MIMU - GIS Working Group

GIS Working Group - Introduction

MIMU GIS Activities

National Forest Inventory (NFI) Data Collection Survey Design and Analysis

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GIS Working Group

GIS Working Group Terms of Reference

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Geographic Information System Working Group - GIS-WG

1. Background
The GIS Working Group (GIS WG) was formed in 2009 to address common geospatial issues – maps, boundaries, data exchange, standards – that affect the work of agencies working in humanitarian, development and peace-related sectors in Myanmar. .

2. Objectives
The GIS WG is a technical platform for the coordination of GIS initiatives related to humanitarian, development and peace-related activities in Myanmar. It does not seek to centralize data but rather to provide a source of 'information on information', helping to direct interested parties to relevant agencies where specific data are held. Its objectives are as follows:

1) Develop and share best practices as well as new developments in cartography, GIS and Remote Sensing,
2) Exchange information and experiences on how spatial data has been collected, processed, and analysed, as well as exchange of relevant data, final products, policies and procedures;
3) Establish, adapt and promote standards and international norms to the Myanmar context for maps and other geospatial information which enable information sharing and exchange to enable better use of resources;
4) Promote transparent information sharing to promote better use of available information and avoid duplication;
5) Promote capacity building to improve spatial data management supporting humanitarian and development programming;
6) Collaborate in agreeing, developing and disseminating common tools and approaches to gathering and using geospatial information standards and practices in humanitarian response, peace and development activities, including common mapping platforms, common operational datasets (CODs), templates, etc;
7) Advocate for improved policies in the use of international standards, norms and best practice that promote the efficient and effective use of GIS to support activities in humanitarian, and development sectors.

GIS Working Group Terms of Reference

3. Structure and Membership

The GIS Working Group is a standing working group under the inter-agency Information Management Network and will report back to the IM Network on its activities and progress.

Members of the GIS Working Group will be open to representatives from all civil society actors involved in GIS related activities supporting humanitarian and development work in Myanmar, including NGOs, UN agencies, donors, and other entities as required. The GIS Working Group will actively work to engage stakeholders across all relevant sectors to ensure a broad base for coordination.

The GIS Working Group may establish time-bound task groups as required to work on specific activities and report back regularly on their achievements or needs.

Frequency of the meeting: The GIS working group will meet on a quarterly basis, with further ad-hoc meetings organized according to the needs or situation.

Minutes and other resources: MIMU will chair the working group and provide secretariat support. Minutes and documentation relevant to the working group meetings will be disseminated directly to the group members and shared through a dedicated page on the MIMU website.

GIS Working Group members will exchange information and resources through the GIS WG mail group.

GIS Working Group Terms of Reference

4. **Expected Outputs**

1) Regular meetings and shared communications which provide a forum for the exchange of data and information on upcoming studies, database tools, remote sensing analysis and other relevant activities, initiatives and emerging priorities;

2) Maintain a list of key data producers and sources, which data is produced and the status of its availability (Data cataloguing);

3) Identification of the main challenges and emerging issues to progressing on the improvement of spatial data management in Myanmar, which of those challenges the GIS WG can collaborate to overcome, and an action plan for doing so;

4) Develop a common understanding of the minimum set of key geospatial parameters to facilitate data exchange among agencies working in humanitarian and development-related sectors (including data collection tools, Place Codes, projections, and common operational datasets/ CODs etc);

5) Definition of the roles and responsibilities in the event of a major disaster, including data collection, data sharing and exchange, data processing and dissemination;

6) Collaboration in data/information gathering;

7) Information sharing on capacity needs, resources and collaboration in capacity building initiatives;

8) Sharing new technologies, seminars, events and activities related to cartography, GIS and Remote Sensing;

9) Other priorities as defined by the GIS Working Group.

