Myanmar Recovery Coordination Center Development and Implementation.



Information Management Approach.

Response to floods AUG 2015.

- A. Strategy for transition from humanitarian emergency to Early Recovery (ER).
 - **A1** Strategic Principles.
- B. Information management framework for Recovery.
 - **B1.** Stakeholders identification.
 - **B2.** Information needs assessment: datasets, metadata.

Inventory of available data sources.

- **B3.** Information Needs.
- **B4.** Data Gathering.
- **B5.** Data Consolidation: Repository.
 - **OPTION 1.** Centralized hosted single server: Myanmar, one ministry.
 - **OPTION 2.** Distributed hosting: Myanmar, several ministries, database replication.
 - **OPTION 3.** Distributed hosting: Cloud Services Outside Myanmar, Virtual Private Cloud.
 - **OPTION 4.** Distributed hosting: Myanmar Ministries Cloud: Virtualization.
 - **OPTION 5.** Locally stored Database. Myanmar, one workstation, one Ministry.
 - **OPTION 6.** Data mining Scenario: Nay Pyi Taw, Central Statistics Organization / Mohinga.
- **B6.** Data Analysis.
- **B7.** Data Monitoring.
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- C. Consultancy objectives.
- D. Time frame.

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Strategy for transition from humanitarian emergency to Early Recovery (ER).

Emergency
Operations
Center. **EOC**

Recovery
Coordination
Center. **RCC.**

Ministry of Social Relief Welfare Relief and Resettlements. MSWRR.

Ministry of Construction MoC.







1. Use of existing resources and data available from the EOC. (When possible).

4. Use of standard Information management framework for Recovery: from data gathering to product dissemination.

baseline data should include latest emergency data.

2. Recovery

7. Use of advanced ICT in the recovery coordination center.

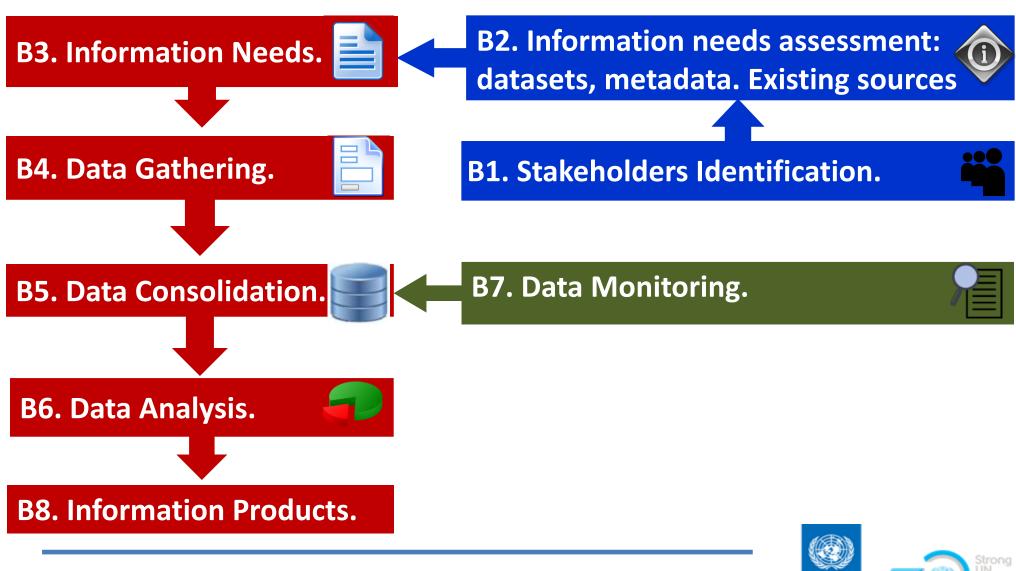
3. Standardized format for data collection on agreement with stakeholders and conformed to requested information products: DaLA, Sitreps, maps, donor project performance reports, etc.

6. Data verification and consolidation consultation with stakeholders.

5. Data gathering from all possible sources:
General Administration
Department (MoHA)
Government, INGOs,
UN, etc.

A1 Strategic Principles.





B Information management framework.



