#### 4.2 Presentation Materials

#### (a) Mr. Otim Bong



### TOPICS OUTLINE

- MTR Policy and Vision
- Existing Transport modes in Southern Sudan
- Specific Objectives of MTR in Transport Sector
- Institutional Framework
- Road Transport Infrastructure Projects
- Road Traffic Management
- Proposed Rail Transport Infrastructure Projects
- Proposed Air Transport Infrastructure Projects
- Challenges in the Development of Transport Infrastructure
- Closing Remarks

## MTR POLICY AND VISION

#### The overall policy of MTR is to:

- link Southern Sudan to the Neighbouring Countries (Ethiopia, Kenya, Uganda, CAR, DRC)
- link Southern Sudan to Northern Sudan (Peace link Road)
- create Interstate linkages
- link Productive areas to the markets in Southern Sudan (e.g. linking production areas to Juba)
- improve urban transport INFRASTRUCTURE in Juba and other States' capitals

#### The vision of MTR is to:

"Develop and improve transportation for a prosperous Southern Sudan".

#### EXISTING MODES OF TRANSPORT IN SOUTHERN SUDAN

- · Road Transport (presently the dominant mode of transport)
- Air Transport (Operational, both internally and internationally)
- River Transport (Operational but requires improvement in navigational and construction of ports and port handling facilities)
- Rail Transport (Wau Babanusa as the only link; hampered due to lack of maintenance)

#### SPECIFIC OBJECTIVES OF MTR IN THE TRANSPORT SECTOR

- Maintain, rehabilitate, improve and construct roads in order to ensure improved accessibility and minimize road transport costs,
- Develop railway transport sub-sector to provide efficient, reliable, safe and secure railway transport services that are integrated with road, water and air transport services for transportation of goods and passengers on a sustainable basis
- Establish appropriate standards for road design and construction,
- Preserve the road investment through sustainable maintenance management of the road network and enforce axie load control,
- To provide efficient, safe, secure, reliable, affordable and fully integrated aviation infrastructure and services that meet the needs of local, regional and international passenger and freight transport to achieve national development objectives in an economical and environmentally sustainable manner.

#### SPECIFIC OBJECTIVES OF MTR IN THE TRANSPORT SECTOR CONT...

- Improve accessibility in the rural areas with emphasis on feeder roads, leading to productive areas and
- Establish an inland water navigation authority that will be responsible for the development of infrastructure, navigation aids, registration and regulation of vessels.
- Ensure that environmental and safety concerns are adequately addressed in the design, rehabilitation and maintenance of roads.
- Establish appropriate road institutions that includes roads agencies and roads board.
- Eract legislation and regulation for the inland water river transport in Southern Sudan that is in harmony with the regional and international regulations on inland water transport;

#### INTITUTIONAL FRAMEWORK

Relationship between the Ministry of Transport and Roads-GOSS and the State Ministry of Physical Infrastructure is in the following areas:

- Training of Road Supervisors and local contractors
- · Financial Support for Road Maintenance and internal roads within the State capitals
- + Sharing of Technical Information
- · Establishment of Southern Sudan Road Authority-Provide advice on Road Construction and on contract administration. States may set up their Road Authorities in future.

#### ROAD TRANSPORT INFRASTRUCTURE PROJECTS

#### Roads under MTR/MTDF/USAID

- Nimule Juba road. (Contractor on the ground. Initials works of . bridge repair and road maintenance have com ced).
- Nadapal Juba ( to be paved) Consultant hired to carry out the study and design work. Completion, June, 09. Construction starts late 2009
- Kaya Yei Juba (to be paved) Consultant hired to carry the study and the design work. Completion, September, 09. Construction starts early 2010.
- 7,000 km Rural Access roads (Consultants hired and work on progress)

#### TRANSPORT INFRASTRUCTURE PROJECTS

#### President's Projects

- 20 KM Juba Ring Road (to be paved) ongoing
- Rumbek Yirol Shambe (to be paved)
- Rumbek Maper Bentiu (to be graveled)
- Rumbek Airport (to be paved)
- Rehabilitation of Shambe port.

#### PROPOSED ROAD PROJECTS UNDER MTR-GoSS 2009/11

- Juba Mundri Mvolo Rumbek Tonj -3 Wau Road (Upgrading to bituminous standard)
- Rumbek Mayendit Bentiu Road (Improve gravel standard)
- Bor-Mabior-Malakal Renk Kosti (upgrading to bituminous standard)
- Wau Aweil Road (Upgrading to bituminous standard)
- Narus Boma Raad (Upgrading to bituminous standard)

#### ONGOING REHABILITATION AND **CONSTRUCTION OF ROADS UNDER MTR -**GoSS

The ongoing rehabilitation and construction of roads in Southern Sudan under MTR- GoSS are the following;

- Juba Terekeka Awerial Yirol Leer Road Wasi Deim Zubeir Raga Road
- ģ
  - Bor Pibor Pochalla Road Ayod Waat Akobo Road Myolo Aluakluak Road
  - Wau Luonyaker Liethnom Road
- 0
- Wau Luonyaker Liethnom Roa Wau Warrap Road Tonj Thiet Luonyaker Road Lainya Jambo Road Juba Lobonok Moli Road Maridi Yambio Tombura Road
- Rumbek Maper Mayendit Road

## ROAD TRAFFIC MANAGEMENT Registration of motor vehicles · New number plates · New logbooks and stickers · Licensing of motor vehicles and drivers New road liceoses; New driving licenses Installation of motor vehicle inspection facility in GoSS and States

#### PROPOSED RAIL TRANSPORT INFRASTRUCTURE PROJECTS

- Railway link from Juba to Lamu (KENYA/SOUTHERN SUDAN/UGANDA)
- Railway link from Juba to Gulu (SOUTHERN SUDAN/UGANDA) and Juba to Wau where there is existing rail line.
- + Juba Yei Pakwach (SOUTHERN SUDAN/UGANDA)
- Rehabilitation of railway line between Babanusa and Wau, a distance of about 450km.
- · Maintenance of the existing railway stations
- Training of railway staff

#### PROPOSED AIR TRANSPORT INFRASTRUCTURE PROJECTS

The Government of Southern Sudan, Ministry of Transport and Roads has full authority to develop, operate and manage airports in Southern Sudan. The major airports amongst other airstrips include:

- Juba International Airport
- Malakai Airport
   Wau Airport

MTR plans to rehabilitate, install airport facilities and manage the following airstrips

- Awell - Yambio - Torit - Ecr - Rumbek

#### ONGOING IMPROVEMENTS AT THE AIRPORTS

- Juba International Airport
  - Construction of a new terminal building
  - Extension of the runway,
     Fencing of the airport
  - Period of the arport
     Purchase of new fire fighting equipment
  - Feasibility studies and design of a new hangar
  - Construction of new cargo centre
  - Purchase of security facilities, e.g. scanners
- Malakal Airport

   Training of airport management staff
- · Wau Airport
  - Ongoing feasibility studies and preliminary design to upgrade it to international standard
  - · Fencing of the airport

Kaya

Yei

.