MIMU GIS Activities

- Admin Boundary updating

- Ward Boundary Digitizing

- MIMU Map Maker

- Customer Request Mapping

- Hazard Monitoring and Mapping

    - Flood

    - Cyclone

    - Earthquake

- Village Mapping Activities

- MIMU Data Catalog

- Basic QGIS Training

- Basic Mapping Training

MIMU GIS Activities

Category	Layer Name	Definition/Content	Layer Types	Sharing Status	Metadata	Procedure	Download d?	Pcode Version	Main Source	Maintenance By	Secondary / Complementary Source	Remark
Admin	National Boundary	Polygons of National boundaries for Myanmar (Admin 0), based on the latest MIMU Pcode	Feature Layer	Public	This dataset was developed by MIMU to provide accessible national base administrative GIS information. This product	Collect: Based on the latest MIMU Pcode version 9.3 . Place Names from General Administration Department (GAD).	Yes	V 9.3	GAD and Survey Department (250,000 scale Topographic Maps)	MIMU	MIMU	
	State and Region Boundaries	Polygons of Myanmar State and Region boundaries (Admin1), based on the latest MIMU	Feature Layer	Public	This dataset was developed by MIMU to provide accessible national base administrative GIS information. This dataset	Collect: Based on the latest MIMU Pcode version 9.3 . Place Names from General Administration Department (GAD).	Yes	V 9.3	GAD and Survey Department (250,000 scale Topographic Maps)	MIMU	MIMU	
	District Boundaries	Polygons of Myanmar District boundaries (Admin2), based on the latest MIMU Pcode	Feature Layer	Public	This dataset was developed by MIMU to provide accessible national base administrative GIS information. This dataset	Collect: Based on the latest MIMU Pcode version 9.3 . Place Names from General Administration Department (GAD).	Yes	V 9.3	GAD and Survey Department (250,000 scale Topographic Maps)	MIMU	MIMU	
	Township Boundaries	Polygons of Myanmar Township boundaries (Admin3) with Sub-regions, based on the latest	Feature Layer	Public	This dataset was developed by MIMU to provide accessible national base administrative GIS information. This dataset	Collect: Based on the latest MIMU Pcode version 9.3 . Place Names from General Administration Department (GAD).	Yes	V 9.3	GAD and Survey Department (250,000 scale Topographic Maps)	MIMU	MIMU	
	Village Tract Boundaries	Polygons of Village Tract boundaries (Admin4) , based on the latest MIMU Pcode version 9.3 .	Feature Layer	Public	This dataset was developed by MIMU to provide accessible national base administrative GIS information. This product	Collect: Based on the latest MIMU Pcode version 9.3. Place Names from General Administration Department (GAD).	Yes	V 9.3	GAD	MIMU	MIMU	
	Ward Boundaries	Ward shape file (polygons) for Myanmar which includes 175 towns. Source: Digitization based	Feature Layer	Public	This dataset was developed by MIMU to provide accessible national base administrative GIS information. This product	Collect: Based on the latest MIMU Pcode version 9.3 and Digitization. Place Names from General Administration	Yes	V 9.3	GAD	MIMU	MIMU	P-codes missing in Kyaikto (Mon): 1 ward
	Self Administered Zones	Myanmar self administered regions boundaries (polygons), based on the latest MIMU Pcode	Feature Layer	Public	This dataset was developed by MIMU to provide accessible national base administrative GIS information. This product	Collect: Based on the latest MIMU Pcode version 9.3 based on Township layer. Place Names from General Administration	Yes	V 9.3	GAD	MIMU	MIMU	
Settlement	Town	Towns are urban areas divided into wards. It is distinct from villages and village tracts. This	Feature Layer	Public	This dataset was developed by MIMU to provide accessible national base administrative GIS information. This product	Collect: Based on the latest MIMU Pcode version 9.3. Place Names from General Administration Department (GAD).	Yes	V 9.3	GAD	MIMU	MIMU	
	Village	Village locations (points) are based on the latest MIMU Pcode version 9.3 . Place names from	Feature Layer	Public	This dataset was developed by MIMU to provide accessible national base administrative GIS information. This product	Collect: Based on the latest MIMU Pcode version 9.3. Place Names from General Administration Department (GAD).	Yes	V 9.3	GAD	MIMU	MIMU	
Transportation	Myanmar Sea Port	Location of Sea Ports in Myanmar. Attributes include Port Name, Port Type (Sea port and deep	Feature Layer	Public	This dataset was developed by MIMU to provide accessible national base transportation GIS information on location of	Collect: Based on the Myanma Port Authority Update: Done by MIMU according to available information of	Yes		Myanma Port Authority, http://www.mpa.gov.mm/	MIMU	MIMU	
	Myanmar Airport	Location of Airports in Myanmar. Attributes include airport Identification, airport	Feature Layer	Public	This dataset was developed by MIMU to provide accessible national base transportation GIS information on location of	Collect: Based on the Mission Aviation Fellowship (MAF - Myanmar)	Yes		Mission Aviation Fellowship (MAF - Myanmar)	MIMU	MIMU	
	Myanmar Railway Network 2022	Myanmar national rail network (lines). Place names from General Administration Department	Feature Layer	public	This dataset was developed by MIMU to provide accessible national base transportation GIS information. This product	Collect: Based on the Google Satellite images and Digitization. Update: Done by MIMU according to available information	Yes		Ministry of Transport and Communications	MIMU	MIMU	
	Myanmar Road Network 2022	Road network with main, secondary and tertiary roads in Myanmar. This network-based	Feature Layer	Public	This dataset was developed by MIMU to provide accessible national base transportation GIS information. This product	Collect: Based on the Survey Department (250,000 scale Topographic Maps), OpenStreetMap (OSM) and Digitization.	Yes		Survey Department (250,000 scale Topographic Maps) and OpenStreetMap (OSM)	MIMU	MIMU	
Infrastructure	Electrical Power Plant_MMR	Myanmar national Electrical Power Stations.	Feature Layer	Public	This dataset was developed by MIMU to provide accessible national base electrical power plant location information.	Collect: Based on Ministry of Electricity and Energy Update: Done by MIMU according to available information.	No		https://www.moee.gov.mm/	MIMU	MIMU	
	Ayeyarwady Region Electirc Power Pole Locations	Electrical power pole locations in Ayeyarwady Region.	Feature Layer	Private	This dataset was developed by MIMU to provide accessible national base electrical power pole location information.	Collect: World Bank Update:	No		https://www.moee.gov.mm/	MIMU	MIMU	
	Sagaing Region Electirc Power Pole Locations	Electrical power pole locations in Sagaing Region.	Feature Layer	Private	This dataset was developed by MIMU to provide accessible national base electrical power pole location information.	Collect: World Bank Update:	No			MIMU	MIMU	
	Myanmar Electric Power Transmission Lines (2019)	Myanmar national Electrical Power Transmission Lines.	Feature Layer	Public	This dataset was developed by MIMU to provide accessible national base electrical power grid information. This	Collect: Based on Ministry of Electricity and Energy Update: Done by MIMU according to available information.	No		https://www.moee.gov.mm/	MIMU	MIMU	

