別 添 資 料

| Questio ner | Answerer | Date | Division | Part | Questions | Answer | Status |
|----------------|----------|------|----------|----------------|------------------------------------|--------|--------|
| IFX | | | General | Organization | Divisions / Organization Chart | | |
| IFX | | | | _ | numbers of Staff | | |
| IFX | | | | GIS | request from Others ? | | |
| IFX | | | | | "Map" Questions (Attached Sheet) | | |
| IFX | | | | Budget | Total and DRRM & IT | | |
| IFX | | | | Environment | Internet connection? Download | | |
| | | | | | capavility? | | |
| IFX | | | ΙΤ | Organization | How many staff? | | |
| IFX | | | | | Members | | |
| IFX | | | | | Locations | | |
| IFX | | | | | Role and responsivility | | |
| IFX | | | | | Understanding of the project. | | |
| IFX | | | | | Budget | | |
| IFX | | | | Equipment | PC: numbers | | |
| IFX | | | | | PC: specs / OS | | |
| IFX | | | | | PC: specs | | |
| IFX | | | | | A/C | | |
| IFX | | | | | Network | | |
| IFX | | | | | Power | | |
| IFX | | | | | Pole & Tower | | |
| IFX | | | | | Reduntant(Back-up) Power | | |
| IFX | | | | | Management? | | |
| ILA | | | | Skill | What kind of skill do the staff | | |
| IFX | | | | | have? | | |
| IFX | | | | | Maintenance & Service (how | | |
| IFX | | | | | often?) | | |
| IFX | | | | | Regular Update? | | |
| IFX | | | | | Any troble before? (Physically and | | |
| ILV | | | | | Technically) | | |
| IFX | | | | Software | DB, Office, Mapping? | | |
| IFX | | | | | communication tools (telephone, | | |
| IFX | | | | | FAX, mail, SNS) | | |
| IFX | | | | | LGU Home Page | | |
| IFX | | | | | Back Up | | |
| IFX | | | | Policy / Rules | | | |
| ILA | | | | | Security: Robbery measure, | | |
| IFX | | | | | Locks? | | |

| Questio ner | Answerer | Date | Division | Part | Questions | Answer | Status |
|----------------|----------|------|----------|--------------|--|--------|--------|
| ΙFΧ | | | | | Anti-Virus | | |
| IFX | | | | For System | Current Problems? | | |
| ΙFΧ | | | | | Expectation | | |
| IFX | | | DRRM | Organization | How many staff? | | |
| ΙFΧ | | | | | Members | | |
| IFX | | | | | Locations | | |
| IFX | | | | | office size | | |
| IFX | | | | | Role and responsivility | | |
| IFX | | | | | Understanding of the project. | | |
| IFX | | | | | Budget | | |
| IFX | | | | Equipment | PC: numbers | | |
| IFX | | | | | A/C | | |
| IFX | | | | | Network | | |
| IFX | | | | | Power | | |
| IFX | | | | | Pole & Tower | | |
| IFX | | | | | Others | | |
| IFX | | | | Skill | What kind of skill do the staff have? IT skill? | | |
| IFX | | | | | Any troble before? (Physically and Technically) | | |
| IFX | | | | Мар | impression of OSM | | |
| IFX | | | | Map | What maps do you use mainly for DRRM activity? | | |
| IFX | | | | | Special map symbols? Input datacandidate | | |
| IFX | | | | DATA | Data input skill by DRRM Staff. Evacuation sites, routes, hazard locations | | |
| IFX | | | | | What Data do you request mainly for DRRM activity? | | |
| IFX | | | | | Points of Interest Listed data? (Excel files?) | | |
| IFX | | | | | Data Sending to other LGU etc? Data exchanges? | | |
| IFX | | | GeoCloud | Function | Users authority: Management & Users | | |

| Questio ner | Answerer | Date | Division | Part | Questions | Answer | Status |
|----------------|----------|------|----------|--------|--|--------|--------|
| IFX | | | | | Print requirement (Size, numbers, special requests?) | | |
| IFX | | | | | require root finding? | | |
| IFX | | | | | need server access time out? How long? | | |
| IFX | | | | DATA | Address / Postal Code | | |
| IFX | | | | | LGU ID | | |
| IFX | | | | | Data control: Limits of access? | | |
| IFX | | | | Мар | impression of OSM | | |
| IFX | | | | System | Current Problems? | | |
| IFX | | | | | Expectation | | |

| | | | | LGU: | | |
|----|--------------------|---------------------------------|---|---|--|-------------|
| | Lavan | Title | Description | Type of Information | Level | Volume |
| | Layer | Title | | (Paper Doc., PDF, Scanned Image, or Digital Map) | (National, Provincial, City, Barangay, or Other) | (How many?) |
| | | Topography Map | Topography Map showing the higher and lower | | | |
| | | | spots | | | |
| 1 | Base Map | Urban Planning Map | Urban Planning Map showing the current and | | | |
| | | | future planned urban planning | | | |
| | | other maps | any other maps which might be useful | | | |
| | | Flood damage survey | Results of flood damage survey, information such | | | |
| | | | as flood depth, direction, duration, etc. | | | |
| 2 | Hazard Information | Inundation Map | inundation map prepared based on previous flood | | | |
| 1- | Trazara imormation | | events, and/or simulation results | | | |
| | | Other inundation information | Any other hazard (flood) information which might | | | |
| _ | | | be useful | | | |
| | | Location of Key Infrastructure | Major & minor road, river & stream, canals, | | | |
| | | | railway, etc. | | | |
| | | Location of Key Buildings | Church, hospital, park, school, evacuation center, | | | |
| | | | open space, location of key individuals/team | | | |
| | | | (house of Barangay captain, Barangay hall, police, | | | |
| | T 1 1 | | fire station, rescue team), warehouse (stockpile for | | | |
| 3 | Landmark | | disaster: managed by Department of Social Welfare | | | |
| | Information | | and Development at Barangay Level), etc. | | | |
| | | | | | | |
| | | | | | | |
| | | Location of Disaster Management | Location of speaker, siren, water level/rain | | | |
| | | Related Facilities | observation stations | | | |
| | | other infrastructure/buldings | Any other infrastructure or buildings which might | | | |
| | | | be useful Information on evacuation order, flood warning, | | | |
| | | Evacuation Information | | | | |
| 4 | Other | D1-4: | siren pattern, Information on population, vulnerable people | | | |
| | | Population | | | | |
| | | Policy/Act | Disaster Management Policy, Act, Action Plan, | | | |

別添2

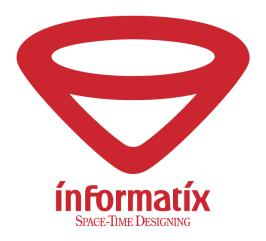
GeoCloud Project In Pangasinan

Work together to upgrade LGUs' capability!



Informatix inc.

- Founded 1981
- Over 35 years in spatial information business in Japan.
- Developer of Spatial Information software & solutions. (GIS, CAD, CG)
- 3 offices, HQ Kawasaki, Osaka, Nagoya.
- 145 engineers out of 195 employees.
- Many Installed bases in the governmental organizations and LGUs in Japan.





Kawasaki HQ, Kanagawa

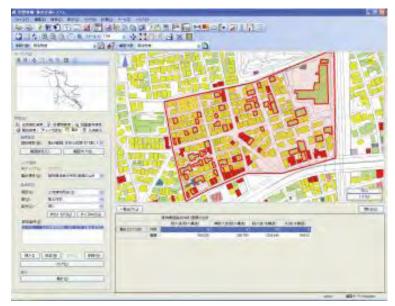
Informatix's Software Product

GEO CLOUD®

Our Reliable GIS Software

- ■Sharable
- **■**Easy Operation
- ■Powerful (Professional)
- **■**Convenient





GeoCloud Project Summary

◆ Survey Project Title:

"The Verification Survey with the Private Sector for Disseminating Japanese Technologies for Integrated Geographic Information System (GIS) for Advancement of Regional Disaster Risk Reduction and Management."

◆ Summary:

◆ Informatix will apply GeoCloud Integrated GIS to the Province of Pangasinan and 3 LGUs, and confirm the effectiveness of the product for the disaster risk reduction and management (DRRM) in this region.

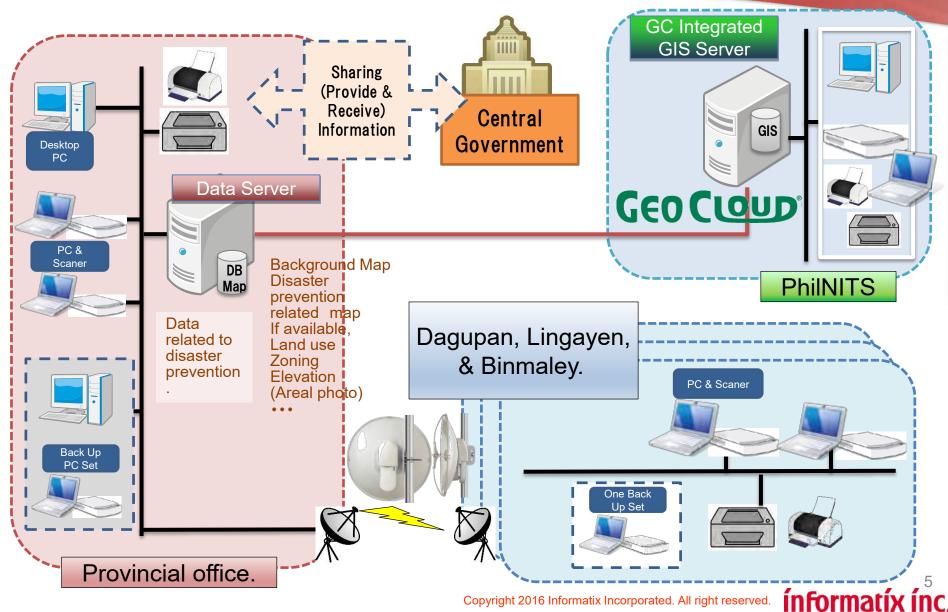
Survey Project Purpose:

- To verify the effectiveness of GeoCloud for DRRM activities in Pangasinan Provincial Government and 3 LGUs.
- ◆ To figure out the coordination between the Integrated GIS to be developed by Informatix Inc. and the current Philippine policies in meteorological and DRRM matters.



Project System Configuration





What to do? : Actiities

1: Information Sharing

To study the method to share information about meteorological and disaster risk reduction between governmental organizations and Province of Pangasinan. 2: GeoCloud Operation Introduction and operation of Integrated GIS for Province of Pangasinan.

| Mando | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
|-----------|---------|-------------|---------|-----------|-----------|------------|-----------|----------|--|
| Month | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | |
| | | | | Preparati | ion Stage | | | | |
| @GeoCloud | Spec | ification C | heck | System A | djustment | and Base D | ata Entry | Test Run | |
| | Data Ch | eck & Arra | ngement | | | | Hardware | Training | |

| Month | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|-----------|-----|-----|-----|------|------------|--------|-----|-----|-----|-----|
| Month | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug |
| ②GeoCloud | | | | Form | nal Run 10 | Months | | | | |
| | | | | | | | | | | |

3: DIG

To implement Disaster Imagination Game (DIG) twice in Pangasinan

4: Promotion

To make a plan to disseminate Integrated GIS into all over the Philippines.

Members

| Member | | Part | detail |
|-----------------|-------------------|---------------------|--|
| | proposal group | Summary | Software provide, Technical Support, |
| Informatix | Sroup | operations support | System training, education for the operative |
| | | | enforcement to PhilNITS. |
| The Province of | User group | User | Enforcement of data conversion work, Running the |
| Pangasinan | | | software. |
| & 3 LGUs | | | |
| Central | Invited | Supporter | Attending meetings and giving advices and |
| Government | group | | information. |
| Agencies | | | |
| CTH | Consultant | consulting | giving advice, survey, and making the report. regional |
| CTII | | | and Community disaster prevention plan, |
| | | Disaster drill | Making the drill plan and operation. |
| | Local | Local operative | Setting support, Help desk, training support |
| | Partner | support | |
| PhilNITS | | Software adjustment | Software development, LGU's manual. |
| | | Training | Trainor, Setting, |
| | | Survey support | Making and preparations for survey material |

^{*} JICA supports the project totally.

Outputs & Outcomes

- Construction of sharable DRRM database on GeoCloud in Pangasinan. ⇒Upgrade DRRM Capability
- Establishment of the framework in which DRRM information is shared mutually and rapidly, complying related policies of central governmental organizations.
- > Practical use of the Integrated GIS other than DRRM matters, such as city planning and assets valuation.
- ➤ Pangasinan will be known as <u>the best</u> model of practical use of Integrated GIS for DRRM, and it helps to disseminate the framework all over the Philippines.

Individual Activities

- Role of PhilNITS by PhilNITS
- Overview of DIG by CTII

"Launch Meeting"

March 31, 2016

PROGRAMME

AM

Welcome Remarks *Hon. Amado T. Espino, Jr.*

Governor, Pangasinan Province

Remarks *Takahiro Morita*

Senior Representative, JICA Philippines

Project Overview Presentation.

1. JICA New Scheme

"Verification Survey to Disseminate"

JICA

Japanese Technology (V/S).

2. GeoCloud Project in Pangasinan

Informatix

Include:

➤ Role of PhilNITS as the local partner

PhilNITS

Overview of Disaster Imagination Game(DIG) in the Project

CTII

Acceptance Remarks Hon. Amado T. Espino, Jr.

