from the Layers panel.</p>	TRINITY	100%	TBD	20.11.2013	20.11.2013	
	<p>c) Add one attribute selector to the top line of FMU selector accommodated in the FMU Tab. (See Fig. 8)</p>	TRINITY	100%	TBD	20.11.2013	20.11.2013	
	<p>d) Modify code to apply the selected attribute to all the FMUs.</p>	TRINITY	100%	TBD	20.11.2013	20.11.2013	

4.3	Add New Layers / Improve Layers						
4.3.1	Improve Vegetation map Layer by including National Parks						
	a) Shape files for three national parks will be provided from PURCHASER/USER. (*Related data set cleaning in progress by SIMT)	TRINITY	5%	TBD	29.11.2013	20.11.2013	
	b) Classification of species of National parks is not compatible to PEMF classification. So, Classification shall be converted to be compatible to PEMF's according to direction of PURCHASER/USER. (*Related classification of species in progress by SIMT)	TRINITY	5%	TBD	29.11.2013	20.11.2013	
	c) Add each National park FMU polygon as a member of PEMF FMU group.	TRINITY	5%	TBD	29.11.2013	20.11.2013	
4.3.2	Improve Vegetation map Layer by including Protected area Zone 1						
	a) Shape files for Protected area Zone 1 will be provided from PURCHASER/USER. They don't contain attributes.	TRINITY	5%	TBD	29.11.2013	30.11.2013	
	b) Add each Protected area Zone 1 polygon as a member of PEMF FMU group.	TRINITY	5%	TBD	29.11.2013	30.11.2013	
4.3.3	Add a New Layer for MGRS Grid						
	a) Add MGRS grid.	TRINITY	100%	TBD	30.11.2013	30.11.2013	
	b) Idea of implementation of MGRS grid can be obtained from http://dhost.info/usngweb/ (* definition of MGRS grid is different from definition of U.S. National Grid)	TRINITY	100%	TBD	30.11.2013	30.11.2013	
	c) Definition of MGRS Grid can be obtained from http://earth-info.nga.mil/GandG/coordsys/grids/mgrs.doc	TRINITY	100%	TBD	30.11.2013	30.11.2013	

	d) Suitable grids according to current zoom-in factor shall be selectable from Zone, 100km, 10km, 1km, 100m and 10m.	TRINITY	100%	TBD	30.11.2013	30.11.2013	
	Add a new Layer "Damage Forest Value Map"						
	a) Add a user privilege to enable/disable to access this map. When this layer is selected following functions shall be enabled.	TRINITY	90%	TBD	30.11.2013	30.11.2013	
	b) Allow users to draw a polygon	TRINITY	100%	TBD	30.11.2013	30.11.2013	
	c) Find intersections of the drawn polygon and subcompartments	TRINITY	100%	TBD	30.11.2013	30.11.2013	
4.3.4	<p>d) As table form, the following data shall be shown for the intersected area:</p> <ul style="list-style-type: none"> • CompartmentNo./SubCompartment No. • Intersected Area (ha) • Total Area of Subcompartment (ha) This value should be taken from Form9 of Inventory for corresponding subcompartment • % of intersected area over total area of subcompartment This value should be calculated by Intersected Area / total area of subcompartment x 100 • Value for the intersected area This value should be calculated as Value of Forest x % of intersected area where Value of Forest area shall be taken from corresponding field in Form 9 of Inventory • Total Value for the intersected areas 	TRINITY	80%	TBD	30.11.2013	30.11.2013	
	e) <u>Result intersection polygons shall be displayed in this layer with a color classification according to the total value for the intersected areas. User shall provide classification of colors by value.</u>	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.3.5	Add new layer group – CMC Operation Maps						

4.3.5	a) Add a user privilege to enable/disable to access this Layer group.	TRINITY	90%	TBD	30.11.2013	30.11.2013	
	b) When this layer group is selected, user is allowed to draw a polygon which is used for inner polygon searches enabled by corresponding inner polygon search switches. (see Fig.6-A)	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	c) State of inner polygon search switches shall be kept in a table with a relation to the user account, and when the user logs in again, the state shall be restored.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	d) The node of "CMC Operation Maps" shall be expanded by default.	TRINITY	100%	TBD	30.11.2013	30.11.2013	
Add a "Resource Map" Layer							
4.3.5.1	a) Create and display resource icons corresponding to resource types at the coordinates specified in resource records from UNDP Database. (See Appendix B-1)	TRINITY	90%	TBD	30.11.2013	30.11.2013	
	b) This is not a permanent map. Successful PROPOSER shall write code to create and replace the map once a month.	TRINITY	90%	TBD	30.11.2013	30.11.2013	
	c) Add function for optional inner polygon search. Breakdown of resources in the drawn polygon shall be displayed as a table in the search result pane.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
Add a "Facility inventory Map" Layer							
4.3.5.2	a) Create and display facility inventory icons corresponding to facility types at the coordinates specified in facility inventory records from UNDP Database. (See Appendix B-1)	TRINITY	90%	TBD	30.11.2013	30.11.2013	
	b) This is not a permanent map. Successful PROPOSER shall write code to create and replace the map once a month.	TRINITY	90%	TBD	30.11.2013	30.11.2013	

	c) Add function for optional inner polygon search. Breakdown of facility inventory in the drawn polygon shall be displayed as a table in the search result pane.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.3.5.3	Add a "Demographic Map" Layer						
	a) Show a thematic map showing total population by color classification using border of settlements.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	b) This is not a permanent map. Successful PROPOSER shall write code to create and replace the map once a month.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	c) Demographic information will be in a database to be created by UNDP which will become accessible from MKFFIS in mid July 2013. (see Appendix B-2)	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	d) Add function for optional inner polygon search. Breakdown of total population of each settlement which is intersected by the drawn polygon shall be displayed in the search result pane.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.3.5.4	Real-time disaster report from RCMC						
	a) Add a user privilege to enable/disable this function	TRINITY	90%	05.10.2013	30.11.2013	01.11.2013	
	b) Users having this privilege are able to send/edit/delete disaster report. Report consists of followings. <ul style="list-style-type: none"> • Geographic information (polygon, line, point, icon) drawn/dropped on the MKFFIS Map Pane • Text information (Details shall be decided by USER) 	TRINITY	90%	05.10.2013	30.11.2013	01.11.2013	
	c) Disaster report sent shall be stored in Disaster Report Database. (Successful PROPOSER shall prepare this database).	TRINITY	100%	05.10.2013	01.11.2013	01.11.2013	
	d) The report sent, edited, deleted shall be reflected in real time to all the MKFFIS users who are online.	TRINITY	100%	05.10.2013	30.11.2013	01.11.2013	

	e) Geographic information sent shall be displayed as a Real-time disaster Map which is one member layer of the CMC Operation Maps. (see Fig.6-A)	TRINITY	100%	05.10.2013	30.11.2013	01.11.2013	
	f) Alarm message shall be displayed upon arrival of real-time disaster report. (In a message box for example)	TRINITY	60%	05.10.2013	30.11.2013	01.11.2013	
	g) <u>Salvage as much data as possible from ESRI Application created on ArcSDE (see APPENDIX C). Source code is not available for ESRI Application, but user account of ArcSDE database (MSSQL) will be provided.</u>	TRINITY	0%	TBD	01.11.2013	01.11.2013	
	h) <u>If type of disaster is forest fire; create a new CMC Forest Fire Report. (Refer to 4.6.1)</u>	TRINITY	0%	TBD	01.11.2013	01.11.2013	
	Search disaster reports						
	a) Add a panel for this search in the second menu item of the accordion menu in Search tab. (see Fig. 10)	TRINITY	60%	TBD	30.11.2013	30.11.2013	
	b) Only the filter by CMC classification is required. PEMF classification is not necessary.	TRINITY	60%	TBD	30.11.2013	30.11.2013	
4.3.5.5	c) Search disaster report panel has following controls: <ul style="list-style-type: none"> • From Date • To Date • GCUK unit selector • RCUK unit selector • Municipality and Settlement selector • Type of events • Search Report button • Clear Result button • Print Result button 	TRINITY	60%	TBD	30.11.2013	30.11.2013	
	d) Search result shall be shown in the search result pane.	TRINITY	60%	TBD	30.11.2013	30.11.2013	

	e) Color of GCUK or RCUK polygons shall be classified by the number of disasters in the polygons in the specified period.	TRINITY	60%	TBD	30.11.2013	30.11.2013	
	f) Result Map shall be displayed as a 'Disaster search result' which is one member layer of the CMC Operation Maps. (see Fig.6-A)	TRINITY	60%	TBD	30.11.2013	30.11.2013	
	g) As for Print Result function, format of printed report shall be provided by USER.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.4	Add New Functions to MKFFIS						
4.4.1	Grid Information						
	a) Show following information of a MGRS Grid clicked. <ul style="list-style-type: none"> • MGRS Grid code • Summary of resources in the grid (see Appendix B-1). Resources are in a database created by UNDP which is accessible from MKFFIS. • Summary of disaster events in the grid. Disaster events are in a database created by UNDP which is accessible from MKFFIS. • Summary of facility inventories in the grid. Inventories are in a database created by UNDP which is accessible from MKFFIS. • FWI at the center of the grid. FWI grid values are kept as GeoTIFF image. • <input checked="" type="checkbox"/> Vegetation dryness at the center of the grid. Vegetation dryness grid values are kept as GetTIFF image. 	TRINITY	60%	TBD	30.12.2013	30.12.2013	
	Demographic information						
4.4.2	a) Show demographic information of an administrative area clicked (National, Municipalities, Settlements). When info button is clicked, show summary, and detail table representation to be shown below on the screen.	TRINITY	0%	TBD	30.11.2013	30.11.2013	

	b) Demographic information will be in a database to be created by UNDP which will become accessible from MKFFIS in mid July 2013.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	c) Demographic information to be shown on the info button and detailed table will be decided by USER.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	Add means to switch Between MKFFIS for internal purpose and MKFFIS for Public						
4.4.3	<p>a) Currently, MKFFIS serves for internal purpose controlling available features by user account. But another instance of MKFFIS will be installed on the Internet Server to serve public users. MKFFIS for Public can be opened without login process, but much stronger restriction will be applied. Successful PROPOSER shall add means to switch from MKFFIS for internal purpose to MKFFIS for Public. Following procedure is an example of solution.</p> <ul style="list-style-type: none"> • Define a special user GUEST. • Restriction to the public user will be applied by privilege settings of user GUEST. • Add necessary exceptions applicable to GUEST user. For example, user profile of GUEST user is not kept. • Prepare PUBLIC flag in a configuration file of MKFFIS GIS. • If the flag is OFF, MKFFIS starts normally from the login page. • VI. If the flag is ON, MKFFIS skips login page and starts from the main page, setting user name to GUEST automatically. 	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	b) Link to MKFFIS for internal purpose shall be added to the MKFFIS for public.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.4.4	Add function to fill section 5.1 in P2 report taking meteorological data from AWS.		100%	25.09.2013	09.10.2013	09.10.2013	

	a) Add an AWS select box next to the 'Meteorological Station' text box. (See Fig..11) AWS Names in the select box shall be taken dynamically from the 'meteorologicalstations' table in the CUK database.	SIMT	100%	25.09.2013	09.10.2013	09.10.2013	
	b) Search the meteorological data of the selected AWS which is closest to the date/time specified in the '2.2 Detection' text box.	SIMT	100%	25.09.2013	09.10.2013	09.10.2013	
	c) If there is no data between 3 hours before and after the date/time specified by the '2.2 Detection' text box, show message 'No AWS data available' and do nothing to the textboxes, otherwise fill following textboxes in the section 5.1 of P2 report. <ul style="list-style-type: none"> • Meteorological Station: (name of meteorological station) • hour: (hour of the meteorological data measured) • Number of days from last raining: (to fill this box some calculation is necessary) • Maximum temperature: (fill maximum temperature of the specified day) • Relative humidity • Wind Speed • Direction (Wind direction) 	SIMT	100%	25.09.2013	09.10.2013	09.10.2013	
	Changes requested from Operation department from CMC about forest fire report	SIMT	100%	03.10.2013	09.10.2013	09.10.2013	
4.5	Add New Functions/Interface to GFIS						
	Add a link to user manual						
4.5.1	a) Add a link to end user manual of GFIS GIS to the tool bar.	JICA					
	b) Add a link to end user manual of GFIS Planning to the top link.	JICA					
	c) Add a link to end user manual of GFIS Fire Report to the top link.	JICA					

	d) In English mode link to the user manual of English version, and In Macedonian mode link to the user manual of Macedonian version.	JICA					
4.5.2	Limit available FMU by user privilege						
	a) Add a function to the GFIS Admin page in order to specify FMUs under responsibility of each user.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	b) Limit FMUs to display and/or edit according to above privilege.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	c) Limit FMUs shown in the FMU Selector according to above privilege.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	d) Zoom in FMU under responsibility of the user when that user opens GFIS GIS.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.5.3	Allow access to past versions of forest plan.						
	<p>a) Currently, if a FMU polygon is edited and uploaded, old FMU polygons will be replaced by new FMU polygons. Therefore only the latest FMUs can be seen on GFIS GIS. Successful PROPOSER under the direction of PEMF shall add function to show FMUs in a past date specified by a calendar control. Following procedures are just an example of solution:</p> <ul style="list-style-type: none"> • Add a calendar control to a suitable place on GFIS GIS. • Add attributes (effective from, expired on) to each FMU. • Preset some past date such as 1900.01.01 to 'effective from' and NULL to 'expired on'. • When a new FMU is uploaded, keep the old FMU and set its 'expired on' to the updated date. • Set the updated date to the new FMU's 'effective from' and set NULL to 'expired on'. • When a past date is specified, display FMUs according to their attribute 'effective from' and 'expired on'. 	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.5.4	Search FMU by year of expiry of special plan			50%	15.11.2013	01.12.2013	01.12.2013

	a) Each FMU has its planning effective for ten years. And the duration is kept in the forest planning database. Successful PROPOSER under the direction of PEMF shall add a function to search FMUs which special plans expire in the year specified.	SIMT	50%	15.11.2013	01.12.2013	01.12.2013	
4.5.5	Change monthly input to daily for form 3, 3a and 5		100%	15.10.2013	29.10.2013	29.10.2013	
	a) Currently, data entry to the form 3, 3a and 5 is carried out on a monthly basis. Successful PROPOSER under the direction of PEMF shall modify the code to cater to daily data entry. And add two options to the print function for these forms, one is daily summary, the other is monthly summary.	SIMT	100%	15.10.2013	29.10.2013	29.10.2013	
4.5.6	Keep annual achievement for 10 years in Form 6		100%	28.10.2013	06.11.2013	06.11.2013	
	a) Successful PROPOSER under the direction of PEMF shall modify code and design of Form 6 data entry sheet to keep annual achievement for 10 years for each sub compartment. Items to keep are as follows. <ul style="list-style-type: none">• Area (ha)• Number of seedlings• Weight of seeds (kg)	SIMT	100%	28.10.2013	06.11.2013	06.11.2013	
4.5.7	Keep annual achievement for 10 years in Form 8		100%	01.11.2013	06.11.2013	06.11.2013	
	a) Successful PROPOSER under the direction of PEMF shall modify code and design of Form 8 data entry sheet to keep annual achievement for 10 years for each sub compartment. Items to keep are as follows. <ul style="list-style-type: none">• Length of roads (km)• Cleared wood (m3)	SIMT	100%	01.11.2013	06.11.2013	06.11.2013	
4.5.8	Fill area in Form 1 taken from polygon attribute		90%	10.11.2013	25.11.2013	25.12.2013	
	a) Successful PROPOSER under the direction of PEMF shall modify code of Form 1 data entry sheet to fill area automatically taken from the attribute of polygon corresponding to selected sub compartment.	SIMT	90%	10.11.2013	25.11.2013	25.12.2013	