Nada
 Juba

Nimule

#### PROPOSED RIVER TRANSPORT INFRASTRUCTURE PROJECTS

- Juba port (dredging & rehabilitation)
- Construction of boat building yard in Mongalla
- Dredging of River Nile
- Purchase of five new barges
- Construction of five major ports
  - Bor
    - Port Shambe
    - Adok
    - Malakal
  - Mongalla

#### WEIGHBRIDGES AND BARRIERS FOR AXLE LOAD CONTROL

}

Nadapal } Kenya border

Installation of 8 stationed weighbridges and 2 mobiles at :-

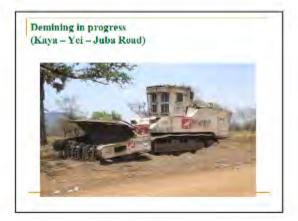
Uganda border tosete

#### CHALLENGES IN TRANSPORT INFRASTRUCTURE DEVELOPMENT

- No paved roads in Southern Sudan apart from few kilometers in Juba
- + Landmines on roads
- No established funding mechanism for roads, river navigation, air transport infrastructure and railway
- No established road inventory
- Low human capacity to man the operation of road, river, air and railway transport
- + No contractor & consultant capacity

## **CLOSING REMARKS**

The Government of Southern Sudan, Ministry of Transport and Roads support and cooperate with the States, the development partners and stakeholders to provide transport infrastructure and services to make a stronger economy for the people of Southern Sudan.

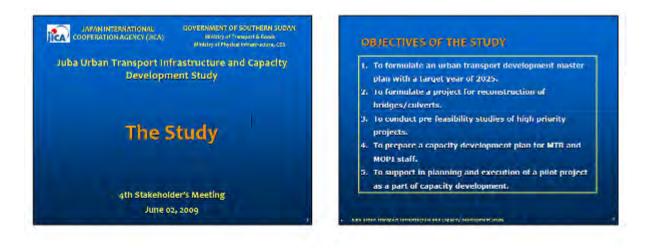


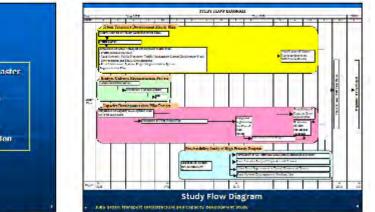






#### (b) Mr. Kunihiko Sawano



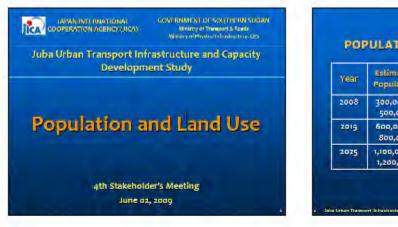


#### SCOPE OF THE STUDY

- Formulation of urban transport development master plan
- Formulation of bridges/culverts reconstruction project
- 3. Pre-teasibility studies of high priority projects
- 4. Capacity development thru pliot project execution

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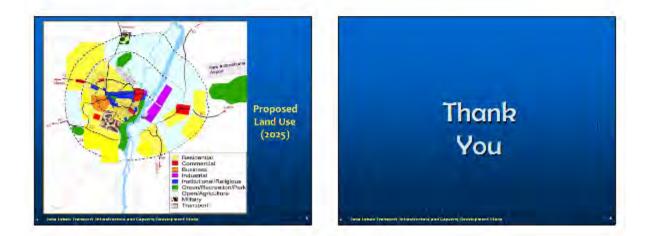
#### (c) Mr. Kunihiko Sawano



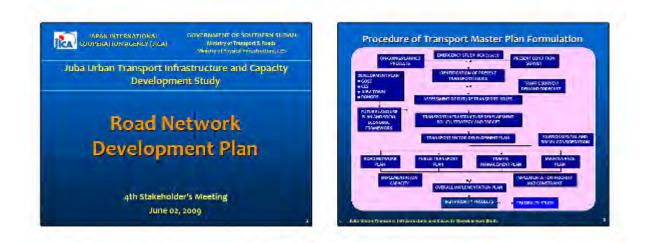
#### POPULATION AND LAND DEMANDS

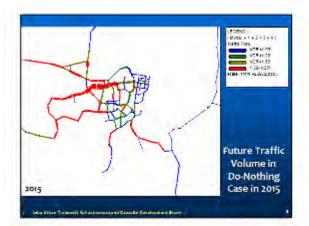
2008	300,000 - 500,000	4,070 ha
2015	600,000 - 800,000	7,700 ha (equivalent to the area surrounded by C-3)
1025	1,100,000 -	14,000 ha (equivalent to the area surrounded by C 4)

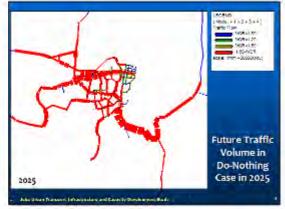




#### (d) Mr. Kunihiko Sawano







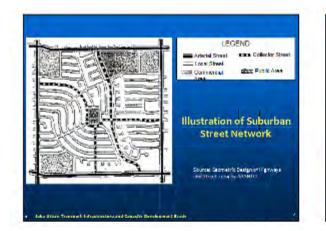
## PRINCIPLES IN FORMULATION OF ROAD NETWORK DEVELOPMENT PLAN

- NETWORK DEVELOPMENT PLAN Maximum utilization of existing roods as a part of new arterial/collector-streads as far as available > Single rand waingp and less sarad(environment-in inper) Formation of rood network inducing plemed orban development > Assistance of themelody and spaced private prevention of the of > Solid Tores are track needpace > Sound and trageted under development Development of hierarchical road network system, based on functional road clessification (arterial, collector & functional road clessification of road network = Officient road network = Officient road network > Maximum d the mobility and accessibility needs depending on areas International level of improvement = Attainment at the expected robe at hishs as the transpired briterin

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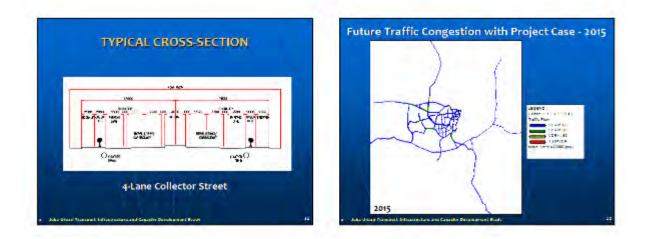
- Attainment of the expected tole of Jobs as the transport belief: the region.

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Collector	<ul> <li>Functions as local distributor within residential neighborhood and commercial and industrial areas.</li> </ul>
Local Street	<ul> <li>Provides direct land access with low level of mobility.</li> </ul>





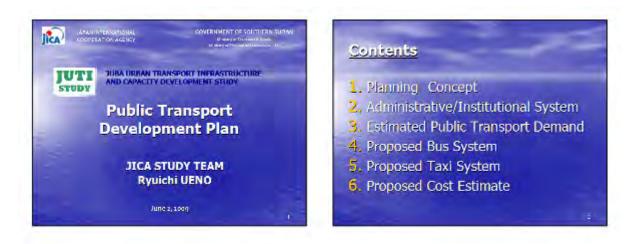








#### (e) Mr. Ryuichi Ueno



## 1. PLANNING CONCEPT

1.1 Problems in Present Public Transport

#### City Bus(1/3)

- Minivans are mainly operated as city bus in Juba.
- Although Directorate of Transport in CES has been responsible in controlling public transport within the state, this has not yet
- been implemented.
- Laws/regulations on license for operation buses are not established yet. Buses are presently operated arbitrarily.

#### 1.1 Problems in Present Public Transport

#### City Bus(2/3)

 Many minivans waiting for passengers are occupied along the road near market as most minivans wait until its seats become full.