Definition: Stakeholders In Information Management for Recovery.

"Whoever has an interest in any of the stages within the Recovery Information management framework":

Stakeholders	IM Stages
Data providers.	B4. Data Gathering.
Analysts. Information Management Officers.	B6. Data Analysis.B7. Data Monitoring.
Data administrators.	B5. Data Consolidation.
Information products producers.	B8. Information Products.
Information products consumers: Decision makers.	B3. Information Needs.B8. Information Products.

B1 Stakeholders Identification







Welfare Relief and Resettlements. MSWRR. Relief and resettlement department.

IVIIIIISH Y OI JOCIAI NEIIEI

Ministry
Immigration and
Population. MIP.

Communications and Information
Technology MoCIT. Post and communications.

Other Sectorial Ministries.

Government

Ministry of Home Affaires. MoHA.

Ministry of Construction

MoC.

State Government

Regional Government

of
Border
Affaires.
MoBA.

Ministry of
National
Planning and
Economic
Development.
MPED. CSO.

Parliament.

B1 Stakeholders Identification







Private sector

NGOs

UN Agencies

Donors

Organizations

Civil Society

Red Cross

MIMU

Information
Management
Network

B1 Stakeholders Identification







Database	Relations Department (FERD)/Development Partners' Working Committee (DWPC) MOHINGA. MIMU/Myanmar Information Management Unit)/DEVINFO.	dashboard based on activities, export to Excel interactive maps, disaggregation by district, currently online.	Aid activities and indicators, good presentation. Money disbursement based as primary indicator. EU donor. mohinga.info Design: CATALPA Int. www.catalpa.io/ GDP data is available at township level. CPI (urban) is also available. 203 indicators in 12 Sectors. Compiles published data. www.devinfo.org/myanmar
Database, Excel	Immigration. Census department	Excel reports on demand. Offline database. Standardized for OCR collection form.	Census data. Good disaggregation. Minimum administrative level: Ward/Village tract. Support from UNFPA. Several datasets such as occupation are still not yet available.
	Management Unit)/3W.	maps. Additionally, technical expertise in data management and GIS mapping.	3W data to ward/village level, GIS mapping capacity. Most predisaster datasets have been consolidated by MIMU to a much finer granularity than most other data sources. MIMU also has prepared a list of flood-affected village tracts, confirmed by either satellite imagery or field reports.
	Recovery Assessment (damage and loss assessment from Ministry of Construction)		Primary data collection from affected townships, includes household-level data. However, dataset is improperly formatted and will require much processing. Almost a duplicate of the GAD data used in the MOSWRR damage and loss dataset.
B2 Inventory of available data sources. Inventory of available data sources Inventory of available data			

Functionality/ platform

Telecommunications/MSWRR/EO customized web forms, online July 2016.

DESINVENTAR implementation. Queries,

Contents/ Notes

UNHABITAT.

Emergency data and indicators.

Lowest admin level: village tract, ward. Good sector definition,

good stakeholders mapping, good collection template. Support

www.mdld.rrd.gov.mm

Location/Name

Damage DB.

Myanmar Post and

C. MDLD. Myanmar Loss and

Type Database

Excel X	MOSWRR (Ministry of Social Welfare, Relief and Resettlement) floods dataset	Basic Excel file	Used mainly for geographic prioritization and progress monitoring of relief interventions. Collection of data from GAD, Ministry of Health, Ministry of Social Welfare, Ministry of Construction, Ministry of Border Affairs, Ministry of Planning and Economic Development and Ministry of Agriculture and Irrigation. Unfortunately, dataset is outdated. Last updated early September 2015.
Hard Copy, GIS	Climatological data and Flood information from EOC and DMH	DMH forecasters and EOC technicians manage a combination of GIS systems (funded both by the AHA Centre and USAID) and water level and climate monitoring from DMH.	Extensive monitoring of the physical extent and severity of the flooding. Used primarily in the monitoring of tide and river levels to aid in the evacuation of affected persons. Unclear if new reports are being generated.
Hard Copy	General Administration Department data	Hard copies of assessment forms developed by MOSWRR.	Collected from village and ward level as GAD alone has the footprint to do this. Regular collection and updating of damage and loss data, almost a duplicate of the recovery assessment data collected by the Ministry of Construction.
Excel	PDNA dataset	Excel database used for the preparation of the PDNA.	Consolidation of data from numerous sources, including the MOSWRR damage and loss dataset, pre-disaster socioeconomic indicators from the Census, IHCLA and MICS.
Excel	MIRA dataset	Excel dataset used to prepare the MIRA report.	Primary data collection. Incorrectly sampled and outdated. Low-level of applicability to the MDLD.
Database	MMSis	Online repository of pre-disaster socioeconomic indicators	Extensive set of economic indicators. Regularly updated. Of particular importance to the MDLD are GDP figures at township level, CPI and other market monitoring tools.
B2 Inventory of available data sources. Inventory of available data sources Inventory of available data			