	Add National and Regional office level summaries to the reports in Reports/Rekapitulari menu.		100%	03.10.2013	20.10.2013	20.10.2013	
4.5.9	a) Currently, reports under the Reports/Rekapitulari menu are summary of selected FMU. Successful PROPOSER under the direction of PEMF shall add summary of National level and Regional Office level, and add links to corresponding summaries in the menu.	SIMT	100%	03.10.2013	20.10.2013	20.10.2013	
	b) FMUs shall be classified by regional office in order to create regional office summary.	SIMT	100%	03.10.2013	20.10.2013	20.10.2013	
4.5.1 0*	NEW REQUEST - Add middle aged forest in PEMF	SIMT	0%	01.12.2013	TBD	TBD	
	a) Add in the input form selection for middle aged forest in form 2a	SIMT	0%	01.12.2013	10.12.2013	10.12.2013	
	b) Add group section in the reports for forest	SIMT	0%	TBD	TBD	TBD	
6.	Improvement related to MKFFIS & GFIS modules						
4.6.1	Modify PEMF Fire Report input module to report by fire.	SIMT	40%	06.11.2013	01.12.2013	01.12.2013	

	<p>a) Currently fire report is created in PEMF by each sub compartment even in case of one big fire over several compartments. On the other hand, in the CMC fire report (P2 report) is fire based, not sub compartment based. Therefore, a fire report divided into several reports by sub compartment must be merged at CMC to create P2 report for one fire. There are some complaints in PEMF for this process.</p> <ul style="list-style-type: none"> • PEMF does not want redundant data entry. For example, some common fields such as start of fire and end of fire should be entered repeatedly for each related sub compartment. • PEMF has authority to identify a fire over several sub compartments, therefore merging reports by sub compartment into one fire report should be conducted by PEMF. • Fire report from PEMF does not have to be by sub compartment. Report by fire is acceptable. 	SIMT	40%	06.11.2013	01.12.2013	01.12.2013	
	<p>b) Because P2 report module has a function to manage a report containing information of multiple sub compartments, applying the same approach to the PEMF fire report will be an elegant solution.</p>	SIMT	40%	06.11.2013	01.12.2013	01.12.2013	

	<p>c) Successful PROPOSER under direction of USER shall conduct following modification.</p> <ul style="list-style-type: none"> • Modify current PEMF fire report module on GFIS Fire Report so that it can report by fire by adding functionality to manage information from multiple sub compartments. • Remove MERGE PEMF REPORT function from P2 report module in MKFFIS Fire Report. • Add IMPORT PEMF REPORT function to MKFFIS Fire Report • Adjust P2 Report module on MKFFIS Fire Report to be able to show correctly the Fire report which was imported from PEMF REPORT • Rename P2 Report as CMC Forest Fire Report. • Add 'read-only' user privilege to GFIS Fire Report and MKFFIS Fire Report which allows MKFFIS user to browse PEMF fire report, and allows GFIS user to browse CMC Fire Report. • Printing format of PEMF Fire Report to obtain approval of SiFH shall not be changed. 	SIMT	40%	06.11.2013	01.12.2013	01.12.2013	
7.	Performance Tuning						
4.7.1	Performance tuning of MKFFIS		10%				
	<p>a) Currently, there are following complaints about speed.</p> <ul style="list-style-type: none"> • MKFFIS GIS takes very long time to show the login page, if it is accessed over a long distance. For example, accessing from Japan, it takes 90 seconds to open the login page and another 90 • Speed to show FMUs is slow, and from time to time it fails to show them. 	TRINITY	30%	02.10.2013	25.10.2013	25.10.2013	
	<p>b) MKFFIS GIS shall be optimized by execution speed.</p>	TRINITY	30%	02.10.2013	25.10.2013	25.10.2013	

	c) Optimization is not limited to source code level. All the possible factors shall be taken into account. For example, server configuration, deployment of files, network structure, use of external servers (Google server for jQuery), indexing of tables in databases, etc.	TRINITY	10%	02.10.2013	25.10.2013	25.10.2013	
	d) Improvement of performance should be shown quantitatively.	TRINITY	15%	02.10.2013	25.10.2013	25.10.2013	
	Performance tuning of GFIS						
	a) Currently, there are following complaints about speed which are similar to MKFFIS GIS. <ul style="list-style-type: none"> • GFIS GIS takes very long time to show the login page, if it is accessed over a long distance. • Speed to show FMUs is slow, and from time to time it fails to show them. 	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013	
4.7.2	b) GFIS GIS shall be optimized by execution speed	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013	
	c) Optimization is not limited to source code level. All the possible factors shall be taken into account. For example, server configuration, deployment of files, network structure, use of external servers (Google server for jQuery), indexing of tables in databases, etc.	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013	
	d) Improvement of performance should be shown quantitatively.	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013	
8.	Installation/QA/Training/Documentation						
4.8.1	MKFFIS and GIS Installation, Quality Assurance, Training, Documentation						
4.8.2	GFIS and GIS Installation, Quality Assurance, Training, Documentation						

4.4 Add New Functions to MKFFIS

4.4.1 We have started to work on the MGRS GRID. The idea is taken from the script that Mr. Kozu created. The lines are drawn from code, but when a user select a particular section of the grid a polygon is created on top of the grid containing the bounds of the quadrant. This is needed for getting the information via the intersection function provided by Openlayers. We are confident that the GRID will be done by 31.11.2013

4.4.4 Add function to fill section 5.1 in P2 report taking meteorological data from AWS. **SIMT**

Target: MKFFIS Fire Report

Waiting for test on side be CMC/JICA and approval.

Demo is on test side.

4.5 Add New Functions/Interface to GFIS

4.5.4 Search FMU by year of expiry of special plan **SIMT**

Target: GFIS Planning

History for forms 1, 3a, 4, 5, 6, 7, 8 and 9 with printing is done and login page with choose of history is done. Still forms 2, 2a and 3 need to be done, and also reports according to the history plan.

Demo is on test side.

4.5.5 Change monthly input to daily for form 3, 3a and 5 **SIMT**

Target: GFIS Planning

Waiting for test on side be PEMF/CMC/JICA and approval.

Demo is on test side.

4.5.6 Keep annual achievement for 10 years in Form 6 **SIMT**

Waiting for test on side be PEMF/CMC/JICA and approval.

Demo is on test side.

Target: GFIS Planning

4.5.7 Keep annual achievement for 10 years in Form 8 **SIMT**

Waiting for test on side be PEMF/CMC/JICA and approval.

Demo is on test side.

Target: GFIS Planning

4.5.8 Fill area in Form 1 taken from polygon attribute **SIMT**

Translation to English need to be done. Demo is on test side.

Target: GFIS Planning

4.5.9 Add National and Regional office level summaries to the reports in Reports/Rekapitulari menu. **SIMT**

Target: GFIS Planning

Waiting for test on side be PEMF/CMC/JICA and approval.

Demo is on test side.

4.6 Improvement related to both MKFFIS and GFIS modules

4.6.1 Modify PEMF Fire Report input module to report by fire. **SIMT**

Input form is done for insert and editing. Printing is done. Demo is on test server. Initial testing and transfer to CMC Forest Fire report need to be done. Demo is on test side.

4.7.1 Trinity extensively works on finding ways of fixing the performance issues. Unnecessary scripts are being deleted, performance tuning on the loading of the layers is done, external loading of the scripts is done etc.

Presentation

At Wednesday, 20.11.2013, SIMT made presentation of the new modules from SD2 that is done so far. Main agreement/remark was that function 4.5.9 is main benefit from the new functions to the planning engineers and other function will be very useful for employees in the regional centers, but not for planning engineers. That's why we should think about presentation to them, and maybe training also for them. Other remark is about functions for SD1, and they need in the navigation panel, when moving from one sub compartment to another, in forms 2 and 2a, to have text boxes for direct navigate for other sub compartment, because already made searching need two more clicks.

- SD 2 -

WEEKLY PROGRESS REPORT No.9
For period from November 22nd to November 29th, 2013

Author: EDUSOFT, SIMT, TRINITY
Creation Date: November 29th, 2013

Seq. No.	Task Description	Assignee	Current % of progress	DATES			
				Planned Start	Planned End	Contracted/ Targeted	Tested Accepted by Purchaser User
4.2	Improve MKFFIS User Interface						
4.2.1	Reform MKFFIS Left pane						
	a) Remove Accordion menu, Navigation and Layers button from the left pane.	TRINITY	100%	02.10.2013	18.10.2013	10.10.2013	
	b) Add Tab control with five tabs.	TRINITY	100%	02.10.2013	18.10.2013	10.10.2013	
	c) Deploy Layers panel in the first tab named 'Layers'. This tab should be a default. (See Fig. 7)	TRINITY		02.10.2013	18.10.2013	10.10.2013	
	d) Deploy Map Selector in the second tab named 'Maps'. Show hierarchy of each map using a tree view control, except vegetation map. Show only the root node for vegetation map in the tree view. (See Fig.6) Because vegetation map has a lot of FMUs as its children, FMU selector should be accommodated in a separate tab (e). (See Fig. 8)	TRINITY	100%	02.10.2013	26.10.2013	10.10.2013	
	e) Deploy FMU selector in the third tab named 'FMU'. (See Fig. 8)	TRINITY	100%	02.10.2013	18.10.2013	10.10.2013	
	f) Deploy an accordion menu with two menu items in the fourth tab named 'Search'. Deploy Search Forest History panel in the first accordion menu item. (See Fig. 10)	TRINITY	80%	02.10.2013	01.12.2013	01.12.2013	
	g) Deploy AWS Overview panel in the fifth tab named 'AWS'. (See Fig. 9)	TRINITY	100%	02.10.2013	01.12.2013	01.12.2013	
	h) Tab names should be displayed in the language specified by the current language mode.	TRINITY	0%	02.10.2013	31.12.2013	31.12.2013	

	i) Layer settings in the Layers panel (Order of the layers, selected maps) and selected maps in the Map Selector and FMU selector shall be kept in a table with a relation to the user account, and when the user logs in again, the settings shall be restored.	TRINITY	100%	TBD	31.12.2013	31.12.2013	
4.2.2	Add a link to user manual		%				
	a) Add a link to end user manual of MKFFIS GIS to the tool bar.	JICA	0%	TBD	20.11.2013	20.11.2013	
	b) Add a link to end user manual of MKFFIS Fire Report to the top link.	JICA	0%	TBD	20.11.2013	20.11.2013	
	c) In English mode link to the user manual of English version, and In Macedonian mode link to the user manual of Macedonian version.	JICA	0%	TBD	20.11.2013	20.11.2013	
4.2.3	Change background image seasonally		%				
	a) Change background image on the login page seasonally. Image for each season will be provided by USER.	TRINITY	100%	TBD	20.11.2013	20.11.2013	
4.2.4	Add a common calendar control						
	a) Currently, vegetation dryness map (VDM) and FWI map have their own calendar control independently. And each hotspot (Seviri, Modis and Modis raw) has selections of 1 day ago, 2 days ago and 3 days ago.	TRINITY	100%	.04.10.2013	26.10.2013	15.10.2013	
	b) Remove the calendar control for VDM and FWI map.	TRINITY	100%	04.10.2013	26.10.2013	15.10.2013	
	c) Remove the hot spot selections: 1 day ago, 2 days ago and 3 days ago.	TRINITY	100%	04.10.2013	22.11.2013	15.10.2013	
	d) Rename hot spot selections: 'Seviri (Today)' as 'Seviri', 'Modis (Today)' as 'Modis'.	TRINITY	100%	04.10.2013	22.11.2013	15.10.2013	
	e) Add a calendar control with label 'Date' on the space where currently 'Navigation' is there. (See Fig. 7)	TRINITY	100%	TBD	26.10.2013	20.11.2013	
	f) Add a check box with label 'Now' next to the above calendar control. 'Now' shall be checked by default. *Labels should be in the language specified by current language mode.	TRINITY	100%	TBD	26.10.2013	20.11.2013	

	<p>g) Modify code as follows:</p> <ul style="list-style-type: none"> • When a past day is specified by the calendar control, clear 'Now' check box, and show VDM, FWI map hotspots and real-time disaster report (see 4.3.5.4) of the day specified. • When 'Now' check box is checked, show vegetation map, FWI map, hotspots and real-time disaster report of the current day, and keep updating these four real-time maps. 	TRINITY	100%	04.10.2013	26.10.2013		15.10.2013
4.2.5	Display FWI Map of the previous day until today's FWI Map becomes available						
	<p>a) Currently, FWI Map is not shown until a day is specified by its calendar control.</p>	TRINITY	100%	TBD	26.10.2013	20.11.2013	
	<p>b) Modify code as follows: When 'Now' is checked (it is checked by default) FWI Map of now should be displayed. But FWI Map is created almost every day at 2pm. Therefore, it shall be displayed by the following rule.</p> <ul style="list-style-type: none"> • If FWI Map of the current day exists now, display it. • Otherwise display FWI Map of one day before, if such exists. • Otherwise don't display FWI Map. 	TRINITY	100%	TBD	26.10.2013	20.11.2013	
4.2.6	Relocate vegetation map's attribute selector from Layers panel to the top of FMU selector						
	<p>a) Currently, attribute selectors of vegetation map are located in the Layers panel for each FMU (See Appendix A.4)</p>	TRINITY	100%	TBD	20.11.2013	20.11.2013	
	<p>b) Remove all the attribute selectors from the Layers panel.</p>	TRINITY	100%	TBD	20.11.2013	20.11.2013	
	<p>c) Add one attribute selector to the top line of FMU selector accommodated in the FMU Tab. (See Fig. 8)</p>	TRINITY	100%	TBD	20.11.2013	20.11.2013	
	<p>d) Modify code to apply the selected attribute to all the FMUs.</p>	TRINITY	100%	TBD	20.11.2013	20.11.2013	

4.3	Add New Layers / Improve Layers						
4.3.1	Improve Vegetation map Layer by including National Parks						
	a) Shape files for three national parks will be provided from PURCHASER/USER. (*Related data set cleaning in progress by SIMT)	TRINITY	60%	TBD	29.11.2013	20.11.2013	
	b) Classification of species of National parks is not compatible to PEMF classification. So, Classification shall be converted to be compatible to PEMF's according to direction of PURCHASER/USER. (*Related classification of species in progress by SIMT)	TRINITY	60%	TBD	29.11.2013	20.11.2013	
	c) Add each National park FMU polygon as a member of PEMF FMU group.	TRINITY	60%	TBD	29.11.2013	20.11.2013	
4.3.2	Improve Vegetation map Layer by including Protected area Zone 1						
	a) Shape files for Protected area Zone 1 will be provided from PURCHASER/USER. They don't contain attributes.	TRINITY	100%	TBD	29.11.2013	30.11.2013	
	b) Add each Protected area Zone 1 polygon as a member of PEMF FMU group.	TRINITY	5%	TBD	29.11.2013	30.11.2013	
4.3.3	Add a New Layer for MGRS Grid						
	a) Add MGRS grid.	TRINITY	100%	TBD	30.11.2013	30.11.2013	
	b) Idea of implementation of MGRS grid can be obtained from http://dhost.info/usngweb/ (* definition of MGRS grid is different from definition of U.S. National Grid)	TRINITY	100%	TBD	30.11.2013	30.11.2013	
	c) Definition of MGRS Grid can be obtained from http://earth-info.nga.mil/GandG/coordsys/grids/mgrs.doc	TRINITY	100%	TBD	30.11.2013	30.11.2013	

	d) Suitable grids according to current zoom-in factor shall be selectable from Zone, 100km, 10km, 1km, 100m and 10m.	TRINITY	100%	TBD	30.11.2013	30.11.2013	
	Add a new Layer "Damage Forest Value Map"						
	a) Add a user privilege to enable/disable to access this map. When this layer is selected following functions shall be enabled.	TRINITY	100%	TBD	30.11.2013	30.11.2013	
	b) Allow users to draw a polygon	TRINITY	100%	TBD	30.11.2013	30.11.2013	
	c) Find intersections of the drawn polygon and subcompartments	TRINITY	100%	TBD	30.11.2013	30.11.2013	
4.3.4	<p>d) As table form, the following data shall be shown for the intersected area:</p> <ul style="list-style-type: none"> • CompartmentNo./SubCompartment No. • Intersected Area (ha) • Total Area of Subcompartment (ha) This value should be taken from Form9 of Inventory for corresponding subcompartment • % of intersected area over total area of subcompartment This value should be calculated by Intersected Area / total area of subcompartment x 100 • Value for the intersected area This value should be calculated as Value of Forest x % of intersected area where Value of Forest area shall be taken from corresponding field in Form 9 of Inventory • Total Value for the intersected areas 	TRINITY	80%	TBD	30.11.2013	30.11.2013	
	e) <u>Result intersection polygons shall be displayed in this layer with a color classification according to the total value for the intersected areas. User shall provide classification of colors by value.</u>	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.3.5	Add new layer group – CMC Operation Maps						