Governor, Pangasinan Province

Hon. Belen Fernandez Mayor, Dagupan City

Hon. Josefina V. Castañeda

Mayor, Lingayen

Hon. Simplicio L. Rosario

Mayor, Binmaley

Lunch

PM

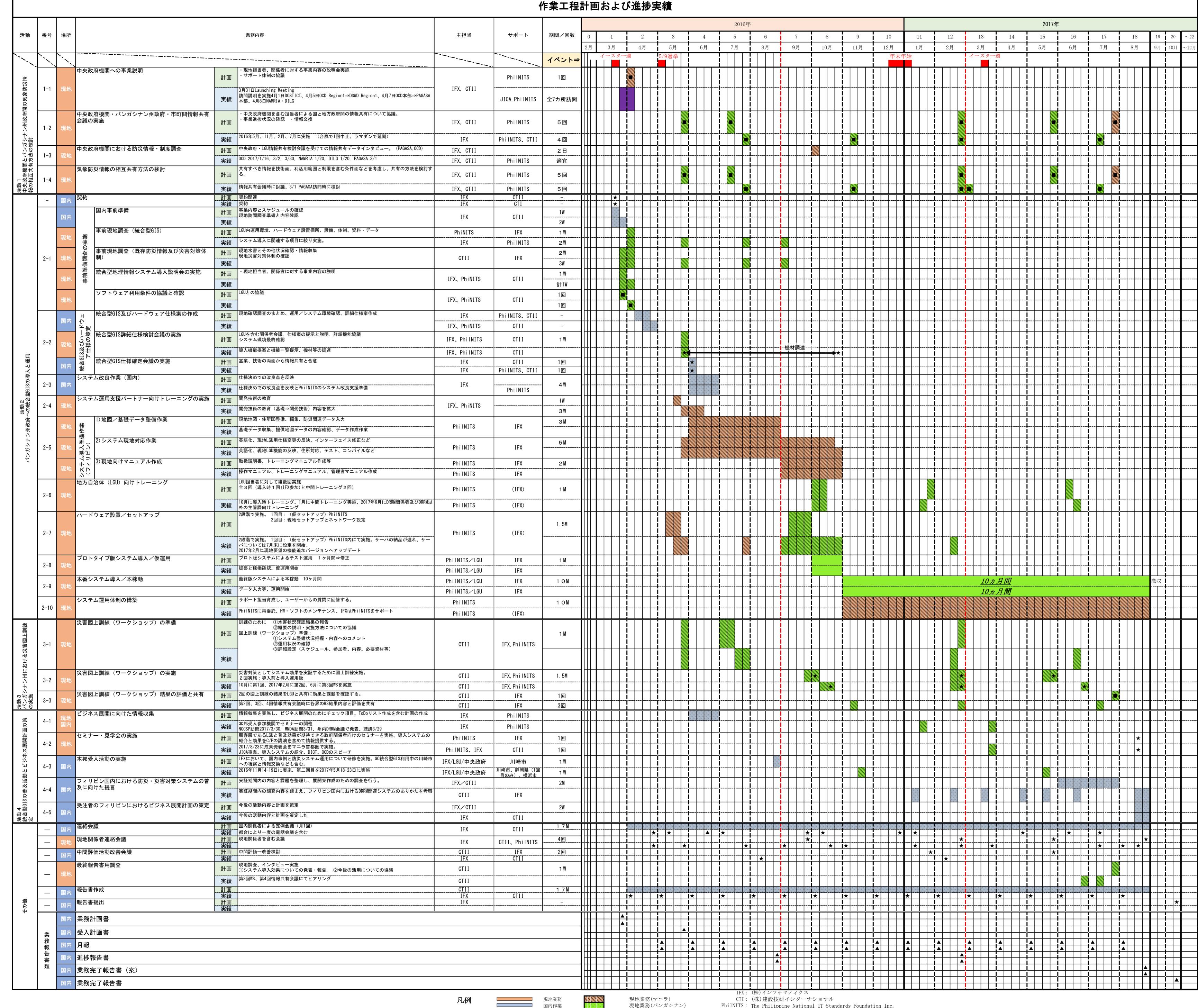
Open Forum

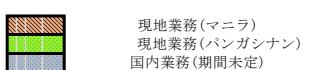
Networking of Project Stakeholders

| Classification 1 | Classification 2 | Function | 機能(日本語) |
|------------------|--|---|--|
| Map | File | Create New | 新規作成 新規作成 |
| map | | Open File | 開く |
| | | Save File | 保存 |
| | | Save As File | 名前を付けて保存 |
| | | Show Recent Files | 最近開いたファイル |
| | Print/Export | Print | 地図印刷 |
| | | Print Legend | 凡例印刷 |
| | | Print Preview | プレビュー表示 |
| | | Export Image | 画像出力 |
| | | Export File | 地図ファイル出力 |
| | Display Map | Zoom Map | 地図拡大縮小 |
| | | | 地図移動 |
| | | Display in Center of Specified | 地図中心移動 |
| | | Point | |
| | | Rotate Map | 地図回転 |
| | | Box Zoom | 地図範囲拡大 |
| | | Use Overview Map | 索引図表示 |
| | | North point | 方位記号の表示 |
| | | Copy to Clipboard of Map Image | 地図のクリップボードコピー |
| | | etc. | |
| | Layer Setting | Show/Hide Layer | レイヤ表示非表示 |
| | | Layer Control | レイヤ管理 |
| 1 | | Insert Point from | アドレスマッチング |
| | | Address/Coordinate | |
| | | Configure Layer Status | レイヤの編集設定 |
| | | Change Order of Layer | レイヤの並び順設定 |
| | | Set Scale Range to Layer | レイヤの表示スケール設定 |
| | | Set Override Style to Layer | レイヤの優先スタイル設定 |
| | | Disclosure Layer to Public | レイヤの公開設定 |
| | | etc. | ワイプ表示 |
| | Search and Show Position | Address Search (Selected from a List) | 住所検索(一覧から選択) |
| | | Lon and Lat Search | |
| | | Landmark Serch | 14.发性及1人水 |
| 1 | | | |
| | | | ブックマーク |
| | Measurement Function | etc. | ブックマーク 距離計測 |
| | Measurement Function | etc. Measure Distance | 距離計測 |
| | Measurement Function | etc. Measure Distance Measure Area | 距離計測 面積計測 |
| | Measurement Function | etc. Measure Distance Measure Area Measure Lon and Lat | <u>距離計測</u> 面積計測 緯度経度計測 |
| | | etc. Measure Distance Measure Area Measure Lon and Lat etc. | 距離計測 面積計測 緯度経度計測 所要時間計測 |
| | Measurement Function Clipboard Function | etc. Measure Distance Measure Area Measure Lon and Lat etc. Cut | <u>距離計測</u> 面積計測 緯度経度計測 |
| | | etc. Measure Distance Measure Area Measure Lon and Lat etc. Cut Copy | 距離計測 面積計測 緯度経度計測 所要時間計測 切り取り コピー |
| | | etc. Measure Distance Measure Area Measure Lon and Lat etc. Cut | 距離計測 面積計測 緯度経度計測 所要時間計測 切り取り |
| | Clipboard Function | etc. Measure Distance Measure Area Measure Lon and Lat etc. Cut Copy Paste Delete | 距離計測 面積計測 緯度経度計測 所要時間計測 切り取り コピー 貼り付け 削除 |
| | | etc. Measure Distance Measure Area Measure Lon and Lat etc. Cut Copy Paste | 距離計測 面積計測 緯度経度計測 所要時間計測 切り取り コピー 貼り付け |
| | Clipboard Function | etc. Measure Distance Measure Area Measure Lon and Lat etc. Cut Copy Paste Delete Draw Line | 距離計測 面積計測 緯度経度計測 所要時間計測 切り取り コピー 貼り付け 削除 線の作図 多角形の作図 円の作図 |
| | Clipboard Function | etc. Measure Distance Measure Area Measure Lon and Lat etc. Cut Copy Paste Delete Draw Line Draw Polygon | 距離計測 面積計測 緯度経度計測 所要時間計測 切り取り コピー 貼り付け 削除 線の作図 多角形の作図 |
| | Clipboard Function | etc. Measure Distance Measure Area Measure Lon and Lat etc. Cut Copy Paste Delete Draw Line Draw Polygon Draw Circle | 距離計測 面積計測 緯度経度計測 所要時間計測 切り取り コピー 貼り付け 削除 線の作図 多角形の作図 円の作図 同心円の作図 円弧の作図 |
| | Clipboard Function | etc. Measure Distance Measure Area Measure Lon and Lat etc. Cut Copy Paste Delete Draw Line Draw Polygon Draw Circle Draw Concentric Circle | 距離計測 面積計測 緯度経度計測 所要時間計測 切り取り コピー 貼り付け 削除 線の作図 多角形の作図 円の作図 同心円の作図 |
| | Clipboard Function | etc. Measure Distance Measure Area Measure Lon and Lat etc. Cut Copy Paste Delete Draw Line Draw Polygon Draw Concentric Circle Draw Arc | 距離計測 面積計測 緯度経度計測 所要時間計測 切り取り コピー 貼り付け 削除 線の作図 多角形の作図 円の作図 同心円の作図 円弧の作図 |
| | Clipboard Function | etc. Measure Distance Measure Area Measure Lon and Lat etc. Cut Copy Paste Delete Draw Line Draw Polygon Draw Circle Draw Arc Draw Freehand | 距離計測 面積計測 緯度経度計測 所要時間計測 切り取り コピー 貼り付け 削除 線の作図 多角形の作図 円の作図 円の作図 円心円の作図 円弧の作図 フリーハンドの作図 文字の作図 画像の挿入 |
| | Clipboard Function | etc. Measure Distance Measure Area Measure Lon and Lat etc. Cut Copy Paste Delete Draw Line Draw Polygon Draw Circle Draw Arc Draw Freehand Draw Text | 距離計測 |
| | Clipboard Function | etc. Measure Distance Measure Area Measure Lon and Lat etc. Cut Copy Paste Delete Draw Line Draw Polygon Draw Circle Draw Concentric Circle Draw Arc Draw Freehand Draw Text Insert of Image | 距離計測 面積計測 緯度経度計測 所要時間計測 切り取り コピー 貼り付け 削除 線の作図 多角形の作図 円の作図 円の作図 円心円の作図 円弧の作図 フリーハンドの作図 文字の作図 画像の挿入 |
| | Clipboard Function | etc. Measure Distance Measure Area Measure Lon and Lat etc. Cut Copy Paste Delete Draw Line Draw Polygon Draw Circle Draw Goncentric Circle Draw Arc Draw Freehand Draw Text Insert of Image Draw Buffered Geometry | 距離計測 |
| | Clipboard Function | etc. Measure Distance Measure Area Measure Lon and Lat etc. Cut Copy Paste Delete Draw Line Draw Polygon Draw Circle Draw Concentric Circle Draw Arc Draw Freehand Draw Text Insert of Image Draw Buffered Geometry Edit of Geometry's vertex | 距離計測 |
| | Clipboard Function | etc. Measure Distance Measure Area Measure Lon and Lat etc. Cut Copy Paste Delete Draw Line Draw Polygon Draw Circle Draw Concentric Circle Draw Arc Draw Freehand Draw Text Insert of Image Draw Buffered Geometry Edit of Geometry's vertex Edit Text | 距離計測 |
| | Clipboard Function | etc. Measure Distance Measure Area Measure Lon and Lat etc. Cut Copy Paste Delete Draw Line Draw Polygon Draw Circle Draw Concentric Circle Draw Arc Draw Freehand Draw Text Insert of Image Draw Buffered Geometry Edit of Geometry's vertex Edit Text Merge Geometries | 距離計測 |
| | Clipboard Function | etc. Measure Distance Measure Area Measure Lon and Lat etc. Cut Copy Paste Delete Draw Line Draw Polygon Draw Circle Draw Concentric Circle Draw Arc Draw Freehand Draw Text Insert of Image Draw Buffered Geometry Edit of Geometry's vertex Edit Text Merge Geometry Type | 距離計測 |
| | Clipboard Function | etc. Measure Distance Measure Area Measure Lon and Lat etc. Cut Copy Paste Delete Draw Line Draw Polygon Draw Circle Draw Concentric Circle Draw Arc Draw Freehand Draw Text Insert of Image Draw Buffered Geometry Edit of Geometry's vertex Edit Text Merge Geometry Type Grouping Geometries | 距離計測 |
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| | Clipboard Function Drawing and Editing Showing and Editing | etc. Measure Distance Measure Area Measure Lon and Lat etc. Cut Copy Paste Delete Draw Line Draw Polygon Draw Circle Draw Goncentric Circle Draw Arc Draw Freehand Draw Text Insert of Image Draw Buffered Geometry Edit of Geometry's vertex Edit Text Merge Geometries Convert Geometry Type Grouping Geometries Change Style etc. | 距離計測 |
| | Clipboard Function Drawing and Editing Showing and Editing | etc. Measure Distance Measure Area Measure Lon and Lat etc. Cut Copy Paste Delete Draw Line Draw Polygon Draw Circle Draw Goncentric Circle Draw Arc Draw Freehand Draw Text Insert of Image Draw Buffered Geometry Edit of Geometry's vertex Edit Text Merge Geometries Convert Geometry Type Grouping Geometries Change Style etc. Show Attribute Detail Edit Attribute Edit Attribute | 距離計測 商積計測 緯度経度計測 所要時間計測 切り取り コピー 貼り付け 削除 線の作図 多角形の作図 円の作図 同心円の作図 円弧の作図 フリーハンドの作図 フリーハンドの作図 文字の作図 画像の挿入 バッファ図形作図 図形頂点編集 テキストの編集 図形の変更 図形のグループ化 スタイル変更 属性表示 |
| | Clipboard Function Drawing and Editing Showing and Editing | etc. Measure Distance Measure Area Measure Lon and Lat etc. Cut Copy Paste Delete Draw Line Draw Polygon Draw Circle Draw Goncentric Circle Draw Arc Draw Freehand Draw Text Insert of Image Draw Buffered Geometry Edit of Geometry's vertex Edit Text Merge Geometries Convert Geometry Type Grouping Geometries Change Style etc. Show Attribute Detail Edit Attribute Specify Data Type of Attribute | 正離計測 |
| | Clipboard Function Drawing and Editing Showing and Editing | etc. Measure Distance Measure Area Measure Lon and Lat etc. Cut Copy Paste Delete Draw Line Draw Polygon Draw Circle Draw Goncentric Circle Draw Arc Draw Freehand Draw Text Insert of Image Draw Buffered Geometry Edit of Geometry's vertex Edit Text Merge Geometries Convert Geometry Type Grouping Geometries Change Style etc. Show Attribute Detail Edit Attribute Specify Data Type of Attribute etc. | 正離計測 |
| | Clipboard Function Drawing and Editing Showing and Editing of Attributes | etc. Measure Distance Measure Area Measure Lon and Lat etc. Cut Copy Paste Delete Draw Line Draw Polygon Draw Circle Draw Goncentric Circle Draw Arc Draw Freehand Draw Text Insert of Image Draw Buffered Geometry Edit of Geometry's vertex Edit Text Merge Geometries Convert Geometry Type Grouping Geometries Change Style etc. Show Attribute Detail Edit Attribute Specify Data Type of Attribute etc. | 正離計測 |
| | Clipboard Function Drawing and Editing Showing and Editing of Attributes | etc. Measure Distance Measure Area Measure Lon and Lat etc. Cut Copy Paste Delete Draw Line Draw Polygon Draw Circle Draw Goncentric Circle Draw Arc Draw Freehand Draw Text Insert of Image Draw Buffered Geometry Edit of Geometry's vertex Edit Text Merge Geometries Convert Geometry Type Grouping Geometries Change Style etc. Show Attribute Detail Edit Attribute Specify Data Type of Attribute etc. Show List of Attributes III Labla Sort List | 距離計測 商積計測 緯度経度計測 切り取り コピー 貼りけけ 削除 線の作図 多角形の作図 円の作図 同心円の作図 円弧の作図 可数のが図 文字の挿入 バッアの作図 画像の挿入 バッ形頂点編集 テキの演更 図形の変ループル変更 図形のグル変更 図形のグル変更 図形のグル変更 図形のグル変更 国性項目のデータ型 一覧表示 並び替え |
| | Clipboard Function Drawing and Editing Showing and Editing of Attributes | etc. Measure Distance Measure Area Measure Lon and Lat etc. Cut Copy Paste Delete Draw Line Draw Polygon Draw Circle Draw Goncentric Circle Draw Arc Draw Freehand Draw Text Insert of Image Draw Buffered Geometry Edit of Geometry's vertex Edit Text Merge Geometries Convert Geometry Type Grouping Geometries Change Style etc. Show Attribute Detail Edit Attribute Specify Data Type of Attribute etc. | 正離計測 |

| I | | etc. | |
|------------|----------------------------|--|-------------|
| | Filtering Search Result | Filter out by Specifying Conditions | 絞込み検索 |
| | | etc. | |
| | Analysis | Create Graph | グラフ主題図 |
| | | Create Theme of Item's Value | 個別値主題図 |
| | | Create Theme of Value's Range | レンジ主題図 |
| | | Create Label of Attribute | ラベル主題図 |
| | | Create Voronoi Polygon | ボロノイ図作成 |
| | | Find Route | ルート検索 |
| | | Apply Style from Attribute | 属性スタイル設定主題図 |
| | | etc. | |
| Management | Department Manageme | nt Registration, Edit or Remove | 登録・編集・削除 |
| | User Management | Registration, Edit or Remove | 登録・編集・削除 |
| | | etc. | |
| | Copposting Hoor | Show Connecting User | 接続ユーザ表示 |
| | Log Display | Search Log | ログ検索表示 |

| No. | 品名 | メーカー | モデル | 諸元 | 数量 | 納入年月 | 備考 |
|-----|-----------------------------|-----------|--|---|----|---------|------------|
| 1 | Laptop PC | DELL | Latitude 3570 | Dell Latitude 3550 : Standard Base (CTO) Intel Core i5-5200U (Dual Core, 2.2GHz, 3M cache, 15W) 15.6" FHD (1920x1080) Wide View Anti-Glare LED-backlit No Fingerprint Reader 8GB (2x4GB) 1600MHz DDR3L Memory 500GB 2.5inch Serial ATA (7,200 Rpm) Hard Drive Power Cord for 3-pin Adapter (US) 43 WHr, 3-Cell Battery (integrated) Dell 15.6" Essential Backpack Intel HD Graphics 65 Watt AC Adaptor Intel Dual Band Wireless-N 7265AGN 802.11a/b/g/n 2x2 + Bluetooth 4.0 LE Half Mini Card Intel Dual Band Wireless 7265 Driver Internal Single Pointing Keyboard (English) Windows 7 Professional, English, 64bit (includes Windows 8.1 Pro 64bit License and Media) Windows 8.1 DVD OS Recovery (English) 3Yr ProSupport:Next Businerss Day Onsite Service 1 Yr Accidental Damage Service – Indo, Ph & Bru | 13 | 2016年7月 | |
| 2 | Scanner | EPSON | WORKFORCE DS 50000 | Scanner Type: A3, Flatbed color image scanner; Optical Sensor: 600 dpi color CCD 4 line sensor (RGB & Black); Optical Resolution: 600 dpi x 600 dpi; Color Bit Depth: 16-bits per pixel internal / 8-bits external color; Maximum Scan Area: 11.7" x 17"; Light Source: ReadyScan® LED | 13 | 2016年7月 | |
| _ | Inkjet Printer | HP | Officejet 7110 Wide Format (A3) ePrinter (CR768A) | ISO Speed: Up to 15 ppm black, Black: Up to 600 x 1200 dpi; Color: Up to 4800 x 1200 optimized dpi color : HP ePrint, Apple AirPrint™: 1 USB 2.0, 1 Ethernet, 1 Wireless 802.11b/g/n; Monthly Duty Cycle (letter)— Up to 12,000 pages; INKS: HP #932 Black and HP #933 CMY Ink Cartridge 1 YR warranty | 5 | 2016年5月 | |
| 4 | Laser Printer | HP | LaserJet Pro M201n, CF455A | Print speed: Normal, A4: Up to 25 ppm; Normal, letter: Up to 26 ppm; Manual Duplex (A4): Up to 15 ipm; Duplex (letter): Up to 16 ipm; First page out: A4/letter, ready: As fast as 8 sec; Print resolution: Black (best): Up to 600 x 600 x 2 dpi (1200 dpi effective output); Black (normal): Up to 600 x 600 dpi; Print resolution technologies: HP FastRes 1200, 600 dpi; HP ePrint, Apple AirPrint, Standard connectivity: 1 Hi-Speed USB 2.0; 1 Ethernet 10/100; Memory: 128 MB; Processor speed: 750 MHz; Duty cycle (monthly): Up to 8,000 pages; Paper handling: Input- 250-sheet input tray, 10-sheet priority tray | 5 | 2016年5月 | |
| 5 | Desktop PC | HP | HP Elite DESK 800 G2 SFF | Intel Core i7-6700 3.4G/ HD Graphics/ 4GB DDR4-2133 DIMM/ 1TB 7200 RPM/ Win 10 downgraded 7 Pro 64bit/ SuperMulti DVDRW/ HP USB KB and Mouse/ 3-3-3 Warranty (Metro Manila) | 3 | 2016年5月 | |
| 6 | Monitor | HP | HP ELITEDISPLAY E231 23- INCH LED BACKLIT | 3-3-3 warranty (Metro Manila) | 3 | 2016年5月 | |
| 7 | UPS | APC | BX625CI-MS Back-UPS 625VA, 230V, AVR, Floor, Universal Sockets | Fro Desktop PCs and LGU's printers. | 3 | 2016年5月 | 2枚1組 |
| 8 | UPS | APC | Smart-UPS 2200VA LCD RM 2U 230V | Fro Server. | 2 | 2016年5月 | |
| 9 | Server | Dell | PowerEdge T430 Server | PowerEdge T430 Motherboard Intel Xeon E5-2623 v3 3.0GHz,10M Cache,8.00GT/s QPI,Turbo,HT,4C/8T (105W) Max Mem 1866MHz SATA HDD purchased with Dell Basic HW support carries 1 yr limited HW wrty. Chassis with up to 8, 3.5" Hot Plug Hard Drives, Tower Configuration Security Bezel, iDRAC Port Card 2 x 8GB RDIMM, 2133MT/s, Dual Rank, x8 Data Width Upgrade to Two Intel Xeon E5-2623 v3 3.0GHz,10M Cache,8.00GT/s QPI,Turbo,HT,4C/8T (105W) iDRAC8 Enterprise, integrated Dell Remote Access Controller, Enterprise VFlash, 8GB SD Card for iDRAC Enterprise, V2 3 x 4TB 72K RPM NLSAS 6Gbps 3.5in Hot-plug Hard Drive,13G PERC H730 Controller, 1GB NV Cache 2 x Heatsink for PowerEdge T430 DVD+/-RW, SATA, Internal Dual, Hot-plug, Redundant Power Supply (1+1), 750W 2 x Powercord, 125 Volt,15Amp,10 Foot, C13 to NEMA 5-15 PowerEdge Server FIPS TPM Dell E Series E171SS 17" Monitor with LED Back Light 2 x Long Jumper Cord, C13-C14,4m,12a 1xPower Cord, 6 Feet, 110/220V US On-Board LOM 1GBE (Dual Port for Towers, Quad Port for Racks and Blades) Dell USB Optical Mouse – MS111 Dell KB212-B QuietKey USB Keyboard Black 3Yr ProSupport: Next Business Day Service (Parts+Labor) No Rack Rails, No Cable Management Arm, No Casters RAID 5 for H330/H730P (3-16 HDDs or SSDs) Win Svr 2012 Std OLP NL 5 x Windows Server 2012 User CALs | 2 | 2016年7月 | |
| 10 | FireWall | DELL | SONICWALLTZ300 TOTALSECURE 1YR | TZ300 Appliance + 1 year of Comprehensive Gateway Security Suite. [2x800MHz cores, 5x1GbE interfaces, 1GB RAM, 64MB Flash] CGSS Bundle (Threat Prevention, Content Filtering, 24x7 Support) | 2 | 2016年5月 | |
| 11 | FireWall Software | DELL | SonicWALL Analyzer Reporting Software For SOHO | for TZ1xx, TZ2xx, TZ3xx, TZ4xx Series | 2 | 2016年5月 | |
| 12 | Office | Microsoft | Office Std 2016 SINGL OLP NL | | 16 | 2016年7月 | |
| | | InFocus | INFIN112x | DLP 0.55" SVGA, 800x600 (450 type), DDP4421+DDRII | 1 | 2016年5月 | |
| | WI-FI WIRELESS ROUTER | LINKSYS | EA6350-AP LINKSYS ADVANCED MULTIMEDIA | AC1200 SMART WIFI ROUTER, 1 year warranty | 5 | 2016年5月 | |
| 15 | Ethernet Cable | | Cat5 UTP Cable | | 1 | 2016年7月 | 州用サーバ機とセット |





PhilNITS: The Philippine National IT Standards Foundation Inc.

別添7

| | 所 属先 | 格付 | 力 分類 | 担当業務 | 渡り | nt 1 数 3月 | 2 4月 | 3 4 5月 6月 | 2016年 5 7月 | 6 8月 | 7 8 9月 10月 | 9 11月 | 10 12月 | 11 1 1月 2 ₂ | | 14 4月 | 15 5月 | 2017年 16 17 6月 7月 | 18 8月 | 19 9月 | 1 | | 22 12月 | 合計 計画日 実績日 計画人 数合計 数合計 月合計 |
|----------|-------------------------|---------------------------------|---------------------------------------|--|---|--|--|---|--|--|---|---|--|--|--|--------------------------------|---|---|---|-------------------------|-------------|---|-----------|--|
| | CTII | 2 | А | チーフアドバイザー | 計画 6 | 0.17 | 3 1 | 0. 20 | | <u> </u> | 0.40 6 | 4 | | | 0. 17 | | 0. 20 | 0. 20 | 6 | | | | | 40.00 1.33 |
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| | | | | ティー防災 | 実績 8 | | 3 9 (29-4/9) | (5/23-5/28) | (7/19-7/28) | | (10/12-20) | 7 | | | 6-28) (3/1-2) | | 19 | (6/26-30) (7/1, 10-15) | (8/21-26) | 7 | | | | 70.00 |
| | IFX | 3 | Z | 業務主任者 | 計画 1(| 0.40 | | 0.20 | 0.40 | | 0.40 | 0. 23 | | | 0.17 | | 0.40 | 0.20 | 0.17 | 0. 23 | 6 | | | 84. 00 2. 80 |
| | | | | | 実績 12 | (3/2 | 29-4/9) | 10 2 (5/22-6/2) | (7/19-7/29) | • | 5 (9/5-9) (10/16-21) | (11/6-10) | | (1/16-21) (2/2 | 9 3 (20-28) (3/1-3, 27-31 |) (4/1) | | (7/10-15 | 5) (8/21-26) | | (10/2- | -7) | | 93. 00 |
| | IFX | 4 | 7 | 副業務主任者 | 計画 6 | 0.17 | | 0.17 | | | 0. 40 | | | | | | 0. 20 | 0. 20 | 0.17 | | | | | 39.00 1.30 |
| | | | | | 実績 5 | (3/2 | 3 2 29-4/2) | (6/6-6/10) | | | | | | | | | | (7/31, 8/1- | 3 6 3) (8/21-26) | | (10/2- | -7) | | 26.00 |
| | IFX | 2 | 7 | 社内アドバイザー | 計画 3 | 0. 17 | 5 | | | | | 7 0. 23 | | | | | | | 0. 17 | | | | | 17. 00 0. 57 |
| | 11 / | | | 17537 1.2 (1 9 | 実績 2 | (3/: | 3 2 (29-4/2) | | | | | | | | | | | | (8/22-24) | | | | | 8.00 |
| ŗ | IFX | 1 | 7 | 主任システムエンジニア | 計画 9 | | | 19 //////////////////////////////////// | 7 | 0. 17 | 12 0. 40 | 7 0. 23 | | | 5 0.17 | | 12 0. 40 | | 5 0. 17 | 7 0, 23 | | | | 79. 00 2. 63 |
| 見 也 | 11. | 4 | | 主任システムエンシード | 実績 4 | | | 12 (6/6-6/17) | (7/25-7/29) | | 5 (9/5-9) | | | (2/: | 6 (0-25) | | | | | | | | | 29. 00 |
| 業 際 | IEV | 4 | 7 | 2.7.7.1.7.22.7 | 計画 3 | 0, 40 | 12 | 0. 17 | | | | | | | | | | | 0. 17 | | | | | 22. 00 0. 73 |
| מו | IFX | 4 | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | システムエンジニア | 実績 3 | (3/ | 3 9 | 2 8 (5/30-6/8) | | | | | | | | | | | | | 5 (10/2- | -6) | 1 | 27.00 |
| | | | _ | | 計画 2 | | 23 4/3/ | 12 | | | 0. 40 | | | | | | | | | | (10/2 | | | 24. 00 0. 80 |
| | IFX | 3 | Z | システムエンジニア | 実績 1 | | | 0.40 | | | <u> </u> | | | } | | | | | | | | | | 4.00 |
| | | | | | 計画 1 | | | (5/30-6/2) | | | | | | | | | | | 5 | | | | | 5. 00 0. 17 |
| | IFX | 5 | Z | システムエンジニア | 実績 1 | | | | | | | | | | | | - | | 0. 17 5 (8/21-25) | | - | | 1 | 5.00 |
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| | IFX | 4 | Z | 支援・調整 | 実績 1 | | | | | | | | | | | | | | 0. 17 | - | | | | 4.00 |
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| | | | | | 計画 3 | | | 7 | | | 12 | | | | | | | | (8/22-25) | | | | | 24.00 0.80 |
| | IFX | 5 | Z | トレーナー | | | | 0.23 | | | 0. 40 | | | | | | - | | 0. 17 | - | | | | <i> </i> |
| | | | | | 実績 1 | | | (5/22-5/28) | | | | | | <u>i</u> | | | | 計画(日) | 実績(日) | 計画(月 |) 実績() | 月) 全体現地 | | 7. 00 |
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| 玉 | CTII | 2 | Α | チーフアドバイザー | 計画 | <u>1</u> | | <u>4</u> | 4 | <u>4</u> | | 1 1 | 1.5 | 1 | . 5 2 22) (3/16, 17 | 1. 5 | | (6/21, 22) (8/ | 7. 3 16-19, 28-31) | | | | | 30.00 1.50 |
| 为 作 | | | | | 実績 | (3/25) | $\frac{1}{(4/11)}$ | (6/20-23) | (7/1-4) | (8/4-7) | (10/3) | 1 | | (1/8, 9) (2/14 | 20) (2/16 17 |) (4/25-26 | (F (0F 0C) | | | | | | | 34. 33 |
| - | | | | | 計画 | 888888888 | | | | | | | 42 | (1/8, 9) (2/14 | 22) (3/16, 17 |) (4/20/20 | (5/25, 26) | (6/21, 22) (8/ | 16-19, 28-31) | | | | | 42.00 |
| 業 | CTII | 4 | A | 地域防災計画/コミュニティー防災 | 計画 | | | 5 3 | 5_ | | <u>5</u> | | 42 2.1 | 6 | 5 | | (5/25, 26) | 5 | | | 0.5 | | | 42.00 2.10 |
| 業 | CTII | 4 | A | 地域防災計画/コミュニ ティー防災 | 実績 | (3/24-25) | | 5 3 (5/12, 17-20) (6/1-3) | 5 (7/6-8, 13, 14) | | 5 (10/3-6, 11 |) | | 6 | | | (5/25, 26) | (6/21, 22) (8/ 5 (6/12-16) | 2. 7 (8/17, 28, 29) | | 0.5 | | | 39. 17 |
| 業 | CTII | 3 | | 地域防災計画/コミュニ ティー防災 業務主任者 | 実績計画 | (3/24-25) | 8 | 5 3 (5/12, 17-20) (6/1-3) | 5 | 12 | 10 8 |) | 2. 1 3 | 6 (1/17-20, 23, 26) (2/9, 10 | 5 13–15) | 5 | 9 | 5 (6/12-16) | 2. 7 (8/17, 28, 29) | | 0.5 | | | 39. 17 |
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| * | IFX | | Z | 業務主任者 | 実績 | (3/24-25) 5 (3/22-28 | 8 (4/11-28) | 5 3 (5/12, 17-20) (6/1-3) 8 8 (5/2-20) (6/6-30) | 5 (7/1–18) | (8/1-31) | 10 8 (9/1-2, 12-30) (10/3-15, 24-31 | 13 | 3 (12/1-28) | 6 (1/17-20, 23, 26) (2/9, 10 6 8 (1/5-31) (2/1-1 | 5 13-15) 5 7) (3/6-24) | 5 (4/3-28) | 9 (5/8-31) | 5 (6/12-16) | 2. 7 (8/17, 28, 29) | | | | | 39. 17 0. 00 0. 00 |
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現地LGU調査結果のまとめ

