

MIMU



Myanmar Information
Management Unit

Myanmar Information Management Unit MIMU



Flood Mapping

JPTM 2018 Awaji
November 1st, 2018

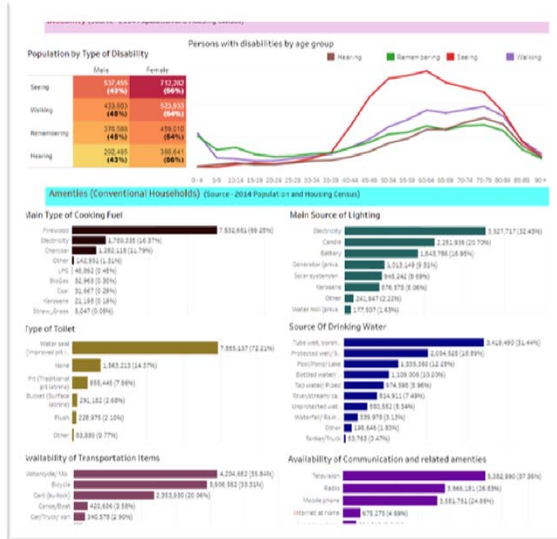
www.themimu.info
maps@themimu.info

1. What is the MIMU?

- ***A Service***, established in 2007 to strengthen the analysis and decision-making of humanitarian and development actors in Myanmar
- ***Targets***: humanitarian and development actors in Myanmar (agencies, donors, government, academics....)
- ***Governance***
 - Part of the UN Resident and Humanitarian Coordinator's Office
 - MIMU Advisory Board: representatives of UN, NGOs, Donors
 - Open data policy

What MIMU provides?