4.3.5	a) Add a user privilege to enable/disable to access this Layer group.	TRINITY	100%	TBD	30.11.2013	30.11.2013	
	b) When this layer group is selected, user is allowed to draw a polygon which is used for inner polygon searches enabled by corresponding inner polygon search switches. (see Fig.6-A)	TRINITY	100%	TBD	30.11.2013	30.11.2013	
	c) State of inner polygon search switches shall be kept in a table with a relation to the user account, and when the user logs in again, the state shall be restored.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	d) The node of "CMC Operation Maps" shall be expanded by default.	TRINITY	100%	TBD	30.11.2013	30.11.2013	
Add a "Resource Map" Layer							
4.3.5.1	a) Create and display resource icons corresponding to resource types at the coordinates specified in resource records from UNDP Database. (See Appendix B-1)	TRINITY	100%	TBD	30.11.2013	30.11.2013	
	b) This is not a permanent map. Successful PROPOSER shall write code to create and replace the map once a month.	TRINITY	90%	TBD	30.11.2013	30.11.2013	
	c) Add function for optional inner polygon search. Breakdown of resources in the drawn polygon shall be displayed as a table in the search result pane.	TRINITY	100%	TBD	30.11.2013	30.11.2013	
Add a "Facility inventory Map" Layer							
4.3.5.2	a) Create and display facility inventory icons corresponding to facility types at the coordinates specified in facility inventory records from UNDP Database. (See Appendix B-1)	TRINITY	100%	TBD	30.11.2013	30.11.2013	
	b) This is not a permanent map. Successful PROPOSER shall write code to create and replace the map once a month.	TRINITY	90%	TBD	30.11.2013	30.11.2013	

	c) Add function for optional inner polygon search. Breakdown of facility inventory in the drawn polygon shall be displayed as a table in the search result pane.	TRINITY	100%	TBD	30.11.2013	30.11.2013	
4.3.5.3	Add a "Demographic Map" Layer						
	a) Show a thematic map showing total population by color classification using border of settlements.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	b) This is not a permanent map. Successful PROPOSER shall write code to create and replace the map once a month.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	c) Demographic information will be in a database to be created by UNDP which will become accessible from MKFFIS in mid July 2013. (see Appendix B-2)	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	d) Add function for optional inner polygon search. Breakdown of total population of each settlement which is intersected by the drawn polygon shall be displayed in the search result pane.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.3.5.4	Real-time disaster report from RCMC						
	a) Add a user privilege to enable/disable this function	TRINITY	100%	05.10.2013	30.11.2013	01.11.2013	
	b) Users having this privilege are able to send/edit/delete disaster report. Report consists of followings. <ul style="list-style-type: none"> • Geographic information (polygon, line, point, icon) drawn/dropped on the MKFFIS Map Pane • Text information (Details shall be decided by USER) 	TRINITY	100%	05.10.2013	30.11.2013	01.11.2013	
	c) Disaster report sent shall be stored in Disaster Report Database. (Successful PROPOSER shall prepare this database).	TRINITY	100%	05.10.2013	01.11.2013	01.11.2013	
	d) The report sent, edited, deleted shall be reflected in real time to all the MKFFIS users who are online.	TRINITY	100%	05.10.2013	30.11.2013	01.11.2013	

	e) Geographic information sent shall be displayed as a Real-time disaster Map which is one member layer of the CMC Operation Maps. (see Fig.6-A)	TRINITY	100%	05.10.2013	30.11.2013	01.11.2013	
	f) Alarm message shall be displayed upon arrival of real-time disaster report. (In a message box for example)	TRINITY	100%	05.10.2013	30.11.2013	01.11.2013	
	g) <u>Salvage as much data as possible from ESRI Application created on ArcSDE (see APPENDIX C). Source code is not available for ESRI Application, but user account of ArcSDE database (MSSQL) will be provided.</u>	TRINITY	0%	TBD	01.11.2013	01.11.2013	
	h) <u>If type of disaster is forest fire; create a new CMC Forest Fire Report. (Refer to 4.6.1)</u>	TRINITY	0%	TBD	01.11.2013	01.11.2013	
	Search disaster reports						
	a) Add a panel for this search in the second menu item of the accordion menu in Search tab. (see Fig. 10)	TRINITY	100%	TBD	30.11.2013	30.11.2013	
	b) Only the filter by CMC classification is required. PEMF classification is not necessary.	TRINITY	60%	TBD	30.11.2013	30.11.2013	
4.3.5.5	c) Search disaster report panel has following controls: <ul style="list-style-type: none"> • From Date • To Date • GCUK unit selector • RCUK unit selector • Municipality and Settlement selector • Type of events • Search Report button • Clear Result button • Print Result button 	TRINITY	60%	TBD	30.11.2013	30.11.2013	
	d) Search result shall be shown in the search result pane.	TRINITY	100%	TBD	30.11.2013	30.11.2013	

	e) Color of GCUK or RCUK polygons shall be classified by the number of disasters in the polygons in the specified period.	TRINITY	100%	TBD	30.11.2013	30.11.2013	
	f) Result Map shall be displayed as a 'Disaster search result' which is one member layer of the CMC Operation Maps. (see Fig.6-A)	TRINITY	100%	TBD	30.11.2013	30.11.2013	
	g) As for Print Result function, format of printed report shall be provided by USER.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.4	Add New Functions to MKFFIS						
4.4.1	Grid Information						
	a) Show following information of a MGRS Grid clicked. <ul style="list-style-type: none"> • MGRS Grid code • Summary of resources in the grid (see Appendix B-1). Resources are in a database created by UNDP which is accessible from MKFFIS. • Summary of disaster events in the grid. Disaster events are in a database created by UNDP which is accessible from MKFFIS. • Summary of facility inventories in the grid. Inventories are in a database created by UNDP which is accessible from MKFFIS. • FWI at the center of the grid. FWI grid values are kept as GeoTIFF image. • <input checked="" type="checkbox"/> Vegetation dryness at the center of the grid. Vegetation dryness grid values are kept as GetTIFF image. 	TRINITY	60%	TBD	30.12.2013	30.12.2013	
	Demographic information						
4.4.2	a) Show demographic information of an administrative area clicked (National, Municipalities, Settlements). When info button is clicked, show summary, and detail table representation to be shown below on the screen.	TRINITY	0%	TBD	30.11.2013	30.11.2013	

	<p>b) Demographic information will be in a database to be created by UNDP which will become accessible from MKFFIS in mid July 2013.</p>	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	<p>c) Demographic information to be shown on the info button and detailed table will be decided by USER.</p>	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	<p>Add means to switch Between MKFFIS for internal purpose and MKFFIS for Public</p>						
4.4.3	<p>a) Currently, MKFFIS serves for internal purpose controlling available features by user account. But another instance of MKFFIS will be installed on the Internet Server to serve public users. MKFFIS for Public can be opened without login process, but much stronger restriction will be applied. Successful PROPOSER shall add means to switch from MKFFIS for internal purpose to MKFFIS for Public. Following procedure is an example of solution.</p> <ul style="list-style-type: none"> • Define a special user GUEST. • Restriction to the public user will be applied by privilege settings of user GUEST. • Add necessary exceptions applicable to GUEST user. For example, user profile of GUEST user is not kept. • Prepare PUBLIC flag in a configuration file of MKFFIS GIS. • If the flag is OFF, MKFFIS starts normally from the login page. • VI. If the flag is ON, MKFFIS skips login page and starts from the main page, setting user name to GUEST automatically. 	TRINITY	90%	TBD	30.11.2013	30.11.2013	
	<p>b) Link to MKFFIS for internal purpose shall be added to the MKFFIS for public.</p>	TRINITY	90%	TBD	30.11.2013	30.11.2013	
4.4.4	<p>Add function to fill section 5.1 in P2 report taking meteorological data from AWS.</p>			100%	25.09.2013	09.10.2013	09.10.2013

	a) Add an AWS select box next to the 'Meteorological Station' text box. (See Fig..11) AWS Names in the select box shall be taken dynamically from the 'meteorologicalstations' table in the CUK database.	SIMT	100%	25.09.2013	09.10.2013	09.10.2013	
	b) Search the meteorological data of the selected AWS which is closest to the date/time specified in the '2.2 Detection' text box.	SIMT	100%	25.09.2013	09.10.2013	09.10.2013	
	c) If there is no data between 3 hours before and after the date/time specified by the '2.2 Detection' text box, show message 'No AWS data available' and do nothing to the textboxes, otherwise fill following textboxes in the section 5.1 of P2 report. <ul style="list-style-type: none"> • Meteorological Station: (name of meteorological station) • hour: (hour of the meteorological data measured) • Number of days from last raining: (to fill this box some calculation is necessary) • Maximum temperature: (fill maximum temperature of the specified day) • Relative humidity • Wind Speed • Direction (Wind direction) 	SIMT	100%	25.09.2013	09.10.2013	09.10.2013	
	Changes requested from Operation department from CMC about forest fire report	SIMT	100%	03.10.2013	09.10.2013	09.10.2013	
4.5	Add New Functions/Interface to GFIS						
	Add a link to user manual						
4.5.1	a) Add a link to end user manual of GFIS GIS to the tool bar.	JICA					
	b) Add a link to end user manual of GFIS Planning to the top link.	JICA					
	c) Add a link to end user manual of GFIS Fire Report to the top link.	JICA					

	d) In English mode link to the user manual of English version, and In Macedonian mode link to the user manual of Macedonian version.	JICA					
4.5.2	Limit available FMU by user privilege						
	a) Add a function to the GFIS Admin page in order to specify FMUs under responsibility of each user.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	b) Limit FMUs to display and/or edit according to above privilege.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	c) Limit FMUs shown in the FMU Selector according to above privilege.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	d) Zoom in FMU under responsibility of the user when that user opens GFIS GIS.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.5.3	Allow access to past versions of forest plan.						
	<p>a) Currently, if a FMU polygon is edited and uploaded, old FMU polygons will be replaced by new FMU polygons. Therefore only the latest FMUs can be seen on GFIS GIS. Successful PROPOSER under the direction of PEMF shall add function to show FMUs in a past date specified by a calendar control. Following procedures are just an example of solution:</p> <ul style="list-style-type: none"> • Add a calendar control to a suitable place on GFIS GIS. • Add attributes (effective from, expired on) to each FMU. • Preset some past date such as 1900.01.01 to 'effective from' and NULL to 'expired on'. • When a new FMU is uploaded, keep the old FMU and set its 'expired on' to the updated date. • Set the updated date to the new FMU's 'effective from' and set NULL to 'expired on'. • When a past date is specified, display FMUs according to their attribute 'effective from' and 'expired on'. 	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.5.4	Search FMU by year of expiry of special plan			90%	15.11.2013	03.12.2013	03.12.2013

	a) Each FMU has its planning effective for ten years. And the duration is kept in the forest planning database. Successful PROPOSER under the direction of PEMF shall add a function to search FMUs which special plans expire in the year specified.	SIMT	90%	15.11.2013	03.12.2013	03.12.2013	
4.5.5	Change monthly input to daily for form 3, 3a and 5		100%	15.10.2013	29.10.2013	29.10.2013	
	a) Currently, data entry to the form 3, 3a and 5 is carried out on a monthly basis. Successful PROPOSER under the direction of PEMF shall modify the code to cater to daily data entry. And add two options to the print function for these forms, one is daily summary, the other is monthly summary.	SIMT	100%	15.10.2013	29.10.2013	29.10.2013	
4.5.6	Keep annual achievement for 10 years in Form 6		100%	28.10.2013	06.11.2013	06.11.2013	
	a) Successful PROPOSER under the direction of PEMF shall modify code and design of Form 6 data entry sheet to keep annual achievement for 10 years for each sub compartment. Items to keep are as follows. <ul style="list-style-type: none"> • Area (ha) • Number of seedlings • Weight of seeds (kg) 	SIMT	100%	28.10.2013	06.11.2013	06.11.2013	
4.5.7	Keep annual achievement for 10 years in Form 8		100%	01.11.2013	06.11.2013	06.11.2013	
	a) Successful PROPOSER under the direction of PEMF shall modify code and design of Form 8 data entry sheet to keep annual achievement for 10 years for each sub compartment. Items to keep are as follows. <ul style="list-style-type: none"> • Length of roads (km) • Cleared wood (m3) 	SIMT	100%	01.11.2013	06.11.2013	06.11.2013	
4.5.8	Fill area in Form 1 taken from polygon attribute		100%	10.11.2013	25.11.2013	25.12.2013	
	a) Successful PROPOSER under the direction of PEMF shall modify code of Form 1 data entry sheet to fill area automatically taken from the attribute of polygon corresponding to selected sub compartment.	SIMT	100%	10.11.2013	25.11.2013	25.12.2013	

	Add National and Regional office level summaries to the reports in Reports/Rekapitulari menu.		100%	03.10.2013	20.10.2013	20.10.2013	
4.5.9	a) Currently, reports under the Reports/Rekapitulari menu are summary of selected FMU. Successful PROPOSER under the direction of PEMF shall add summary of National level and Regional Office level, and add links to corresponding summaries in the menu.	SIMT	100%	03.10.2013	20.10.2013	20.10.2013	
	b) FMUs shall be classified by regional office in order to create regional office summary.	SIMT	100%	03.10.2013	20.10.2013	20.10.2013	
4.5.1 0*	NEW REQUEST - Add middle aged forest in PEMF	SIMT	0%	01.12.2013	TBD	TBD	
	a) Add in the input form selection for middle aged forest in form 2a	SIMT	0%	01.12.2013	10.12.2013	10.12.2013	
	b) Add group section in the reports for forest	SIMT	0%	TBD	TBD	TBD	
6.	Improvement related to MKFFIS & GFIS modules						
4.6.1	Modify PEMF Fire Report input module to report by fire.	SIMT	90%	06.11.2013	03.12.2013	03.12.2013	

	<p>a) Currently fire report is created in PEMF by each sub compartment even in case of one big fire over several compartments. On the other hand, in the CMC fire report (P2 report) is fire based, not sub compartment based. Therefore, a fire report divided into several reports by sub compartment must be merged at CMC to create P2 report for one fire. There are some complaints in PEMF for this process.</p> <ul style="list-style-type: none"> • PEMF does not want redundant data entry. For example, some common fields such as start of fire and end of fire should be entered repeatedly for each related sub compartment. • PEMF has authority to identify a fire over several sub compartments, therefore merging reports by sub compartment into one fire report should be conducted by PEMF. • Fire report from PEMF does not have to be by sub compartment. Report by fire is acceptable. 	SIMT	90%	06.11.2013	03.12.2013	03.12.2013	
	<p>b) Because P2 report module has a function to manage a report containing information of multiple sub compartments, applying the same approach to the PEMF fire report will be an elegant solution.</p>	SIMT	90%	06.11.2013	03.12.2013	03.12.2013	