| 調査対象 | | 調査内容 | 調査結果 |
|----------|--------------|--|---|
| BINMALEY | Organization | How many staff? | 全庁職員Total 300 & 19officers |
| DRRM | | • | 至 |
| | | Members | |
| | | Locations | 本庁舎横に建設中 8月完成予定だが… |
| | | office size | 建設中のため後日確認 |
| | | Role and responsivility | 災害対策と被害情報の確認・報告 |
| | | Understanding of the project. | 〇 これまで説明によりコンセプトと出来ること |
| | F | Budget | |
| | Equipment | PC: numbers | 4 |
| | | A/C | 資料1)List of Equipment |
| | | Network | - 資料2)Investment Plan |
| | | Power Pole & Tower | - |
| | | Pole & Tower | - |
| | Skill | Others What kind of skill do the staff have? IT | |
| | SKIII | skill? | PC MS Office Operation |
| | | Any troble before? (Physically and | |
| | | Technically) | - |
| | Мар | impression of OSM | |
| | ' | What maps do you use mainly for DRRM | 1 |
| | | activity? | |
| | | Special map symbols? | |
| | | Input datacandidate | |
| | DATA | Data input skill by DRRM Staff. | 1 |
| | | Evacuation sites, routes, hazard locations | いままで地図によるオペレーションはぼぼ無し |
| | | | 防災関連資材等のリストなどあり。 |
| | | What Data do you request mainly for DRRM activity? | |
| | | Points of Interest | 1 |
| | | Listed data? (Excel files?) | 1 |
| | | Data Sending to other LGU etc? Data | + |
| | | exchanges? | |
| Dugpan | Organization | | スマートセンターとして 15名 3supervisers 非常時45 |
| DRRM | | How many staff? | 名(max) |
| | | Members | specialists |
| | | Locations | CDRRMOオフィス 建物3F |
| | | office size | 1フロア全体 |
| | | Role and responsivility | 被災予測、対策立案、状況把握 |
| | | Understanding of the project. | 〇 これまで説明によりコンセプトと出来ること |
| | | Budget | _ |
| | Equipment | PC: numbers | センターに8台程度 サーバ無し |
| | | A/C | 0 |
| | | Network | インターネット用 |
| | | Power | 自家発電装置 |
| | | Pole & Tower | 簡易無線ポールあり |
| | OL:II | Others | CCTV 防犯カメラ 雨量計 |
| | Skill | What kind of skill do the staff have? IT skill? | GISオペレーター2名 その他 MS Office |
| | | Any troble before? (Physically and | |
| | | Technically) | <u> -</u> |
| | Мар | impression of OSM | きれい |
| | ' | What maps do you use mainly for DRRM | |
| | | activity? | NAMRIA , LIDER (UP) |
| | | Special map symbols? | _ |
| | | Input datacandidate | _ |
| | DATA | Data input skill by DRRM Staff. | |
| | | Evacuation sites, routes, hazard locations | 38 |
| | | | |
| | | What Data do you request mainly for | |
| | | DRRM activity? | 」 ランドラーク 京正 <i>建幅</i> ロフレ <i>t</i> ンド |
| | | Points of Interest |] ランドマーク、高所建物リストなど データのリストを資料で入手 |
| | | Listed data? (Excel files?) | 」, 一メリソトで具付じ八士 |
| | | Data Sending to other LGU etc? Data exchanges? | |
| | 1 | Levoliging co: | 1 |

| Lingavar | Organization | How many staff? | | | |
|---------------------------|--------------|--|---------------------------------|--|--|
| Lingayen | Organization | How many staff? Members | ┩DRRMO として 全14名(うちメインの4名が部署に常駐) | | |
| DRRM | | | かトコ・コ・1 「7キ <i>ィ</i> | | |
| | | Locations | 新オフィス 1F建て | | |
| | | office size | 2部屋と倉庫 | | |
| | | Role and responsivility | 災害対策と被害情報の確認・報告 | | |
| | | Understanding of the project. | 〇 これまで説明によりコンセプトと出来ること | | |
| | | Budget | 5% up to 10mil peso | | |
| | Equipment | PC: numbers | 2 PC internet | | |
| | | A/C | 窓枠はめこみ型 | | |
| | | Network | インターネットのみ | | |
| | | Power | 小型自家発電機 | | |
| | | Pole & Tower | あり | | |
| | | Others | _ | | |
| | Skill | What kind of skill do the staff have? IT | 常時1名、プロジェクト前に2名増員、1名のコンサルタン | | |
| | | skill? | ト採用予定 ・ | | |
| | | Any troble before? (Physically and Technically) | _ | | |
| | Мар | impression of OSM | 特になし | | |
| | | What maps do you use mainly for DRRM | | | |
| | | activity? | 1:20000 紙地図 | | |
| | | Special map symbols? | | | |
| | | Input datacandidate | 紙地図だけのオペレーション | | |
| | DATA | i i | | | |
| | | Data input skill by DRRM Staff. Evacuation sites, routes, hazard locations | MS Officeオペレーション | | |
| | | · · | | | |
| | | What Data do you request mainly for DRRM activity? | | | |
| | | Points of Interest | - | | |
| | | Listed data? (Excel files?) | ┩既設で紙資料を保存中。(避難関連を撮影・入手済み) | | |
| | | Data Sending to other LGU etc? Data | - | | |
| | | exchanges? | | | |
| パンガシンナン | Organization | How many staff? | | | |
| 州 DRRM | | Members | ┩Mr. Oroを長に13名 | | |
|) | | Locations | Lingayen 州庁舎周辺 ·新庁舎予定あり | | |
| | | office size | 2階建 | | |
| | | Role and responsivility | 防災設備整備、州内被害情報集約・政府への報告 | | |
| | | Understanding of the project. | | | |
| | | Budget | _ | | |
| | Equipment | PC: numbers | 10 | | |
| | Equipment | A/C | 0 | | |
| | | Network | インターネット | | |
| | | Power | 0 | | |
| | | Pole & Tower | 0 | | |
| | | Others | | | |
| | Skill | What kind of skill do the staff have? IT | | | |
| | OKIII | skill? | | | |
| | | Any troble before? (Physically and | MS Officeオペレーション | | |
| | | Technically) | | | |
| | Мар | impression of OSM | _ | | |
| | ' | What maps do you use mainly for DRRM | ₩ △ 土紅地図 UTM - ニノン・ | | |
| | | activity? | 州全土紙地図 UTMコーディネーション | | |
| | | Special map symbols? | _ | | |
| | | Input datacandidate | | | |
| n°v.4°v.v.+v. | DATA | Data input skill by DRRM Staff. | | | |
| | | Evacuation sites, routes, hazard locations | | | |
| | | | | | |
| | | What Data do you request mainly for | | | |
| | | DRRM activity? | ┨既設で紙資料を保存中。(避難関連を撮影・入手済み) | | |
| | | Points of Interest | - | | |
| | | Listed data? (Excel files?) | - | | |
| | | Data Sending to other LGU etc? Data | | | |
| | Organization | exchanges? How many staff? | | | |
| パンガシンナン 州 IT系 | Organization | | | | |
| 709 II -X-> | 1 | Members | provincial office B1F | | |
| | _ | | | | |
| Management | | Locations Pole and repositivity | ' | | |
| | | Role and responsivility Understanding of the project. | サポート、IT機器とネットワークメンテナンス | | |

| Service | | Budget | not much | | |
|---------|------------|---|--------------------|--|--|
| Office | Equipment | PC: numbers | 全体で240 | | |
| (MISO) | | PC: specs / OS | ~Windows7, Linux | | |
| | | PC: specs | Williaows7, Liliax | | |
| | | A/C | MISO内は〇 | | |
| | | Network | | | |
| | | Power | 0 | | |
| | | Pole & Tower | 庁舎屋上 | | |
| | | Reduntant(Back-up) Power Management? | MISO内のみ UPS 自家発電 | | |
| | Skill | What kind of skill do the staff have? | 簡単なDBカスタマイズ業務 | | |
| | | Maintenance & Service (how often?) | | | |
| | | Regular Update? | | | |
| | | Any troble before? (Physically and Technically) | | | |
| | Software | DB, Office, Mapping? | SQLServer | | |
| | | communication tools (telephone, FAX, mail, SNS) | Office Internet | | |
| | | LGU Home Page | 公式ホームページの担当 作成は外注 | | |
| | | Back Up | 0 | | |
| | Policy / | Security | | | |
| | Rules | Security: Robbery measure, Locks? | 各PC担当者で。ポリシーは無い | | |
| | | Anti-Virus | | | |
| | For System | Current Problems? | | | |
| | | Expectation | | | |

別添9

GeoCloud Project In Pangasinan

July 26, 2016



Informatix inc.

- Founded 1981
- Over 35 years in spatial information business in Japan.
- Developer of Spatial Information software
 & solutions. (GIS, CAD, CG)
- 3 offices, HQ Kawasaki, Osaka, Nagoya.
- ➤ 145 engineers out of 195 employees.
- Many Installed bases in the governmental organizations and LGUs in Japan.





Kawasaki HQ, Kanagawa

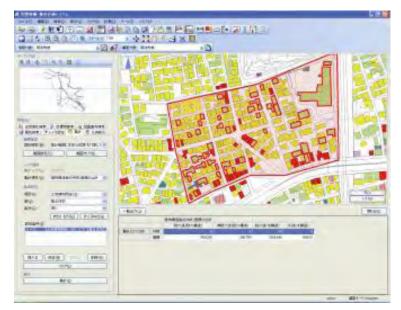
Informatix's Software Product

GEO CLOUD®

Our Reliable GIS Software

- **■**Sharable
- **■**Easy Operation
- ■Powerful (Professional)
- **■**Convenient





GeoCloud Project Summary

◆ Survey Project Title:

"The Verification Survey with the Private Sector for Disseminating Japanese Technologies for Integrated Geographic Information System (GIS) for Advancement of Regional Disaster Risk Reduction and Management."

◆ Summary:

◆ Informatix will apply GeoCloud Integrated GIS to the Province of Pangasinan and 3 LGUs, and confirm the effectiveness of the product for the disaster risk reduction and management (DRRM) in this region.

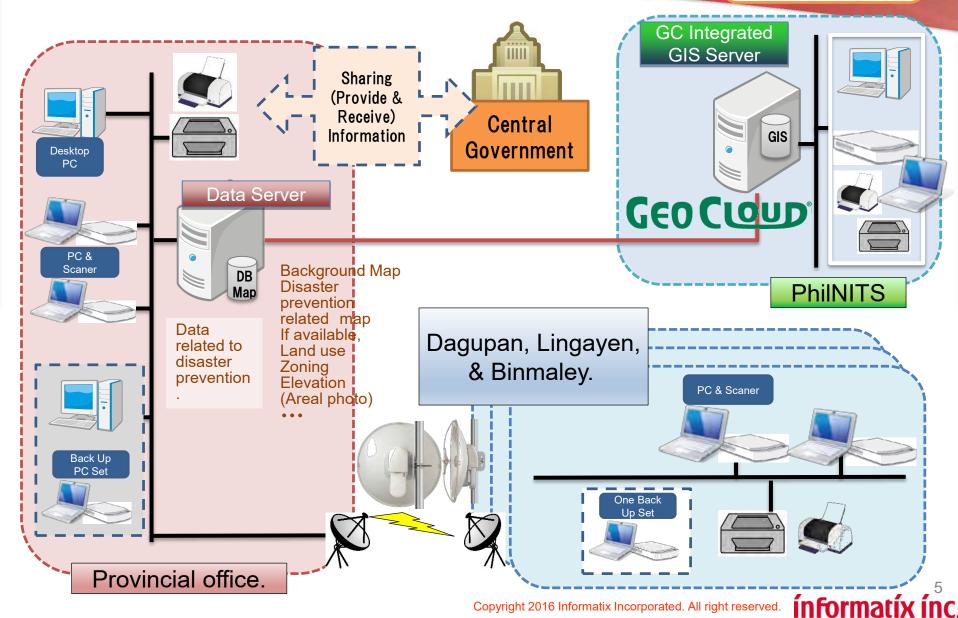
Survey Project Purpose:

- ◆ To verify the effectiveness of GeoCloud for DRRM activities in Pangasinan Provincial Government and 3 LGUs.
- ◆ To figure out the coordination between the Integrated GIS to be developed by Informatix Inc. and the current Philippine policies in meteorological and DRRM matters.



Project System Configuration





Schedule

①: GeoCloud Operation Introduction and operation of Integrated GIS for Province of Pangasinan.

2: Information Sharing

To study the method for sharing information about meteorological and disaster risk reduction between governmental organizations and the Province of Pangasinan.

| NA .11 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | |
|-------------------|-------------------|---------------|---------|--|-----|-----|----------|----------|--|--|
| Month | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | | |
| | Preparation Stage | | | | | | | | | |
| ①GeoCloud | Spe | cification Cl | heck | System Adjustment and Base Data Entry Test | | | | | | |
| | Data Ch | eck & Arraı | ngement | | | | Hardware | | | |
| 2nformation Share | | | | | • | | | ♦ | | |
| ③Workshop | | | | | | | | | | |
| 4 Dissemination | | | | | | | | Training | | |

| 14 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|--------------------|-----|--------------|-----|-----|------------|--------|-----------|-----|-----|--------------|
| Month | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug |
| (1) Coo Cloud | | | | For | mal Run 10 | Months | | | | |
| ①GeoCloud | | | | | | | | | | |
| ②Information Share | | | | • | | | • | | • | |
| ③WorkShop | | | | ♦WS | | | WS◆ | | | |
| 4Dissemination | | Train in Jar | | | | | Training◆ | | | Semin or★ |

3: Workshop

The system is evaluated through workshop regarding to DRRM

4: Dissemination

To disseminate information on Integrated GIS and GeoCloud all over the Philippines.

Members

| Member | | | Part | detail | | | | |
|--------------------|-------------------------------------|-------------------|-------------------------|--|--|--|--|--|
| | | proposal group | Summary | Software provide, Technical Support, | | | | |
| | | | operations support | System training, education for the operative enforcement to PhilNITS. | | | | |
| Survey | CTII | Consultant | consulting | giving advice, survey, and making the report. regional and Community disaster prevention plan, | | | | |
| Group | | | Work Shop | Conducting the drill plan and operation. | | | | |
| | PhilNITS | Local | Local operative support | Setting support, Help desk, training support | | | | |
| | | Partner | Software adjustment | Software development, LGU's manual. | | | | |
| | | | Training | Trainor, Setting, | | | | |
| | | | Survey support | Making and preparations for survey material | | | | |
| C/P | The Province of Pangasinan & 3 LGUs | | User | Enforcement of data set-up work, Running the software. | | | | |
| Central Government | | Invited group | Supporter | Attending meetings and giving advices and information. | | | | |

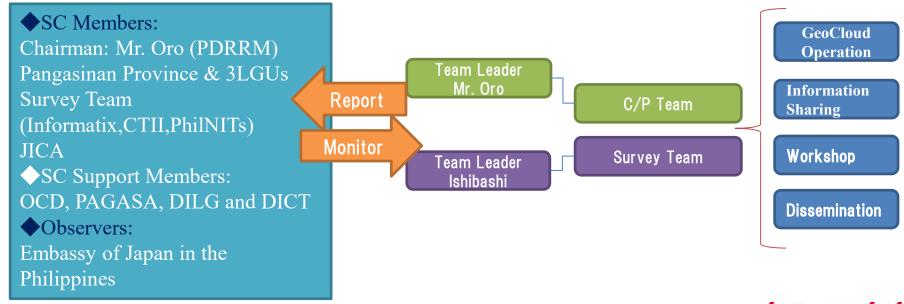
^{*} JICA supports the project totally.



Steerling Committee

Steering committee is organized in order to monitor properly with the stakeholders. Selected central government agencies are invited as members. SC will meet when necessary in order to fulfill the following functions:

- 1. To review, monitor and coordinate the overall progress of the Survey based on the implementation plan of the Survey.
- 2. To discuss major issues that would occur during the implementation of the Survey and exchange views and opinions so as to solve problems.
- 3. To discuss any other issue(s) pertinent to the smooth implementation of the Survey.





The JICA-Sponsored Project: "Integrated Geographic Information System(GIS) Products for the Improvement of the Regional Disaster Risk Reduction and Management"

Steering Committee Meeting, July 26, 2016

Maria Corazon M. Akol President



Our Goals

- *To design and implement a successful Geographic Information System (GIS) using the Geo Cloud Software that will help to mitigate the effects of both natural and man-made Disasters.
- *To help the LGUs take advantage of the many applications that can be done with the System obtained from this Project
- *To generate more revenue for the LGUs and at the same time improve the delivery of Public service through the use of Modern Technology



I. Launching of the Project on March 23, 2016 at the Urduja House with the Vce Gov. Calimlim and Mayor Belen of Dagupan in attendance. Also attending were representatives from Lingayen and Binmaley.

II. Status Report on the Project

The PhilNITS Foundation, Inc. is participating in this Project through the following Activities:

1. The Localization of Software
The English Version of the Geo Cloud Software will be developed and installed in the Server for the Province



Of Pangasinan, the City of Dagupan and the Municipalities of Lingayen and Binmaley. This activity will take 5 months to complete, starting on May 23, 2016 to Oct. 24, 2016. Training on this has been accomplished by Informatix, Ltd.

2. The Arrangement of Local Maps.

Data Entry of LGU's original data will be done and arrangement of these data will be in accordance with Survey Project Requirements. This activity will take 3 months to accomplish starting June 1 to Aug. 30.2016



Collection of Map Data through the following Visits to Pangasinan:

May 23 - 25, 2016

June 23, 2016

July 5, 2016

July 19-25, 2016 (using 360 degree Camera going Around the 3 LGUs and noting Landmarks.

- Visit to NAMRIA and getting access to Pangasinan Maps through Official Request by Governor



3. Setting Up of Hardware & Software.

The specified Hardware has been delivered to the PhilNITS Office and will be tested and loaded with the necessary Software. The Equipment is scheduled to be set up in the Pangasinan Province and in Dagupan, Lingayen and Binmaley in the month of September.

Survey for the Installation of the Virtual Private Network has been done last July 21, 2016 and testing will be done shortly. Installation to be done in August.



4. Training of the LGU Personnel who will be handling the GIS and Disaster Management, Risk Reduction and Prevention will be conducted in 3 parts. The First Part will be done on Oct. 3 –14, 2016.

The Second Part will be done in Japan in the month of November and will be discussed for preparations in this Steering Committee Meeting.

The 3rd Part will be conducted on June 14 - 18, 2017.



5. Support & Maintenance of Geo Cloud System

Maintenance and Support of the System will be conducted after the Installation of the System in the Provincial Capitol and the LGUs and after the Training of the Local Officials on the Geo Cloud System. This will be done in the last 10 3months of the Project: from Nov. 2, 2016 to Aug. 31, 2017. Support will consist of a Help Desk in the PhilNITS Office in Manila to support the operations of the Province and the 3 LGUs. This Help Desk will operate during Office Hours. (9:00 am to 5:00 pm.)

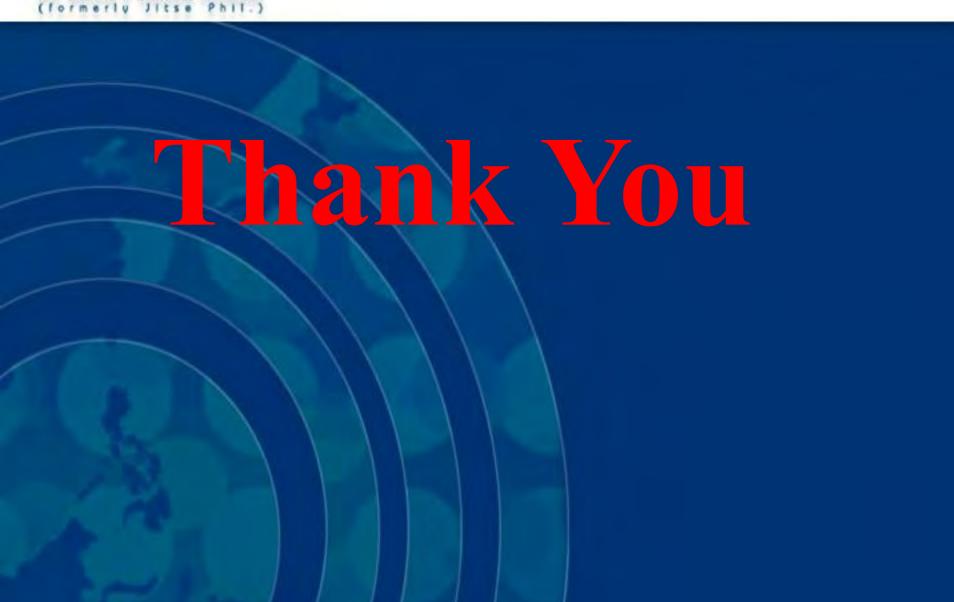


6. Local Language Local Language Documentation Project.

PhilNITS shall provide for the Instruction and Training Manuals in English. Final Documentation of the Project will be done on Sept. 1, 2016 to Oct. 31, 2016. Instructional Slides to be used for the Training are now being developed prior to making the Manual.

Further enhancements to the Manuals can be added during the Test Period and before the Hand-Over of the Project to the LGUs





Integrated GIS for DRRM Province of Pangasinan

Data Collection Status
As of July 26, 2016

List of Data Requirements

- Base Map and Boundary Map
- Infrastructure and Facilities
- Flood
- Disaster
- Others

Base and Boundary Map (done)

- Open street map (done)
- Elevation map (done) source NAMRIA
- Boundary Map up to Barangay (done) source PDRRMO, PhilGIS.org

Infrastructure and Facilities

- Road Network (done) source PDRRMO (incomplete names)
- River System (done) source PDRRMO (no names)
- Govt Buildings (done)

 source PDRRMO

 Hospitals, Schools, Municipal Halls
 - 2 of 123 points are correct
 - Information being revised by GeoTagged Photos

Evacuation Sites

- Evacuation sites (in progress)
 - Dagupan has identified buildings
 - Lingayen is still collecting information of "evacuation sites" used by barangays
 - Binmaley makes use of default govt buildings
 - Information to be completed and converted into digital points by middle of August.