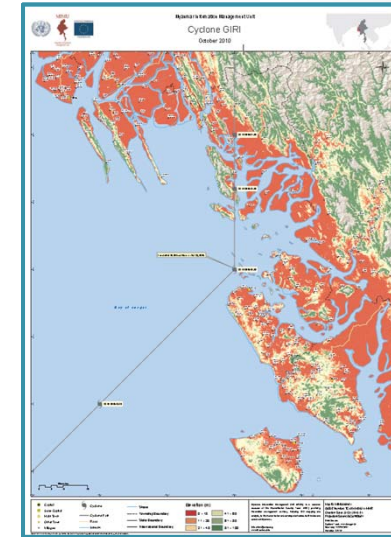
Analysis & Visualization



Data repository



Mapping



Capacity Building



Technical Support



Technical Coordination



www.themimu.info

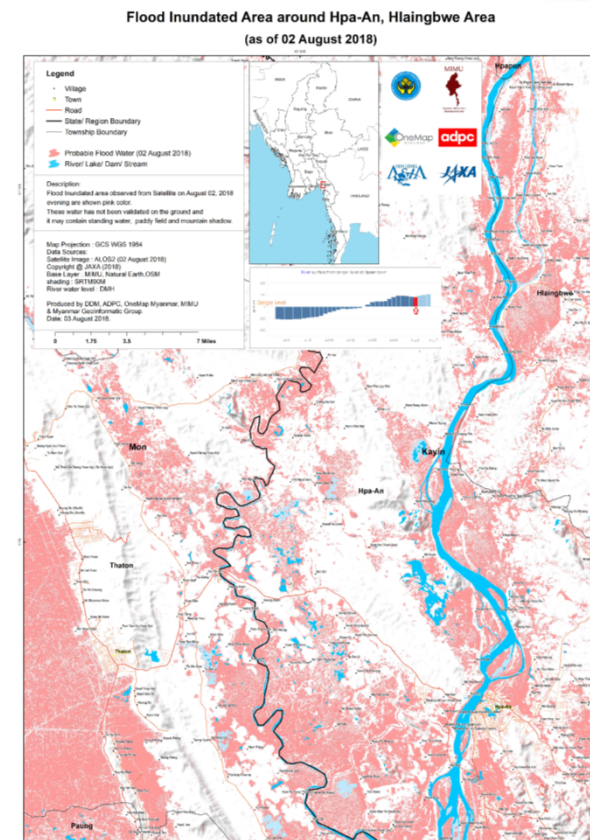
2. MIMU's role in emergency response

- ***Support to Emergency Operation Centre (EOC)***

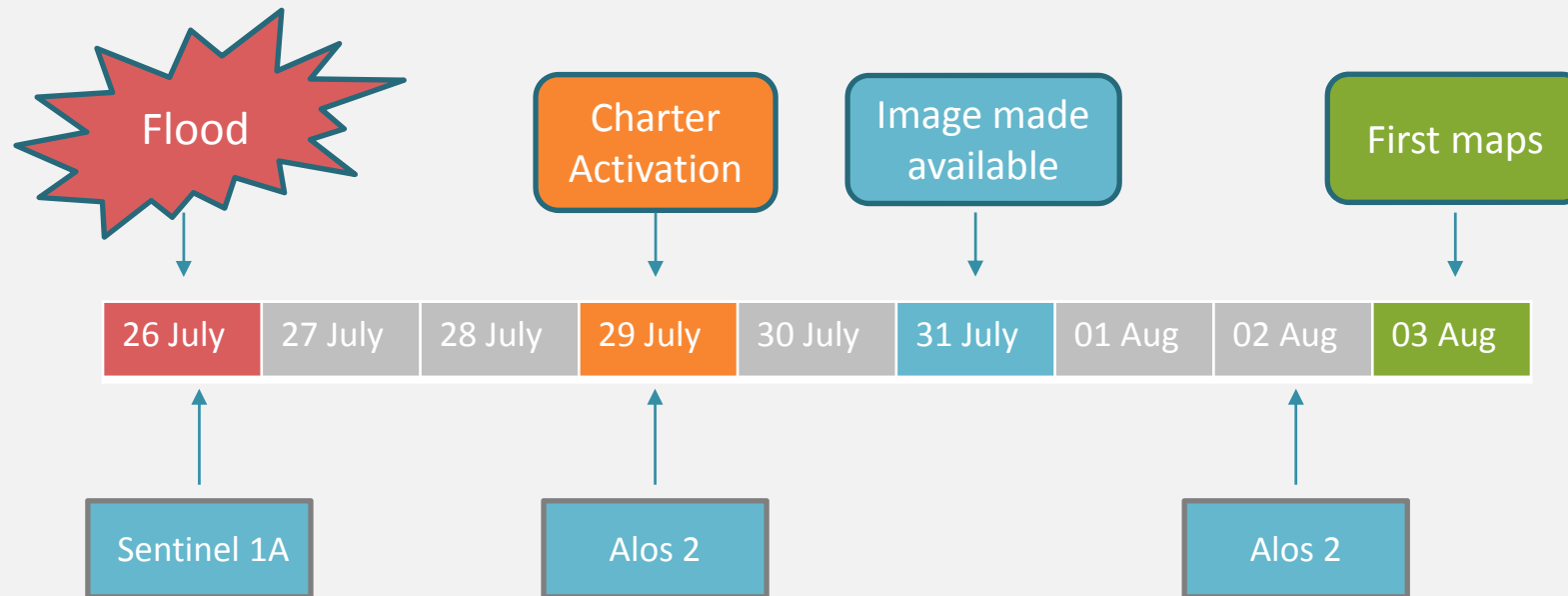
- Support coordination with Sentinel Asia
- Training of staff
- Mapping and Analysis