Functionality/platform

Contents/Notes

Туре

Location/Name











Paper forms: **OCR**



Telephone



Answering machine



Online Surveys



Options

Data Mining from available databases.











On line forms



Outsourced Surveys.

E-mail/ email form.





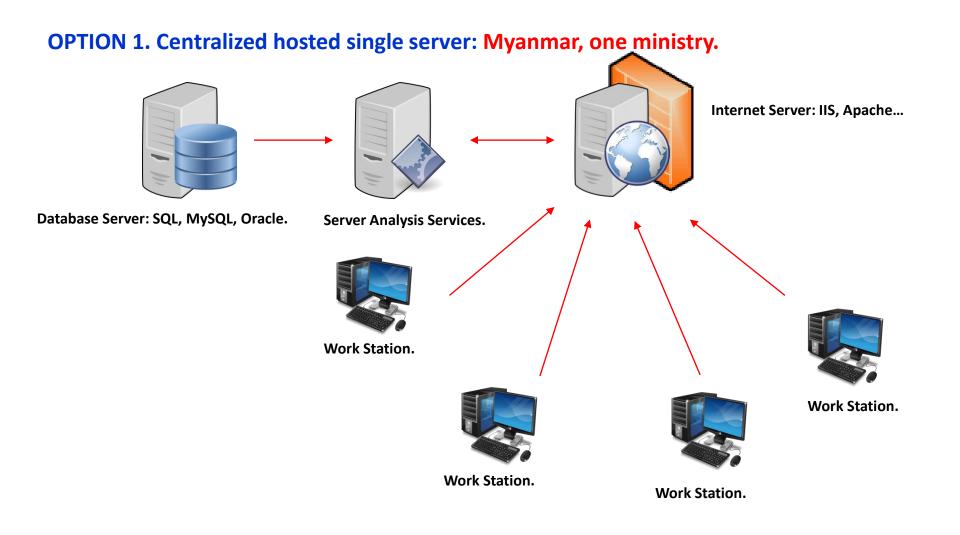


Data Gathering.











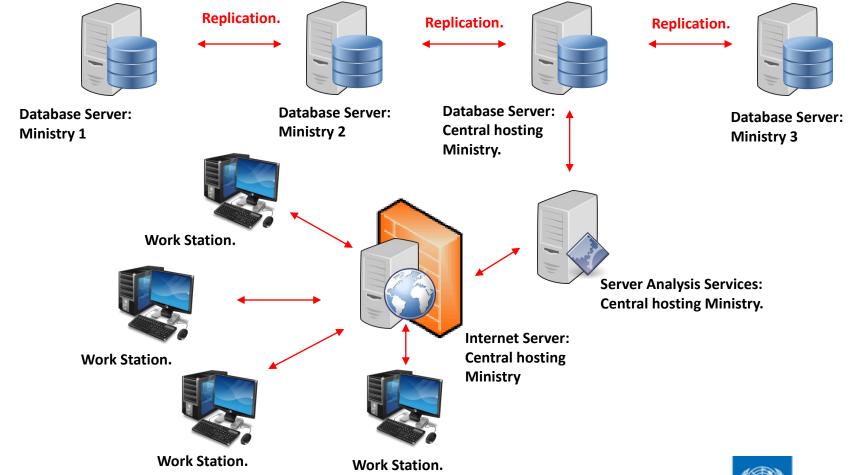








OPTION 2. Distributed hosting: Myanmar, several ministries, database replication.