Flood

- Water affected risk map (PDRRMO as jpg)
- Inundation Map (PDRRMO as jpg)
- Mudflow/Debris Map (PDRRMO as jpg)
- Tsunami Map (PDRRMO as jpg)
- Storm surge map (PDRRMO as jpg)
- Rain Fall (100, 50, 25, 10, 5, 2 year) as points and contours from NAMRIA and PhilGIS

Flood

- Water affected risk map (converted to GCD)
- Inundation Map (converted to GCD)
- Mudflow/Debris Map (converted to GCD)
- Tsunami Map (converted to GCD)
- Storm surge map (converted to GCD)
- Rain Fall (100, 50, 25, 10, 5, 2 year) as points and contours from NAMRIA and PhilGIS

Disaster

- Landslide/Erosion (PDRRMO as EIL, RIL)
- Fault line maps (PDRRMO as JPG)
- Earthquake affected area (PDRRMO as JPG)
- Liquefaction hazard (PDRRMO as jpg)

Disaster

- Landslide/Erosion (converted to GCD)
- Fault line maps (converted to GCD)
- Earthquake affected area (converted to GCD)
- Liquefaction hazard (converted to GCD)

Others

- Population by barangay (done)
 - Made my Philnits using NSO data
 - Population on land cover source PhilGIS
- Urban Planning Map (in Progress)
 - To be provided by LGU
- Address Data (done)
 - Limited cover of barangay as endpoint data

(others) Additional collected data

Supporting elevation data

- Depth Contour
- Land Contour and slope class
- Land Cover

Data fine-tuning

- Experience-based information of inundation on roads and other pathways
- Data fine-tuning will be done during the training (verification)
- Road elevation data collected by Informatix 360 degree camera.

GeoCloud Project

Application for DRRM July 2016



Baseline Survey Report

The following observations as baseline for disaster evacuation study condition have been gathered:

- Incomplete information on the accommodation capacity for evacuation centers. Dagupan and Lingayen have the data.
- Potential evacuee population is not studied. Dagupan has registered evacuee population. Lingayen has distribution of population.
- Vulnerability and risk analysis for facilities such as evacuation center and road is lacking for flood disaster. Dagupan has studied. Lingayen has sample.
- Evacuation route analysis is not studied considering flood map. Dagupan has studied partial horizontal evacuation.
- *Some are studied and known from experience but not fully considering flood hazard and it is necessary for mapping information of the system.

Baseline Survey Report

- Map information is mainly summarized by hard copy material such as papers. GIS is not utilized for summarization of map information although Dagupan has utilizied GIS.
- Latest information such as evacuation center is not shared smoothly.
- Maps are not fully utilized for residents such as evacuation drill.





Baseline Survey Report

There is insufficient information about the evacuation map for the workshop. It is suggested to start the workshop by completing the information using the system



Therefore, in the 1st workshop, data is created/summarized by using the System instead of making handwritten evacuation map by using hard material.

| Municipalities | Barangays | List of Evacuation Center | | |
|----------------|------------|------------------------------|--|--|
| BINMALEY | | | | |
| | Poblacion | Senior Citizens Center | | |
| | | Binmaley Gymnasium | | |
| | Buenlag | Buenlag Elementary School | | |
| | Camaley | Camaley Central School | | |
| | Papagueyan | Papagueyan Elementary School | | |
| | Balogo | Balogo Community Center | | |
| | | | | |
| LINGAYEN | Balococ | Balococ Elementary School | | |
| | | Balococ Barangay Hall | | |
| | | Balococ Chapel | | |
| | | | | |

No coordinates of evacuation center

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Workshop Design

Initial Plan

√ 1st training on Oct 2016

Workshop of DRRM using hard copy material

[Target Output]
*Bottom up of DRRM
*Identifying present
issues

✓ 2nd training on May 2017

After installation

of system

Workshop of DRRM using the system

[Target Output]
*Proceeding of DRRM
*Finding solution by system
*Finding requirement of system

Modified Plan (After installation of system)

√ 1st training on Feb 2017

Workshop of data summarization using the system

[Target Output]
*Bottom up of DRRM
*Improvement of present
issues related data

✓ 2nd training on May 2017

Workshop of DRRM using the system

[Target Output]

*Proceeding of DRRM

*Finding solution by system

*Finding requirement of system

Workshop Design - Necessary Data for DRRM-

The workshop starts by preparing the following data using the System.

1st
Workshop
Oct2016
=>
Feb 2017

| Data | Condition | | Lingayen | Dagupan | Binmaley |
|--|-------------------------------------|-------------|--------------------|-------------------------|--------------|
| <evacuation center=""></evacuation> | | | | | |
| -Location | existing | | | | |
| -Location (coordinates) | to be measured by GPS | | | | |
| -Floor area | to be made from related maps | | | | |
| -Elevation | to be measured by GPS | | | | |
| <barangay></barangay> | | | | | |
| -Boundary | existing | | | | |
| -Population | existing | | | | |
| -Distribution of Population | to be made from land use or related | l maps | | | |
| <facilities and<="" as="" p="" road="" such=""></facilities> | bridge> | | | | |
| -Location of road | to be measured by GPS | | Only simple | Only simple | Only simple |
| -Location of bridge | to be measured by GPS | Fi 11 | 41 | | |
| -Elevation of road | Ito he measured by Laps | | • • | | on capacity |
| -Elevation of bridge | To be measured by Lapk | | | | listribution |
| etc. | | | | cuce popu acuation n | |
| <hazard></hazard> | L_ | <u> </u> | <u> </u> | | 1ap. |
| -Inundation map (area and d | er existing | | | | |
| -River data | existing Copyright 2016 In | nformatix I | ncorporated. All r | ight reserved. | formatív |

Workshop Design - Necessary Data for DRRM-

1st workshop program (draft)



Draft Wokshop Program

| Date | Contents | | |
|------|----------|--|--|
| Day1 | 1 | Presentation about DRRM and workshop | |
| | 2 | Creating data by the system | |
| Day2 | 3 | Estimation of population using map | |
| | 4 | The accommodation capacity of evacuation center and distribution of potential evacuee population is analyzed for evacuation map. | |
| | 5 | Preparation of presentation | |
| | 6 | Presentation of results | |
| | 7 | Discussion | |

We will discuss based on this.

Workshop Design -Function of the System for Workshop-

The contents and the process of the 2nd workshop are shown below. In the workshop, evacuation map is discussed for verification of the system.

| Step | Contents |
|------|---|
| 1 | Review natural/town structure condition (basemap and inundation map) |
| 2 | Find dangerous place and specify number of dangerous places |
| 3 | Calculate the number of persons who have damage risk at evacuation center |
| 4 | Make vulnerability (flood dangerous place) map |
| 5 | Make evacuation route from some barangays |
| 6 | Make evacuation map |
| 7 | Conducting desktop simulation exercise |
| 8 | Presentation and discussion are held by LGUs and created map is checked. |
| 9 | Questionnaire |

Workshop Design - Scenario of Desktop Simulation Exercise-

| Event | National | PAGASA | OCD | Provincial Pangasinan | LGUs | Baran | |
|--------|--------------------|---------------------------------------|-----------------------------------|--|--|---|---|
| | | -Advisory through media, internet, TV | | -Alert to take action by email, letter, fax, facebook, etc. | -Take action | | 2 nd Workshop |
| Before | | | | Distose | -Disaster information is informed from upstream LGU(Not Duty) | | 2 nd Workshop May 2017 |
| | -Convene NDRRMC | Ask to conce | ene NDRRA | -Convene PDRRMC Reccomendation | -Convene LDRRMC | | |
| During | | | -Summarize and disclose to public | -Comsolidate information from LGUs -Disclose situatoin report to OCD on 8:00, 11:00, 17:00, 23:00 | Dislose to local media (In case of big disaster, d | isclose to nation | al media) |
| | | | | -Rescue -Information management -Response and relief | -Rescue or Safety confirmation using rescue car or phone | -Victims and damage information/re by phone, by ra | |
| After | | | | -Collect information from LGUs by letter, etc. | -Summarize victims and damage information | -Victims and damage information/re by phone, by ra | |

We will discuss based on this.

Draft Indicator

It is better to be measurable!

The system is evaluated through workshop regarding to DRRM with the proposed indicators. The proposed indicators are categorized for DRRM and System.

DRRM Indicators for project effects/success

1. Selection of evacuation place

| Category | Indicator | Means of Verification | Necessary Data | Applied GIS Function |
|----------------------|--|---|---|---|
| 1. Indicator of DRRM | 1-1 The accommodation capacity of evacuation center and distribution of potential evacuee population is analyzed for evacuation map. | notential evacuee | -Location and floor area of evacuation center -Barangay information (boundary, population and distribution, etc.) | -Estimation of population using map |
| | 1-2 The vulnerability (flood dangerous place) at facility such as evacuation center and road is evaluated in consideration with elevation (water depth). | who have damage risk at evacuation center | -Elevation of evacuation center, road, bridge, etcInundation map (area, depth(level)) | -Overlay of inundation area and facilities such as evacuation center and road -Counting of inundated evacuation center/road/bridge -Estimation of population in inundated evacuation center -Creating map |
| | 1-3 The evacuation route is discussed in consideration with inundation depth (hazard) at facility such as evacuation center and road for evacuation map. | -Evacuation map | -Location of road and bridge -Location of evacuation center -Inundation map (area, depth(level)) | -Selection of route -Creating map |
| | 2. Selection of evacu | uation route cop | pyright 2016 Informatix Incorporated. All rig | 2 nd Workshop - 10 pht reserved. In Formatix in C |

Draft Indicator

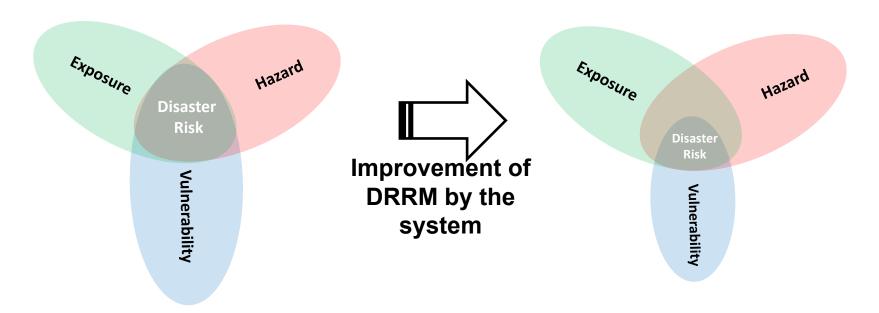
It is better to be measurable!

The system is evaluated through workshop regarding to DRRM with the proposed indicators. The proposed indicators are categorized for DRRM and System.

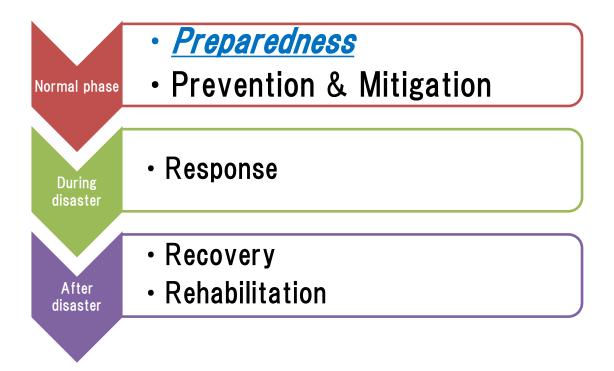
System Indicators for project effects/success

| Category | Indicator | Means of Verification |
|------------------------------|--|---|
| 2. Indicator of System | 2-1 At least 1 person in each province/3LGUs can utilize the system for improving the quantity and quality of data. | -The number of things to do by using the system |
| | 2-2 The 50 percent of participants of workshop feel the improvement of handling data. | -The user friendly of the system |
| | 2-3 The 50 percent of participants of workshop feel the improvement of viewability of map for becoming easier to explain the disaster risk to residents. | -The created maps in workshop |

- ✓ Impact on the Concerned Development Issues in the Philippines:
 - Establishment of the framework in which disaster risk reduction and management information is shared mutually and rapidly, complying related policies of central governmental organizations.
 - LGUs'communication and response ability for DRRM is strengthened.
 - Disaster record is managed and updated easily.



✓ GeoCloud system can be utilized during all stages of disaster risk reduction management (DRRM). In the Project, the system will be introduced to improve condition of scattering geospatial information and contribute to enhancement of C/P capability for the preparedness stage that is very important part to mitigate and prevent disaster damage by using geospatial data. Geospatial information with attribute data will be collected and entered to the GeoCloud system.

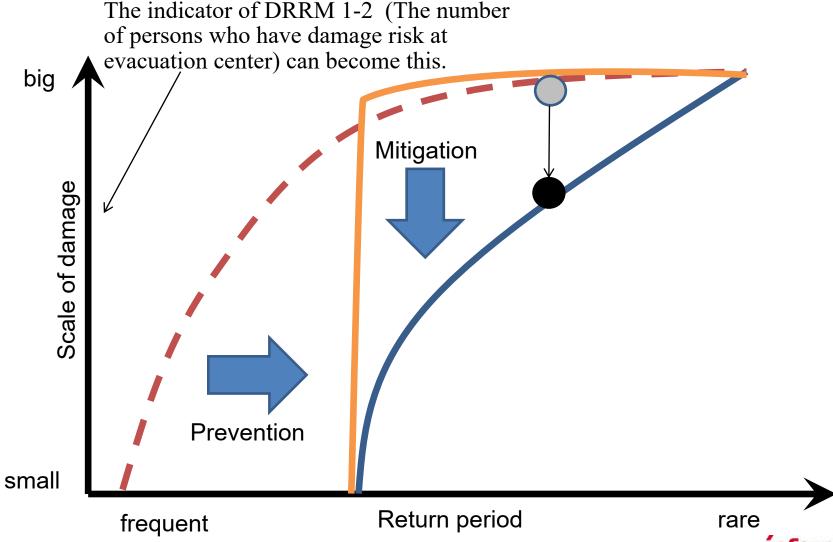


✓ Strategy to collect impact of workshop

The Impact will be collected by interview from the following viewpoints:

- Utilization to DRRM plans/activities
- □ Conditions of information sharing and cooperation with related organizations
- Benefit to the residents

✓ Using disaster risk graph, the impact to DRRM is evaluated and monitored.



Requested Data in Last Meeting

Workshop will be held in October February 2017. Please prepare information by August 30 for input of Data in the server. Province helps in the preparation.

The information (or map) is prepared by LGUs in advance for workshop.

- -Topo map
- -Location of river
- -Flood area
- -Location of road and bridge
- -Barangay information (boundary, population, etc.)
- -Stock materials for disaster management (location, contents and amount)
- -Location and floor area of evacuation center
- -Facilities such as hospital, school, water supply facility, etc.
- -Any other information for DRRM, for evacuation map

The following information is prepared by the Project Team in advance.

- -Base map
- -Flood area map
- -Disaster response scenario

アラートシステムへの活用 防災情報の流れの中での活用

情報共有のトレーニング

1回目でGIS機能、2回目でGIS機能と情報共有効果を実感させる。

Training in Japan (Nov. 2016)

The team conducts practical training in Japan to introduce activities of Japanese GeoCloud users and the understanding of the different applications of GeoCloud in Japan. People from the counterpart and national government agency are invited.

-PGP, 3LGUs, DILG & DIST

The training includes:

- a. Sessions at Informatix Inc.
 - Introduction of common usage of GeoCloud Integrated GIS in Japan
 - Study GeoCloud usages for DRRM and DRRM related applications in Japan
- b. Study tour to GeoCloud LGU users in Japan
 - 1. Integrated GIS users (prefecture / city) Kawasaki-City, Shizuoka-Pref.
 - 2. Related App. User (Fire Dept.) Yokohama-City

Some opportunities to have discussion with LGU official in Japan will also be arranged on the usage of GIS system for DRRM and other administrative solutions. The participants learn effective LGU operation of GeoCloud and additional solutions for their problems.

The aims of the training are:

- Develop the understanding of GeoCloud among C/P
- Demonstrate application of GeoCloud in various fields.
- Attract participants' interests in GeoCloud



Counterpart Training in Japan Schedule

Nov. 14 – 19, 2016

| Date | | Itinerary | Place |
|-----------------|----------|---|-------------------------|
| Nov. 14 Mon. | | Travel Manila ⇒ Tokyo area | |
| | AM PM | Briefing | Informatix Inc. |
| | | Session1: Explanation of GIS and Intergrated GIS | |
| Nov. 16 | | Session 2: Introduction of GIS Usages in Japan (Apps & Good Examples) | Informatix Inc. |
| Wed. | PM | LGU Visitation 1: Kawasaki City | Kawasaki City, Kanagawa |
| DAY3 Nov. 17 | AM | Travel Kawasaki ⇒ Shizuoka | |
| Thu. | PM | LGU Visitation 2: Shizuoka Prefecture Travel Shizuoka ⇒ Kawasaki | Shizuoka City, Shizuoka |
| | | LGU Visitation 3: Yokohama City Fire Dept. | Yokohama City, Kanagawa |
| Fri. | PM | Evaluation and Summary | Informatix Inc. |
| Nov. 19 | AM PM | Travel Tokyo ⇒ Manila | |

Kawasaki-city

Where is Kawasaki City?

Kawasaki City is located in the northeast of Kanagawa Prefecture. It adjoins Tokyo across the Tamagawa River to its north and Yokohama City to its south. It also faces Tama Hills on its west and Tokyo Bay on its east.



Population

1,461,043(as of Octorber 1,2014)

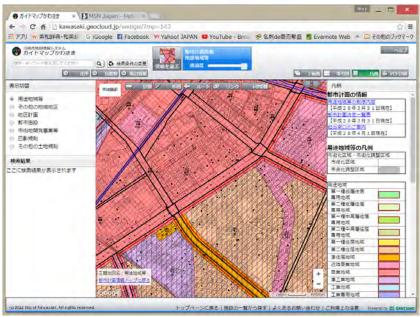
Number of households

687,843(as of Octorber 1,2014)

Total area

144.35km2

(as of January 1,2010)



Shizuoka-Prefecture

| | As of | Figure | Rank in Japan (out of 47 prefectures) |
|---|-------------|--|---|
| Population and area | | | |
| Area | 2013 | 7,780.60 sq. km. (3,111.92 sq. mi.) | 13 |
| -Forest area | 2013 | 64.1% (4,983.86 sq. km.) | 16 |
| Population | 2013 | 3,715,901 | 13 |
| Population density | 2013 | 478.5 per sq. km | 13 |
| Number of households | 2013 | 1,422,907 | 10 |
| Agriculture, forestry, and fisheries | ; | | |
| Gross agricultural product | 2012 | 211.4 billion yen | 16 |
| Gross forestry output | 2012 | 8.8 billion yen | 11 |
| Total sea catch | 2012 | 58.8 billion yen | 5 |
| Business and industry | | | |
| Number of business establishments | 2012 | 184,470 | 10 |
| Shipment value of industrial products | 2012 | 15.7 trillion yen | 4 |
| Gross prefectural product | Fiscal 2011 | 15.6 trillion yen | 10 |
| Per capita prefectural income | Fiscal 2011 | 3.2 billion yen | 2 |
| Education | | | |
| Number of high school students | 2013 | 99,974 | 10 |
| Number of college students | 2013 | 38,254 | 15 |
| Number of public libraries | 2011 | 96 | 9 |
| Health and welfare | | | |
| Number of social welfare facilities | 2013 | 80 | 16 |
| Number of hospitals | 2014 | 54 | 14 |
| Number of physicians per 100,000 people | 2012 | 186.5 | 41 |



MAPS

Acquired Maps

| Croun | Man | Datell | Time | Carrage | Sources | | | |
|----------------|-------------------------------|--|------------------|------------|----------|-----|----------|------------|
| Group | Мар | Detail | Туре | Coverage | NAMRIA | LGU | PhilNITS | Informatix |
| Base Map | Open Street Map | Base Background Map | Digital | National | | | | ✓ |
| base iviap | Elevation Map | JAXA Elevation Data | Mesh | Pangasinan | √ | | | |
| | Regional Map | Regional | Digital | National | ✓ | | | |
| | Provincial Map | Provincial | Digital | National | ✓ | | | |
| | District Map | District (1-6) Zone | Digital | Provincial | | ✓ | | |
| Boundary Map | Municipality Map | Municipalities | Digital | National | ✓ | | | |
| | Barangay Map | Barangay | Digital | National | √ | | | |
| Infrastructure | Road Network Map | Main Roads | Digital | National | ✓ | | | |
| iiiiastructure | River System Map | Main Channels | Digital | Provincial | ✓ | | | |
| Facilities | Landmarks | Primary, Secondary, Tertiary Schools, Government Hospitals, & Municipal Hall | Digital (Points) | 3LGU | | ✓ | | |
| | Evacuation Sites Map | Evacuation Sites | Digital (Points) | Binmaley | | ✓ | | |
| | Water Affected Risk Map | Municipal Level | Image | Provincial | ✓ | | | |
| Flood | Flood Prone/ Inundation Map | - | Digital & Image | Provincial | ✓ | | | 1 |
| Fiood | Mud flows and Debris Flow Map | - | Image | Provincial | ✓ | | | |
| | Tsunami Hazard Map | - | Digital & Image | Provincial | ✓ | | | |
| | Landslide & Erosion Map | - | Image | Provincial | ✓ | | | |
| Disaster | Fault Lines Map | Buffer Line | Image | Provincial | ✓ | | | |
| Disastel | Earthquake Affected Areas | Municipal Level | Image | Provincial | ✓ | | | |
| | Liquefaction Hazard | - | Digital & Image | Provincial | ✓ | | | |
| | Population Map | Population of every Municipality | Digital | Provincial | | | ✓ | |

Added Maps

| Group | Мар | Detail | Type | Coverage | Sources | | | |
|----------|----------------------------------|--------|-----------------|------------|----------|-----|----------|------------|
| Group | iviap | Detail | Туре | Coverage | NAMRIA | LGU | PhilNITS | Informatix |
| FLOOD | Storm Surge Map | | Digital & Image | Provincial | ✓ | | | |
| FLOOD | Rain Induced Landslide | - | Digital | Provincial | ✓ | | | |
| DISASTER | Earthquake Induced Landslide Map | - | Digital | Provincial | ✓ | | | |