## 1.1 Problems in Present Publi

- tv Bus(3/3) interview survey, bus passengers are not satisfied with " Air Quality" and "Noise Lovel". According to bus users
- They assessed "Improvement of regularity / punctuality" and "Improvement of accessibility to bus terminal"

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#### 1,1 Problems in Present Public Transport

#### (interstate/International Bus

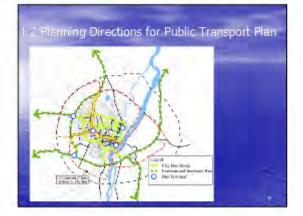
- Dependence of transport and safety, MTR has responsibility for interstate/international bus. Currently there is a temporary Interstate/international bus terminal near Custom Market, which has no building for waiting passengers and the terminals are not naved.
- naved
- If CES will provide the land for interstate/ international bus terminal, Department of transport and safety, MTR would like to construct a new bus terminal

#### 1.1 Problems in Present Public Transport

- Tax Services (Sedan & Bike) No Registration System
- No Responsible Organization in order to control the taxi service.
- Bike's traffic accidents are increasing due to many unlicensed drivers, bad manners and bad surface condition for bike.

#### 1.2 Planning Directions for Public Transport Plan

- Considering the introduction of a registration system and responsible organization in order to
- Solution and responsible organization in order to control the public transport. Considering the urban size and characteristics of existing transport facilities, the minivans shall be adopted as the main public transport mode in Juba. In the future, a new environmentally friendly public transport mode should be introduced as a trunk public transport system.
- Considering the role of the para-transit mode in a transport system, the existing para-transit modes such as bike-taxi should be converted mainly into feeder modes.





#### 2. ADMINISTRATIVE / INSTITUTIONAL. SYSTEM

East bligh ment of the Directorate of Public Transport, MTR – Public Transport Policy, Planning and Administration – Construction of Public Transport Facilities (Bus Stop/Terminal)

# Strengthening of the Directorate of Communication and Transportation, MOPI – Bus ,Taxl and Bike Taxl Registration/License – Bus Route Development, Bike Taxi Limited Zone

System

## 3. Estimated Public Transport Demand

#### (1) Existing Minivan Demand



Present Major Routes Juba town-Custom Juba town-Konyoko Juba town-Lologo Juha Jown-Malakia Juha town-Muniki

Custom-Gudele

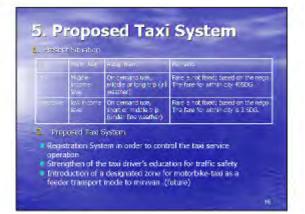
Custom-Muniki

Konyokonyo-Makakia

(Bus user's interview survey)













#### (f) Mr. Ryuichi Ueno





1. PLANNING CONCPT

### 1.2 Basic Direction of Traffic Management Measures

- 1. Measures of Traffic Engineering
  - . Improvement of junction and road section
  - 2. Installation of traffic signal
  - 3. Setting up traffic accidents data
- management system
- 2. Promotion of Traffic Education
- Strengthening of Traffic Enforcement.



## 2.Administrative/Institutional System

2.1 Reorganization of Existing Organization

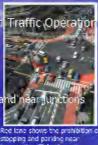
	Function
The Dimmonsteller Koad Transport and Safety, 2018	<ul> <li>Koad Transport Policy, Planning and Administration</li> <li>Traffic Management Installation of Traffic Safety Facilities</li> </ul>
The Directorate of Communication and Transportation, MOPI	<ul> <li>Road Safety Planning and Administration</li> <li>Installing the Traffic Safety Facilities</li> </ul>
Traffic Police	<ul> <li>Establishment of Education System for Traffic Police</li> <li>Traffic Rule Enforcement</li> </ul>

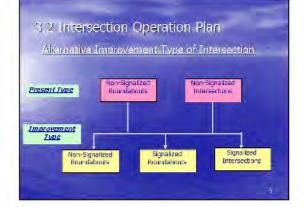


- Programs for sortioling speeching, alcohol and drugs related orientes, so well as evented no vertices should receive special therefore.
- Anomale the role of traffic efficers establish a traffic academy for relation of traffic efforts, set out career development apprentimes and establish favorable runal on of employment for useful efficiency.
  - Provide bolining, equipment and motortals for the police for otherwise of data un accelente.
  - Source; Strategic Plan for Read Sector (NTR) 2006

## **3.Traffic Engineering Measures**

- 3.1 Road Improvement and Traffic Operation
  - a. Pavement Marking
- b. Exclusive left turn lane
- Raised median
- d. Sidewalk and crosswalk
- e. Prohibition of Parking in a





#### 3.2 Intersection Operation Plan

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## 3.3 Parking Control in Central Commercial District

- Bisiti policy of parking control

   Any in a state control area as is identified by street should be going the log area is excluding of additional additions.
  - Souther the area will be accepted for residents, excepted agreeds to secure road width for public and e
- Parking Control by Enforcement – Profision at intersection Prohibition on the Arterial and Callect
- Elimination of On-street Parking – Introduction of on-street parking meter – Introduction of multi-storied car parking – Establishment of new building code



- 3.4 Other Traffic Management Plan
  1. Traffic Demand Management
  1. Introduction of New Parking Policies and Measures
  2. Shifting to Public Transport from Private Vehicles

- Restriction of the vehicles entering CCD Uniform Traffic Control Devices Preparation of Uniform Traffic Control Device Deployment Guidelines
- 2. Cooperative Efforts of Traffic Related Agen



## 4. Traffic Safety Education

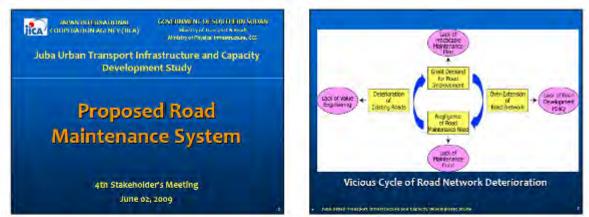
- 1. Introduction of a System for Traffic Accident Data and Analysis
- Implementation on Periodical Traffic Safety Campaign
- Traffic Safety Education for the Schoolchildren

## 5.Traffic Enforcement

- 1. Strengthening the Traffic Enforcement by the Traffic Police
  - Ignoring traffic rules
- Ignoring controls by traffic police at Junctions
- Illegal on-street stopping/parking at/near junctions, especially minivans and bike taxi



#### (g) Mr. Tsuneo Bekki

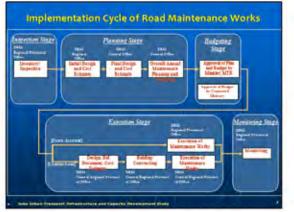


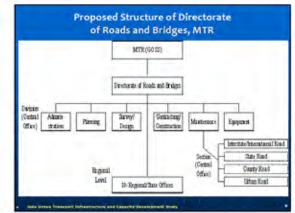
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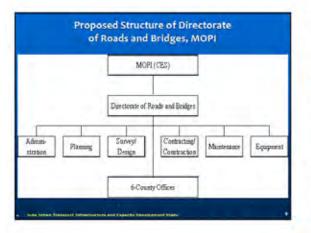
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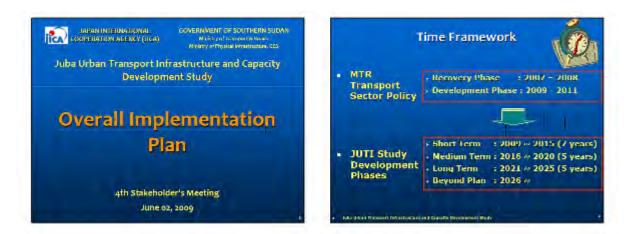