	<p>c) Successful PROPOSER under direction of USER shall conduct following modification.</p> <ul style="list-style-type: none"> • Modify current PEMF fire report module on GFIS Fire Report so that it can report by fire by adding functionality to manage information from multiple sub compartments. • Remove MERGE PEMF REPORT function from P2 report module in MKFFIS Fire Report. • Add IMPORT PEMF REPORT function to MKFFIS Fire Report • Adjust P2 Report module on MKFFIS Fire Report to be able to show correctly the Fire report which was imported from PEMF REPORT • Rename P2 Report as CMC Forest Fire Report. • Add 'read-only' user privilege to GFIS Fire Report and MKFFIS Fire Report which allows MKFFIS user to browse PEMF fire report, and allows GFIS user to browse CMC Fire Report. • Printing format of PEMF Fire Report to obtain approval of SiFH shall not be changed. 	SIMT	90%	06.11.2013	03.12.2013	03.12.2013	
7.	Performance Tuning						
4.7.1	Performance tuning of MKFFIS		10%				
	<p>a) Currently, there are following complaints about speed.</p> <ul style="list-style-type: none"> • MKFFIS GIS takes very long time to show the login page, if it is accessed over a long distance. For example, accessing from Japan, it takes 90 seconds to open the login page and another 90 • Speed to show FMUs is slow, and from time to time it fails to show them. 	TRINITY	30%	02.10.2013	25.10.2013	25.10.2013	
	<p>b) MKFFIS GIS shall be optimized by execution speed.</p>	TRINITY	30%	02.10.2013	25.10.2013	25.10.2013	

	c) Optimization is not limited to source code level. All the possible factors shall be taken into account. For example, server configuration, deployment of files, network structure, use of external servers (Google server for jQuery), indexing of tables in databases, etc.	TRINITY	10%	02.10.2013	25.10.2013	25.10.2013	
	d) Improvement of performance should be shown quantitatively.	TRINITY	15%	02.10.2013	25.10.2013	25.10.2013	
	Performance tuning of GFIS						
	a) Currently, there are following complaints about speed which are similar to MKFFIS GIS. <ul style="list-style-type: none"> • GFIS GIS takes very long time to show the login page, if it is accessed over a long distance. • Speed to show FMUs is slow, and from time to time it fails to show them. 	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013	
4.7.2	b) GFIS GIS shall be optimized by execution speed	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013	
	c) Optimization is not limited to source code level. All the possible factors shall be taken into account. For example, server configuration, deployment of files, network structure, use of external servers (Google server for jQuery), indexing of tables in databases, etc.	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013	
	d) Improvement of performance should be shown quantitatively.	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013	
8.	Installation/QA/Training/Documentation						
4.8.1	MKFFIS and GIS Installation, Quality Assurance, Training, Documentation						
4.8.2	GFIS and GIS Installation, Quality Assurance, Training, Documentation						

4.4 Add New Functions to MKFFIS

4.4.1 We have started to work on the MGRS GRID. The idea is taken from the script that Mr. Kozu created. The lines are drawn from code, but when a user select a particular section of the grid a polygon is created on top of the grid containing the bounds of the quadrant. This is needed for getting the information via the intersection function provided by Openlayers. We are confident that the GRID will be done by 31.11.2013

4.4.4 Add function to fill section 5.1 in P2 report taking meteorological data from AWS. **SIMT**

Target: MKFFIS Fire Report

Waiting for test on side be CMC/JICA and approval.

Demo is on test side.

4.5 Add New Functions/Interface to GFIS

4.5.4 Search FMU by year of expiry of special plan **SIMT**

Target: GFIS Planning

Translation to English need to be done.

Demo is on test side.

4.5.5 Change monthly input to daily for form 3, 3a and 5 **SIMT**

Target: GFIS Planning

Waiting for test on side be PEMF/CMC/JICA and approval.

Demo is on test side.

4.5.6 Keep annual achievement for 10 years in Form 6 **SIMT**

Waiting for test on side be PEMF/CMC/JICA and approval.

Demo is on test side.

Target: GFIS Planning

4.5.7 Keep annual achievement for 10 years in Form 8 **SIMT**

Waiting for test on side be PEMF/CMC/JICA and approval.

Demo is on test side.

Target: GFIS Planning

4.5.8 Fill area in Form 1 taken from polygon attribute **SIMT**

Waiting for test on side be PEMF/CMC/JICA and approval.

Demo is on test side.

Target: GFIS Planning

4.5.9 Add National and Regional office level summaries to the reports in Reports/Rekapitulari menu. **SIMT**

Target: GFIS Planning

Waiting for test on side be PEMF/CMC/JICA and approval.

Demo is on test side.

4.6 Improvement related to both MKFFIS and GFIS modules

4.6.1 Modify PEMF Fire Report input module to report by fire. **SIMT**

Internal testing and translation to English need to be finished. Complete developing is done.

Demo is on test side.

4.7.1 Trinity extensively works on finding ways of fixing the performance issues. Unnecessary scripts are being deleted, performance tuning on the loading of the layers is done, external loading of the scripts is done etc.

4.4.1 We have some questions about this issue, our plan is to discuss them on Monday- **TRINITY**

4.3.5 c. We think that this is not necessary; our proposal is to remove this point- **TRINITY**

SD 2

WEEKLY PROGRESS REPORT no.10
For period from November 29th to December 6th, 2013

Author: EDUSOFT, SIMT, TRINITY

Creation Date: December 6th, 2013

WEEKLY PROGRESS REPORT for the period from November 29th to December 6th 2013

Seq. No.	Task Description	Assignee	Current % of progress	DATES			
				Planned Start	Planned End	Contracted/ Targeted	Tested Accepted by Developer
4.2	Improve MKFFIS User Interface						
4.2.1	Reform MKFFIS Left pane						
	a) Remove Accordion menu, Navigation and Layers button from the left pane.	TRINITY	100%	02.10.2013	18.10.2013	10.10.2013	
	b) Add Tab control with five tabs.	TRINITY	100%	02.10.2013	18.10.2013	10.10.2013	
	c) Deploy Layers panel in the first tab named 'Layers'. This tab should be a default. (See Fig. 7)	TRINITY		02.10.2013	18.10.2013	10.10.2013	
	d) Deploy Map Selector in the second tab named 'Maps'. Show hierarchy of each map using a tree view control, except vegetation map. Show only the root node for vegetation map in the tree view. (See Fig.6) Because vegetation map has a lot of FMUs as its children, FMU selector should be accommodated in a separate tab (e). (See Fig. 8)	TRINITY	100%	02.10.2013	26.10.2013	10.10.2013	
	e) Deploy FMU selector in the third tab named 'FMU'. (See Fig. 8)	TRINITY	100%	02.10.2013	18.10.2013	10.10.2013	
	f) Deploy an accordion menu with two menu items in the fourth tab named 'Search'. Deploy Search Forest History panel in the first accordion menu item. (See Fig. 10)	TRINITY	100%	02.10.2013	01.12.2013	01.12.2013	
	g) Deploy AWS Overview panel in the fifth tab named 'AWS'. (See Fig. 9)	TRINITY	100%	02.10.2013	01.12.2013	01.12.2013	
	h) Tab names should be displayed in the language specified by the current language mode.	TRINITY	0%	02.10.2013	31.12.2013	31.12.2013	

	i) Layer settings in the Layers panel (Order of the layers, selected maps) and selected maps in the Map Selector and FMU selector shall be kept in a table with a relation to the user account, and when the user logs in again, the settings shall be restored.	TRINITY	100%	TBD	31.12.2013	31.12.2013	
4.2.2	Add a link to user manual		%				
	a) Add a link to end user manual of MKFFIS GIS to the tool bar.	JICA	0%	TBD	20.11.2013	20.11.2013	
	b) Add a link to end user manual of MKFFIS Fire Report to the top link.	JICA	0%	TBD	20.11.2013	20.11.2013	
	c) In English mode link to the user manual of English version, and In Macedonian mode link to the user manual of Macedonian version.	JICA	0%	TBD	20.11.2013	20.11.2013	
4.2.3	Change background image seasonally		%				
	a) Change background image on the login page seasonally. Image for each season will be provided by USER.	TRINITY	100%	TBD	20.11.2013	20.11.2013	
4.2.4	Add a common calendar control						
	a) Currently, vegetation dryness map (VDM) and FWI map have their own calendar control independently. And each hotspot (Seviri, Modis and Modis raw) has selections of 1 day ago, 2 days ago and 3 days ago.	TRINITY	100%	.04.10.2013	26.10.2013	15.10.2013	
	b) Remove the calendar control for VDM and FWI map.	TRINITY	100%	04.10.2013	26.10.2013	15.10.2013	
	c) Remove the hot spot selections: 1 day ago, 2 days ago and 3 days ago.	TRINITY	100%	04.10.2013	22.11.2013	15.10.2013	
	d) Rename hot spot selections: 'Seviri (Today)' as 'Seviri', 'Modis (Today)' as 'Modis'.	TRINITY	100%	04.10.2013	22.11.2013	15.10.2013	
	e) Add a calendar control with label 'Date' on the space where currently 'Navigation' is there. (See Fig. 7)	TRINITY	100%	TBD	26.10.2013	20.11.2013	
	f) Add a check box with label 'Now' next to the above calendar control. 'Now' shall be checked by default. *Labels should be in the language specified by current language mode.	TRINITY	100%	TBD	26.10.2013	20.11.2013	

	<p>g) Modify code as follows:</p> <ul style="list-style-type: none"> • When a past day is specified by the calendar control, clear 'Now' check box, and show VDM, FWI map hotspots and real-time disaster report (see 4.3.5.4) of the day specified. • When 'Now' check box is checked, show vegetation map, FWI map, hotspots and real-time disaster report of the current day, and keep updating these four real-time maps. 	TRINITY	100%	04.10.2013	26.10.2013		15.10.2013
4.2.5	Display FWI Map of the previous day until today's FWI Map becomes available						
	<p>a) Currently, FWI Map is not shown until a day is specified by its calendar control.</p>	TRINITY	100%	TBD	26.10.2013	20.11.2013	
	<p>b) Modify code as follows: When 'Now' is checked (it is checked by default) FWI Map of now should be displayed. But FWI Map is created almost every day at 2pm. Therefore, it shall be displayed by the following rule.</p> <ul style="list-style-type: none"> • If FWI Map of the current day exists now, display it. • Otherwise display FWI Map of one day before, if such exists. • Otherwise don't display FWI Map. 	TRINITY	100%	TBD	26.10.2013	20.11.2013	
4.2.6	Relocate vegetation map's attribute selector from Layers panel to the top of FMU selector						
	<p>a) Currently, attribute selectors of vegetation map are located in the Layers panel for each FMU (See Appendix A.4)</p>	TRINITY	100%	TBD	20.11.2013	20.11.2013	
	<p>b) Remove all the attribute selectors from the Layers panel.</p>	TRINITY	100%	TBD	20.11.2013	20.11.2013	
	<p>c) Add one attribute selector to the top line of FMU selector accommodated in the FMU Tab. (See Fig. 8)</p>	TRINITY	100%	TBD	20.11.2013	20.11.2013	
	<p>d) Modify code to apply the selected attribute to all the FMUs.</p>	TRINITY	100%	TBD	20.11.2013	20.11.2013	

4.3	Add New Layers / Improve Layers						
4.3.1	Improve Vegetation map Layer by including National Parks						
	a) Shape files for three national parks will be provided from DEVELOPER. (*Related data set cleaning in progress by SIMT)	TRINITY	100%	TBD	01.12.2013	20.11.2013	
	b) Classification of species of National parks is not compatible to PEMF classification. So, Classification shall be converted to be compatible to PEMF's according to direction of DEVELOPER. (*Related classification of species in progress by SIMT)	TRINITY	100%	TBD	01.12.2013	20.11.2013	
	c) Add each National park FMU polygon as a member of PEMF FMU group.	TRINITY	100%	TBD	01.12.2013	20.11.2013	
4.3.2	Improve Vegetation map Layer by including Protected area Zone 1						
	a) Shape files for Protected area Zone 1 will be provided from DEVELOPER. They don't contain attributes.	TRINITY	100%	TBD	29.11.2013	30.11.2013	
	b) Add each Protected area Zone 1 polygon as a member of PEMF FMU group.	TRINITY	100%	TBD	01.12.2013	30.11.2013	
4.3.3	Add a New Layer for MGRS Grid						
	a) Add MGRS grid.	TRINITY	100%	TBD	30.11.2013	30.11.2013	
	b) Idea of implementation of MGRS grid can be obtained from http://dhost.info/usngweb/ (* definition of MGRS grid is different from definition of U.S. National Grid)	TRINITY	100%	TBD	30.11.2013	30.11.2013	
	c) Definition of MGRS Grid can be obtained from http://earth-info.nga.mil/GandG/coordsys/grids/mgrs.doc	TRINITY	100%	TBD	30.11.2013	30.11.2013	

	d) Suitable grids according to current zoom-in factor shall be selectable from Zone, 100km, 10km, 1km, 100m and 10m.	TRINITY	100%	TBD	30.11.2013	30.11.2013	
	Add a new Layer "Damage Forest Value Map"						
	a) Add a user privilege to enable/disable to access this map. When this layer is selected following functions shall be enabled.	TRINITY	100%	TBD	30.11.2013	30.11.2013	
	b) Allow users to draw a polygon	TRINITY	100%	TBD	30.11.2013	30.11.2013	
	c) Find intersections of the drawn polygon and subcompartments	TRINITY	100%	TBD	30.11.2013	30.11.2013	
4.3.4	<p>d) As table form, the following data shall be shown for the intersected area:</p> <ul style="list-style-type: none"> • CompartmentNo./SubCompartment No. • Intersected Area (ha) • Total Area of Subcompartment (ha) This value should be taken from Form9 of Inventory for corresponding subcompartment • % of intersected area over total area of subcompartment This value should be calculated by Intersected Area / total area of subcompartment x 100 • Value for the intersected area This value should be calculated as Value of Forest x % of intersected area where Value of Forest area shall be taken from corresponding field in Form 9 of Inventory • Total Value for the intersected areas 	TRINITY	80%	TBD	01.12.2013	30.11.2013	
	e) Result intersection polygons shall be displayed in this layer with a color classification according to the total value for the intersected areas. User shall provide classification of colors by value. Abandoned as per Purchaser/User instruction	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.3.5	Add new layer group – CMC Operation Maps						