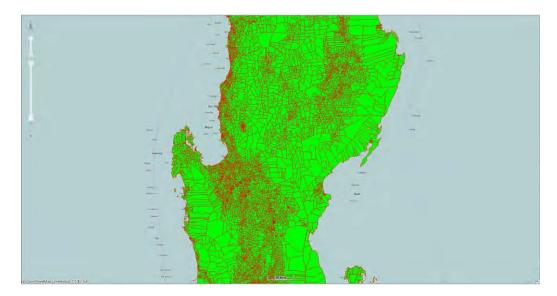
Unacquired Maps

| Group | Мар | Detail | Туре | Coverage |
|--------------------|-------------------------|---|------------------|--------------|
| | Evacuation Building Map | High Building Higher than 3 rd Floors(565) | Digital (Points) | Dagupan City |
| Urban Planning Map | | Land Use, Zoning Map | Digital & Image | 3LGU |
| Others | Address Data | For Address Search and Matching | Digital (Points) | 3LGU |

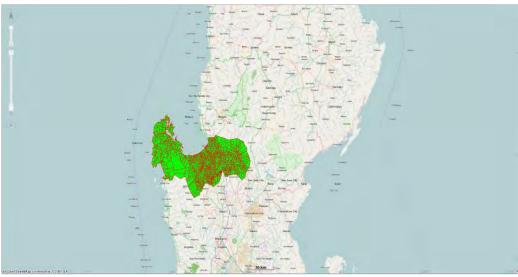
| Мар | Detail | Tuna | Coverage | Sources | | | | |
|----------------------------------|--|------------------|--------------|---------|----------|----------|-------------|--|
| iviap | Detail | Туре | Coverage | NAMRIA | LGU | PhilNITS | Information | |
| Open Street Map | Base Background Map | Digital | National | | | | ✓ | |
| Elevation Map | JAXA Elevation Data | Mesh | Pangasinan | ✓ | | | | |
| Regional Map | Regional | Digital | National | ✓ | | | | |
| Provincial Map | Provincial | Digital | National | ✓ | | | | |
| District Map | District (1-6) Zone | Digital | Provincial | | ✓ | | | |
| Municipality Map | Municipalities | Digital | National | ✓ | | | | |
| Barangay Map | Barangay | Digital | National | ✓ | | | | |
| Road Network Map | Main Roads | Digital | National | ✓ | | | | |
| River System Map | Main Channels | Digital | Provincial | ✓ | | | | |
| Landmarks | Primary, Secondary, Tertiary Schools, Government Hospitals, & Municipal Hall | Digital (Points) | 3LGU | | ✓ | | | |
| Evacuation Sites Map | Evacuation Sites | Digital (Points) | Binmaley | | ✓ | | | |
| Evacuation Building Map | High Building Higher than 3 rd Floors(565) | Digital (Points) | Dagupan City | | | | | |
| Water Affected Risk Map | Municipal Level | Image | Provincial | ✓ | | | | |
| Flood Prone/ Inundation Map | - | Digital & Image | Provincial | ✓ | | | | |
| Storm Surge Map | - | Digital & Image | Provincial | ✓ | | | | |
| Rain Induced Landslide | - | Digital | Provincial | ✓ | | | | |
| Mud flows and Debris Flow Map | - | Image | Provincial | ✓ | | | | |
| Tsunami Hazard Map | - | Digital & Image | Provincial | ✓ | | | | |
| Landslide & Erosion Map | - | Image | Provincial | ✓ | | | | |
| Earthquake Induced Landslide Map | - | Digital | Provincial | ✓ | | | | |
| Fault Lines Map | Buffer Line | Image | Provincial | ✓ | | | | |
| Earthquake Affected Areas | Municipal Level | Image | Provincial | ✓ | | | | |
| Liquefaction Hazard - | | Digital & Image | Provincial | ✓ | | | | |
| Urban Planning Map | Land Use, Zoning Map | Digital & Image | 3LGU | | | | | |
| Address Data | For Address Search and Matching | Digital (Points) | 3LGU | | | | | |
| Population Map | Population of every Municipality | Digital | Provincial | | | ✓ | | |

Barangay Map

STATUS



ACTION

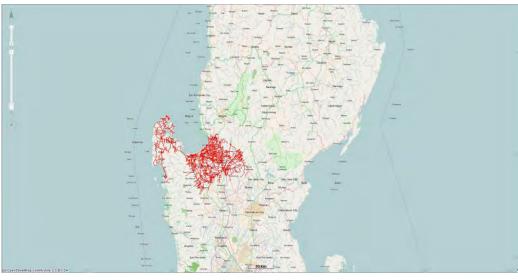


Road Network

STATUS



ACTION



STATUS ACTION





River System

STATUS ACTION





Landmarks

STATUS

P. Canada Control of the Control of

ACTION

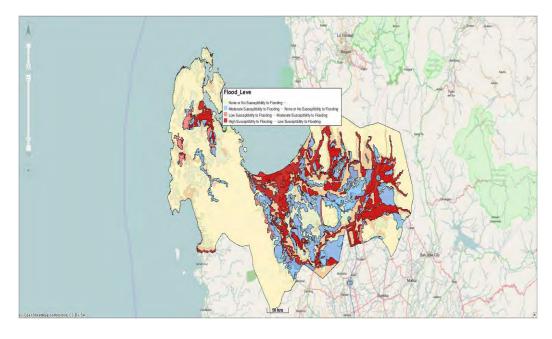


Flood Prone

STATUS

Service Servic

ACTION



Data Brought by LGU

| Municipality | Maps | GIS | Manual Paper |
|--------------|----------------------|-----|--------------|
| | Barangay Boundaries | | ✓ |
| | Barangay Roads | | ✓ |
| | Facilities | | ✓ |
| LINGAYEN | Barangay Population | | ✓ |
| | Evacuation Center | | ✓ |
| | Infrastructure | | ✓ |
| | Landmarks | | ✓ |
| | | | |
| | Barangay Boundaries | ✓ | |
| | Agriculture | ✓ | |
| | Facilities | ✓ | |
| DININAALEY | Landmarks | ✓ | |
| BINMALEY | River System | ✓ | |
| | Flood Prone | ✓ | |
| | Roads | ✓ | |
| | Landslide Map | ✓ | |
| | | | |
| | Barangay Boundaries | | ✓ |
| | Evacuation Sites Map | | ✓ |
| DAGUPAN | Household | | ✓ |
| DAGOPAN | Roads | | ✓ |
| | Facilities | | ✓ |
| | Landmarks | | ✓ |

Converted / Edited

| Group | Мар | Detail | Туре | Coverage | Modified by PhilNITS | Edited and sourced from LGU during the Training |
|---------------------------|----------------------------------|--|------------------|--------------|----------------------|--|
| Race Man | Open Street Map | Base Background Map | Digital | National | | |
| Base Map Elevation Map | | JAXA Elevation Data | Mesh | Pangasinan | | |
| | Regional Map | Regional | Digital | National | | |
| - | Provincial Map | Provincial | Digital | National | ✓ | |
| | District Map | District (1-6) Zone | Digital | Provincial | ✓ | |
| Boundary Map | Municipality Map | Municipalities | Digital | National | ✓ | ✓ |
| | Barangay Map | Barangay | Digital | National | ✓ | ✓ |
| Infrastructure | Road Network Map | Main Roads | Digital | National | ✓ | ✓ |
| Intrastructure | River System Map | Main Channels | Digital | Provincial | ✓ | ✓ |
| Facilities | Landmarks | Primary, Secondary, Tertiary Schools, Government Hospitals, & Municipal Hall | Digital (Points) | 3LGU | ✓ | ✓ |
| racilities | <u> </u> | Evacuation Sites | Digital (Points) | Binmaley | ✓ | ✓ |
| | Evacuation Building Map | High Building Higher than 3 rd Floors(565) | Digital (Points) | Dagupan City | | |
| | Water Affected Risk Map | Municipal Level | Image | Provincial | | |
| | Flood Prone/ Inundation Map | - | Digital & Image | Provincial | ✓ | |
| Flood | Storm Surge Map | - | Digital & Image | Provincial | ✓ | |
| Hood | Rain Induced Landslide | - | Digital | Provincial | ✓ | |
| | Mud flows and Debris Flow Map | - | Image | Provincial | | |
| | Tsunami Hazard Map | - | Digital & Image | Provincial | ✓ | |
| | Landslide & Erosion Map | - | Image | Provincial | | |
| | Earthquake Induced Landslide Map | - | Digital | Provincial | ✓ | |
| Disaster | Fault Lines Map | Buffer Line | Image | Provincial | | |
| | Earthquake Affected Areas | Municipal Level | Image | Provincial | | |
| | Liquefaction Hazard | - | Digital & Image | Provincial | ✓ | |
| | Urban Planning Map | Land Use, Zoning Map | Digital & Image | 3LGU | | |
| Others | Address Data | For Address Search and Matching | Digital (Points) | 3LGU | | |
| | Population Map | Population of every Municipality | Digital | Provincial | ✓ | |

Things to do...

| Group | Мар | To be Done in next 8 months by LGU |
|---------------------|----------------------------------|--|
| Base Map | Open Street Map | - |
| base iviap | Elevation Map | - |
| | Regional Map | - |
| | Provincial Map | - |
| | District Map | Adjusting the boundaries of District Map |
| Boundary Map | Municipality Map | Adjusting the boundaries of Municipality Map |
| | Barangay Map | Adjusting the boundaries of Barangay Map for every Municipality, Divide barangay into Sitio or Purok, Input attributes ex: Population, Household, etc. & Assigned Evacuation Center for every Sitio or Purok. |
| Infrastructure | Road Network Map | Repositioning, naming & adding of Road Network for every Barangay |
| infrastructure | River System Map | Repositioning, naming & adding of River System for every Municipality |
| Facilities | Landmarks | Repositioning & adding of Landmarks like Schools, Church, Brgy. Hall, Fire & Police Station, Gym, Parks, & Open Spaces for every Municipality |
| Facilities | Evacuation Sites Map | Reposition & adding of Evacuation Sites for every Barangay |
| | Evacuation Building Map | - |
| | Water Affected Risk Map | - |
| | Flood Prone/ Inundation Map | Determining Flood Prone Areas for every Barangay |
| Flood | Storm Surge Map | - |
| Flood | Rain Induced Landslide | - |
| | Mud flows and Debris Flow Map | - |
| | Tsunami Hazard Map | - |
| | Landslide & Erosion Map | - |
| | Earthquake Induced Landslide Map | - |
| Disaster | Fault Lines Map | - |
| | Earthquake Affected Areas | - |
| | Liquefaction Hazard | - |
| | Urban Planning Map | - |
| Others | Address Data | - |
| | Population Map | - |

Things to do...

| | Kegionai iviap | - |
|---------------------|-------------------------------|--|
| | Provincial Map | - |
| | District Map | Adjusting the boundaries of District Map |
| Boundary Map | Municipality Map | Adjusting the boundaries of Municipality Map |
| | | Adjusting the boundaries of Barangay Map for every Municipality, Divide |
| | Barangay Map | barangay into Sitio or Purok, Input attributes ex: Population, Household, etc. |
| | | & Assigned Evacuation Center for every Sitio or Purok. |
| Infrastructure | Road Network Map | Repositioning, naming & adding of Road Network for every Barangay |
| inirastructure | River System Map | Repositioning, naming & adding of River System for every Municipality |
| | Landmarks | Repositioning & adding of Landmarks like Schools, Church, Brgy. Hall, Fire & |
| Facilities | Landmarks | Police Station, Gym, Parks, & Open Spaces for every Municipality |
| racilities | Evacuation Sites Map | Reposition & adding of Evacuation Sites for every Barangay |
| | Evacuation Building Map | - |
| | Water Affected Risk Map | - |
| | Flood Prone/ Inundation Map | Determining Flood Prone Areas for every Barangay |
| Flood | Storm Surge Map | - |
| Flood | Rain Induced Landslide | - |
| | Mud flows and Debris Flow Map | - |
| | Tsunami Hazard Map | - |
| | Landelide & Freeien Man | |

TRAINING SUMMARY

On the first week of training, the trainees learned and familiarized the use of GeoCloud and all the tools that are needed to create and customize all maps.

They learned all necessary tool that are needed to create disaster reports that will help for risk reduction management.

GeoCloud Tools and Process the Trainees learned:

- Loading Maps
- Inserting Drawing Layer
- Inserting Range Values, Individual Values and Override Style
- Inserting Labels
- Saving Files as gcd, gci, gcm, gccn, gc_contents
- Filtering out by Value and Region
- Creating/Adjusting Road Networks Map (Line String)
- Creating/Adjusting Boundary Maps (Polygon)

- Creating/Adjusting Landmarks and Evacuation Center (Points)
- Changing the Symbol of Landmarks or Evacuation Center
- Adding Table Attributes
- Inserting Route

After learning all the necessary tools, to apply what they have learned, we gave the trainees three scenario that they will simulate and present it in GeoCloud.

SCENARIOS

Scenario 1:

• If Pangasinan has orange rainfall warning, identify the barangays that will be affected by flooding.

Scenario 2:

• Given the same scenario, Set evacuation center and assign assets to each evacuation center.

Scenario 3:

• Using rain induced landslide map, identify the roads that are not passable, and identify the routes.

Results

I therefore conclude that the said training is effective because no one asked for assistance while doing the activity and while simulating the scenarios. We have observed that:

- The trainees came up with different presentation using different GeoCloud tools.
 (Creativity has shown)
- All of them enjoyed exploring another tools that are not really necessary but will help in creating their maps.

ATTENDANCE

| Data | PDRRMO | Lingayen | Binmaley | Dagupan |
|------------|------------------|------------------|------------------|------------------|
| Date | No. of Attendees | No. of Attendees | No. of Attendees | No. of Attendees |
| 10/3/2016 | 2 | 6 | 5 | 0 |
| 10/4/2016 | 2 | 6 | 5 | 2 |
| 10/5/2016 | 1 | 7 | 5 | 3 |
| 10/6/2016 | 2 | 6 | 5 | 3 |
| 10/7/2016 | 3 | 7 | 4 | 0 |
| 10/10/2016 | 2 | 7 | 5 | 3 |
| 10/11/2016 | 2 | 7 | 5 | 0 |
| 10/12/2016 | 3 | 5 | 4 | 2 |
| 10/13/2016 | 2 | 7 | 4 | 3 |
| 10/14/2016 | 2 | 6 | 5 | 3 |

Summary of First Work Shop (Contents of the First Workshop)

The general subjects listed below were explained in the first W/S held on Oct. 2016 using the data/information collected from the related organizations in the three provinces.

- 1. General Subjects
- Introduction of system
- > Outline of inundation area by flood scale
- > Disaster response such as warning and evacuation
- > Evacuation map
- > Activities by the three provinces

In the context mentioned above, indicators and verification methods were introduced. Finally, participants detected additional-necessary data/information to be input into the database.

- 2. Indicators and Methodology for Verification of the System, and Necessary data to be input into the Database
- Indicators and Means of Verifications
- Necessary Data (Basic Data and Additional data proposed in the W/S from participants)

Summary of First Work Shop (Indicators for Evaluation of the system)

The system will be evaluated through the second workshop from the viewpoint of both (1)possible application for DRRM and (2) functional capability of the system

| for user | s engaged in DRRM based on the listed | l indicators below. |
|----------------------|--|---|
| Category | Indicator | Means of Verification |
| Indicator of DRRM | 1-1 The accommodation capacity of evacuation center and distribution of potential evacuee population is analyzed for evacuation map. | |
| | 1-2 The vulnerability at facility such as evacuation center and road is evaluated in consideration with elevation. | Identified number of dangerous places The number of persons who have damage risk at evacuation center Vulnerability map |
| | 1-3 The evacuation route is discussed in consideration with inundation depth (hazard) at facility such as evacuation center and road for evacuation map. | - Evacuation map |
| | 2-1 At least 1 person in each province/3LGUs can utilize the system for improving the quantity and quality of data. | - The appropriate functions to improve and development |
| the System | 2-2 The 50 percent of participants of workshop feel the improvement of handling data. | - The user friendly of the system |
| | 2-3 The 50 percent of participants of workshop feel the improvement of viewability of map for becoming easier to explain the disaster risk to residents. | - The created maps in workshop |

Summary of First Work Shop (Confirmation of Necessary Data)

- ✓ In the first W/S held on October 2016, the JICA Project Team and Participants mutually confirmed which data/information should be input into the database in order to verify the system.
- ✓ All the data should be prepared and input by February, 2017 when the second W/S will be held.

| Items | Data | Type | Contents |
|-------------|-------------------------------------|---------------|--|
| | Evacuation sites | Point(symbol) | ID NO, BLDG Location, Evacuation center name, No. of evacuees, Capacity of BLDG, Elevation, BLDG type, BLDG Name |
| Recommended | Population | Circle | ID No. Family name, Address, Population, Senior citizen, Pregnant, Minor, PWD, Type of house |
| | Flood Prone | Polygon | Flood rate, Area of concern, Flood location, Scale of the flood |
| | Inundation area based on experience | Polygon | Year, Clarification name |
| | Road & Bridge | Line | Load Classification, Bridge name and its scale |
| | Assets | Point | ID No, Equipment name, Manpower, Remarks |
| Additional | Education site map | Point | ID No. School name, Classification, No. of enrollees, No. of storey, Longitude and latitude |
| | Rivers,Canals,Creaks | Line | Name |

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KNOWLEDGE CO-CREATION PROGRAM (PRIVATE PARTNERSHIP) in Japan/ Schedule Plan

Nov 2016



Noriaki Ishibashi Shintaro Matsumaru

Program (Nov. 14-19) Purpose

THE KNOWLEDGE CO-CREATION PROGRAM (PRIVATE PARTNERSHIP) in Japan is conducted by Informatix Inc. under the current project (the Verification Survey with the Private Sector for Disseminating Japanese Technologies in ODA Projects for Integrated Geographic Information System (Integrated GIS) for Improvement of Regional Disaster Risk Reduction and Management) undertaken by JICA, which aims to support well-understanding of GeoCloud Integrated GIS, the use of "sharable" GIS data in LGU administrative works including DRRM, by showing actual cases in **Kawasaki City, Shizuoka Prefecture** and Yokohama City where GeoCloud Integrated GIS is actually in the operation. We expect participants to have operating images of the system, then it will result in smooth launch of the system operation in the Province of Pangasinan and 3 LGUs.

Output

- To develop the understanding on GeoCloud
- To understand diverse of use of GeoCloud in various fields.
- To improve DRRM related operations with GeoCloud
- To give blueprint of sharable DRRM database on GeoCloud in Pangasinan in order to facilitate the Verification Survey works further.
- To upgrade capability of information sharing with GeoCloud among not only DRRM section but also other divisions, namely, city planning, engineering and any other relevant offices.

Schedule

| Date | Time | Form | Contents | Lecturer/ P Name | erson in Charge Belonging | Langu age | Venue |
|------------|---------------|------|---|-------------------------|-------------------------------|--------------|-------------|
| | 6:30 ~ 12:00 | | Move (Pangasinan => Manila Airport) | | | | Car |
| 11/14(Mon) | 14:35 ~ 19:55 | | Move (Manila A.P. => Tokyo/ Haneda A.P.) | | | | Plane |
| | 21:00 ~ 21:30 | | Move (Haneda => Hotel in Kawasaki) | Ishibashi/ Matsumaru | Informatix | English | Train |
| 11/15(Tue) | 10:00 ~ 10:10 | G | Greeting | Shoichi Mihara | Informatix (CEO) | English | @Informatix |
| | 10:10 ~ 11:00 | P | Self-introduction, | Ishibashi/ Matsumaru | Informatix | English | @Informatix |
| | 11:00 ~ 12:00 | L | Lecture about Spatial Information | Masanori Nagashima | Informatix (Chairman) | English | @Informatix |
| | 11:00 ~ 12:00 | | Lunch | | | | @Informatix |
| | 13:00 ~ 17:00 | L | Lecturer about GIS and Integrated GIS | Ishibashi | Informatix (Sales Manager) | English | @Informatix |

L = Lecture

P = Presentation

G = Greeting

Schedule

| Date | Time | Form | Contents | Lecturer/ Person in Charge | | | Venue |
|------------|---------------|------|-----------------------------------|----------------------------|----------------|---------|-------------|
| | | | | Name | Belonging | age | |
| 11/16(Wed) | 9:30 ~ 11:30 | L | Lecture about Various | Ishibashi/ | Informatix | English | @Informatix |
| | | | Applications | Matsumaru | | | |
| | 11:30 ~ 12:30 | | Lunch | | | | @Informatix |
| | 13:00 ~ 16:00 | l M | Information Sharing with | | Kawasaki City | Japanes | @Kawasaki |
| | | | Integrated GIS (Draft title) | | Information | e* | City |
| 11/17(Thu) | 9:30 ~ 11:05 | | Move (Kawasaki => Shin- | | | | Train |
| | | | Yokohama => Shizuoka) | ••••• | | | |
| | 11:30 ~ 12:30 | | Lunch | | | | @Shizuoka |
| | 13:30 ~ 16:30 | М | Utilization of Integrated GIS in | | Shizuoka Pref. | Japanes | @Shizuoka |
| | | | Shizuoka Prefecture (Draft title) | | Transportation | e* | Pref |
| | 17:00 ~ 19:02 | | Move (Pref Gov. => Shizuoka | | | | Train |
| | | | => Shin-Yokohama => | | | | |

L = Lecture M = Mission Trip *An interpreter is available in the Japanese session.