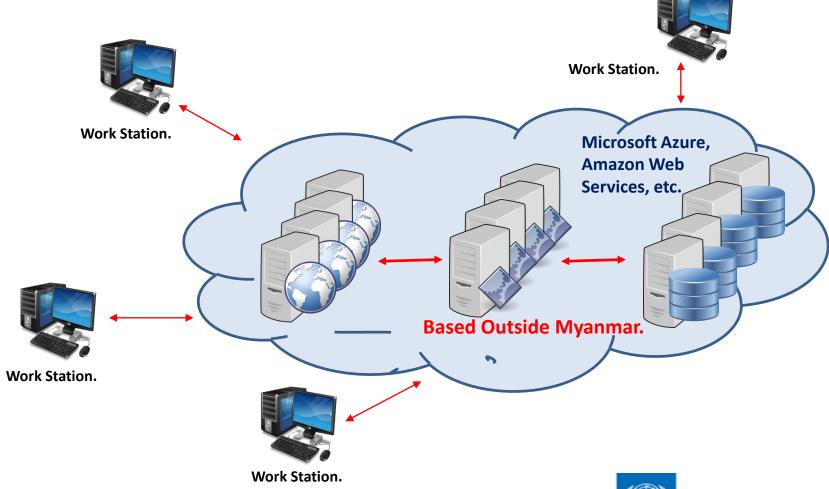








OPTION 3. Distributed hosting: Cloud Services Outside Myanmar, Virtual Private Cloud.



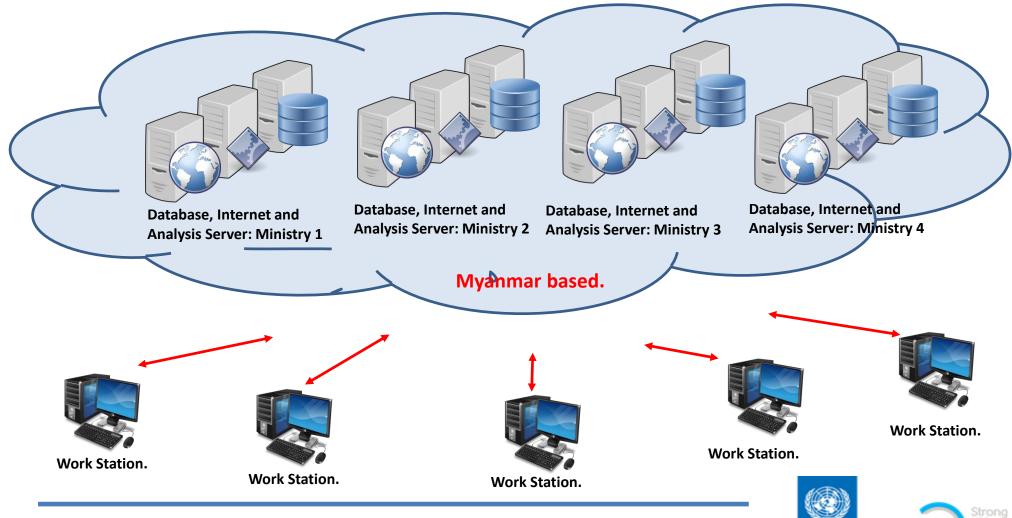








OPTION 4. Distributed hosting: Myanmar Ministries Cloud: Virtualization.











OPTION 5. Locally stored Database. Myanmar, one workstation, one Ministry.



Stand alone: Work Station.