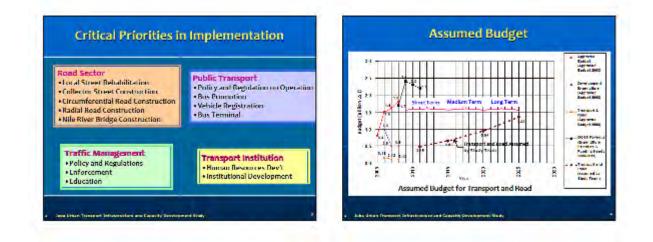


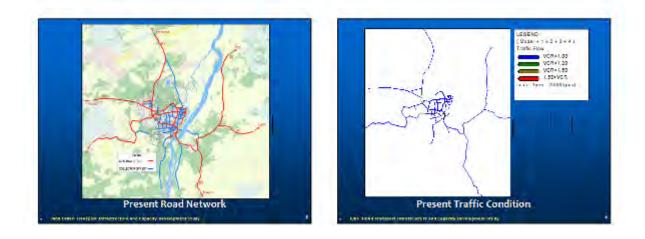




#### (h) Mr. Tsuneo Bekki



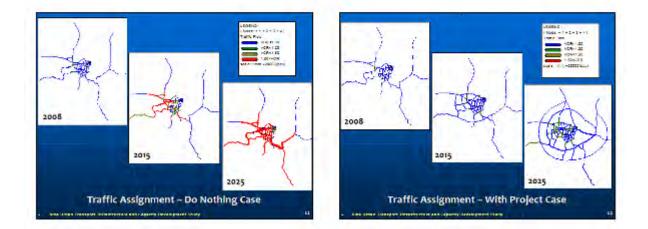








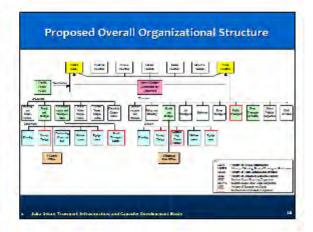


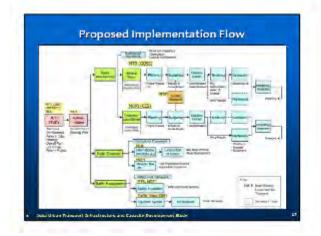


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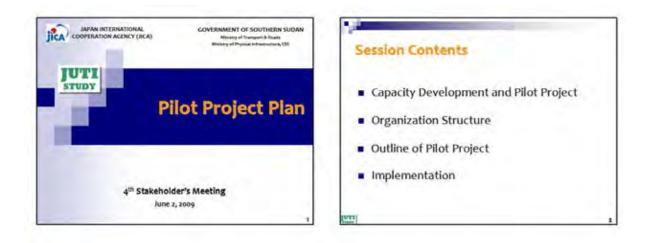
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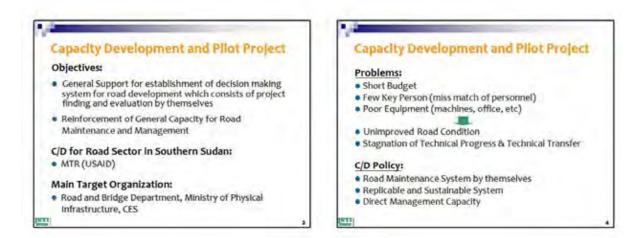


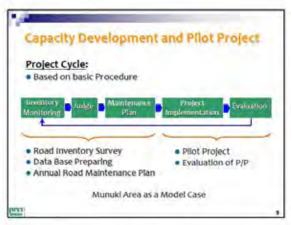




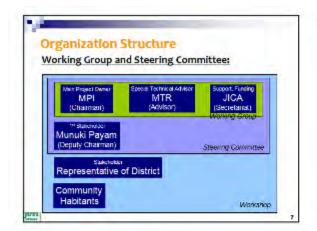
#### (i) Mr. Ysuhiro Yamauchi

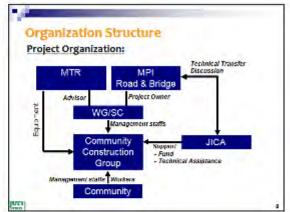


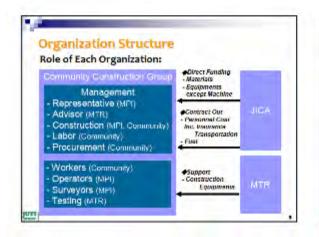


















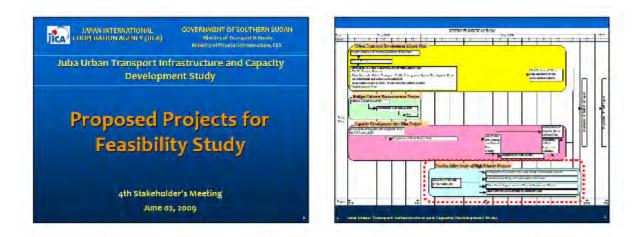


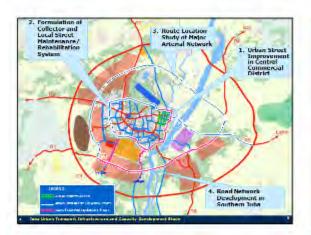


Implementation	Schedule:	ntatio	n				
On the Job Training (through the P/P):	Schedule:						
Quality Management	Items	5	6	7	8	9	10
<ul> <li>Schedule Management</li> </ul>	Preparation			1			
Output Management	Contract				1	1	
Meeting:	Construction					-	
Weekly Meeting	O.I Û	· · · · ·	-				1
Workshop for Community	Evaluation		-			-	
Training Discussion on site	Issues:						
Evaluation:	<ul> <li>Construct</li> </ul>	ion work	ks in Rai	ny Seaso	m		
<ul> <li>Evaluation Report from Construction Group</li> </ul>	Equipment	t Arrang	ement	1.00			



#### (j) Dr. Jovito Santos





#### Urban Street Improvement In Central Commercial District (CCD)

- Urgent need of CCD local streets rehabilitation/improvement : - OTD acativitation block functions as the center of
  - commercial, business and institutional activities. - The area suffers from heavy traffic congestion and severe
  - environment due to high traffic volume, improper layout of intersections, ineffective traffic management, alsence of sidewalk and drainage, disposal of wastes on roads, etc.
- The rehabilitation/improvement of local streets in CCD, located in the center of Inha, is expected to trigger the commercial, social, institutional activities of Juba as a whole.
- The project is expected to be used as a model case applicable to other arcsis.