Schedule

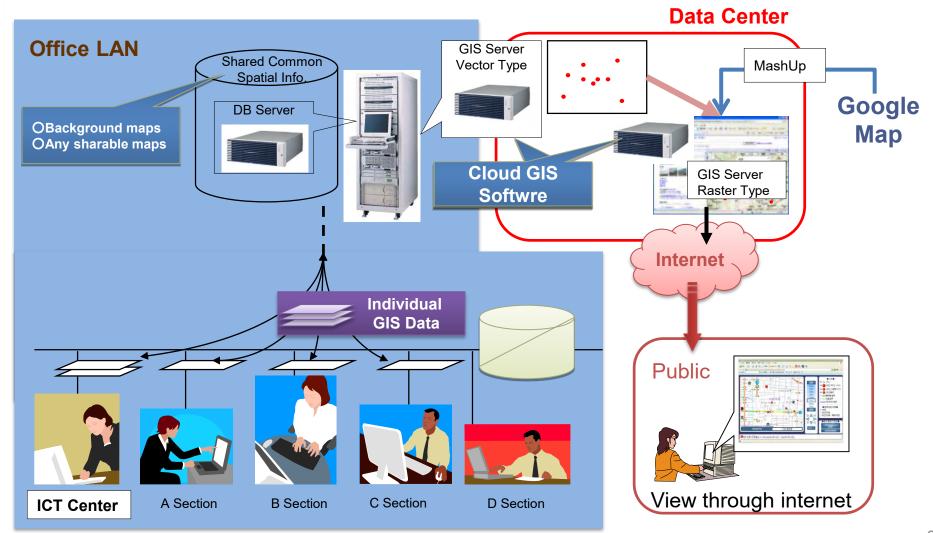
| Date | Time | Form | Contents | Lecturer/ Person in Charge | | | Venue |
|------------|---------------|------|----------------------------------|----------------------------|---|---------|----------|
| | | | | Name | Belonging | age | |
| 11/18(Fri) | 9:10 ~ 9:50 | | Move (Kawasaki => | | *************************************** | | Train |
| | 9.10 . 9.30 | | Yokohama => DRRM Center) | | | | |
| | 10:00 ~ 13:00 | M | Utilization of Integrated GIS in | | Yokohama City | Japanes | Yokohama |
| | 10.00 10.00 | | Fire/ DRRM Department (Draft | | Fire Bureau | e* | Disaster |
| | 13:00 ~ 13:30 | | Move (DRRM Center => | | | | Train |
| | | | Yokohama => Minato Mirai) | | | | |
| | 13:30 ~ 14:30 | | Lunch | | | | @JICA |
| | | | Luicii | | | | Yokohama |
| | 14:30 ~ 17:00 | P | Presentation by Participants, | Ishibashi/ | Informatix | English | @JICA |
| | | | Wrap Up | Matsumaru | | | Yokohama |
| | 17:30 ~ 18:20 | | Move (JICA Yokohama => | | | | Train |
| | | | Sakuragicho => Kawasaki) | | | | |
| 11/19(Sat) | 7:30 ~ 8:00 | | Move (Hotel => Keikyu- | Ishibashi/ | Informatix | | Train |
| | 7.30 . 8.00 | | Kawasaki => Haneda) | Matsumaru | | | |
| | 9:55 ~ 13:30 | | Move (Tokyo/ Haneda A.P. => | | - | | Plane |
| | | | Manila A.P.) | | | | 1 Iaik |
| | 14:30 ~ 19:30 | | Move (Manila A.P. => | | | | Car |
| | | | Pangasinan) | | *************************************** | | Cai |

M = Mission Trip P = Presentation

^{*}An interpreter is available in the Japanese session.

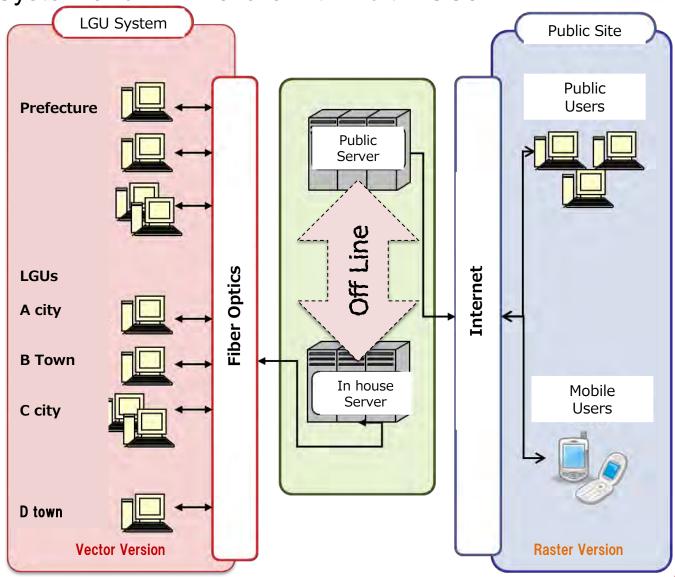
Cloud GIS: Good Illustration

e.g.1: Data Share in Office



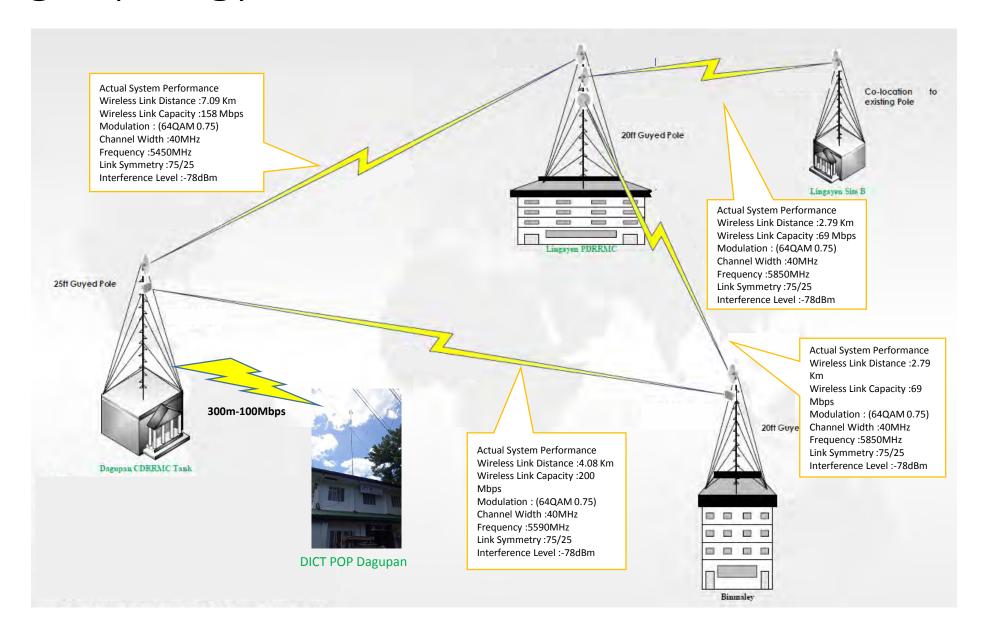
Cloud GIS: Good Illustration

e.g.2: System and DATA share with multi-LGUs



Pangasinan Wireless Project Cambium ePMP

Ring Topology and Wireless Information



Site Pictures



Binmaley Site















DICT POP

| | | | Туре | Coverage | Sources | | | | | Edited and | |
|---------------------------|----------------------------------|--|------------------|--------------|----------|----------|----------|------------|-------------------------|--|---------|
| Group | Мар | Detail | | | NAMRIA | LGU | PhilNITS | Informatix | Modified by PhilNITS | sourced from LGU during the Training | Remarks |
| Base Map | Open Street Map | Base Background Map | Digital | National | | | | ✓ | | | |
| | Elevation Map | JAXA Elevation Data | Mesh | Pangasinan | ✓ | | | | | | |
| | Regional Map | Regional | Digital | National | ✓ | | | | | | |
| | Provincial Map | Provincial | Digital | National | ✓ | | | | > | | |
| Boundary Map | District Map | District (1-6) Zone | Digital | Provincial | | ~ | | | ~ | | |
| | Municipality Map | Municipalities | Digital | National | ✓ | | | | ~ | ✓ | |
| | Barangay Map | Barangay | Digital | National | ✓ | | | | ✓ | ✓ | |
| I m f m a a b m a a b m a | Road Network Map | Main Roads | Digital | National | ✓ | | | | ~ | ✓ | |
| Infrastructure | River System Map | Main Channels | Digital | Provincial | ✓ | | | | ✓ | ✓ | |
| | Landmarks | Primary, Secondary, Tertiary Schools, Government Hospitals, & Municipal Hall | Digital (Points) | 3LGU | | √ | | | √ | √ | |
| Facilities | Evacuation Sites Map | Evacuation Sites | Digital (Points) | Binmaley | | ✓ | | | ✓ | ✓ | |
| | Evacuation Building Map | High Building Higher than 3 rd Floors(565) | Digital (Points) | Dagupan City | | | | | | | |
| | Water Affected Risk Map | Municipal Level | Image | Provincial | ✓ | | | | | | |
| | Flood Prone/ Inundation Map | - | Digital & Image | Provincial | ✓ | | | | ✓ | | |
| Flood | Storm Surge Map | - | Digital & Image | Provincial | ✓ | | | | ✓ | | |
| rioou | Rain Induced Landslide | - | Digital | Provincial | ✓ | | | | ~ | | |
| | Mud flows and Debris Flow Map | - | Image | Provincial | ✓ | | | | | | |
| | Tsunami Hazard Map | - | Digital & Image | Provincial | ✓ | | | | > | | |
| | Landslide & Erosion Map | - | Image | Provincial | ✓ | | | | | | |
| | Earthquake Induced Landslide Map | - | Digital | Provincial | ✓ | | | | > | | |
| Disaster | Fault Lines Map | Buffer Line | Image | Provincial | ✓ | | | | | | |
| | Earthquake Affected Areas | Municipal Level | Image | Provincial | ✓ | | | | | | |
| | Liquefaction Hazard | - | Digital & Image | Provincial | ✓ | | | | ~ | | |
| | Urban Planning Map | Land Use, Zoning Map | Digital & Image | 3LGU | | | | | | | |
| Others | Address Data | For Address Search and Matching | Digital (Points) | 3LGU | | | | | | | |
| | Population Map | Population of every Municipality | Digital | Provincial | | | √ | | ✓ | | |

Legend
Acquired Maps
Additional Maps

No Maps Given







Terminal
Report on the
Localization of
Software

Terminal Report on the "Localization of Software"

The PhilNITS Programmers and Encoders consisting of five (5) people underwent Training on the GeoCloud System for two-months—June and July.

Informatix Inc., provided PhilNITS with the GC Planets Developer Customized Manual as Reference Material for the different Tools contained in the Geo Cloud System.

Program Exercises were given to the Programmers and there were sent to Japan for review by Informatix.

Selection of Tools from the Geo Cloud System's Library for use in the Training Manuals were done by the PhilNITS Programmers. These are:

- MGRS Draw Point draw point in the map and get MGRS coordinates.
- MGRS Trace trace mouse movement in GeoCloud Map and automatically convert mouse coordinates to MGRS coordinates.
- 3. MGRS Grid draw a grid in the GeoCloud map with MGRS coordinates that shows the division of zones in the globe.
- 4. ASC to GCD Converter made by Informatix but edited according to needs. Converts ASCII File to GeoCloud GCD's.
- 5. GCD to GCR Converter made by Informatix but edited

- according to needs. Converts GCD's to GCR's Files.
- 6. Add Node add a new file in the Content Window.
- 7. Compound Edit creates new drawing in Content Window.
- 8. Draw Ellipse draw an Ellipse shape in the Map.
- 9. Heavy Operation sample of loading large data.
- 10. Logger create and save Geo Cloud log files in the database.
- 11. PDF- creates a PDF file and save map as PDF.
- 12. Router shows the fastest route from point A to B.
- 13. Sample Node creates a new button in GeoCloud.
- Sample Theme Annotation creates a new button in the themes and annotation.
- 15. Sample Activity allows to change the background color of the GeoCloud new screen.

Listed in Annex 1 below are the Japanese Messages we translated into English

These messages in the Graphic User Interface (GUI) were translated from Japanese to English in a period of six weeks starting August 15 to September 23, 2016. These were inserted into the Geo Cloud Program and subsequently we placed these in the Admin System Manual for Training (see Annex 2).

After submission of these Translated Messages to Japan, the staff of Informatix inserted these in the Program and submitted the Geo Cloud System to PhilNITS for storage in the Servers.

Although PhilNITS was able to submit modifications to the programs

of the Geo Cloud Software for use in Pangasinan, we are unable to see these modifications in the Geo Cloud System we submitted to Pangasinan.



GeoCloud Manual

(Pangasinan)

Table of Contents

| ١. | Ge | oClo | oud Interface | 5 |
|----|------|------|--|----|
| | 1.1. | Wh | at is a GIS? | 5 |
| | 1.1 | .1. | Using Existing Maps | 5 |
| | 1.1 | .2. | Add Layers of Information | 6 |
| | 1.1 | .3. | Allow Analysis of Geospatial Information | 6 |
| | 1.2. | Use | er Interface of GeoCloud | 6 |
| | 1.2 | .1. | Quick Access Toolbar | 7 |
| | 1.2 | .2. | Application Button | 8 |
| | 1.2 | .3. | Ribbon Tab | 8 |
| | 1.2 | .4. | Contents Window | 9 |
| | 1.2 | .5. | Table Window | 10 |
| | 1.2 | .6. | Preview Window | 10 |
| | 1.2 | .7. | Local Menu | 11 |
| | 1.2 | .8. | Details Window | 11 |
| | 1.2 | .9. | Map Window | 12 |
| | 1.2 | .10. | Overview Map | 12 |
| | 1.2 | .11. | Status Bar | 13 |
| | 1.3. | Add | ding Layer | 13 |
| | 1.3 | .1. | Adding Layer from Local | 13 |
| | 1.3 | .2. | Adding Layer from Server | 14 |
| | 1.4. | Loa | ading Contents of Layer/Table Window | 15 |
| | 1.5. | Lab | peling a Layer | 16 |
| | 1.6. | Zoo | om Table Window Content on Window Map | 17 |
| | 1.7. | Sho | ow Polygon Details | 18 |
| | 1.8. | Hid | e/Unhide Layer on Window Map | 19 |

| | 1.9. Re | eference Map | . 19 |
|----|---------|--|------|
| | 1.10. | _ayer Transparency | . 20 |
| | 1.11. | Wipe Layer | . 21 |
| | 1.12. | _ayer Zoom Range | . 21 |
| | 1.13. | nserting Drawing Layer | . 22 |
| | 1.14. | Changing Layer Name | . 23 |
| | 1.15. | Changing Layer Status | . 23 |
| | 1.16. | Column Details | . 24 |
| | 1.16.1 | Adding Column Details | . 24 |
| | 1.16.2 | Altering Column Details | . 25 |
| | 1.16.3 | Removing Column Details | . 26 |
| | 1.17. | nserting View | . 26 |
| | 1.18. | Creating Folder | . 27 |
| | 1.19. | Saving | . 28 |
| | 1.19.1 | Saving as GeoConic Dataset (.gcd) | . 28 |
| | 1.19.2 | Saving Layer as GeoConic Layer (.gccn) | . 30 |
| | 1.19.3 | Saving Layer as GeoConic Increment (.gci) | . 31 |
| | 1.19.4 | Saving as GeoConic Contents (.gc_contents) | . 32 |
| | 1.19.5 | Saving Folder as GeoConic Model (.gcm) | . 33 |
| | 1.20. | Adding Theme | . 34 |
| | 1.20.1 | Adding Range Value | . 35 |
| | 1.20.2 | Adding Individual Value | . 36 |
| | 1.20.3 | Overriding Style | . 37 |
| 2. | My Ma | ps | . 39 |
| | 2.1. Ba | se Map | . 39 |
| | 2.1.1. | Open Street Map | . 39 |
| | 2.1.2. | Elevation Map | . 40 |

| 2 | 2.2. Bo | oundary Map | 42 |
|----|---------|---|----|
| | 2.2.1. | Regional Map | 42 |
| | 2.2.2. | Provincial Map | 43 |
| | 2.2.3. | District Map | 43 |
| | 2.2.4. | Municipality Map | 44 |
| | 2.2.5. | Barangay Map | 44 |
| 2 | 2.3. In | frastructure Map | 45 |
| | 2.3.1. | Road Network Map | 45 |
| | 2.3.2. | River System Map | 45 |
| 2 | 2.4. Fa | acilities | 46 |
| | 2.4.1. | Landmarks | 46 |
| | 2.4.2. | Evacuation Sites Map | 48 |
| 2 | 2.5. FI | ood | 49 |
| | 2.5.1. | Flood Prone Map | 49 |
| | 2.5.2. | Rain Induced Landslide Map | 50 |
| | 2.5.3. | Storm Surge Prone Map | 50 |
| | 2.5.4. | Tsunami Hazard Map | 51 |
| 2 | 2.6. Di | saster | 51 |
| | 2.6.1. | Earthquake Induced Landslide | 51 |
| | 2.6.2. | Liquefaction Hazard Map | 54 |
| 2 | 2.7. Po | opulation Map | 55 |
| 3. | Buildir | ng Maps | 57 |
| ; | 3.1. C | reating Municipality Layer | 57 |
| | 3.1.1. | Filtering out unwanted Municipalities (Filter by Value) | 57 |
| | 3.1.2. | Create Municipality Layer | 59 |
| | 3.1.3. | Adjusting the boundary of Municipality (Repositioning of Polygon) | 62 |
| ; | 3.2. C | reating Road Networks Layer | 64 |

| | 3.2 | .1. | Filtering out unwanted Road Networks (Filter by Region) | 64 |
|---|------|-----|---|----|
| | 3.2 | .2. | Adjusting Road Networks | 67 |
| | 3.2 | .3. | Creating Road Networks | 69 |
| | 3.3. | Cre | eating Facilities Layer | 71 |
| | 3.3 | .1. | Creating Table | 71 |
| | 3.3 | .2. | Creating or Adding Facilities | 74 |
| | 3.3 | .3. | Changing symbol of the Facilities | 76 |
| | 3.3 | .4. | Moving Facilities' Location | 78 |
| | 3.4. | Cre | eating Evacuation Center Layer | 79 |
| | 3.4 | .1. | Adding Table Attributes for Evacuation Center | 79 |
| | 3.4 | .2. | Creating or Adding Evacuation Center | 81 |
| 4 | . PD | RRI | MO Operations | 83 |
| | 4.1. | Ga | thering General Information | 83 |
| | 4.2. | Ris | k Analysis | 83 |
| | 4.3. | Sui | mmary of Assets | 85 |
| | 4.4. | Pre | eparedness | 87 |
| | 4.5 | Pos | st Disaster | 89 |







Report on the

"Training Project"

Report on the Training Project

As per agreed upon in the Project Timetable, PhilNITS conducted the Geo Cloud Training on October 3 to 14, 2016 at the PDRRMC office located in the Evacuation Center in Lingayen. Present were staff from the Pangasinan Province and from the PDRRMC, Municipality of Binmaley, Lingayen and Dagupan City. (See list of participants)

On our first day in Pangasinan, PhilNITS staff checked on the condition of the server, the desktop and the laptops to make sure these were in good working condition. We then checked on the training materials and PowerPoint presentations we had prepared. We encountered a problem with the server because it failed to start up. With that, we decided to meet and plan an alternative solution to be able to conduct the Training Course even without the server connection. We came up with the solution of using GC Planets temporarily and we had to install Tomcat and PostgreSQL in each and every computer.

However, upon notification on the Server failure, the PhilNITS Engineer went to Pangasinan to replace the Server with the second server in the PhilNITS Office. (It was later discovered that failure of the first server was due to a loose connection caused by the transport of the server from Manila to Pangasinan)

We reported early on the second day at the Training site to set up all the computers that were going to be used in the training. We were able to successfully continue the Training as scheduled. We were happily surprised to see that the participants were able to follow the Training Manuals we prepared. We also saw how they easily used the tools of GC Planets. We observed the trainees following the steps in the Training PowerPoint Presentation and we saw how they tried to use their tools and figure out ways to use these in their respective Maps. We saw how interested they were in learning how to use the GeoCloud System.

On the third day, we already anticipated that this will be the most crucial part of the Training Program. This training module is not just about insertion of drawings and the saving of maps but also the layering of different maps, creating tables, roads, facilities and polygons. Before the training module ended we saw how they struggled and were confused with the different activities. So on the next day, we reviewed all the topics that they found complicated. Before the end of the week we gave them an assignment to gather data from their respective LGUs that they would like to put in their maps for the use of these data on the second week of Training. We told them that we will teach them how to upload these data in their maps.

On the next succeeding days, they focused on entering their own data and maps using the Geo Cloud System. They learned how to use the Geo Cloud individually and without assistance. They also tried to simulate the possible outputs when a calamity occurs.

Since they are simulating the possible outputs, we also conducted simulation exams to test their knowledge. The tests showed that they know how to use GeoCloud and they were able to create different reports or scenarios that showed their maps of affected barangays and based on the different kinds of disasters. They were able to successfully draw plans on the placement of available assets in the affected barangays,

We are happy to see how much the participants learned from the training we conducted and saw how excited they were to use Geo Cloud in their respective Municipality Disaster Risk Reduction Management Offices.

The Training ended with a small party prepared by the Pangasinan PDRRMC office headed by Col. Rhodyn Oro.

On November 8-9, 2016, the PhilNITS Team went to Pangasinan to lay down all the equipment and the PhilNITS staff trained the different LGUs on the use of the Printers and Scanners.







Report on the "Training Project"

(2nd Part)

June 27-30, 2017

Report on the Training Project

The training was conducted from June 27, 2017 to June 30, 2017 at the DRRM Office in the Evacuation Center in Lingayen, Pangasinan. The first day of training was all about reviewing the necessary tools that we already taught on the first training last October 2016. We gave them sets of activity to identify if they are really familiar with the necessary tools. After the activity, we observed that the trainees from Dagupan were able to finish the activity ahead of time because they have easily analyzed the problem and identified tools that are needed to create the maps. The trainees from Lingayen, are still familiar with the use of GeoCloud tools but had a hard time analyzing the problem. While the trainees from Binmaley already forgot the tools that are necessary for creating Hazard Analysis Maps and find it hard to analyze the activities. With this, we can conclude that they don't regularly use the system. On the same day, they also tested the use of GPS Logger as well as the Android application for GeoCloud data entry that can help them to get data easier.

On the second day of training, we started teaching them how to transfer and use the data that they collected using the GPS Logger and the Android application for GeoCloud Data Entry. We also introduced to them tools for better and easier creation of Hazard maps. The highlight of the second day training was about flood simulation. The flood simulation analyzes the time when the river overflows and determines which areas will be affected. To compute for flooding, trainees used the following data: area of the barangay; the volume of water of the barangay in relation to the rainfall height; area of the river; spilling level; current level; and volume

of the river in relation to the free level. After the second day training, the trainees learned to create an expression column. The trainees from Dagupan, Lingayen and Binmaley were able to follow the steps in creating the flood simulation map in less than a minute for every step.

The third day of the training was conducted by Mr. Miyagi Masakazu. It focused on creating an evacuation sites route map. The map shows the nearest route to reach the evacuation sites. As an output, he taught the trainees how to print the map in pdf format.

On the fourth and also the last day of training, we gave them an activity about the flood simulation which is a continuation of the second day training. Each LGU presented the output of their own Flood Simulation Maps. They successfully presented their flood simulation map and was able to have an analysis about the time when the river will overflow. The major focus of the training was to teach the trainees how to create a computed attribute column that will be based on the available data that they have. After the training, we can, therefore, conclude that the training was effective because they were able to determine and create a much more complex inland and inshore flood maps using the computed attribute column.