4.3.5	a) Add a user privilege to enable/disable to access this Layer group.	TRINITY	100%	TBD	30.11.2013	30.11.2013	
	b) When this layer group is selected, user is allowed to draw a polygon which is used for inner polygon searches enabled by corresponding inner polygon search switches. (see Fig.6-A)	TRINITY	100%	TBD	30.11.2013	30.11.2013	
	c) State of inner polygon search switches shall be kept in a table with a relation to the user account, and when the user logs in again, the state shall be restored. Abandoned as per Purchaser/User instruction	TRINITY	0%	TBD	30.11.2013	30.11.2013	
	d) The node of "CMC Operation Maps" shall be expanded by default.	TRINITY	100%	TBD	30.11.2013	30.11.2013	
Add a "Resource Map" Layer							
4.3.5.1	a) Create and display resource icons corresponding to resource types at the coordinates specified in resource records from UNDP Database. (See Appendix B-1)	TRINITY	100%	TBD	30.11.2013	30.11.2013	
	b) This is not a permanent map. DEVELOPER shall write code to create and replace the map once a month.	TRINITY	90%	TBD	30.11.2013	30.11.2013	
	c) Add function for optional inner polygon search. Breakdown of resources in the drawn polygon shall be displayed as a table in the search result pane.	TRINITY	100%	TBD	30.11.2013	30.11.2013	
Add a "Facility inventory Map" Layer							
4.3.5.2	a) Create and display facility inventory icons corresponding to facility types at the coordinates specified in facility inventory records from UNDP Database. (See Appendix B-1)	TRINITY	100%	TBD	30.11.2013	30.11.2013	
	b) This is not a permanent map. DEVELOPER shall write code to create and replace the map once a month.	TRINITY	90%	TBD	30.11.2013	30.11.2013	

	c) Add function for optional inner polygon search. Breakdown of facility inventory in the drawn polygon shall be displayed as a table in the search result pane.	TRINITY	100%	TBD	30.11.2013	30.11.2013	
4.3.5.3	Add a "Demographic Map" Layer						
	a) Show a thematic map showing total population by color classification using border of settlements.	TRINITY	0%	TBD	06.12.2013	30.11.2013	
	b) This is not a permanent map. DEVELOPER shall write code to create and replace the map once a month.	TRINITY	0%	TBD	06.12.2013	30.11.2013	
	c) Demographic information will be in a database to be created by UNDP which will become accessible from MKFFIS in mid July 2013. (see Appendix B-2)	TRINITY	0%	TBD	06.12.2013	30.11.2013	
	d) Add function for optional inner polygon search. Breakdown of total population of each settlement which is intersected by the drawn polygon shall be displayed in the search result pane. Abandoned as per Purchaser/User instruction	TRINITY	0%	TBD	06.12.2013	30.11.2013	
4.3.5.4	Real-time disaster report from RCMC						
	a) Add a user privilege to enable/disable this function	TRINITY	100%	05.10.2013	30.11.2013	01.11.2013	
	b) Users having this privilege are able to send/edit/delete disaster report. Report consists of followings. <ul style="list-style-type: none"> • Geographic information (polygon, line, point, icon) drawn/dropped on the MKFFIS Map Pane • Text information (Details shall be decided by USER) 	TRINITY	100%	05.10.2013	30.11.2013	01.11.2013	
	c) Disaster report sent shall be stored in Disaster Report Database. (DEVELOPER shall prepare this database).	TRINITY	100%	05.10.2013	01.11.2013	01.11.2013	
	d) The report sent, edited, deleted shall be reflected in real time to all the MKFFIS users who are online.	TRINITY	100%	05.10.2013	30.11.2013	01.11.2013	

	e) Geographic information sent shall be displayed as a Real-time disaster Map which is one member layer of the CMC Operation Maps. (see Fig.6-A)	TRINITY	100%	05.10.2013	30.11.2013	01.11.2013	
	f) Alarm message shall be displayed upon arrival of real-time disaster report. (In a message box for example)	TRINITY	100%	05.10.2013	30.11.2013	01.11.2013	
	g) Salvage as much data as possible from ESRI Application created on ArcSDE (see APPENDIX C). Source code is not available for ESRI Application, but user account of ArcSDE database (MSSQL) will be provided. Abandoned as per Purchaser/User instruction	TRINITY	0%	TBD	01.11.2013	01.11.2013	
	h) If type of disaster is forest fire; create a new CMC Forest Fire Report. (Refer to 4.6.1) Abandoned as per Purchaser/User instruction	TRINITY	0%	TBD	01.11.2013	01.11.2013	
	Search disaster reports						
	a) Add a panel for this search in the second menu item of the accordion menu in Search tab. (see Fig. 10)	TRINITY	100%	TBD	30.11.2013	30.11.2013	
	b) Only the filter by CMC classification is required. PEMF classification is not necessary.	TRINITY	100%	TBD	01.12.2013	30.11.2013	
4.3.5.5	c) Search disaster report panel has following controls: <ul style="list-style-type: none"> • From Date • To Date • GCUK unit selector • RCUK unit selector • Municipality and Settlement selector • Type of events • Search Report button • Clear Result button • Print Result button 	TRINITY	60%	TBD	01.12.2013	30.11.2013	
	d) Search result shall be shown in the search result pane.	TRINITY	100%	TBD	30.11.2013	30.11.2013	

	e) Color of GCUK or RCUK polygons shall be classified by the number of disasters in the polygons in the specified period.	TRINITY	100%	TBD	30.11.2013	30.11.2013	
	f) Result Map shall be displayed as a 'Disaster search result' which is one member layer of the CMC Operation Maps. (see Fig.6-A)	TRINITY	100%	TBD	30.11.2013	30.11.2013	
	g) As for Print Result function, format of printed report shall be provided by USER.	TRINITY	0%	TBD	30.11.2013	30.11.2013	
4.4	Add New Functions to MKFFIS						
4.4.1	Grid Information						
	a) Show following information of a MGRS Grid clicked. <ul style="list-style-type: none"> • MGRS Grid code • Summary of resources in the grid (see Appendix B-1). Resources are in a database created by UNDP which is accessible from MKFFIS. • Summary of disaster events in the grid. Disaster events are in a database created by UNDP which is accessible from MKFFIS. • Summary of facility inventories in the grid. Inventories are in a database created by UNDP which is accessible from MKFFIS. • FWI at the center of the grid. FWI grid values are kept as GeoTIFF image. • <input checked="" type="checkbox"/> Vegetation dryness at the center of the grid. Vegetation dryness grid values are kept as GetTIFF image. 	TRINITY	60%	TBD	30.12.2013	30.12.2013	
	Demographic information						
4.4.2	a) Show demographic information of an administrative area clicked (National, Municipalities, Settlements). When info button is clicked, show summary, and detail table representation to be shown below on the screen.	TRINITY	0%	TBD	06.12.2013	30.11.2013	

	b) Demographic information will be in a database to be created by UNDP which will become accessible from MKFFIS in mid July 2013.	TRINITY	0%	TBD	06.12.2013	30.11.2013	
	c) Demographic information to be shown on the info button and detailed table will be decided by USER.	TRINITY	0%	TBD	06.12.2013	30.11.2013	
	Add means to switch Between MKFFIS for internal purpose and MKFFIS for Public						
4.4.3	<p>a) Currently, MKFFIS serves for internal purpose controlling available features by user account. But another instance of MKFFIS will be installed on the Internet Server to serve public users. MKFFIS for Public can be opened without login process, but much stronger restriction will be applied. DEVELOPER shall add means to switch from MKFFIS for internal purpose to MKFFIS for Public. Following procedure is an example of solution.</p> <ul style="list-style-type: none"> • Define a special user GUEST. • Restriction to the public user will be applied by privilege settings of user GUEST. • Add necessary exceptions applicable to GUEST user. For example, user profile of GUEST user is not kept. • Prepare PUBLIC flag in a configuration file of MKFFIS GIS. • If the flag is OFF, MKFFIS starts normally from the login page. • VI. If the flag is ON, MKFFIS skips login page and starts from the main page, setting user name to GUEST automatically. 	TRINITY	90%	TBD	30.11.2013	30.11.2013	
	b) Link to MKFFIS for internal purpose shall be added to the MKFFIS for public.	TRINITY	90%	TBD	30.11.2013	30.11.2013	
4.4.4	Add function to fill section 5.1 in P2 report taking meteorological data from AWS.		100%	25.09.2013	09.10.2013	09.10.2013	

	a) Add an AWS select box next to the 'Meteorological Station' text box. (See Fig..11) AWS Names in the select box shall be taken dynamically from the 'meteorologicalstations' table in the CUK database.	SIMT	100%	25.09.2013	09.10.2013	09.10.2013	
	b) Search the meteorological data of the selected AWS which is closest to the date/time specified in the '2.2 Detection' text box.	SIMT	100%	25.09.2013	09.10.2013	09.10.2013	
	c) If there is no data between 3 hours before and after the date/time specified by the '2.2 Detection' text box, show message 'No AWS data available' and do nothing to the textboxes, otherwise fill following textboxes in the section 5.1 of P2 report. <ul style="list-style-type: none"> • Meteorological Station: (name of meteorological station) • hour: (hour of the meteorological data measured) • Number of days from last raining: (to fill this box some calculation is necessary) • Maximum temperature: (fill maximum temperature of the specified day) • Relative humidity • Wind Speed • Direction (Wind direction) 	SIMT	100%	25.09.2013	09.10.2013	09.10.2013	
	Changes requested from Operation department from CMC about forest fire report	SIMT	100%	03.10.2013	09.10.2013	09.10.2013	
4.5	Add New Functions/Interface to GFIS						
	Add a link to user manual						
4.5.1	a) Add a link to end user manual of GFIS GIS to the tool bar.	JICA					
	b) Add a link to end user manual of GFIS Planning to the top link.	JICA					
	c) Add a link to end user manual of GFIS Fire Report to the top link.	JICA					

	d) In English mode link to the user manual of English version, and In Macedonian mode link to the user manual of Macedonian version.	JICA					
4.5.2	Limit available FMU by user privilege						
	a) Add a function to the GFIS Admin page in order to specify FMUs under responsibility of each user.	TRINITY	0%	TBD	06.12.2013	30.11.2013	
	b) Limit FMUs to display and/or edit according to above privilege.	TRINITY	0%	TBD	06.12.2013	30.11.2013	
	c) Limit FMUs shown in the FMU Selector according to above privilege.	TRINITY	0%	TBD	06.12.2013	30.11.2013	
	d) Zoom in FMU under responsibility of the user when that user opens GFIS GIS.	TRINITY	0%	TBD	06.12.2013	30.11.2013	
4.5.3	Allow access to past versions of forest plan.						
	<p>a) Currently, if a FMU polygon is edited and uploaded, old FMU polygons will be replaced by new FMU polygons. Therefore only the latest FMUs can be seen on GFIS GIS. DEVELOPER under the direction of PEMF shall add function to show FMUs in a past date specified by a calendar control. Following procedures are just an example of solution:</p> <ul style="list-style-type: none"> • Add a calendar control to a suitable place on GFIS GIS. • Add attributes (effective from, expired on) to each FMU. • Preset some past date such as 1900.01.01 to 'effective from' and NULL to 'expired on'. • When a new FMU is uploaded, keep the old FMU and set its 'expired on' to the updated date. • Set the updated date to the new FMU's 'effective from' and set NULL to 'expired on'. • When a past date is specified, display FMUs according to their attribute 'effective from' and 'expired on'. 	TRINITY	0%	TBD	06.12.2013	30.11.2013	
4.5.4	Search FMU by year of expiry of special plan			90%	15.11.2013	01.12.2013	01.12.2013

	a) Each FMU has its planning effective for ten years. And the duration is kept in the forest planning database. DEVELOPER under the direction of PEMF shall add a function to search FMUs which special plans expire in the year specified.	SIMT	90%	15.11.2013	01.12.2013	01.12.2013	
4.5.5	Change monthly input to daily for form 3, 3a and 5		100%	15.10.2013	29.10.2013	29.10.2013	
	a) Currently, data entry to the form 3, 3a and 5 is carried out on a monthly basis. DEVELOPER under the direction of PEMF shall modify the code to cater to daily data entry. And add two options to the print function for these forms, one is daily summary, the other is monthly summary.	SIMT	100%	15.10.2013	29.10.2013	29.10.2013	
4.5.6	Keep annual achievement for 10 years in Form 6		100%	28.10.2013	06.11.2013	06.11.2013	
	a) DEVELOPER under the direction of PEMF shall modify code and design of Form 6 data entry sheet to keep annual achievement for 10 years for each sub compartment. Items to keep are as follows. <ul style="list-style-type: none"> • Area (ha) • Number of seedlings • Weight of seeds (kg) 	SIMT	100%	28.10.2013	06.11.2013	06.11.2013	
4.5.7	Keep annual achievement for 10 years in Form 8		100%	01.11.2013	06.11.2013	06.11.2013	
	a) DEVELOPER under the direction of PEMF shall modify code and design of Form 8 data entry sheet to keep annual achievement for 10 years for each sub compartment. Items to keep are as follows. <ul style="list-style-type: none"> • Length of roads (km) • Cleared wood (m3) 	SIMT	100%	01.11.2013	06.11.2013	06.11.2013	
4.5.8	Fill area in Form 1 taken from polygon attribute		100%	10.11.2013	25.11.2013	25.12.2013	
	a) DEVELOPER under the direction of PEMF shall modify code of Form 1 data entry sheet to fill area automatically taken from the attribute of polygon corresponding to selected sub compartment.	SIMT	100%	10.11.2013	25.11.2013	25.12.2013	

	Add National and Regional office level summaries to the reports in Reports/Rekapitulari menu.		100%	03.10.2013	20.10.2013	20.10.2013	
4.5.9	a) Currently, reports under the Reports/Rekapitulari menu are summary of selected FMU. DEVELOPER under the direction of PEMF shall add summary of National level and Regional Office level, and add links to corresponding summaries in the menu.	SIMT	100%	03.10.2013	20.10.2013	20.10.2013	
	b) FMUs shall be classified by regional office in order to create regional office summary.	SIMT	100%	03.10.2013	20.10.2013	20.10.2013	
4.5.1 0*	NEW REQUEST - Add middle aged forest in PEMF	SIMT	100%	01.12.2013	TBD	TBD	
	a) Add in the input form selection for middle aged forest in form 2a	SIMT	100%	01.12.2013	10.12.2013	10.12.2013	
	b) Add group section in the reports for forest	SIMT	50%	TBD	TBD	TBD	
6.	Improvement related to MKFFIS & GFIS modules						
4.6.1	Modify PEMF Fire Report input module to report by fire.	SIMT	100%	06.11.2013	01.12.2013	01.12.2013	

	<p>a) Currently fire report is created in PEMF by each sub compartment even in case of one big fire over several compartments. On the other hand, in the CMC fire report (P2 report) is fire based, not sub compartment based. Therefore, a fire report divided into several reports by sub compartment must be merged at CMC to create P2 report for one fire. There are some complaints in PEMF for this process.</p> <ul style="list-style-type: none"> • PEMF does not want redundant data entry. For example, some common fields such as start of fire and end of fire should be entered repeatedly for each related sub compartment. • PEMF has authority to identify a fire over several sub compartments, therefore merging reports by sub compartment into one fire report should be conducted by PEMF. • Fire report from PEMF does not have to be by sub compartment. Report by fire is acceptable. 	SIMT	100%	06.11.2013	01.12.2013	01.12.2013	
	<p>b) Because P2 report module has a function to manage a report containing information of multiple sub compartments, applying the same approach to the PEMF fire report will be an elegant solution.</p>	SIMT	100%	06.11.2013	01.12.2013	01.12.2013	

	<p>c) DEVELOPER under direction of USER shall conduct following modification.</p> <ul style="list-style-type: none"> • Modify current PEMF fire report module on GFIS Fire Report so that it can report by fire by adding functionality to manage information from multiple sub compartments. • Remove MERGE PEMF REPORT function from P2 report module in MKFFIS Fire Report. • Add IMPORT PEMF REPORT function to MKFFIS Fire Report • Adjust P2 Report module on MKFFIS Fire Report to be able to show correctly the Fire report which was imported from PEMF REPORT • Rename P2 Report as CMC Forest Fire Report. • Add 'read-only' user privilege to GFIS Fire Report and MKFFIS Fire Report which allows MKFFIS user to browse PEMF fire report, and allows GFIS user to browse CMC Fire Report. • Printing format of PEMF Fire Report to obtain approval of SiFH shall not be changed. 	SIMT	100%	06.11.2013	01.12.2013	01.12.2013	
7.	Performance Tuning						
4.7.1	Performance tuning of MKFFIS		10%				
	<p>a) Currently, there are following complaints about speed.</p> <ul style="list-style-type: none"> • MKFFIS GIS takes very long time to show the login page, if it is accessed over a long distance. For example, accessing from Japan, it takes 90 seconds to open the login page and another 90 • Speed to show FMUs is slow, and from time to time it fails to show them. 	TRINITY	30%	02.10.2013	25.10.2013	25.10.2013	
	<p>b) MKFFIS GIS shall be optimized by execution speed.</p>	TRINITY	30%	02.10.2013	25.10.2013	25.10.2013	

	c) Optimization is not limited to source code level. All the possible factors shall be taken into account. For example, server configuration, deployment of files, network structure, use of external servers (Google server for jQuery), indexing of tables in databases, etc.	TRINITY	10%	02.10.2013	25.10.2013	25.10.2013	
	d) Improvement of performance should be shown quantitatively.	TRINITY	15%	02.10.2013	25.10.2013	25.10.2013	
	Performance tuning of GFIS						
	a) Currently, there are following complaints about speed which are similar to MKFFIS GIS. <ul style="list-style-type: none"> • GFIS GIS takes very long time to show the login page, if it is accessed over a long distance. • Speed to show FMUs is slow, and from time to time it fails to show them. 	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013	
4.7.2	b) GFIS GIS shall be optimized by execution speed	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013	
	c) Optimization is not limited to source code level. All the possible factors shall be taken into account. For example, server configuration, deployment of files, network structure, use of external servers (Google server for jQuery), indexing of tables in databases, etc.	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013	
	d) Improvement of performance should be shown quantitatively.	TRINITY	0%	25.10.2013	05.11.2013	05.11.2013	
8.	Installation/QA/Training/Documentation						
4.8.1	MKFFIS and GIS Installation, Quality Assurance, Training, Documentation						
4.8.2	GFIS and GIS Installation, Quality Assurance, Training, Documentation						

4.4 Add New Functions to MKFFIS

4.4.1 We have started to work on the MGRS GRID. The idea is taken from the script that Mr. Kozu created. The lines are drawn from code, but when a user select a particular section of the grid a polygon is created on top of the grid containing the bounds of the quadrant. This is needed for getting the information via the intersection function provided by Openlayers. We are confident that the GRID will be done by 31.11.2013

4.4.4 Add function to fill section 5.1 in P2 report taking meteorological data from AWS. **SIMT**

Target: MKFFIS Fire Report

Waiting for test on side be CMC/JICA and approval.