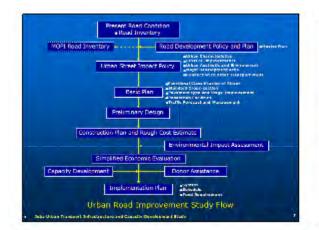
and Capatry Development Dates



#### Activities

- Konstruction plan
   Source to plan
- 4. Rough cost estimate
- 5. Pre-environmental impact assessment
- 6. Simplified economic evaluation
- 7. Preparation of implementation plan

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#### Activities

- Study on institution and organization for maintenance/rehabilitation system
- Equipment and materials procurement plan for maintenance/rehabilitation
- 3. Preparation of annual maintenance plan
- 4. Proposal for capacity development plan

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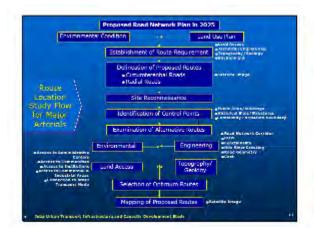
5. Preparation of rehabilitation project implementation plan including donor assistance



- There is no wood network plan in Julia as yet, except for the road notivork plan prepared in the previous study. "Emergency Study on the Planning and Support for Basic Physical and Social Infrastructure in Julia Town and the Surrounding Areas" in socy. Presently, a road network development meeter plan is helding increated under our Study. However, these plans are just correspond plans, not at levels showing the definite contex of component roads and giving the basis of actual construction work as is.
- It is executed to define the rankes and serves the right advacys for arterial ranks not only for the future formation of a decign flar, area but also for minimizing social and environmental problems and reducing the project costs.
- Therefore, it is urgently needed to define the notices of the circumferential and radial roads proposed in our Study, except for the reads with existing routes and C-9 which is considered to be constructed in the distant future.

#### Activities

- Establishment of schemes for route alignment including alternatives
- Comparative analysis of schemes and selection of the best scheme
- Preparation of plan showing the selected route alignment on Satellite Images





- Introduces expanding regularly with the reason is population due to refugees/UPP neturning and migrating from rural areas making it or argent matter to expansion of optication and solution of areas. Providion of roads, while and alcoholicy is with for the expanded areas. The expansion is going on mainly in the east and coordinates, and especially in the south, disordered development is in progress. The plans of construction of nex international airport, industrial areas and residential areas:
- To promote the above development, arteral roads traversing the arrest generoos y to be constructed at links, followed by provision of water and electricity and construction of local roads in support of daily life.
- Thus, it is desirable to urgently formulate the project for construction of the acterial conts serving the areas in the south of Juba and in the cast of the Hiver Nile, so as to timely implement the project.

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#### Activities

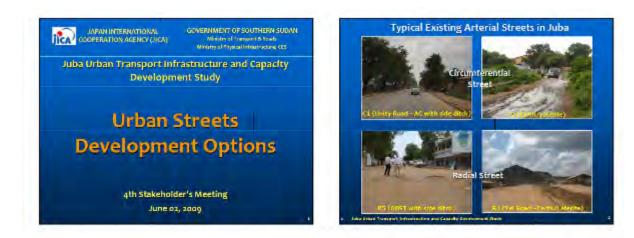
- Preliminary design of road including alignment, intersections, structures, pavement, drainage, ancillary facilities
- Selection of location of Nile Bridge on C-3 and preliminary study on type of the bridge
- 3. Construction plan
- 4. Rough cost estimate
- 5. Pre-environmental impact assessment
- 6. Simplified economic evaluation
- 7. Preparation of implementation plan







#### (k) Mr. Tsuneo Bekki and Dr. Jovito Santos





 Typical Existing Local Streets in Juba

 Image: Street Control of Con

Options		Improvement Stage	Standard Application
Option	1 (AG)	LC → AC	A All Union Arternal Street A Major/Hoovy Trothe Collector Street • Major/Heavy Treffic Local Streets in Densely Developed Areas
Option	n (or)	FC -> Gr -> AC	<ul> <li>Altinor/Light: Folfine Collector Street</li> <li>Major/Hoovy Traffic Local Streets in Residential Areas</li> </ul>
Option	111-1	$EC \to RS \to AC$	<ul> <li>△Collector Street in Fast Developing Remote Areas</li> <li>Local Streets infinitiest Developing Remote Areas</li> </ul>
(RS)	111-2	$EC \to RS \to Gr \to AC$	AMinor/Light: Traffic Collector Street   Rentate Areas * Minor/Light: Traffic Local Streats in Remain & Areas

Type	Description	Advantages.	Disadventages:
No surfacing Desting Spec	Restaying re grading and re surfacing existing street	Chespect and extent to movement enough rotions     Measure to a leviate- inemployment	<ul> <li>Poor crisition runk condition</li> <li>Light setting cost</li> <li>Low robust flag</li> </ul>
Gravel Serface	Re-cheping, re- grading, provision of aub- base and gravel surface	Moderate initial capital cont     Settler road serials than re-settlering     Which operating cost cover theo re-settlering	<ul> <li>Timely and good quality membranes is necessary</li> <li>Othern environment net us attractive as AC personant.</li> <li>Risteebility lower than option 3</li> </ul>
Asphart (RC) Pavemient	Reconstruidien of existing street to asphalt concrete structure	<ul> <li>Improvement of urban circlinamian</li> <li>Better road condition attracts more investment opportunities</li> <li>Concert vehicle operating cost amous 3 opports</li> <li>Satter indeability</li> </ul>	<ul> <li>Highest initial capital cost</li> <li>Boupment-based gives les engloyment appertunity</li> </ul>

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Existing		1.4		- × 1	21	-
He surfacing	\$100/km	\$40/km x 2 (twice/yr)			\$1,700 /km	
Gravel Pavement	\$300/km	\$30/km x 2 (twice/yr)		- +	\$1,500 /lon	
Asphalt	\$800/km	\$5/km (once/yr)	\$500/lan (oncc/10 yrs)	\$000/km (omcc/20 ym)	\$1,400 /km	

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Condition	Work	type	Work Scope	8Y
Existing Condition				
Re-surfacing	Re-surfacing	Routine	- Chaning - Chaning - Reshaping - Remanfusing	<ul> <li>Labor-based</li> <li>Labor-based</li> <li>Labor-based</li> <li>Labor-based</li> <li>Inglicitized</li> </ul>
Gravel Road	Reconstruction/ Rechabilitation	Roulanc:	- Classing - Classing - Krokepeng - Re-grading - Re-grading	- Lober-Served - Lober-Served - Tolen-Served - Eggt, based - Eggt, based
	Reconstruction/	Noutine	- Charing - Chaning Orain - Filing Potholes - Webfing	- Labor-based - Labor-based - Labor based - Popt-based
Asphalt (Road	Rehabilitation	Penodic	«Noted they by	- Figst-Krast
		Rehabilitation/ Reconstruction	- Structural Overlay - Full Depth Rehab.	- Equiphened





## JUBA URBAN TRANSPORT INFRASTRUCTURE



AND CAPACITY DEVELOPMENT STUDY Ministry of Transport and Roads, Yei Road Jebel Kujur, Juba

Government of South Sudan

## MINUTES OF MEETING 4<sup>th</sup> Stakeholder's Meeting JUTI Interim Report Presentation

Purpose	:	Presentation of Interim Report and Study Consultation
Date and Time	:	June 02, 2009 (10:00am)
Venue	:	2 <sup>nd</sup> Floor, Conference Room, Home and Away