While conducting the training, we've experienced the following problems:

- The IP Address was changing.
- The system was working slower even though they're just loading few maps.
- GeoCloud lags and requires to restart the application when all trainees from different LGUs are using the GeoCloud at the same time.
- Some users aren't able to login to GeoCloud even though the number of users does not yet exceed the maximum number of licenses.

Day 1. June 27, 2017





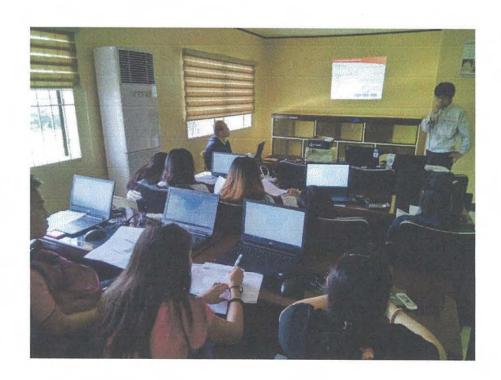
Day 2. June 28, 2017





Day 3. June 29, 2017





Day 4. June 30, 2017





受入実施内容

| 案件名: | | | | フィリピン国 地域防災能力向上のための統合型地理情報システムの普及・実証事業 |
|-------|------------|---|------------|--|
| 受入期間: | 2016/11/14 | ~ | 2016/11/19 | 参加人数: 8 人 |
| | | | | |
| | | | | |

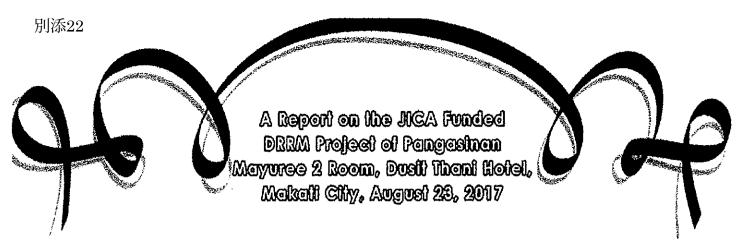
| 日付 | B | 侍刻 | 形態 | 受入活動内容 | 講師・見学先担当 | 講師使用言語 | 活動場所 | 発表概要 | 研修員質問・感想など | 宿泊先 |
|----------|---|--|------------|---|--|---|---|--|--|------------------|
| 11/14(月) | 14:50 | ~ 10:00 ~ 20:00 ~ 21:00 |) | 移動(パンガシナン⇒マニラ空港) 移動(マニラ空港⇒羽田空港) 移動(羽田空港⇒ホテル 川崎市内) | (株) インフォマティクス | | 借上車両 ANA870便 京急 | | | ホテル東横INN川崎駅前市役所通 |
| | 20.00 | 21100 | | 1933 (114127) (1177) Majara | | | 7,7,5, | (株)インフォマティクス代表取締役三原正一の歓迎挨拶: ・パンガシナン州のLGU,フィリピン国関係省庁からの研修員を歓迎い | | |
| | 10:00 | ~ 10:10 | | 社長挨拶 | (株) インフォマティクス社長 | 英語 | IFX本社 | ・ハンガシテン州のLGU,フィリピン国関係省庁からの研修員を歓迎いたします。 ・日本のGISと利用団体視察により、研修員と各組織の今後の活用に | | |
| | 10:10 | ~ 10:30 | 登 惠 | 参加者、受入企業団員自己紹介 | | 英語 | IFX本社 | 役立つことを期待します。 インフォマティクス側、研修員の自己紹介 | | |
| | 10.10 | 10.00 | 元权 | | | 大品 | 11 7本社 | | | |
| | 10:30 | ~ 11:00 | | Briefing | (株) インフォマティクス | 英語 | IFX本社 | ・研修のスケジュール ・宿泊施設・食事 ・交通費・日当等 | | |
| 11/15(火) | | ~ 11:45 | | 社内見学 | (株)インフォマティクス | 英語 | IFX本社 | インフォマティクス社の紹介 部署と役割 社内見学 | Q:開発グループとプロダクトグループの違いは? A.開発グループは主に顧客向け個別カスタマイズを実施し、プロダクトは パッケージ商品の開発・維持管理を行う。 | |
| ,, | | ~ 13:00 | | 昼食 | | | | <u></u> 空間情報ソフトウェアの歴史と進化 | Q:あのGDSはインフォマティクスの商品だったのか? | |
| | 13:00 | ~ 13:50 | 講義 | 空間情報に関する講義 | (株)インフォマティクス会長 | 英語 | IFX本社 | | A. GDSは長島会長が開発に携わった商品。 | |
| | 14:00 | ~ 15:00 | 講義 | GIS及び統合型GISに関する講義 | (株)インフォマティクス マ ネージャ | 英語 | IFX本社 | クラウドコンピューティングGISについて 内容: | Q:GeoCloudのライセンス形態は? A. サーバーライセンスを採用し、サーバー台数と同時アクセス数で決定す | |
| | 15:15 | ~ 16:15 | 講義 | GIS及び統合型GISに関する講義(続き) | (株) インフォマティクス マ ネージャ | 英語 | IFX本社 | ・クラウドコンピューティングの利点 ・クラウドGISの特長 ・運用の方法と事例 ・GeoCloudの特長 | る。利用可能の端末数は関係ない。 Q:GeoCloudに開発環境は? A.SDKが存在し、開発が可能。 Q:モバイル版については? A.アンドロイド版などがある。 | ホテル東横INN川崎駅前市役所通 |
| | | | | | | | | | 感想: ・大変使いやすそう。 | |
| | 9:30 | ~ 10:00 | 講義 | GISアプリケーションに関する講義 | (株) インフォマティクス マ ネージャ | 英語 | IFX本社 | 分野別GISアプリケーションと部署別データの紹介内容: ・プロジェクトとしてパンガシナン州に導入される統合型GIS以外にどのようなシステムが存在し、運用されているかを紹介。 ・災害時要援護者管理システム ・参集計画支援システム ・情報共有支援システム ・カーナビ、ヘリコプターナビゲーションシステム ・化学薬品、ウィルス拡散シミュレーション | ・ | |
| | | | | | | | | 内容: ・インフラ部門での利活用例の紹介 | Q:インフォマティクス紹介の360カメラの特長と違いは? A. 簡易で手軽な操作と低価格 | |
| | 10:00 | ~ 10:50 | 実習 | GIS関連技術-インフラ管理 | (株) インフォマティクス マ ネージャ | 英語 | IFX本社 | ・動体位置情報管理・電車軌道管理・高速道路付帯設備管理・位置情報と画像・360カメラレコーダー | A. 同勿と子社な味下と皮岬伯 | |
| | | | + | | (性) メン・フェッニ・カコ ー | <u> </u> | | ・ドローンとGIS GIS以外の空間情報利用技術を紹介 内容・ | | |
| | 11:00 | ~ 11:45 | 実習 | GIS関連技術ーARソリューション | (株) インフォマティクス マ ネージャ | 英語 | IFX本社 | M谷: - 住宅建築分野向け360°パノラマ対応建築管理ツール - AR 拡張現実による現実空間と仮想CGモデル合成ソフトの活用 | - ノヿ ノ ∟ ノ し □ □ P J ± Y C ↑ I / 白 川 V | |
| | | ~ 13:00 | | 昼食 | | <u> </u> | | ・・・・ ルムスシストの つめたエ川 C 以応いて J ルロ R ノ J ト リ 活出 | | |
| | 13:00 | ~ 13:30 | 1 | 川崎市発表準備 | | | | | | |
| | | | | | | | | ・GISシステム概要 ・導入の経緯と歴史 | A:担当各課が入力 Q:システム管理課の役割は?各課の責任は? | |
| 11/16(水) | 13:30 | ~ 14:30 | 講義 | 川崎市統合型GISの紹介 | 川崎市システム管理課 | 日本語(通訳) | | 道る前の理暦 | A:システム管理課はソフトとハードウェアの整備とメンテナンス、そして 全体の方向性とルールの取決めをメインとし、情報の整備と決定は担当各 | |
| | | | | | | (通訊) | の職員来社) | ・システムの構成・利用状況 | 課の役割出る。 Q:高機能版と基礎版の2種類があるが、違いは? | |
| | | | | | | | | ・公開型GISと住民サービス ・評価と今後 | A: 高機能版では高度GISとして分析、地図編集などが可能。多くの職員は基礎版でOK。 | |
| | 14:50 ~ | | | | 川崎市戸籍住民サービス課 | | _ | 内容: ・業務、部署紹介 | Q:日本の住所決定方法? A:日本独自の街区による番地号 | |
| | | ~ 15:30 | 講義 | 戸籍住民サービス課の紹介 | | 日本語(通訳) | IFX本社(川崎市 の職員来社) | | Q:住民の情報は? A:世帯人数、居住者名などは別の住民台帳システムで管理している。 | |
| | | | | | | | 沙 城兵不吐/ | ・導入前の課題 ・導入のメリット | A. 世帯八数、石は石石などは別の住民日報ンス)立て官座している。 | |
| | 15:30 | ~ 16:10 | 講義 | 危機管理室の紹介 | 川崎市危機管理室 | 日本語(通訳) | IFX本社(川崎市 の職員来社) | 内容: ・総合防災情報システムについて ・部署の取り組み・活動 ・ फ ※ マップとハザードマップ | Q:避難の経験や難しさ? A:コンテンツの有無が内容が地域によりバラバラにであるものがある。現場ではGIS用にデータ整備が行われておらず、データ入力が困難なことも。Q:データはどこから? A:津波予測など国や県からが主である。市が外部研究機関に委託して整備するデータも。Q:排ガスなどのデータ利用はあるか?A:危機管理としての取り扱いはないが、環境課で取り扱っている。 | |
| | | | | | | | | | Q:住民へどのデータ公開するかは誰の判断か? | |
| | | | | 都市計画課の紹介 | 川崎市都市計画課 | 日本語(通訳) | IFX本社(川崎市 の職員来社) | ・業務、部署紹介 ・GIS利用目的 ・運用状況・取扱いデータ ・導入前の課題 ・導入のメリット | A: 国などのガイドラインがあるが、川崎市の当局毎に判断している。 Q:窓口のタッチパネルシステムは印刷量を徴収するが、画面を撮影して良いのか? A:住民にはインク代・紙代を負担いただくのが意図。インターネットでも 無償で閲覧できる。 | ホテル東横INN川崎駅前市役所通 |
| | 16:20 | ~ 17:00 | 講義 | 1911月11日 画味の売り | | | | | | |
| | 9:30 | ~ 11:07 | | 移動(川崎駅→新横浜駅→静岡駅) | | | JR、新幹線 | | | |
| | 9:30 11:30 | | 1 | | | | JR、新幹線 静岡駅ビル | | | |
| | 9:30 11:30 12:30 | ~ 11:07 ~ 12:30 ~ 13:00 | | 移動 (川崎駅→新横浜駅→静岡駅) 昼食 徒歩移動 | 静岡県交通基盤部長 整岡県 | 日本語(通訳) | 静岡駅ビル | | これを機会に良い協力関係を気づければ。 | |
| | 9:30 11:30 12:30 | ~ 11:07 ~ 12:30 ~ 13:00 | | 移動(川崎駅→新横浜駅→静岡駅) 昼食 徒歩移動 | 静岡県交通基盤部長 静岡県 交通基盤部建設支援局技 術管理課 | | 静岡駅ビル | 静岡県土木部長よりの歓迎挨拶 静岡県の紹介 | Q:土木防災情報センターで全てのコントロールを? A:Yes | |
| | 9:30 11:30 12:30 | ~ 11:07 ~ 12:30 ~ 13:00 | | 移動 (川崎駅⇒新横浜駅⇒静岡駅) 昼食 徒歩移動 意見交換・挨拶 静岡県土木防災情報センター | 静岡県 交通基盤部建設支援局技 | 日本語 | 静岡駅ビル | 静岡県土木部長よりの歓迎挨拶 静岡県の紹介 ■ 静岡県のGISへの取り組み | Q:土木防災情報センターで全てのコントロールを? A:Yes Q:地図上のカメラはリアルタイム画像をみれるのか? A:Yes | |
| | 9:30 11:30 12:30 | ~ 11:07 ~ 12:30 ~ 13:00 | | 移動 (川崎駅⇒新横浜駅⇒静岡駅) 昼食 徒歩移動 意見交換・挨拶 静岡県土木防災情報センター | 静岡県 交通基盤部建設支援局技 | 日本語 | 静岡駅ビル | 静岡県土木部長よりの歓迎挨拶 静岡県の紹介 ■ 静岡県のGISへの取り組み ■ 静岡県地理情報システム | Q:土木防災情報センターで全てのコントロールを? A:Yes Q:地図上のカメラはリアルタイム画像をみれるのか? A:Yes Q:気象情報はリアルタイム更新か? A:Yes | |
| | 9:30 11:30 12:30 | ~ 11:07 ~ 12:30 ~ 13:00 | | 移動 (川崎駅⇒新横浜駅⇒静岡駅) 昼食 徒歩移動 意見交換・挨拶 静岡県土木防災情報センター | 静岡県 交通基盤部建設支援局技 | 日本語 | 静岡駅ビル | 静岡県土木部長よりの歓迎挨拶 静岡県の紹介 ■ 静岡県のGISへの取り組み ■ 静岡県地理情報システム ■ 災害対応へのGIS利活用状況 | Q: 土木防災情報センターで全てのコントロールを? A: Yes Q: 地図上のカメラはリアルタイム画像をみれるのか? A: Yes Q: 気象情報はリアルタイム更新か? A: Yes Q: 市町村と共有データは? A: 現在、ボーリングデータ、ハザードマップなど。データ作成の脱2重投資 | |
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受入詳細計画表(兼受入詳細計画表(実績版))

案件名: フィリピン国 地域防災能力向上のための統合型地理情報システムの普及・実証事業

受入期間: 2017/5/18 ~ 2017/5/23 参加人数: 8人(JICAフィリピン事務所の職員は除く)

| 日付 | 時刻 | 形態 | 受入活動内容 | 講師又は見学先担当者等 所属先及び職位 | 講師 使用 言語 | 活動場所 |
|-----------|---------------|----|--|--|------------------------|-----------------|
| | | | | 77147000 1301 | | |
| | 8:05 ~ 13:25 | | 移動(マニラ空港⇒羽田空港) | (株)インフォマティクス | | NH5334 |
| 5/18(Thu) | 14:00 ~ 14:40 | | 移動(羽田空港→大森) | (株)インフォマティクス | English | バス移動 |
| ` ′ | 14:45 ~ 15:15 | | 移動(大森⇒川崎) | (株)インフォマティクス | English | バス移動 |
| | 10:00 ~ 10:15 | G | 社長•会長挨拶 | (株)インフォマティクス | English | インフォマティクス・ |
| | 10:15 ~ 10:30 | | オリエンテーション(一般事項とスケジュール) | (株)インフォマティクス | English | 本社 |
| | 10:30 ~ 11:00 | | GIS及び統合型GISに関する講義 | (株)インフォマティクス | English | |
| | 11:00 ~ 11:15 | M | 社内見学 | (株)インフォマティクス | English | |
| | 11:15 ~ 12:15 | | 昼食 | | | ミューザ川崎 |
| | 12:30 ~ 12:45 | | 移動(インフォマティクス⇒川崎市役所) | | | 徒歩 |
| 5/19(Fri) | 13:00 ~ 13:30 | | 川崎市長表敬訪問 知事·市長意見交換 集合写真撮影·TV取材 | 川崎市経済労働局 | | |
| , | 13:40 ~ 14:10 | | 川崎市統合型GISの紹介 | 川崎市システム管理課 | | |
| | 14:10 ~ 14:20 | | 休憩 | | т | |
| | 14:20 ~ 14:50 | | 戸籍住民サービス課の紹介 | 川崎市戸籍住民サービス課 | Japanese (interpreter) | 川崎市役所 |
| | 14:50 ~ 15:00 | L | 休憩 | | (micipieter) | |
| | 15:00 ~ 15:40 | - | 危機管理室の紹介 | 川崎市危機管理室 | | |
| | 15:40 ~ 15:50 |] | 休憩 | | | |
| | 15:50 ~ 16:30 | | 都市計画課の紹介 | 川崎市都市計画課 | | |
| | 16:45 ~ 17:00 | | 移動(川崎市役所⇒ホテル) | | | |
| | 18:00 ~ 20:00 | | 懇親会 | | | 川崎市内 |
| 5/20(Sat) | ~ | | 自己研修 | | | |
| 5/21(Sun) | ~ | | 自己研修 | | | |
| | 9:30 ~ 10:00 | | 移動(ホテル⇒川崎市消防局) | | | タクシー |
| | 10:00 ~ 11:00 | M | 消防指令センター視察 移動(川崎市消防局⇒インフォマティクス) | 川崎市消防局警防部指令課 | Japanese (interpreter) | 川崎市消防局 |
| | 11:30 ~ 13:00 | | 昼食 | | | |
| 5/22(Mon) | 13:00 ~ 13:45 | L | GISアプリケーションに関する講義 | (株)インフォマティクス | English | |
| - () | 13:45 ~ 14:00 | | 休憩 | | | |
| | 14:00 ~ 14:30 | L | GIS関連技術-インフラ管理 | (株)インフォマティクス | English | インフォマティクス 本社 |
| | 14:30 ~ 15:00 | L | GIS関連技術-ARソリューション | (株)インフォマティクス | English | , ,== |
| | 14:10 ~ 16:00 | P | 研修についての意見交換 | | English | |
| | 8:00 ~ | | 移動(大森⇒川崎) | (株)インフォマティクス | | 貸し切りバス |
| | 8:30 ~ | | 移動(川崎⇒横浜市民防災センター) | (株)インフォマティクス | | 貸し切りバス |
| 5/23(Tue) | 9:45 ~ 10:50 | L | 9:45 歓迎セレモニー 10:00 横浜市消防局副局長の挨拶 10:05 エスピノ知事の挨拶 10:10 集合写真撮影 10:15 講義 (横浜市消防局企画課) -消防局について -消防システムの紹介 -消防システムにおけるGIS機能について Q&A | 横浜市消防局/横浜市民防災センター | | 横浜市民防災セン ター |
| | 11:00 ~ 12:00 | M | 横浜市民防災センター視察 | 横浜市消防局/横浜市民防災センター | | 横浜市民防災セン ター |
| | 12:20 ~ 14:00 | | 移動(横浜市民防災センター⇒成田空港) | (株)インフォマティクス | | 貸し切りバス |
| | 17:20 ~ 20:55 | | 移動(成田空港⇒マニラ空港) | | | NH819 |
| | | | L= Lecture' M= Mission Trip P= Presentation G= Greeting | *1 Hotel METS Kawasaki 72-2 Horikawa-cho Saiwai-ku, Kawasaki, Kanagawa 212-0013 +81-44-540-1100 Breakfast included | | |
| | | | | *2 HOTEL MYSTAYS PREMIER Omori 6-19-3 Minami Oi, Shinagawa-ku, Tokyo 140-0013 Japan +81-3-3766-7001 | | |
| | | | | Informatix Office TEL | | |



PROGRAMME

| 1:00 - 1:30 | Registration | |
|----------------------|--|---|
| 1:30 - 1:35 | Invocation | |
| 1:85 - 1:45 | National Anthems of Philippines & Japan | |
| 1:45 - 1:55 | Welcome Remarks and Acknowledgement of Participants | Ms. Mg. Corgaon M. Akol President, PhilNITS |
| 1:55 - 2:15 | Message from informatik Chairman | Mr. Masanori Nagoshima Chahman, intermatik inc. |
| 2:15 - 2:30 | Message from JISA | Ms. Ayumu Chehima Senier Representative, JICA |
| 2:30 - 3:00 | introduction on Informatix & CTII's Role in Pangasinan DRRM Project | Mr. Nedicki ishibashi Managar, Intomaliz, Inc. |
| | | Mr. Toshiro Colo Ceneral Managar, Cili |
| 8:00 = 8:11 <i>5</i> | Presentation on Pangastnan's DRBM Project | Col. Rhodyn Luchinver Oro PDRM Officer Office of the Covernor |
| 8116 - 8 <u>2</u> 0 | infroduction of the Guest of Honor | |
| 3:20 - 3:35 | Guest Speaker | Gen. Hiseo M. Nio, Jr. Usec. for Special Geneems DIST |
| 8 : 35 • 4:15 | Wessage from OCD | Mr. Kelvin Oliceio OIC. ICI Division Olice of the Civil Delense |
| 4:15 - 4:30 | Question and Answer | |
| 4:30 - 4:45 | Closing Remarks | Mr. Peier D. Que, Ir. Vise fracideni, Philinis |



Provincial Disaster Risk Reduction and Management Council Pangasinan State Government

Summary Report

Republic of the Philippines

Verification Survey with the Private Sector for Disseminating Japanese Technologies for Integrated Geographic Information System (Integrated GIS) for Improvement of Regional Disaster Risk Reduction and Management

October 2017

Japan International Cooperation Agency

Informatix Incorporated

Verification Survey with the Private Sector for Disseminating Japanese Technologies for Integrated Geographic Information System (Integrated GIS) for Improvement of Regional Disaster Risk Reduction and Management

Summary Report

| | able of Contentscronyms and Abbreviations | |
|----|---|----|
| 1. | BACKGROUND | 1 |
| 2. | OUTLINE OF VERIFICATION AND DISSEMINATION | 2 |
| | (1) Purpose | 2 |
| | (2) Activities | 2 |
| | (3) Information of Product/ Technology to be Provided | 3 |
| | (4) Counterpart Organization | 3 |
| | (5) Target Area and Beneficiaries | 3 |
| | (6) Duration | 3 |
| | (7) Progress Schedule | 3 |
| | (8) Implementation System | 4 |
| 3. | ACHIEVEMENT OF THE SURVEY | 5 |
| | (1) Outputs and Outcomes of the Survey | 5 |
| | (2) Self-reliant and Continual Activities to be Conducted by Counterpart Organization | 9 |
| 4. | FUTURE PROSPECTS | 9 |
| | (1) Impact and Effect on the Concerned Development Issues through Business Development Technology in the Surveyed Country | |
| | (2) Lessons Learned and Recommendation through the Survey | 10 |

ATTACHMENT: OUTLINE OF THE SURVEY

Acronyms and Abbreviations

APEC: Asia-Pacific Economic Cooperation

CP: Counter Part

DICT: Department of Information and Communications Technology

DILG: Department of the Interior and Local Government

DOST: The Department of Science and Technology

DRRM: Disaster Risk Reduction and Management

GDP: Gross Domestic Product

GIS: Geographic Information System GOP: Government of the Philippines

JICA: Japan International Cooperation Agency

LGU: Local Government Unit

NAMRIA: National Mapping and Resource Information Authority NDRRMP: National Disaster Risk Reduction and Management Plan

O&M : Operation and Maintenance

OCD: Office of Civil Defense

ODA: Official Development Assistance

PAGASA: Philippine Atmospheric Geophysical and Astronomical Services Administration

PC: Personal Computer

PDP: Philippine Development Plan

PDRRMO: Provincial Disaster Risk Reduction and Management Office

PhilNITS: The Philippine National I.T. Standards Foundation, Inc.