Demo is on test side.

4.5 Add New Functions/Interface to GFIS

4.5.4 Search FMU by year of expiry of special plan **SIMT**

Target: GFIS Planning

History for forms 1, 3a, 4, 5, 6, 7, 8 and 9 with printing is done and login page with choose of history is done. Still forms 2, 2a and 3 need to be done, and also reports according to the history plan.

Demo is on test side.

4.5.5 Change monthly input to daily for form 3, 3a and 5 **SIMT**

Target: GFIS Planning

Waiting for test on side be PEMF/CMC/JICA and approval.

Demo is on test side.

4.5.6 Keep annual achievement for 10 years in Form 6 **SIMT**

Waiting for test on side be PEMF/CMC/JICA and approval.

Demo is on test side.

Target: GFIS Planning

4.5.7 Keep annual achievement for 10 years in Form 8 **SIMT**

Waiting for test on side be PEMF/CMC/JICA and approval.

Demo is on test side.

Target: GFIS Planning

4.5.8 Fill area in Form 1 taken from polygon attribute **SIMT**

Translation to English need to be done. Demo is on test side.

Target: GFIS Planning

4.5.9 Add National and Regional office level summaries to the reports in Reports/Rekapitulari menu. **SIMT**

Target: GFIS Planning

Waiting for test on side be PEMF/CMC/JICA and approval.

Demo is on test side.

4.5.10. Middle aged forest

Input is completely done. In some reports automatically is added group for middle aged forest. In the others, that need to be done. Demo is on test side.

4.6 Improvement related to both MKFFIS and GFIS modules

4.6.1 Modify PEMF Fire Report input module to report by fire. **SIMT**

Input form is done for insert and editing. Printing is done. Demo is on test server. Initial testing and transfer to CMC Forest Fire report need to be done. Demo is on test side.

4.7.1 Trinity extensively works on finding ways of fixing the performance issues. Unnecessary scripts are being deleted, performance tuning on the loading of the layers is done, external loading of the scripts is done etc.

4.4.1 We have some questions about this issue, our plan is to discuss them on Monday- **TRINITY**

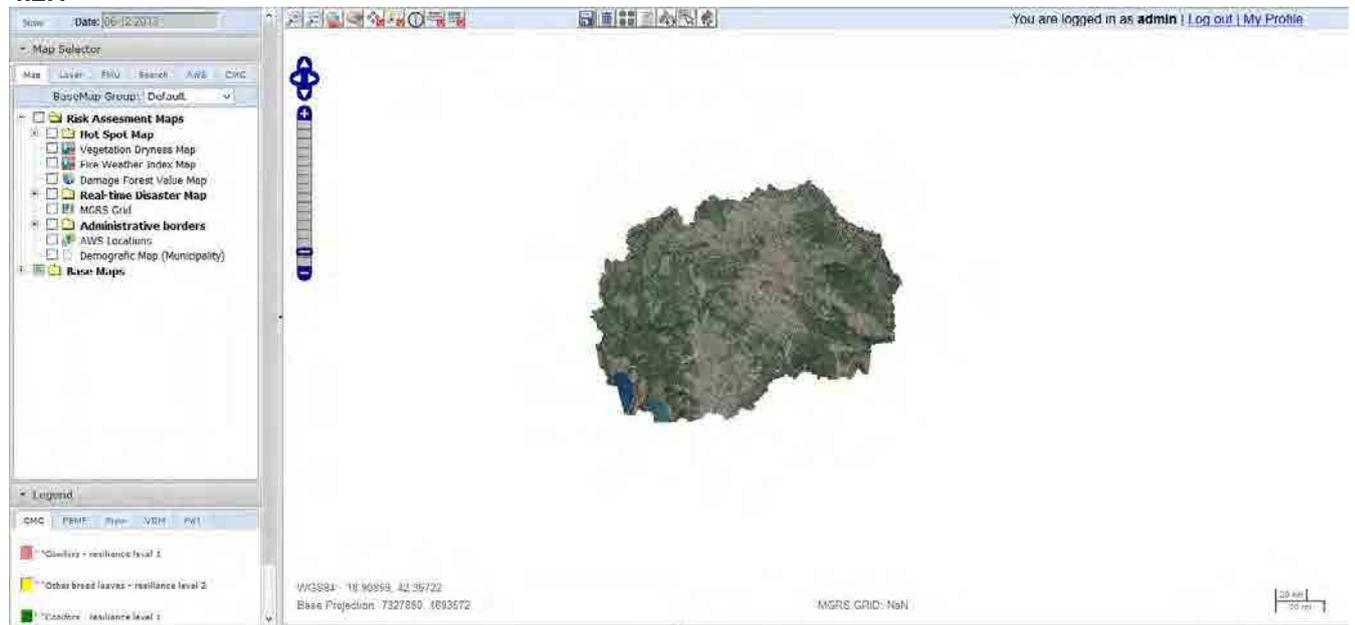
4.3.5 c. We think that this is not necessary, our proposal is to remove this point- **TRINITY**

Presentation

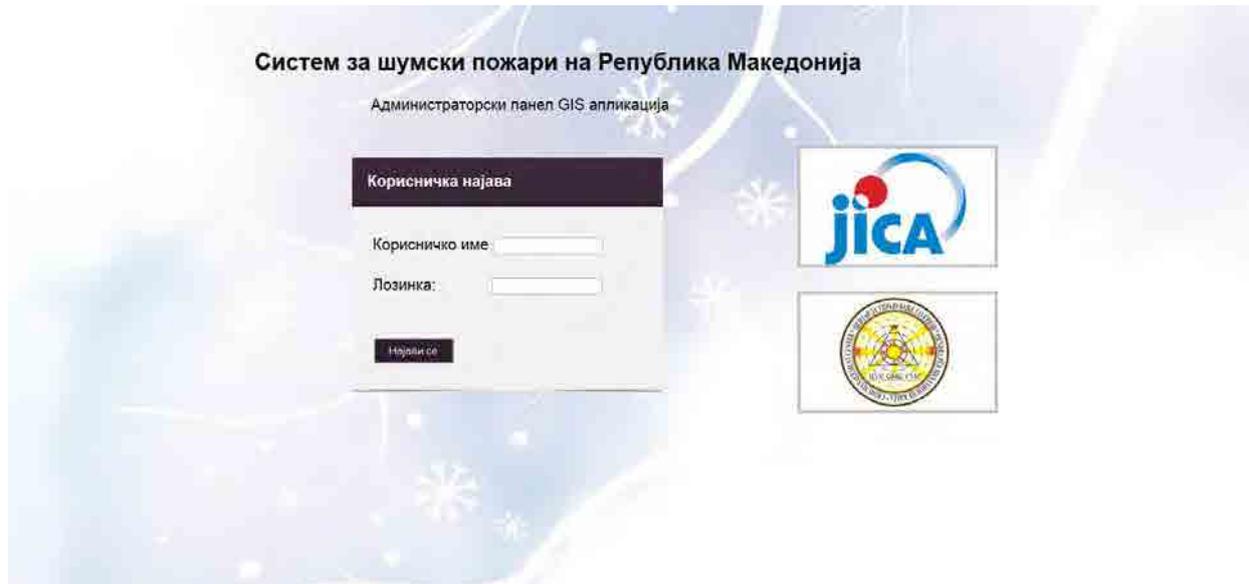
At Wednesday, 20.11.2013, SIMT made presentation of the new modules from SD2 that is done so far. Main agreement/remark was that function 4.5.9 is main benefit from the new functions to the planning engineers and other function will be very useful for employees in the regional centers, but not for planning engineers. That's why we should think about presentation to them, and maybe training also for them. Other remark is about functions for SD1, and they need in the navigation panel, when moving from one sub compartment to another, in forms 2 and 2a, to have text boxes for direct navigate for other sub compartment, because already made searching need two more clicks.

In addition we are sending print screens of our application on the mkffis1.cuk.gov.mk server – **TRINITY**