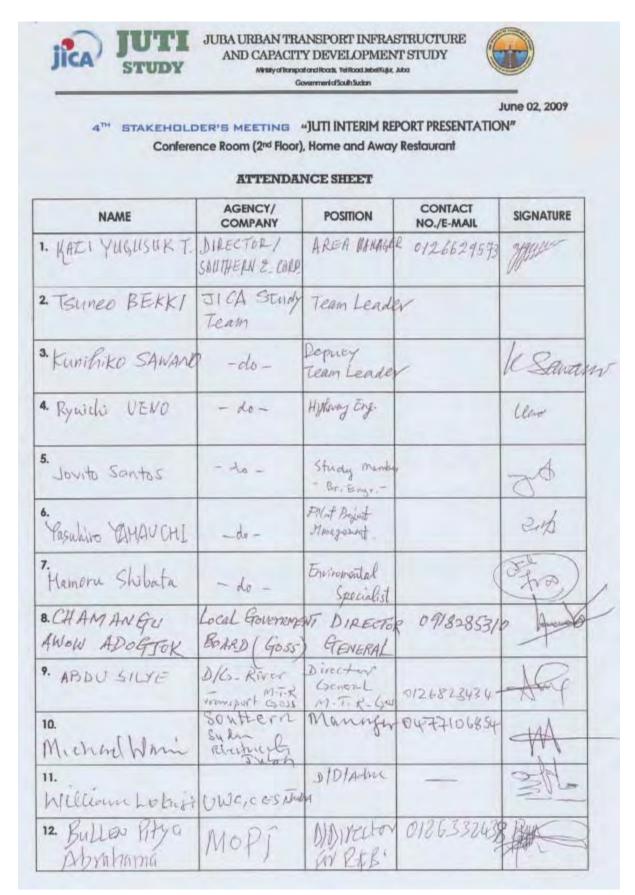
#### **Minutes of Discussion:**

- 1. The meeting was called to order by Mr. Alam of the MTR with Opening Remarks given by MTR Dir. Gen. Jacob Marial Maker and Mr. Tamari of JICA.
- 2. Mr. Otim, after presenting MTR's policy and vision together with the different infrastructure projects for road, air and river transport, identified the challenges in transport infrastructure development to include: landmines, lack of road inventory, no capacity of contractor and consultant, no paved road in South Sudan (only a few km in Juba) and lack of funding mechanism for infrastructure development.
- 3. The Major Outputs of the Master Plan is then presented by the Study Team which include: (a) Road Network Development Plan including Population and Land Use, (b) Public Transport Development Plan, (c) Traffic Management System Development Plan, (d) Proposed Road Maintenance System, (e) Overall Implementation Plan, (f) Pilot Project Plan, (g) Proposed Projects for Feasibility Study, and (h) Urban Streets Development Optionss.
- 4. A series of comments and discussions proceeded after the presentations with the following highlights:
  - 4.1. <u>Road Corridor and Right-of-Way (ROW)</u>. Concerns about the acquisition of road reserves based on the road network master plan and compensation for affected persons/families and properties were raised with past experience on Uganda road having problems due to compensation issues. Ms. Patricia from MTR responded that the social impact is considered in the route selection. However, the Land Bill in South Sudan has not yet been approved and no Compensation Schedule has been established. It is expected, on the other hand, that the Environmental policy will be out by August of this year. With regards to the Study, reference will be made to the JICA Environmental Guidelines as well as the USAid and the MDTF Guidelines on environment.
  - 4.2. <u>Provisions of Corridor for Service Utilities</u>. Concerns regarding allocation of areas for service utilities (water, power, telecommunications, sewerage, etc.) within the road corridor were raised. The participants indicated the need for a coordinating body/agency that will be responsible for utilities project planning and

implementation within the road right-of-way. MOPI responded that there a State Physical Planning Board which exists within the CES that coordinates communities and utilities project within the State.

- 4.3. <u>Road Drainage and Sewerage</u>. The question of road drainage and discharges were raised with stagnant water and soil accumulating at the road ditches during rain. The participants suggested the need to develop a road drainage and sewerage system to properly discharge storm water. MOPI responded that this will be a priority of the State.
- 4.4. <u>Recovering Road Investment/Capital</u>. An issue on how to recover capital investment for roads was raised will there be charges to roads users, e.g. toll? The Study team responded that the money that will be spent for the roads basically comes from the tax payers and that benefit derived from road improvement goes directly to the road users in form of: travel time savings, lower vehicle operating costs, better environment, better riding surface, etc.
- 4.5. <u>Study Coordination with Government Agencies and Other Foreign Assisted</u> <u>Projects/Study</u>. The participants inquired about the degree of Study coordination with government agencies and other studies, especially the standard for road classification. The Study is being undertaken in close coordination with MTR and CES MOPI, as such, the Study outputs have been discussed with these agencies. Necessary data for the Study are always coordinated with other agencies. Further, the Study respects the Standards being used by South Sudan including road administrative classification – the Study discusses only the road functional classification for the master plan. MOPI further responded that the Study is being undertaken in close coordination with MOPI and guidance is always given by MOPI to the Study Team.
- 4.6. <u>Involvement of Road Users in Public Transport</u>. A question was raised if the roads users were consulted in the Study. The Study Team responded that in addition to traffic count survey, a road user survey was conducted (e.g. O-D survey, public bus users' survey, etc.)
- 4.7. <u>Consideration for Parking</u>. The participants suggested that the team consider parking issues since it is causing congestion problems in some areas of Juba. The Study team responded that during the Study for Improvement of the Central Commercial District (CCD), parking alternatives/areas (street parking, open area parking, parking buildings, etc.) will be considered and designated. The CCD development will be a model case and can be applied to other areas in Juba.
- 4.8. <u>Traffic Management.</u> The use of media is suggested for traffic education and information campaign to road users. Involvement of traffic police in traffic enforcement plan is also recommended.
- 4.9. <u>Railway Station at East of Nile River.</u> It was asked if the railway station at the east side of Nile river was considered during in the road network. MOPI responded that there is no definite plan yet for such railway stations.
- 5. The Closing Remarks were given by MOPI 1<sup>st</sup> Dir. Gen Luis Gore George who commended the Study Team for the output of the Study.

#### 4.4 List of Attendees



NAME	AGENCY/ COMPANY	POSITION	CONTACT NO./E-MAIL	SIGNATURE
13. Eng. L. Nhial Bal	M.T.R.	D/General Railways	0477151512	mil
14. DR SAMSON PAUL BABA	M.O. H GOSS	DIRECTOR GENERAL FOR RETERN ASSISTANCE	067712579) AC	Rab
15. Patricia Consul Ali	MTR	Environmenta Officer	0128124834	Water
16. Lamin Sanyarg	LBGE JAST Mark	Fras-	04777137851	to
17. ED FLINT	LBG	Task Order 8 Manager	0477296668	efla
18. S. KARANDA.	LBG.	DECEMINE OFFICER	DAJUSZYOO	S.
19. George Wagwa	VSAD	Engineer	0477127352	gan
20. Boutros Magaya	USAD	Infrastructu Engineer	047712733	htte-
21. Maurice Rehan	MTR	D/General Road Transpace	0477110834	centra
22. Kiyotaka TAMARI	JICA	Project Formulation Advisor	0417-175460	王利海燈
23. LEWIS GORE	PHNSICAL INFR. 2008.		047711236	+ gm 5
24. OTIM BONG			042717080	F 1
25. K. ADENTWY ANGLY	H TAST/MTR		6957026369	Alet
26. James Andren	mar		047711207	Fally
27. hug. lado Tom	2			V

NAME	AGENCY/ COMPANY	POSITION	CONTACT NO./E-MAIL	SIGNATURE
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## APPENDIX 5 FIFTH STAKEHOLDER'S MEETING (ROUTE LOCATION ALTERNATIVES FOR MAJOR ARTERIALS)

5.1 Agenda



JUBA URBAN TRANSPORT INFRASTRUCTURE AND CAPACITY DEVELOPMENT STUDY Ministry of Transport and Roads, Yei Road Jebel Kujur, Juba Government of South Sudan



## 5<sup>TH</sup> STAKEHOLDER'S MEETING Route Location Alternatives for Major Arterials Conference Room, Ministry of Transport and Roads July 01, 2009