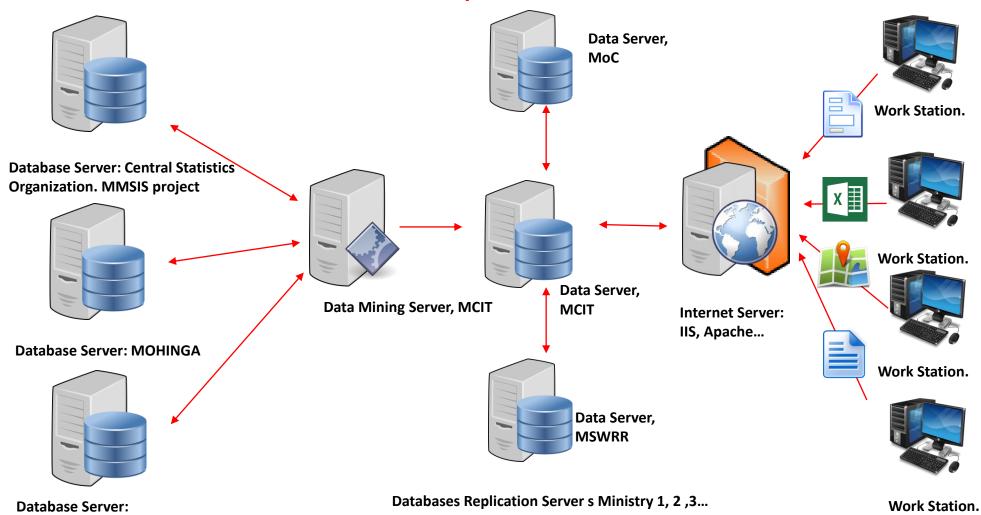








OPTION 6. Preferred Scenario: Host MoCIT, replica hosts Moc and MSWRR.



B5 Data Consolidation: Repository

DESINVENTAR/MDLD EOC.









Technology	Advantages	Disadvantages	Options
1. Centralized hosted single server.	Data ownership. Control and local capacity created.	No full redundancy. Capacity needed.	Ministry of ICT or MoC.
2. Distributed hosting: Among Ministries servers.	Full redundancy for disaster recovery. Participation of different Ministries.	Cost. Technology involvement. Capacity needed. Partial integration: only at database level. Internet connectivity.	Windows server cluster/ Ms. SQL server. Linux / MySQL.
3. Distributed hosting: Cloud Services.	Seamless integration. No infrastructure cost. Full redundancy for disaster recovery.	Cost per month to budgeted. Data ownership. Capacity not created. New broadband internet connectivity. Long term. Internet connectivity.	Amazon. Azure. Google.
4.Distributed hosting: Myanmar Ministries Cloud, Virtualization.	Full infrastructure virtualization as base for e-Government. Transparent to the user. Full redundancy.	Initial Cost future savings. Project Management: should be part of a bigger project. Capacity to be sourced. Excellent coordination between Ministries needed. Internet connectivity.	VM Ware. Microsoft Hyper-V.
5. Locally stored Database.	Simplicity, cost. Data ownership. No Internet connectivity.	No redundancy at all. Risk of data lost. No concurrent users.	MS. Access.
B5 Data Consolidation: Repository			

Final decision for location with ministries and stake holders.









Software to be used, stakeholders, indicators, composite indicators, procedure.







Frequency of data to be monitored, selected indicators, information products.







Android IPhone application for dissemination and collection.

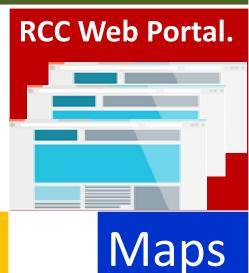
Recovery

Plan.

Bulletins and Sitreps

Dashboard





Databases:
BIER, Project
financial
tracking



B8 Information Products and dissemination.



1. Support of	1.1 Advise the Ro
development and	IM team.
implementation	
of an IM in RCC linked to the EOC	1.2 Research and map existing IM

systems.

CC

3. Develop linkages with all stakeholders

2. Build capacity and advise of RCC, Government staff in IM.

6. Lead the development of information

tools and products relevant to the

for collection, analysis and dissemination of information products.

5. Establish IM systems

7. Establish mechanisms for exchange of information and dissemination of products with the recover partners by the RCC.

Government and early recovery community. 8. Together with Government ensure RCC IM function is fully integrated in Government processes as a cross-governmental function that

can be activated in future crisis.

4. Identify data standard and dataset relevant to recovery.

Consultancy objectives.



Follow up documents. November 2015 to April 2016.

D Time frame



Questions?



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