4.2.1



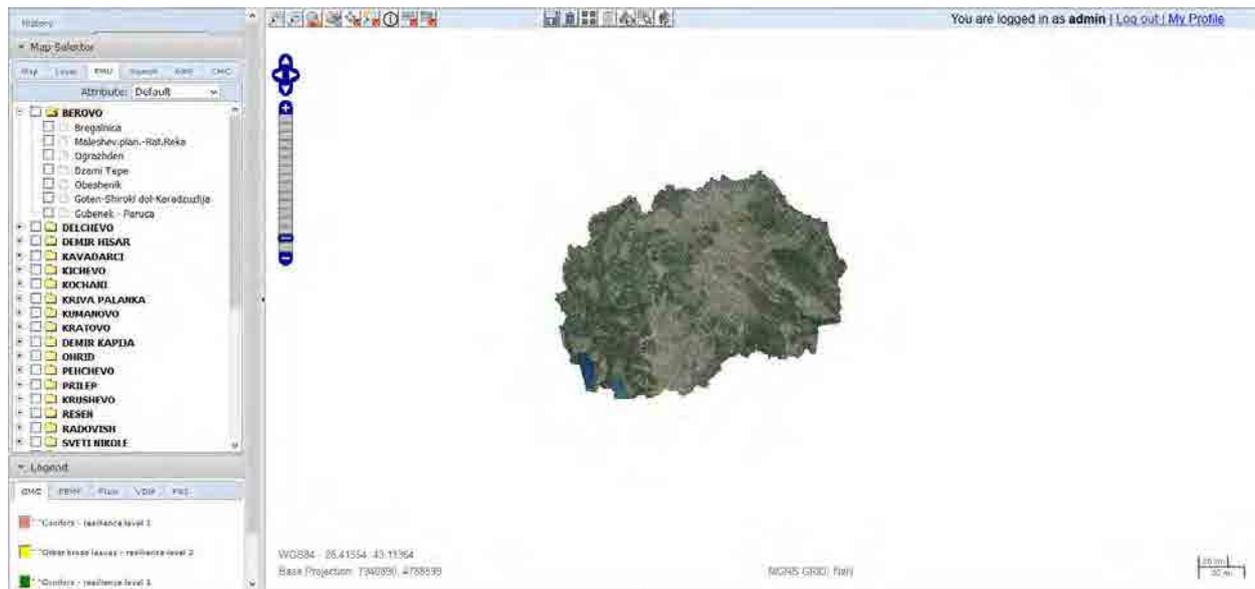
4.2.3



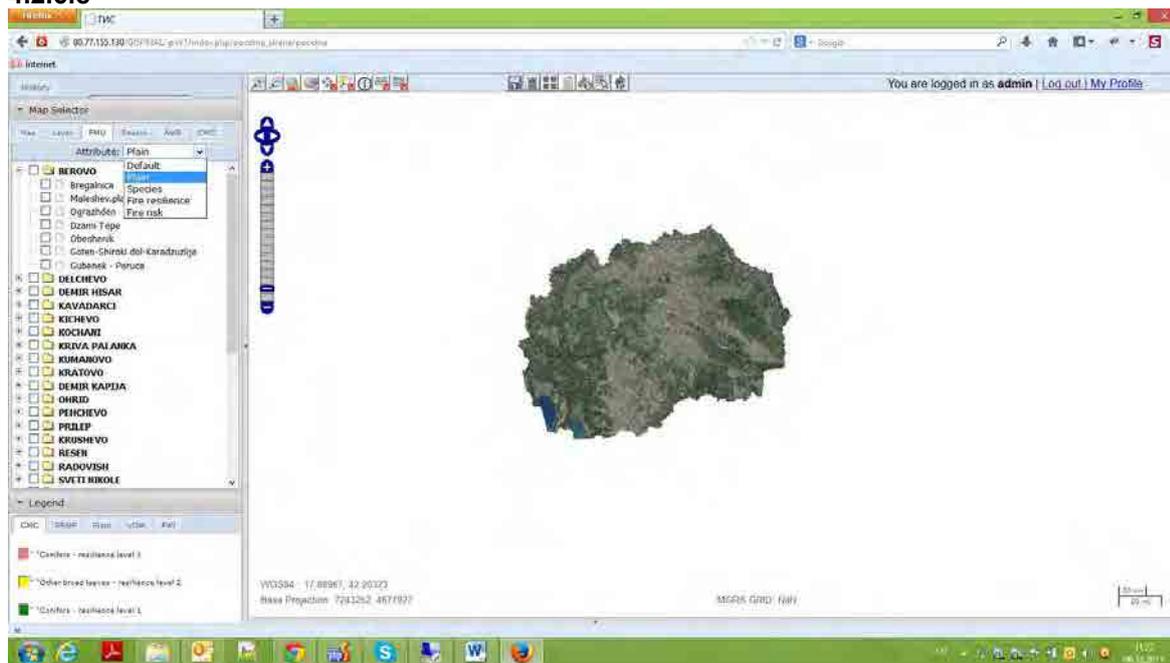
4.2.4



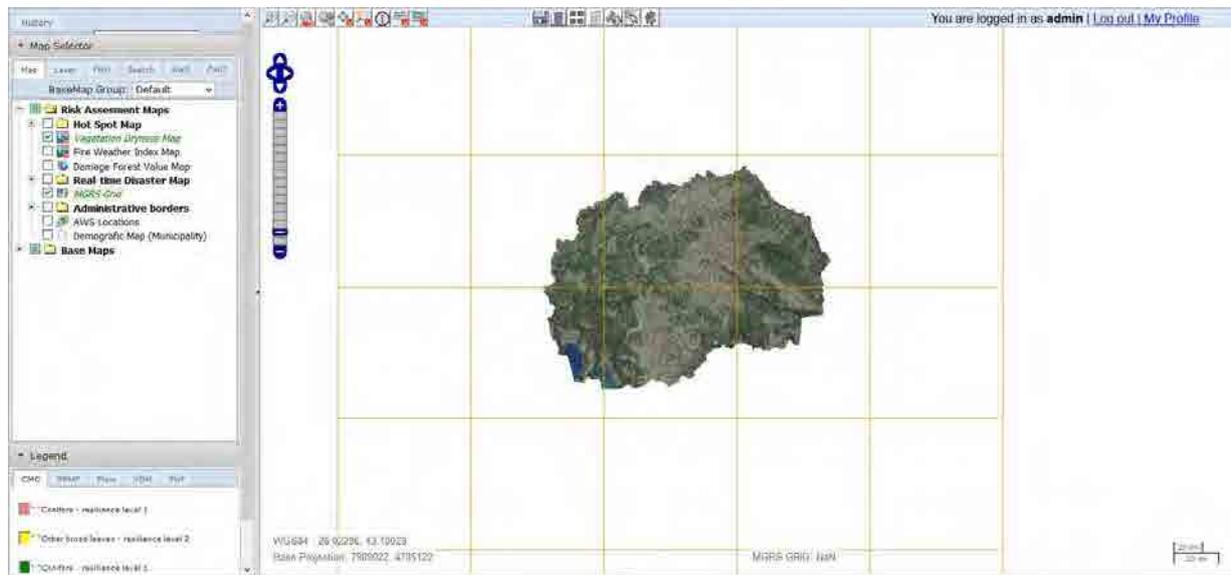
4.2.6



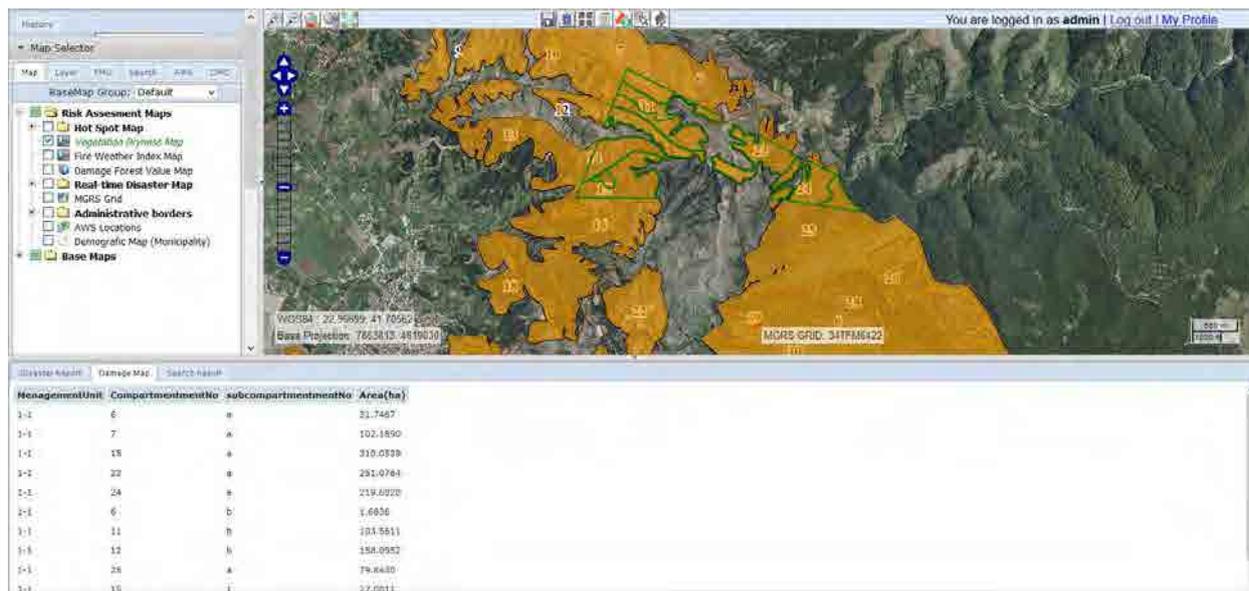
4.2.6.c



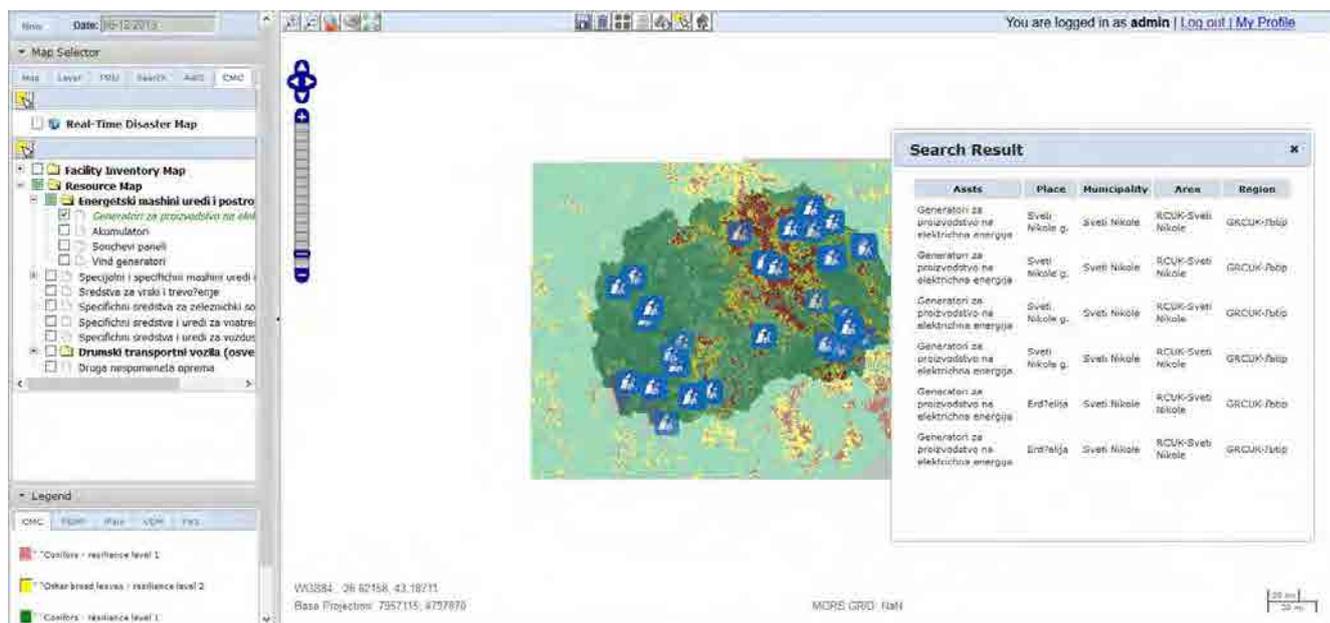
4.3.3



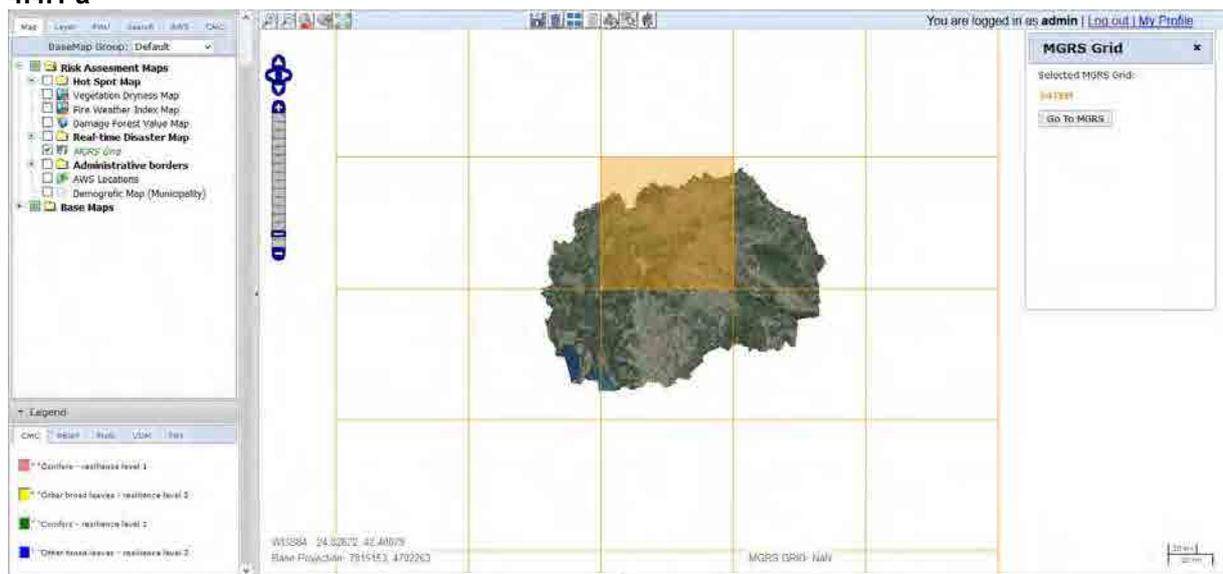
4.3.4



4.3.5

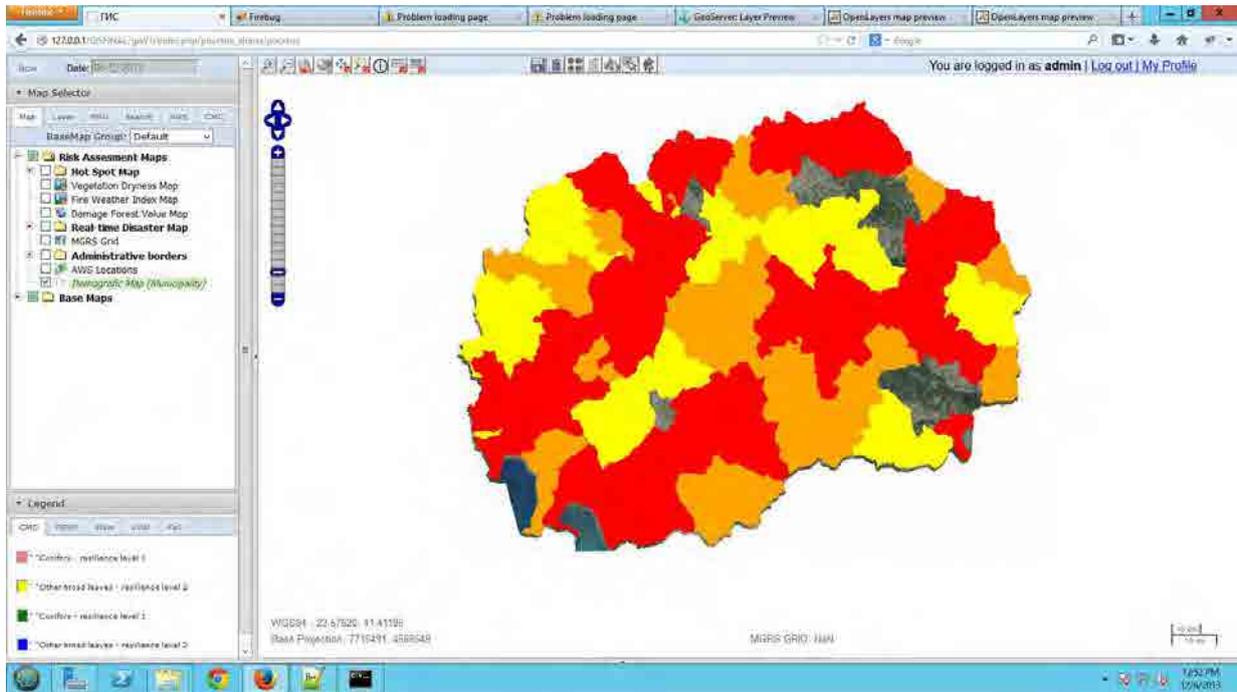


4.4.1 a

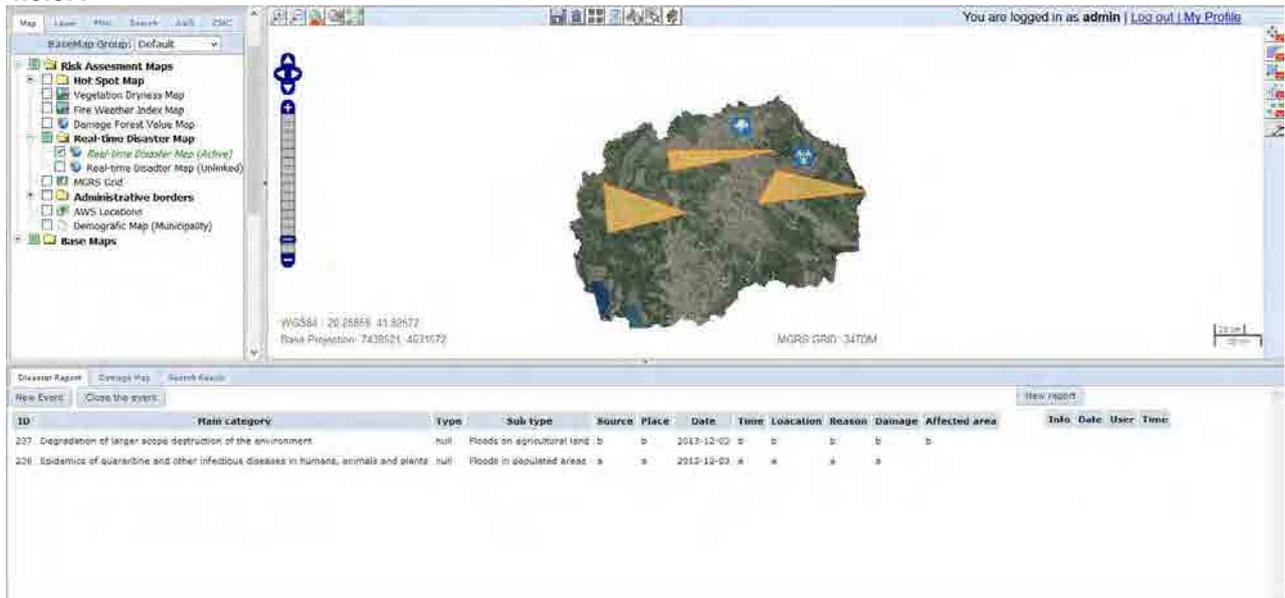


4.3.5.3

WEEKLY PROGRESS REPORT for the period from November 29th to December 6th 2013

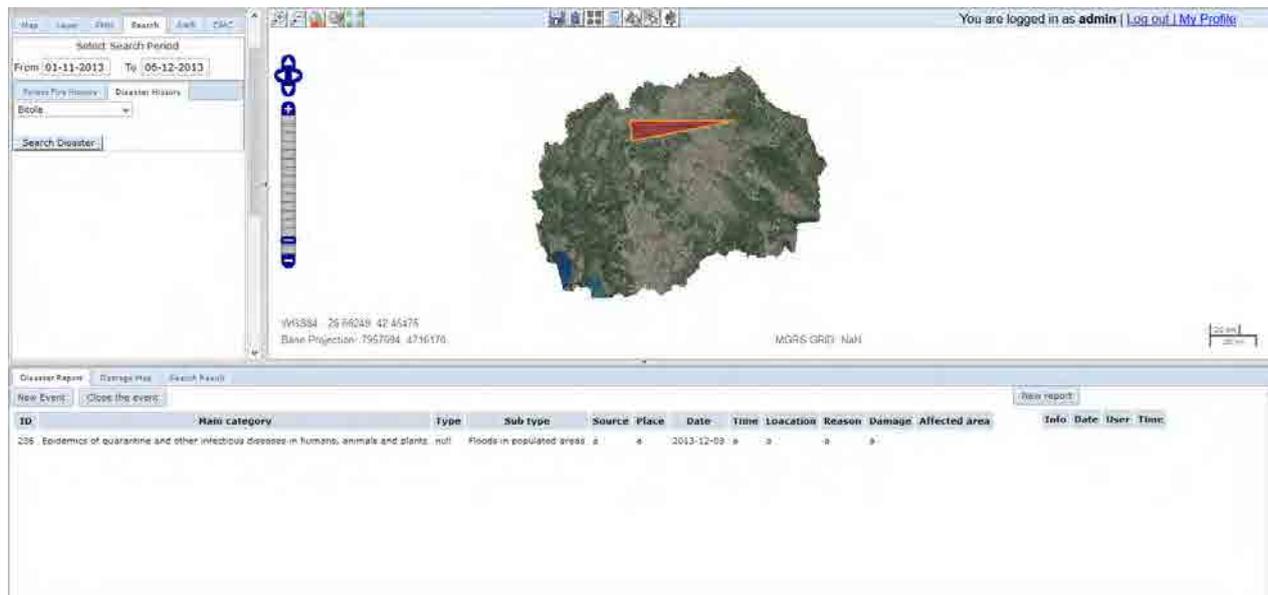


4.3.5.4



4.3.5.5

WEEKLY PROGRESS REPORT for the period from November 29th to December 6th 2013



Next available ID: 382

Status	Responsible	Priority	ID	FSD No.	subject	Issues (Yellow part : Please hold action.)	by	issue raised on
1:not yet	CMC and Trinity	2:Now	373		Topomap	One part of topomap is distorted near AREC map no. 831-2-1 (34TEL3026) by maximum 1km. See the Picture sheet. Please re-join map parts after CMC obtained proper map from MAFWE.	PEMF	13-Feb
1:not yet	SIMT	2:Now	332		AWS add	In HM UIF for adding new AWS (managing AWS) into HM MySQL database, please set coordinates as mandatory fields.	Honda	23-Jan
1:not yet	SIMT	2:Now	333		AWS add	Check the AWS coordinates of Krushevo and all other AWS that you installed. SIMT is the best person who can confirm the exact positions of AWS's. Then, let us together update the data using HM UIF created by SIMT so that we can observe and confirm that the updates are properly reflected to all the chains (HM MySQL -> CMC MySQL -> CMC Postgres table: meteorologicalstations -> DB:GISMAP TBL:AWS.)	Honda	23-Jan
1:not yet	SIMT	2:Now	344		FF rep CMC	Export Format CSV file: (done) Unusable data because of the time format mixture. DD/MM/YYYY HH:MM is the desired format. (done) Take care of null values appearing as 1/1/0001 12:00:00 AM. some records are divided into two parts in between regional center and municipality as seen in the attached file. Please correct.	Honda	30-Jan
1:not yet	SIMT	3:Before final payment	133	mkffis	AWS add	When adding new AWS to HM database, 1. It should be reflected in CMC database DB:CUK TBL:meteorologicalstation 2. It should also be reflected in DB:GISautomap TBL:AWS with proper geometry column 3. Geometry column should be re-calculated everytime the meteorologicalstation record is updated 4. It should be stated in maintenance manual that developer or user should not add AWS directly into DB without using user I/F because mandatory fields are not checked by database engine but in UIF.	mtg	23-Dec
1:not yet	SIMT	3:Before final payment	294		AWS quality assurance	AWS data quality check routine is skeptical. For example, Skopje AWS is recording temperature of -40 degree on Dec. 3, 8, and 18 which is not supposed to be reliable, but is-reliable flag is ON for these.	Kozu	13-Jan
1:not yet	SIMT	3:Before final payment	329		FF rep CMC	Export (done) Not all the reported items are selectable. Especially, all the items for analysis are missing from the selection list. Nothing for 3.detection, 4.cause, 5.condition, 6.fire type. These are extremely important when exported to Excel file for further analysis. Review all the items. ID137 can be cancelled if this function becomes perfect. (NOT YET) In English mode, make ENG fields selectable. This English part is the lowest priority before final payment	Honda	21-Jan
1:not yet	SIMT	4:MT	346		FF rep PEMF	In the list of PEMF reports, if I select a report from pages other than 1st page, page jumps back to the first page.	Honda	30-Jan
1:not yet	SIMT	4:MT	347		FF rep PEMF	In the preview and edit after control mode, show CMC report number after PEMF report number.	Honda	30-Jan

Status	Responsible	Priority	ID	FSD No.	subject	Issues (Yellow part : Please hold action.)	by	issue raised on
1:not yet	SIMT Trinity	3:Before final payment	268	mkffis	ff report	Prohibit the direct entry to FF reports capturing program. CMC FF report should always be accessed from MKFFIS link and PEMF FF report from GFIS link. (NEVER use IP address at any moment in the manual.) This should be applied only for the real-run MKFFIS not on test server.	Honda	30-Dec
1:not yet	Trinity	1:Urgent	337		FF search result	PEMF search does not seem to work. The following reports are searchable by GCUK:Southwest and also by Municipality:Drugovo, but not by PEMF:Kichevo. CMC Report Number 0112014 and 0122014 in RPEMF:Kichevo FMU: Ljuben -Srbjani 85a+86a	Honda	25-Jan
1:not yet	Trinity	1:Urgent	376		legend	Please put legend for 10 yr. risk	PEMF	13-Feb
1:not yet	Trinity	2:Now	293		FWI	The period to display FWI map is being set in a table created by SIMT. Now it seems like the period is hard coded as it does not display after changing the period. Please display according to the table variable.	Kozu	13-Jan
1:not yet	Trinity	2:Now	296			link from GFIS to MKFFIS	Igorche	16-Jan
1:not yet	Trinity	2:Now	315		GFIS	In GFIS, (not yet) In MK mode, name of FMU in EN (done) in English mode, name of maps in MK.	Honda	21-Jan
1:not yet	Trinity	2:Now	320	Pub. MKFFIS		On PublicMKFFIS , baseMaps Group should have selections of Google Hybrid / Google Satellite / Google Terrain / Google Street / Open Street map. Orho and topo will remain, but the default will be Google map. -->Igorce san? We will not show Vector maps(Administrative units is redundant) on public MKFFIS.(done)	cg	22-Jan
1:not yet	Trinity	2:Now	336		infobox	Info box does not show data in IE and Safari. (MK message probably says: no data at selected point)	Kozu	24-Jan
1:not yet	Trinity	2:Now	381		GFIS	Name of the zip file should reflect downloaded FMU name just as in SD1. Now it is a fixed name "groupshape.zip".	PEMF	24-Feb
1:not yet	Trinity	3:Before final payment	99	mkffis	basemap grp	Google maps can be selectable only for public MKFFIS if CMC wants. Google maps are not allowed to be used in member sites. If CMC decides to use Google maps for public , more selection should be added such as Satellite, Terrain, Road map, etc.	Kozu	19-Dec
1:not yet	Trinity	3:Before final payment	307	4.5.2		Limit available FMU by user privilege a) Add a function to the GFIS Admin page in order to specify FMUs under responsibility of each user. b) Limit FMUs to display and/or edit according to above privilege. c) Limit FMUs shown in the FMU Selector according to above privilege. d) Zoom in FMU under responsibility of the user when that user opens GFIS GIS. -> reconfirm feasibility	FSD	16-Jan
1:not yet	Trinity	3:Before final payment	352		legend	4. In the legend, avoid similar shades of colours, such as red and light red, as they are hard to tell apart. -> SPECIES: color set will be provided by PEMF Miro -> 10yr.Risk: color set will be provided by CMC Igorche -> HotSpots: color set will be provided by CMC Igorche	mtg	4-Feb

Status	Responsible	Priority	ID	FSD No.	subject	Issues (Yellow part : Please hold action.)	by	issue raised on
1:not yet	Trinity	3:Before final payment	369		Browser	In Chrome, if we add maps while the window is maximized, left pane and all the tools disappear. Only maps remain.	Kozu	10-Feb
1:not yet	Trinity	4:MT	20	4.2.1	All tabs	Height of legend tab should be manually adjustable. (As we discussed in the meeting) Also, once the height is adjusted, the height to be common to all the tabs. (We do not adjust the height for each tab such as map, layer, fmu, etc.) height for Search, AWS, CMC change slightly from the rest -map, layer, FMU.	Kozu	10-Dec
1:not yet	Trinity	4:MT	126	4.2.1	tool bar	Take off horizontal and vertical scroll bars from tool bar.	Kozu	23-Dec
1:not yet	Trinity	4:MT	129	mkffis	basemap grp	Max extent of zoom out for google map should be set just as ortho map. MGRS grid program does not assume the situation when the map is zoomed out in Europe level, or World level (it assumes only the use around neighboring countries)-> Trinity to explore the way.	Kozu	23-Dec
1:not yet	Trinity	4:MT	130	mkffis	basemap grp	At some timing, ortho and google map will have discrepancy of more than 10 km. We could not find the timing and cause of this, but it happens sometimes. Trinity said it is done. Please explain cause and remedy taken. Otherwise we cannot test.	Kozu	23-Dec