PROGRAM

	Attendance/Registration		9:45 –10:00
1.	Proposed Road Network for Juba and Surrounding Areas	Mr. Kunihiko Sawano Deputy Team Leader/JICA JUTI Study	10:00 –10:15
2.	Alternative Routes for Major Arterials (C2, C3 and R5)	Dr. Jovito Santos JICA JUTI Study	10:15 –10:30
3.	Comments and Discussion		10:30 - 11:30
	Facilitator:	Mr. Otim Bong	

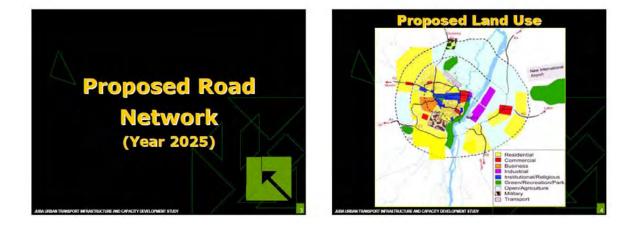
Ministry of Transport and Roads

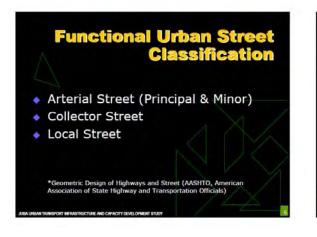
#### **5.2 Presentation Material**

(a) Mr. Kunihiko Sawano



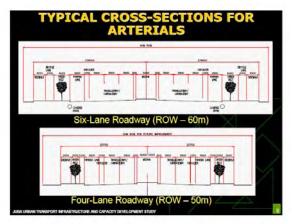






Funct	ional Urban Stree Classificatio
Principal Arterial Minor Arterial	Service to the major centers of activity of urbanized areas, the highest volume corridors and the longest trip. The principal arterial should be integrated both internally and between major rural road connections:
Minor Arterial Street	Trips of moderate length at a somewhat lower level of travel mobility than principal arterial
Collector Street Local Street	Land access service and traffic circulation within residential neighborhood and commercial and industrial areas.
Local Street	The lowest level of mobility and usually contains no bus routes. Service to though traffic movement usually is deliberately discouraged.





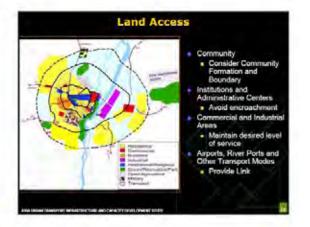
#### (b) Dr. Jovito Santos



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Classification	Arterial Road/Street		
Function	Circumferential – Primary/District Distributor (Cz and C))		
	Radial - Interstated Intercity Trunk Road (Rs)		
Access Control	Possibly uninterrupted except at intersection: Limited access to next lower class (Collector)		
Design Traffic (ADT)	10,000 12,000		
Design Speed	5a - 6a km/fir		
Design Radius	Minimum	150 m (AASHTO)	
	Desirable	C2: 250 m C3 & R5: 500 m	
Grada	0.55-88		
Minimum Length of Horizontal Curve	tsom.		
ROW/Road Reserve Regularement	4 - Lanes Arterial	50 m	
	6 - Lanes Acterial	60 m	













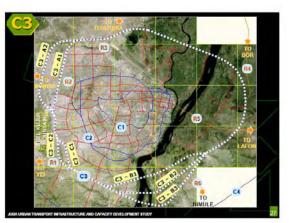














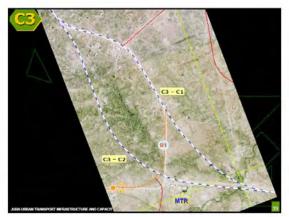




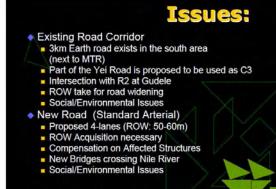
























Appendix 5-10

# **Issues:**

- Existing Road Corridor
  3km Paved road from GoSS compound to C1 (basically 2-lanes)
  Available ROW varies → 25-30m
  1km road from C2 to C3 bituminous with bad condition
  Road widening → Additional ROW
  Compensation on structures
  Social/Environmental Issues
  New Road (Standard Arterial)
  Bridge crossing Nile River (Length ≈ 900m)
  ROW Acquisition necessary
  Compensation on Affected Structures
  Social/Environmental Issues





JUBA URBAN TRANSPORT INFRASTRUCTURE





MINUTES OF DISCUSSION 5<sup>th</sup> Stakeholder's Meeting Route Location Alternatives for Major Arterials

Purpose:Presentation of Proposed Routes for C2, C3 and R5 andStakeholders' CommentsDate and Time:July 01, 2009 (10:00am)Venue:Conference Room, Ministry of Transport and Roads, Jebel Kujur

### Minutes of Discussion:

- 1. The proposed "Route Alternatives for Major Arterials C2, C3 and R5" was presented and explained by the Study Team to the Stakeholders (see attendance list).
- 2. A series of comments and discussions proceeded after the presentation of the proposed route locations with the following highlights:
  - 2.1. Road Reserve/Corridor, Right-of-Way (ROW) and Road Improvement
    - MTR's Mr. Bong mentioned that the standard road right-of-way/reserves are: (a) 60m for major roads within the city and (b) 120m for highways. However, the present conditions indicate existing roads to have narrower available width.
    - The Study team noted that based on site inspections, existing roads proposed for major arterials in the urban area have available width from 13m 30m. It is proposed, however, that circumferential and radial roads should have 50m-60m available (ROW) to accommodate the standard road section for the arterial road class.
    - The Land Commission however, mentioned that the original roads in Juba are only two-lane roads since Juba urban area started and it may not be possible to attain the required ROW within the built up areas due to issues on affecting existing structures.
    - The Director for Bari Payam also mentioned that existing road widening will be difficult and will create problems on existing structures. Instead, it is better to concentrate improvement of new areas.
    - Eng. Maganda (LBG), commented that on the contrary, it will be best to improve the roads following the standard sections at this time and proceed with removal of structures within the proposed road section. Improving the road sections will not only increase capacity and mobility but will also improve traffic safety – especially separating slow-moving with fast-moving vehicles.
  - 2.2. Demarcating Proposed Route Locations.
    - The Director of Bari Payam suggested that the identified route alignment should be demarcated and marked as soon as possible to prohibit encroachment on the road reserve and eliminate problems in the removal of structures.

- Dir. Makur (MTR) mentioned that once the route alignment is finalized, a copy will be given to MOPI Survey Department to locate the route and mark the ROW requirements.
- H.E. Makana (MTR Minister) suggested that to keep the road reserve, roads shall be built first on the sides of the proposed alignment to delineate the ROW at the middle if project implementation will be done later.
- 2.3. Implementation Priority.
  - Dir. Makur suggested to prioritize the road improvements in the master plan and identify which projects should come first. He recommended to give emphasis on C1 and C2 and the bridge crossing the Nile river.
  - However, the Land Commission recommended that C3 be given priority since urbanization has not gone yet to this area and road development will be easier to implement.
  - The Minister H.E. Makana (MTR) suggested a two-step road improvement implementation:
    - a. Focus on immediate decongestion of Juba (emergency improvement) by implementing C1 and C2 roads, and
    - b. Implementing C3 and other roads including development of the eastern side of the Nile river.
- 2.4. Improvement of Road Cross-Section.
  - The Land Commission recommended that road sections be improved considering the road drainage which has become a major problem in Sudan.
  - A participant suggested that the proposed standard sections for the road class be adopted in the road development to improve road safety and provide corridor for non-motorist transport.
- 2.5. Task Force for Road Development.
  - The Chairman of the Land Commission recommended that a Task Force be created to oversee the road development in Juba.
  - H.E. Makana seconded the importance of having a Task Force for road network development.