- ***Information Products***

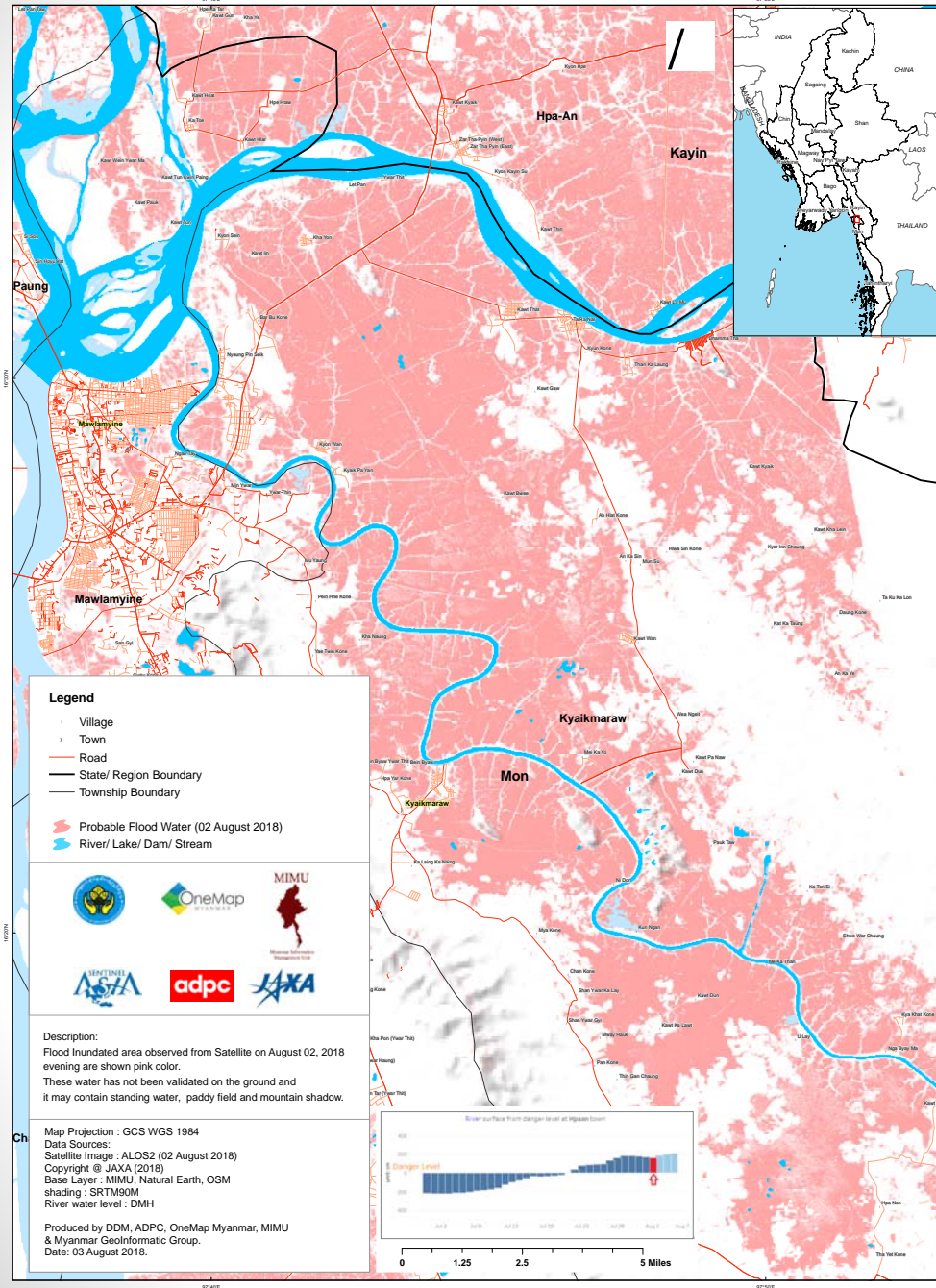
- Maps of disaster extent
- Maps of assessment 3W
- Maps of updates 3W
- Specific web page for wide info sharing



Flood mapping timeline July-Aug 18



**Flood Inundated Area around Mawlamyine, Hpa-An, Kyaikmaraw Area
(as of 02 August 2018)**



Joint effort: DDM, MIMU, ADPC, OMM

Output. SC5

- 18 flood maps
- List of probable affected villages

Diffusion:

- Dept of Disaster Management
- MIMU Website

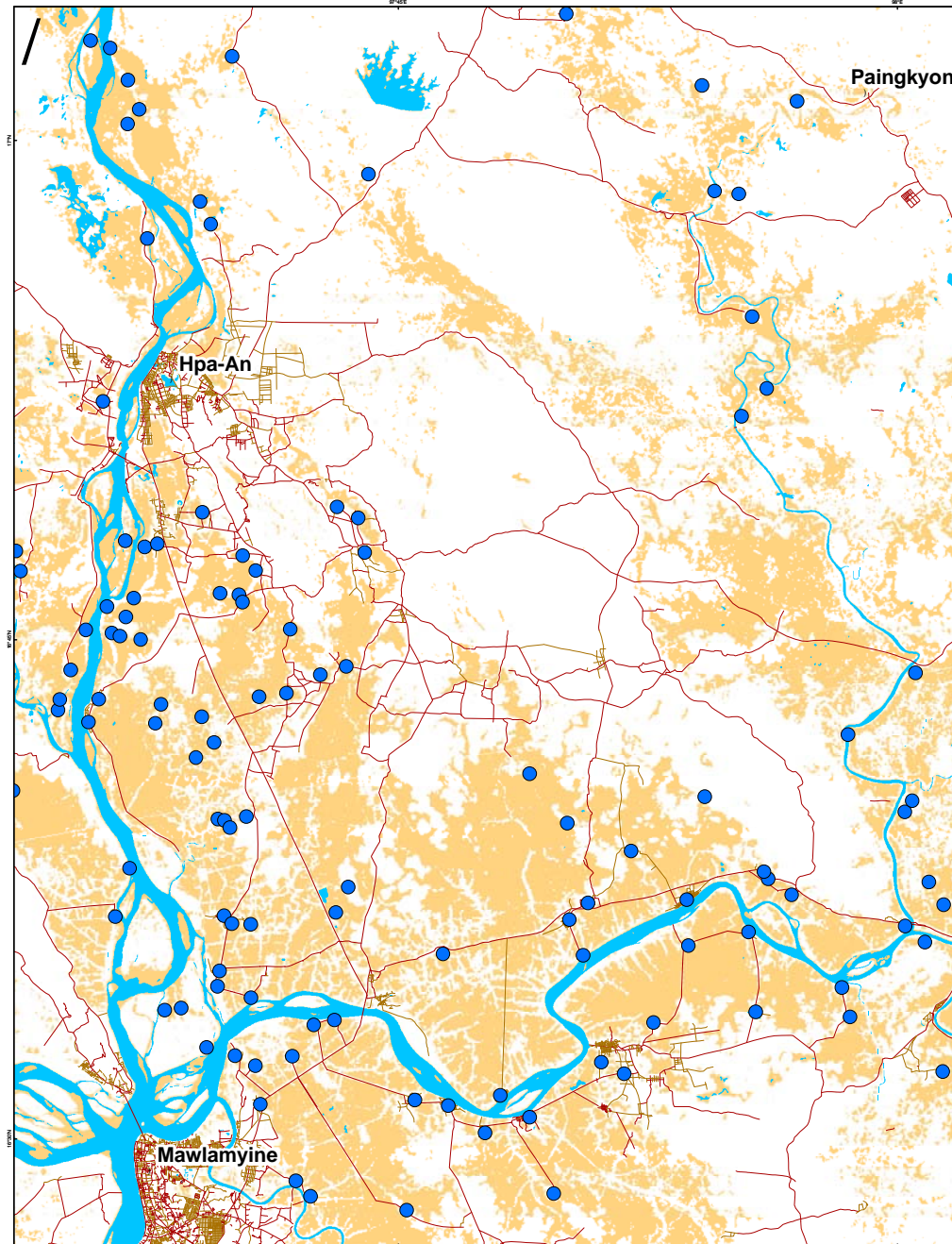


Image: FAO Myanmar, 2018

Flood map August 2nd



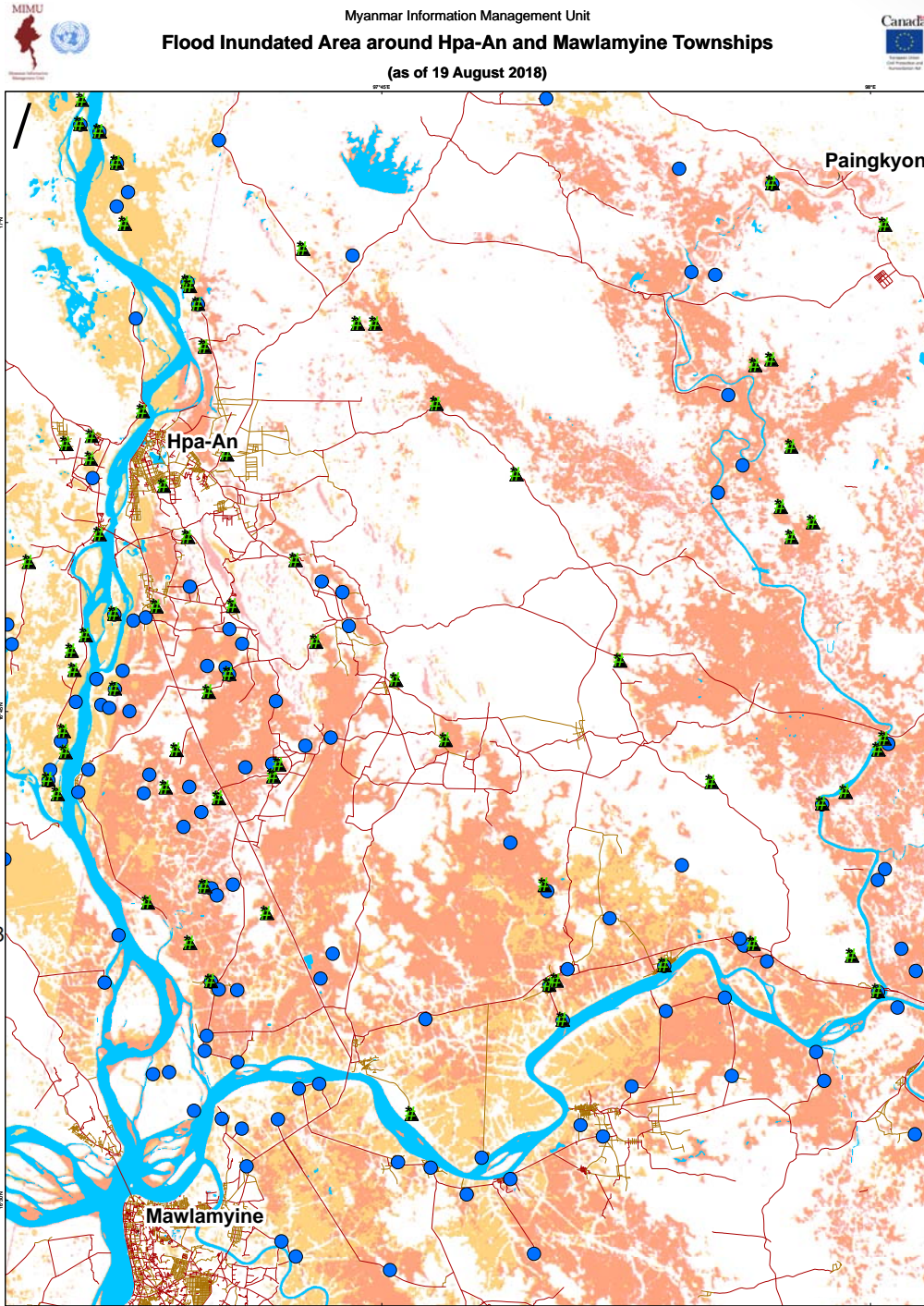
Myanmar Information Management Unit
Flood Inundated Area around Hpa-An and Mawlamyine Townships
(as of 19 August 2018)



- Probable Flood Water (2 August 2018)
- River/ Lake/ Dam/ Stream
- Probable flooded village

Disclaimer: The names shown and the boundaries used on this map do not imply official endorsement or acceptance by the United Nations.

Flood map August 2nd August 18th



3. Gaps and Challenges

Identification of flooded villages

- DEM resolution not adequate ($z = 5\text{m}$), hiding low lying villages
- Tree cover and building materials density hiding surface water