1:not yet	Trinity	4:MT	137	4.2.1.f	search	FF History search result table: Can we sort the table by clicking the field name? (maintenance period)	Honda	23-Dec
1:not yet	Trinity	4:MT	141	4.3.5		Search result table for assets and facilities: Some characters in data corrupt. (maintenance period)	Kozu	23-Dec
1:not yet	Trinity	4:MT	210	4.2.1.f	search	FF History search result table: <u>In the maintenance period:</u> result table to be nested. If we click + button on a record of common info for the fire, affected subcompartments info to be shown: Management Units Code, Management Units Name, Compartment, SubCompartment, Burned Area(ha) per SubC, Burnt Volume per SubC, main species, etc.	stevko	26-Dec
1:not yet	Trinity	4:MT	267	4.3.3	mgrs	Make Emergency Grid ON automatically when E-grid button is clicked.	Gjorgji	30-Dec
1:not yet	Trinity	4:MT	299	4.3.5.3		Demographic map should be discussed with CMC in maintenance period.	FSD	16-Jan
1:not yet	Trinity	4:MT	300	4.3.5.5.c	disaster search	· Municipality and Settlement selector · Type of events are missing as search criteria.	FSD	16-Jan
1:not yet	Trinity	4:MT	302	4.4.1		The following is missing: · Summary of disaster events in the grid. Disaster events are in a database created by UNDP which is accessible from MKFFIS.	FSD	16-Jan
1:not yet	Trinity	4:MT	304	4.4.2		a) Show demographic information of an administrative area clicked (National, Municipalities, Settlements). When info button is clicked, show summary, and detail table representation to be shown below on the screen. Consult with CMC.	FSD	16-Jan
1:not yet	Trinity	4:MT	379		GFIS/MKFFIS	With Firefox and Chrome, the browser goes down if we leave the monitor on for more than a day or sometimes longer. Please keep MKFFIS ON for one week, monitor the situation, and come up with the solution.	Kozu	17-Feb

Status	Responsible	Priority	ID	FSD No.	subject	Issues (Yellow part : Please hold action.)	by	issue raised on
1: not yet	Trinity	4:MT0	298	4.3.5.1 4.3.5.2		For resource map, facility map, please confirm that data displayed is taken dynamically from UNDP database and not creating data copy on MKFFIS.--> If it is not dynamic, do this during maintenance period.	FSD	16-Jan
1: not yet	Trinity	4:MT0	308	4.5.3		Allow access to past versions of forest plan--> we have not confirmed map past version ->reconfirm feasibility Are calendar control and show history buttons work to display past maps? TRINITY: This issue is correlated with ID. 360; 308; 362 They don't want to see filtered polygons in one layer but in multiple layers.	FSD	16-Jan
1: not yet	Trinity	4:MT0	351		Tools	3. In the tools: Grid search all the way to Demographics, you first have to check and then go to use the tools. Enable that by clicking the tools, they are automatically selected from the side menu, and de-check the tools which are not necessary. -> This will be done as try-and-test in consultation with CMC during MT period.	mtg	4-Feb
1: not yet	Trinity	4:MT0	359		GFIS	b. File name convention (nomenclature) of map files: Now this is not defined in nowhere and the system depends on PEMF engineer's good understanding. (i.e. any name they can put by mistake) In order to ensure the proper file names, do the followings: i. Clearly state the nomenclature in manuals in BOLD LETTERS ii. Create simple user interface to let users input some information and rename files according to the nomenclature iii. the above mentioned interface should cater for both completely new FMU and modified existing files. If this is done by Feb. 17, this training can be included in Kozu san's PEMF training. TRINITY: This issue is correlated with ID. 360; 308; 362;. We had a meeting with PEMF together with CMC representative and they stated a lot of changes that they want in uploading polygons for FMU (new plan or annex), uploading of polygon for Forest Fire, Search Forest fire and show earlier polygons of plans and annexes. Some of this functions should be done in MKFFIS as well. But since it will take a longer time to develop and test this functions we agreed this to be done in MT period.	mtg	4-Feb
1: not yet	Trinity	4:MT0	361		GFIS	There is an error in uploading compartment polygons with "geometry type mismatch: multi polygons not allowed....." This should be rectified. -> will be done together with 362	mtg	4-Feb
1: not yet	Trinity	4:MT0	362		GFIS	c. We have not seen that any damage polygon / modified FMU data are displayed on MKFFIS. Although this is within SD1, can you demonstrate us in the test machine? -> This will be done after Trinity reflects PEMF's request (keeping history data for damaged area polygons and FMU's). -> PEMF's request and design change will be described by Trinity and will be sent to the Project TRINITY: This issue is correlated with ID. 360; 308; 362	mtg	4-Feb
1: not yet	Trinity	4:MT0	371		Damage map	Please add grand total for Intersected area column at the end.	Honda	11-Feb
1: not yet	Trinity	4:MT0	372		FMU Info	I did "Display info box of one subcompartment, then I change to Form9 from drop-down, click on View form. Form8 is shown instead of Form9.	Honda	11-Feb

Status	Responsible	Priority	ID	FSD No.	subject	Issues (Yellow part : Please hold action.)	by	issue raised on
1:not yet	Trinity	4:MT0	380		GFIS	GFIS version 2 should be uploaded as real-work system	Kozu	17-Feb
1:not yet	Trinity	4:MT1	355		privilege setting	This point should be re-discussed with CMC-Operation Dusko and make final decision. 7. When a report is created, add the option to edit or delete that report only by the author. Make groups of users (RCMC or Major RCMC) to have privilege to create or edit a single report.	TOT	31/1
1:not yet	Trinity	4:MT1	363		daily events	Now, real-time events polygons are related to events. It was requested by CMC to relate them to each report. Details to be discussed in February after trainings will be over with CMC-Operation including how to show in History and how to show in Search.	mtg	4-Feb
1:not yet	Trinity	4:MT1	370		message	"There are no VDM maps published for selected date" message sometimes appears when NOW status and there is VDM.	Honda	11-Feb
1:not yet	Trinity	4:MT2	374		GFIS datatable	Take off data tables for damage map and disaster report from GFIS	Kozu	14-Feb
1:not yet	Trinity	4:MT2	375		GFIS Popup	Pop up message of "New disaster report" is not necessary on GFIS.	Kozu	14-Feb
2:needs further testing	SIMT	4:MT	73	4.6	FF rep PEMF	2.1 All the data which can be taken from inventory should be populated into PEMF FF report automatically. (e.g. exposition, slope, type of forest, main species, etc.) The data should be editable. Seems ok. Needs to check whether correct data is taken from inventory.	PE-Igor	17-Dec
2:needs further testing	Trinity	4:MT	311	7		Performance Tuning. Minify Java Script and Indexing of tables and utilizing SDN. ----> do as much as you can before payment. Continue in maintenance period.	FSD	16-Jan
2:needs further testing	Trinity	4:MT	22	3.1.2	Browser	MKFFIS should be usable also with Chrome, IE, Safari	Kozu	10-Dec
2:needs further testing	Trinity	4:MT	152	4.3.4	Damage map	Sometimes intersected area is invisible although search table shows the data of inner polygon. ->seems ok 2:Now, but needs to keep watching. Trinity said it is done. Please explain cause and remedy taken. Otherwise we cannot test.	Honda	24-Dec
2:needs further testing	Trinity	4:MT	200	4.2.1	layers	Sometimes layer which was selected in map does not appear in Layer panel while actual map is displayed. Recurring rule unknown. Trinity said it is done. Please explain cause and remedy taken. Otherwise we cannot test.		
2:needs further testing	Trinity	4:MT	201	4.2.1	layers	Sometimes base layer is placed outside of base layer group on the tree. Recurring rule unknown. Trinity said it is done. Please explain cause and remedy taken. Otherwise we cannot test.		
2:needs further testing	Trinity	4:MT	270	4.3.4	Damage map	While drawing polygon, it is hidden below the map. Recurring rule unknown. Trinity said it is done. Please explain cause and remedy taken. Otherwise we cannot test.	Honda	8-Jan
2:needs further testing	Trinity	4:MT	284			Orthomap comes on top of all the maps and I cannot put it back to the bottom unless I refresh	Honda	10-Jan