### 2.6. Detailed Involvement of Different Stakeholders.

- The participants suggested that all stakeholders be involved and consulted regarding the proposed routes especially the people that will be directly affected by the road projects.
- Ms. Patricia (MTR) mentioned that there will be another Stakeholders' meeting on August relating to social and environmental issues of the road network. Furthermore, the Study Team has been coordinating with different agencies regarding the different alternatives and the impact of the proposed road network – including the Land Commission, Ministry of Forestry, Urban Electricity, etc.
- Dir. E. Wani (MOPI) mentioned that the JICA Team has presented and coordinated with the State Town Planning Board (CES) regarding the proposed alignment and they are still considering their comments on the proposed route locations.
- 3. The Closing Remarks were given by H.E. Makana, Minister of MTR emphasizing the need to decongest Juba urban area thru development of the road network.

### 5.4 List of Attendees

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		9 (10:00am)		
	ATTENDA	NCE SHEET		
NAME	AGENCY/ COMPANY	POSITION	CONTACT NO./E-MAIL	SIGNATURE
1. Dobert Ladu	Commission	Cheiped-	0989092189 Bokerteuli Byahoo.com	Hun
2 Patricia bosnil	MAR   Part	Environment al Officer		Martic
a suzan peter	Angam (Manaki	Pd-mlofficer	0911710811	Sere
• Tamari Kiyotaka	JICA	Project Formulation Advisor	0417-175 860 081-8626201	王和际
s. Sawano Kunihiko	JUTI Study Team	Deputy Tean Leader		K Sawa
KWERN ADENTIN- ATRIGUERH	MTR/TAST	MATERIAN ENGINEER	1955 026369 2019-58-	Alarty
7. Martin Simon Warin	Northon Brin Pryan	Director	09)2544/83	
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#### **APPENDIX 6** SIXTH STAKEHOLDER'S MEETING (ENVIRONMENTAL AND SOCIAL **CONSIDERATION**)

#### 6.1 Agenda



JUBA URBAN TRANSPORT INFRASTRUCTURE AND CAPACITY DEVELOPMENT STUDY Ministry of Transport and Roads, Yei Road Jebel Kujur, Juba



Government of South Sudan

# 6<sup>TH</sup> STAKEHOLDER'S MEETING **Environmental and Social Consideration Conference Room, Home and Away** August 18, 2009

## PROGRAM

1.	Opening Remarks	Dr. Wani Daniel Director General, for Roads and Bridges Ministry of Transport and Roads, GOSS	9:30 –9:35						
2.	Necessity of Urban Transport Development	Mr. Gabriel Makur Director for Roads and Bridges Ministry of Transport and Roads, GOSS	9:35 –9:40						
Envir	Environmental and Social Consideration Reports								
3.	The Study(Concept of M/P)	Miss. Patricia Gibril Ministry of Transport and Roads, GOSS Environmental officer	9:45 –9:55						
4.	Street Network of CCD	Mr. Mamoru Shibata JICA JUTI Study	10:00 -10:30						
		COFEE BREAK							
5.	South Arterial Road	Mr. Mamoru Shibata JICA JUTI Study	11:00 -11:30						
6.	Discussion	Miss Patricia Ministry of Transport and Roads, GOSS Environmental officer	11:30 -12:00						
7.	Closing Remarks	Mr. Lewis Gore Director General Ministry of Physical Infrastructure, CES	12:00 -12:05						

### **6.2 Presentation Materials**

Presentation Materials prepared concept of ITR as 6.3 belows.

#### 6.3 Minutes of Discussion

The Director General of Roads and Bridges gave his remarks during the course of the presentation and stressed the importance of the early/initial involvement of all the stakeholders in discussing the environmental and social issues within their jurisdictions as far as the Urban Transport Infrastructure Development Plans concerned. Eng.Jacob Marial further noted that the Road network and development should concentrate on the following; improvement and construction of roads network especially in the outside the existing roads network areas adjacent to Juba city to enable to connect central Juba to the suburbs of Juba city as Ring roads and collector streets .

(1) Mr.Gabriel Makur -Director of Roads and Bridges gave a brief speech on the necessity of The Urban Transport Development in which he pointed out the importance;

- a) to classify the roads to enable the effective land -use planning
- b) to establish general support for decision making system for road development

c) Improving traffic flow of efficiency and involving the government especially the human

(2) M/s Patricia gave presentation on the general concept of the Juba Transport Infrastructure Development highlighting the Priority Project components in relation to the Ministry of Transport and Roads-MTR like Road network development; Land use Planning; construction and rehabilitation of Culverts and Bridges .

(3) On the behalf of the JICA Study Team gave a presentation on the Environmental and Social Issues identified during the screening process carried out focused on the Arterial Street-C2, C3 and Collector Street A and B (CSA&CSB). In his presentation he embraced issues like;

- a. Compensation costs in which he questioned the roles and responsibilities of the stakeholders/ partners involved like the local Administrators; Land commission and Ministry of Housing Lands and Public Utilities –Directorate of lands and Construction Central Equatoria State-CES.
- b. Land use Activities sited along the Arterial and collector Streets roads reserves. Land use along the roads like the Arterial Roads at the centre of Juba –May Street; water supply facility along Unity Avenue with commercial stores; educational facilities like the Juba University and hand stone Crushing activities along Yei Road are likely to be impacted on negatively.
- c. The proposed bridge designs for construction encroach on private property like ; farm lands, trees(fruit trees)fence and government owned facilities like Lologo Prisons Training School; areas adjacent to the proposed new bridge site is likely to impact negatively on source of livelihood of the community that is fishing.
- d. The proposed bridge Construction across the River Nile connecting the c2,c3 and collector Streets A&B(CSA& CSB). The Proposed bridge construction site alternatives are all associated with negative impacts on settlements in terms of land acquisition for the activities; destruction of vegetation and change in source of livelihood hence require Involuntary Resettlement Plan .
- (4) A series of reactions and discussions proceeded after the presentations with the following highlights;

- i. Considerations should be put on the already existing water pipe line network as well as the electric poles are to be reallocated to widen the carriage. The study team advised to use the water pipe line network map to act as guidance. Incase of compensation; the Southern Sudan Water Corporation shares the cost of reallocation based on 50% i.e the labor costs and the pipe and other fittings are taken by the partner/contractor.
- ii. The costs of reallocation of facilities like housing depends on the various class of land for example; residential (high and low); recreational and business and Government area. Compensation will be done after carrying out the assessment on the land and cost of property on the land both movable and immovable.
- iii. Drainage facilities for the roads to ensure that problems like flooding are minimized as compared to the present design of surface drain.
- iv. Land Act and land Policy: the policy has been approved but the land Act is yet to be approved. The Compensation schedule which will bear the standard fixed rates /costs of property subject to compensation is being prepared and presented after the Land Act has been passed as a law.
- v. Roads Classification: the streets network of Urban Juba and other part of Juba town; roads functional and classification should be based on access roads rather than local roads to give clear distinctive functionality of the smaller ;inner roads into the residential and connecting to other land classification.