Image: FAO Myanmar, 2018



Image: MAEU Myanmar, 2015

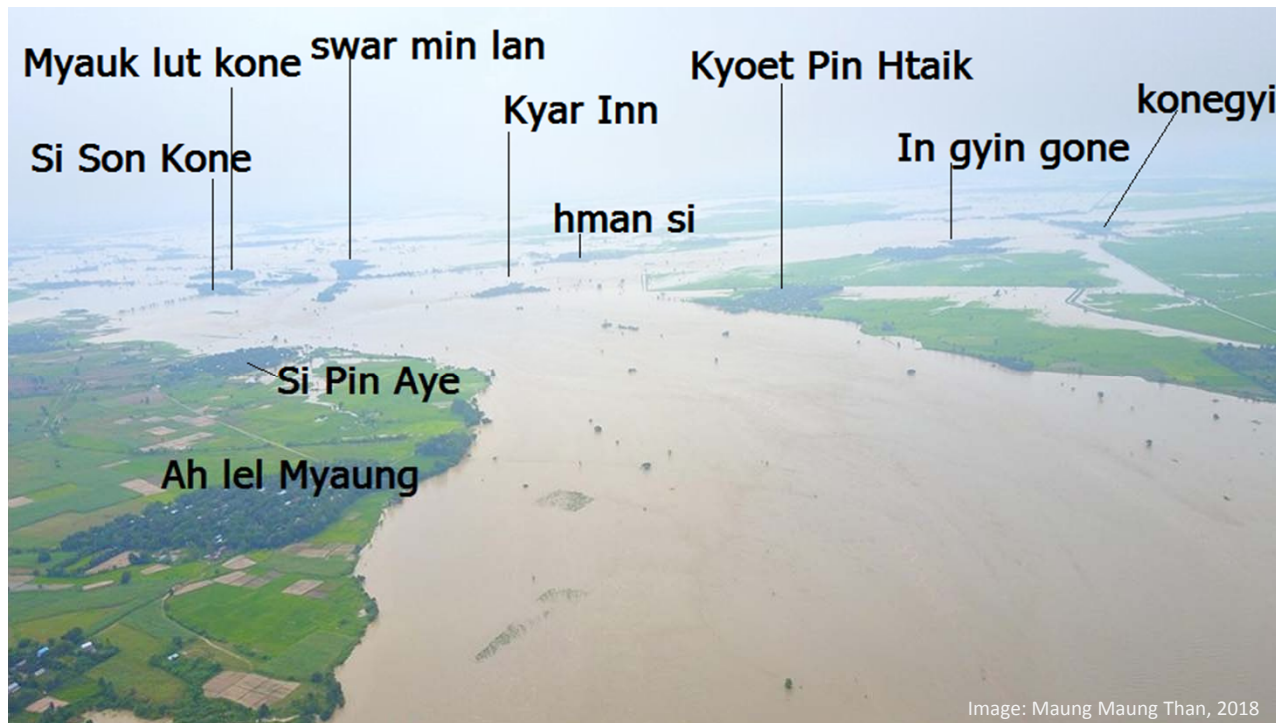


Image: Maung Maung Than, 2018

3. Gaps and Challenges

- ***Possible under-reporting***
 - No capture of flash floods
 - Image not always taken at the peak of the flooding
- ***No platform for collection of field observations***
 - No mechanism in place to collect near real-time observations
 - No link between incoming data, Damage&Loss and flood mapping
- ***Late delivery for Government briefing***
 - First maps 1 week after the disaster



4. Gaps and Challenges



Analysis limitations

- No data of flood duration (nb days of submergence)
- No national system to track flood historical data over time

Limited access to baseline datasets

- No population data at village level
- No list of evacuation sites
- Restricted data on critical infrastructure: bridges, health facilities, electricity grid, telecom tower, etc.
- Possible over-reporting due to lack of baseline info (paddies)

Damage and loss analysis is made difficult

5. Are these maps useful?

Relevant at National level

- **Evidence Base** to brief the Government and decision-makers
- **Prioritization** for resource allocation - UN Agencies and INGO
- **Area estimation** for recovery planning - DDM
- **Analysis** - *FAO & MoALI joint crop assessment*

Limited use at local level

- **General Administration Dept** village list
- **No habit** to read maps, good local knowledge
- **Limited bandwidth and printing** capacity (no plotter)
- **Little GIS capacity** in the field

Research

- **Flood modeling** (Yangon Technological University)



6. Way forward

How can we improve?

- ***Data preparedness***
 - Villages
 - Infrastructure
 - Evacuation centres
 - Vulnerability data
 - Supporting development of a national coding system to enable interoperability of data from different sources
- ***Collect rapid field observations***
 - Strengthening collaboration with local actors
 - Linking with national systems as and when they come into place (such as a national DALA)
- ***Building local capacity*** for mapping
 - QGIS, Google Earth, mobile GPS trainings



ありがとうございました

Thank you