RA10121: Disaster Risk Reduction and Management Act

1. BACKGROUND

Although the economic situation in the Philippines has been in a long-term slump since the 1960s to the 1990s, the growth rate of gross domestic product (GDP) has reached more than 6% in recent years, and economic growth is becoming more sustainable. Therefore, the economic growth rate since 2012 is higher in the ASEAN major countries. The Government of the Philippines has also developed projects for disaster risk reduction and management (DRRM) based on the policies stated in the medium-term development plan (PDP 2011-2016), and it has been increasing the budget for infrastructure development to solidify further economic growth. Recently, the Government of the Philippines (GOP) has established the Disaster Risk Reduction and Management Act (RA10121), which obliges the formulation of the National Disaster Risk Reduction and Management Plan (NDRRMP) in 2010, that contributed to share the information of their restoration and reconstruction experience from the Yolanda typhoon disaster or Sendai disaster prevention framework in APEC.

Also, in order to improve the disaster prevention level of the nation, the GOP has so far carried out the important activities such as legal and institutional arrangements, formulation of disaster reduction related plan, improvement of budget system and, capacity building of administrative agencies in the disaster prevention field. The disaster prevention related organizations are also supported by various donors, and the GOP's disaster risk reduction and management (DRRM) ability is steadily improving. To achieve the basic policy "Inclusive Growth" mentioned in the above PDP, it is considered that the GOP is adapting the policy and the legal system in DRRM sector, in order to cover the mutually influential factors of sustainable economic growth and improvement of the capability of DRRM.

However, it is difficult to say that the basic information sharing related to DRRM is enough between the relevant organizations from the viewpoint of accuracy and synchronization of information. In fact, there is still a strong sense of crisis against natural disasters from the viewpoints of damaged experience including many past typhoon damages in the target region after the formulation of PDP. The information that contributes to the evacuation activities in the event of disaster is stored in dissipate manner (although the data exists abundantly) and is not integrated or processed sufficiently for decision makings to response and command to related agencies.

In this circumstance, the Survey Team consisting of Informatix Inc., and the partners, was dispatched by Japan International Cooperation Agency (JICA) to conduct "the verification survey in the Province of Pangasinan, the Philippines concerning on the Informatix's Integrated Geographic Information System (GIS) products for Advancement of Regional Disaster Prevention (the Survey)" for about 20 months from the day of signing the contract between Informatix Inc. and JICA. JICA supervises the overall implementation of the Survey and own the products, equipment, and their incidental facilities, prepared by the survey team for the purpose of implementation of the Survey during the project. The Survey is formulated based on a new project scheme 'Verification Survey with Private Sector for Disseminating Japanese Technologies, which aims to demonstrate that Japanese technologies are highly effective in improving specific development challenges in the developing countries through actual installation and operation of products related to the technologies.

2. OUTLINE OF VERIFICATION AND DISSEMINATION

(1) Purpose

The overall goal of the Survey is to mitigate and minimize disaster damage in the Pangasinan Province as a result of capacity enhancement of CP LGUs on disaster management, by means of the information sharing regarding disaster prevention through the Integrated Geographical Information System (herein after referred to as "the GeoCloud Integrated GIS").

The Survey purpose is listed as follows:

- > To study framework in which DRRM information is shared mutually and rapidly at the time of disaster.
- > To craft DRRM information database using Integrated GIS in Province of Pangasinan and 3 LGUs in sustainable manners.
- To evaluate Integrated GIS by implementation of workshops on DRRM in which LGU officials (of Disaster Risk Reduction and Management Council) attend for improvement of DRRM activities of LGUs.
- To develop the plan to disseminate the technology in the Philippines.

(2) Activities

Based on the purposes of the Survey, the following activities is set and implemented:

(a) Activity-1: Discussion and examination for information sharing regarding disaster risk reduction between CP LGUs and the Central Government

- > Explanation of outline of the Survey to Central Government
- Arrangement and management for information sharing meetings between CP LGUs and the Central Government
- ➤ Investigation for information to disaster risk reduction and management, relevant system, laws and policies.
- Examination of the information sharing mechanism and methodology

(b) Activity-2: Introduction and operation of the GeoCloud Integrated GIS in the Province of Pangasinan

- ➤ Implementation of preliminary survey
- > Formulation of specification of the GeoCloud Integrated GIS and procurement of materials
- ➤ Modification works of the GeoCloud Integrated GIS
- > Trainings on operation of the GeoCloud Integrated GIS for the development partner company(PhilNITS)
- > Preparation for introduction of the GeoCloud Integrated GIS
- > Trainings on operation of the GeoCloud Integrated GIS for CP LGUs
- ➤ Installation and setting-up of hardware of the GeoCloud Integrated GIS
- > Setup and provisional operation of a prototype system
- ➤ Introduction and operation of the GeoCloud Integrated GIS
- ➤ Formulation of operational structure/system

(c) Activity-3: Implementation of workshops in the Province of Pangasinan

- > Preparation of workshops
- > Implementation of workshops for verification of the GeoCloud Integrated GIS
- > Evaluation of the GeoCloud Integrated GIS based on the results of workshops

(d) Activity-4: Formulation of Business Plan for the dissemination of GeoCloud Integrated GIS

- ➤ Information collection for developing a business
- ➤ Implementation of seminars and observation tours
- > Implementation of study tours in Japan
- Examination and Proposition for the dissemination of the GeoCloud Integrated GIS as a part of disaster risk reduction and management system in the Philippines
- > Establishment of a plan to develop the business

(3) Information of Product/ Technology to be Provided

The provided products and technology in the Survey are as follows:

(a) Hardware

- Main servers in the Pangasinan Province with GeoCloud System
- > Terminal PCs in the 3 LGUs to access and operate GIS system
- > Surrounding Equipment (network system, Wi-Fi system, printers and scanners)
- Five (5) Radio Communication System for data transmissions between the LGUs

(b) Software:

- ➤ GeoCloud Integrated GIS
- Manuals and Guidelines for O&M of the GeoCloud Integrated System
- > Training Manuals

(4) Counterpart Organization

The counterpart organization are the Pangasinan Province, one (1) city (Dagupan city) and two (2) towns (Binmaley and Lingayen towns) in the Province of Pangasinan.

(5) Target Area and Beneficiaries

Target areas are one (1) city (Dagupan city) and two (2) towns (Binmaley and Lingayen towns) in the Province of Pangasinan. Beneficiaries are all the residentiary of those areas.

(6) Duration

The Survey is implemented for about 22 months from March 2016 to December 2017.

(7) Progress Schedule

All of the activities are completed in the October 2017 including the donation of equipment and

systems, and the Survey will be terminated in December 2017.

(8) Implementation System

The implementation system of the Survey as organized at the beginning of the Survey is shown in the Figure 1.

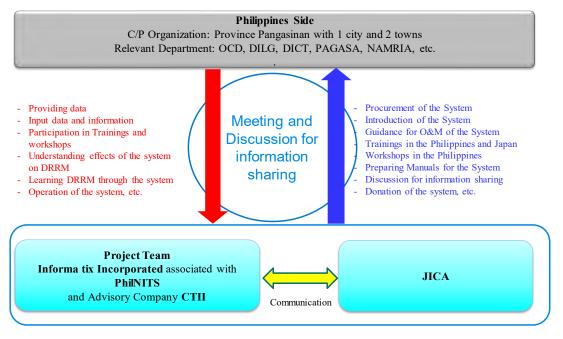


Figure 1 Implementation System of the Survey

3. ACHIEVEMENT OF THE SURVEY

- (1) Outputs and Outcomes of the Survey
 - (a) Activity 1: To study the method to share meteorological and disaster prevention information between governmental organizations and Province of Pangasinan

Activity Results

1-1: To discuss with governmental organizations, such as Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA) and Office of Civil Defense (OCD), to construct the framework to support the Survey.

The outline of the Survey was explained for the line ministries of DRRM such as PAGASA, OCD, DILG, NAMRIA, DICT in Manila on early April 2016.

1-2: To hold meetings with governmental organizations, the Provincial Government of Pangasinan and 3 LGUs to share meteorological and DRRM related information.

The first steering committee was held on July 2016 for explanation of the role of the meeting and the outline of the Survey. The second steering committee was held on November 2016 for updating the progress of the Survey and discussion about information sharing in the Philippines. The third steering committee was held on February 2017 for the explanation of the installation situation of hardware and software, operation situation of GeoCloud, the progress of the Survey and Japan visit. The forth steering committee was held on July 2017 for the explanation of the progress, training in Japan and Philippines, workshop contents and evaluation, LGU's activities and discussion.

1-3: To research on existing DRRM information and systems of governmental organizations.

The Survey was conducted for the condition and activities of DRRM information in each organization by interviewing to PAGASA, OCD, DILG, DICT, NAMRIA and urban LGUs (Pasig city and Marikina city) after October 2016.

1-4: To study information categories to be shared and the method to share between governmental organizations and Province of Pangasinan.

The information sharing method was surveyed considering the technical information from the activity 1-2/1-3, and conditions such as limitation and range of utilization.

Achievement and Summary

The roles/function of the related organizations and necessary information to conduct activities of DRRM were revealed through series of discussions and meetings, which were held with CP organizations and the relevant central governments such as PAGASA, OCD, DILG, NAMRIA and DICT. As a result of the discussions and meetings, the related organizations understood the aims and the effects of the Survey from the aspect of contributions to DRRM, and the information was shared among them, in order to establish the GeoCloud Integrated GIS for the Province of Pangasinan.





Figure 2 Information Sharing Meetings (Left: First Meeting, Right: Forth Meeting)

(b) Activity 2: Introduction and operation of Integrated GIS for Province of Pangasinan

Activity Results

2-1: To implement a preparatory survey.

From the beginning of the Survey, preparation was conducted in Japan and the team meeting was held for confirmation of the role of persons in charge, and schedule of installation. Then, the Survey contents were announced to concerned persons and the activities were started.

2-2: To design the detailed specifications of Integrated GIS and hardware.

There was not a big change of hardware configuration as planned at the beginning. At the time of procurement, a standard high-performance type of equipment was selected.

2-3: To customize the system following the specifications in Japan.

There was not a big change of hardware configuration as planned at the beginning. At the time of procurement, a standard high-performance type of equipment was selected, following the specifications in Japan.

2-4: To hold a training session for engineers of the local partner.

The training for engineers of the local partner was conducted for three weeks. Although, the training was planned for one week at the beginning. This comprised of two parts; the basic training and the development training, which contributes to enhance the effectiveness and earlier capacity building for development.

2-5: To implement preparatory works for system installation in the Philippines.

The basic data which LGUs need was developed by PhilNITS GC operators who have capacity to develop GeoCloud data.

2-6: To hold training sessions for LGU officials in charge of the project.

The training for LGU officials in charge was conducted for developing capacity to operate and utilize GeoCloud GIS System. It was subcontracted to PhilNITS.

2-7: To install and setup hardware.

The setup work such as software/hardware installation and operation confirmation was subcontracted to PhilNITS and conducted for utilizing the procured hardware.

2-8: To install and test Integrated GIS.

The provisional operation period was set for one month using proto version for test and training before full operation of Integrated GIS. After that, connection and operation of all terminal equipment was confirmed.

2-9: To start full operation of Integrated GIS.

Through the activities of "2-6: To hold training sessions for LGU officials in charge of the project" and "2-8: To install and test Integrated GIS", the environment for starting the operation was prepared.

2-10: To establish operation and support structures of Integrated GIS.

Through "Activity 3: Implementation of workshops in the Province of Pangasinan", the operation structure was clarified. For the smooth operation by LGUs and assistance of system operation during the Survey, the support desk was established and started the support services such as response of questions about operation and bug report.

Achievement and Summary

The main server of GeoCloud Integrated GIS was completely installed in the PDRRMO of Pangasinan Province and terminal PCs with surrounding equipment in the target LGUs. The specification of system was set based on results of investigations as to the present conditions of (i) DRRM in the LGUs, (ii) existing and necessary information and (iii) existing data transmission system.





Figure 3 Introduced System (Left: Radio Communication System, Mid: Terminal PC with access silences, Right: Server Setup with GeoCloud GIS System)

During the Survey, the knowledge and skills to operate the system were enhanced through series of trainings and study tours, which were conducted twice in Japan by the Survey Team. In addition, training and operation manuals in English are provided to CP organization as a reference to effectively operate the system in consideration of sustainability of self-system operation. As of October 2017, the system and equipment are donated to CP organization and being well operated by them after the donation.



Figure 4 Trainings on Operation of the GeoCloud Integrated GIS for CP

(c) Activity 3: Implementation of workshops in the Province of Pangasinan

Activity Results

3-1: To prepare design and plan of workshops together with/ based upon consultation with the Provincial Government and 3 LGUs.

Preparation work for workshop to evaluate the effectiveness of GeoCloud Integrated GIS was conducted considering flood situation and local DRRM structure. After the consultation with the JICA expert, the training concept was arranged to have workshops, focusing on preparedness of DRRM activities which is appropriate for evaluation of the effectiveness of GeoCloud Integrated GIS.

3-2: To conduct workshops together with the Provincial Government and 3 LGUs.

The first workshop was held on October 2016 for data collection/preparation and understanding of data utilization for the activities on DRRM. The second workshop was held on February 2017 for studying utilization for DRRM by creating disaster risk graphs to evaluate the effectiveness of the Integrated GIS on DRRM. The third workshop was held on June 2017 for creating flood hazard map to evaluate the effectiveness of the Integrated GIS on DRRM.

3-3: To evaluate the effectiveness of Integrated GIS based upon the outcome of workshops activities.

The evaluation of the effectiveness of Integrated GIS was conducted based upon the evaluation indicators for DRRM and System which was set during workshop preparation.

Achievement and Summary

To evaluate and verify the introduced system, the workshops were systematically conducted three times in the Philippines for the purpose of (i) data collection/preparation and understanding of data utilization for the activities on DRRM, (ii) establishment of disaster risk graphs, (iii) elaboration of flood hazard map in consideration of conditions of refugee. Especially, workshops of (ii) and (iii) were conducted and outputs (see Figure 5) are made by CP through operating the GeoCloud Integrated System.

The products in the workshops and CP's enough operation capacity proved the contribution of the introduced system for activities on disaster preparedness. This success has mainly been brought by the activities of capacity enhancement during the Survey, and powerful and friendly operation function/system of the GeoCloud Integrated GIS.

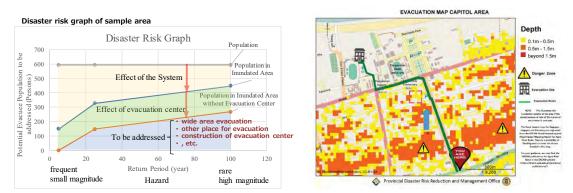


Figure 5 Outputs of Workshops (Left: Disaster Risk Graph, Right: Flood Hazard Map)

(d) Activity 4: To make a plan to disseminate Integrated GIS into all over the Philippines

Activity Results

4-1: To study for dissemination of Integrated GIS.

The study to ensure future dissemination of Integrated GIS was conducted considering the issues for dissemination clarified in "Activity 3: Implementation of workshops in the Province of Pangasinan".

4-2: To hold seminars and exhibitions with the cooperation of the Province of Pangasinan.

The seminar was held on August 2017 in order to introduce the Survey contents and results to line ministries and LGUs as a part of the dissemination activity of Integrated GIS.

4-3: To implement the study session in Japan.

The first Japan visit was conducted on November 2016 for LGU and line ministry officials in charge. Main objective was to learn the situation of Integrated GIS, data sharing among DRRM departments and data management of other departments, by visiting the local government which has Integrated GIS for contribution to a smooth operation start of Integrated GIS. The second Japan visit was conducted on May 2017 for decision makers such as the provincial governor and mayors, because it contributes to dissemination of Integrated GIS by understanding the situation of introduction of Integrated GIS in Japan and exchange of opinions.

4-4: To make a brief proposal for dissemination of the system for disaster prevention and its measures in the Philippines.

The dissemination concept of the system was studied with analysis about relevance and effectiveness of the dissemination of the system after workshops and interview to line ministries.

4-5: To make a future plan for dissemination of the Integrated GIS in the Philippines.

Based on the activity 4-4, the future activities and plan in the Philippines were formulated.

Achievement and Summary

Based on (i) the verification results of the introduced system as mentioned item (c), (ii) a research of market environment by 3C analysis and (iii) the level of potential capacity of local government staff to adapt to the System, a business plan was formulated to disseminate the GeoCloud Integrated GIS in governmental organizations in the Philippines in order to improve the condition of DRRM. In the Survey, the verification of the System was carried out from the viewpoint of disaster preparedness; however, the System was applied by Informatix Incorporated for the activities on other stages of DRRM such as response and rehabilitation in Japan.

Moreover, the System has a possibility to be applied for other business field such as asset management, land use management and traffic management etc. in accordance with the concept of i-government in the Philippines.

(2) Self-reliant and Continual Activities to be Conducted by Counterpart Organization

To keep sustainability on the O&M of the GeoCloud Integrated GIS by CP themselves, the Survey Team prepared tools and a scheme to support CP (particularly, LGUs) in order to smoothly conduct O&M of the System as follows:

- > Training and operation manuals and guidelines in English were ready for users
- Technical transfer to the business partner (PhilNITS in the Philippines) from Informatix Incorporated successfully finished. After the contract between them, the business partner will support for not only operation but also maintenance and expansion of the System.
- According to the result of the interviews with the participating staff of LGUs, it was recognized that the System has friendly and visually arranged function to input, modify and analyze the information for the staffs of LGUs.
- ➤ The installation fee and cost of maintenance are kept in reasonable conditions compared with the DRRM budget of Provinces and LGUs.

4. FUTURE PROSPECTS

(1) Impact and Effect on the Concerned Development Issues through Business Development of the Product/ Technology in the Surveyed Country

The target country has suffered from natural disasters such as typhoon, severe storm, floods, landslide, etc. Normally, the risk of those disasters is analyzed based on the hazard degree, the vulnerability of people/assets and DRRM system, and the exposure condition in the target area. In this context, the products and technology transferred to CP organizations in this Survey will contribute to future reduction of vulnerability of the whole LGUs in their implementation capacity of DRRM, if the product will spread to other LGUs.

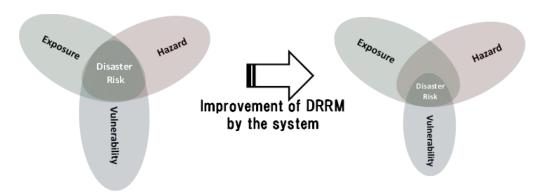


Figure 5 Impact and Effect on the Risk of Disasters in the Philippines

For example, during the Survey, quick impacts were happened in CP LGUs. The CP conducted making wide-areas road maps to clarify the vulnerable area to flood inundation and pasted the modified flood hazard maps on the news boards in the city and towns. As just described, the reduction of vulnerability by LGUs was immediately started after the completion of installation of the product and technical transfer for the operation of the System in the Survey.

(2) Lessons Learned and Recommendation through the Survey

(a) Lessons and Learnings

(i) Importance of Local Business Partner

The local business partner has covered and supported the activities of the Survey during the absence of Informatix Incorporated in the Philippines, particularly, in case of necessity of urgent negotiations and discussions, which often happen with sub-contractors to change design or spec-conditions, in order to procure and install the equipment and system on time as well as conduct inventory management for spare parts in the Philippines. Based on this experience, the Survey Team realized the importance of the local business partner to realize the formulated business plan.

(ii) Significance of Supports by In-house Staff

To promote and conduct a number of activities in the Survey on schedule, supports and assists by in-house engineer and administrative staff were essential and very effective. As a result of this experience, it can be said that the supportive structure should be established when the dissemination of the System starts in the Philippines based on the formulated business plan.

(iii) Effectiveness of Assistance by Consultant

Through the Survey, it is realized that the development consultant are conversant with the technical and administrative terminology, schemes of ODA project, mechanism and procedure of ODA projects very well, so that Informatix Incorporated can attain the goal and outputs of the Survey on schedule. In addition, it can be said that the consultants will effectively collaborate to promote the implementation of the formulated business plan

(b) Recommendation

The DRRM projects are largely divided into two portion such as structural measures (hard components) and non-structural measures (soft components). The introduced system is categorized into the non-structural measures and its cost and installation time are less than the structural measures. In the Sendai disaster prevention framework, the disaster risk reduction and mitigation by the non-structural measures are also recognized as an important method, with quick impact on the mitigation of disaster damage. In this context, it is recommended to incorporate the introduced

system (the GeoCloud Integrated GIS) with technical transfer into the ODA and DRRM projects as one of non-structural measures to reduce and mitigate the future risk and damage by disasters.

Attachment

The Philippines

Verification Survey with the Private Sector for Disseminating Japanese technologies for Integrated Geographic Information System (Integrated GIS) for Improvement of Regional Disaster Risk Reduction and Management

Informatix Inc., Kanagawa, Japan

Concerned Development Issues in the Philippines

- Upgrade of bases for disaster risk reduction and management (DRRM) in participating LGUs.
- Upgrade of response capability in sharing DRRM information among LGUs, evacuation and the instructions.

Implemented Activities in the Survey

- To construct DRRM information database on Integrated GIS, and to train officials for updating data and the maintenance.
- To study the method and contents of information for sharing with related governmental organizations.
- Implementation of Disaster Imagination Games for officials.

Proposed Products/Technologies



Products/ Technologies
GeoCloud Integrated GIS
(Geographic Information System)
- The technology to collect and link
map information owned at
multiple sections and organizations.

- Realization of information sharing and its maintenance easily with low cost exploiting the technology of cloud computing.

Survey Overview

Name of Counterpart: The provincial government of Pangasinan Survey duration: Mar/2015 – Dec/2017 Survey Area: Province of Pangasinan, 1 city and 2 municipalities.

Impact on the Concerned Development Issues in the Philippines

- Establishment of the framework in which DRRM information is shared mutually and rapidly, complying related policies of central governmental organizations.
- LGUs' communication and response ability for disaster risk reduction and management is strengthened.

Outputs and Outcomes of the Survey

Current

- GC Integrated GIS is used in lots of public institutions, but only in Japan.

 Under & Post Project
- ➤ Practical use of the Integrated GIS other than DRRM matters, such as city planning and assets valuation.
- Pangasinan will be known as a model of practical use of Integrated GIS for DRRM, and it helps to disseminate the framework all over the Philippines.