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GIS Events

GIS Events

Event/ Conference Title	Date		Duration	Link	Remark
	From	**To**			
Leveraging Remote Sensing and Geoinformatics Fire and Related Emissions for Environmental Health	September 27, 2022	September 27, 2022		https://www.mdpi.com/journal/remotesensing/events	
International Conference on Geoinformatics and GIS	October 13, 2022	October 13, 2022		https://maps-and-atlases.com/madrid2022/registration/	
Training Title					
Getting Started with CyberGIS	August 08, 2022		4 weeks long, 9-10 hours worth of material	https://www.classcentral.com/course/cybergis-40649	
Visualize Real Time Geospatial Data with Google Data Studio	August 08, 2022		1-2 hours worth of material	https://www.classcentral.com/course/googlecloud-visualize-real-time-geospatial-data-w-84710	
Machine Learning for Earth System Sciences	August 24, 2022		8 weeks long	https://www.classcentral.com/course/swayam-machine-learning-for-earth-system-sciences-91698	
Transform AEC Projects with GIS and BIM	September 14, 2022	October 12, 2022		https://www.esri.com/training/catalog/6257059de00e450c2a24e4e7/transform-aec-projects-with-gis-and-bim/	
Spatial Data Science: The New Frontier in Analytics	October 05, 2022		6 Weeks (2-3 hours of study per week)	https://www.esri.com/training/catalog/5d76dcf7e9ccda09bef61294/spatial-data-science%3A-the-new-frontier-in-analytics/	
Classify Power Lines Using Deep Learning			1 Hour, 30 Minutes	https://www.esri.com/training/catalog/6193e08d5dcc9e4673c19fc8/classify-power-lines-using-deep-learning/	
Automate Fire Damage Assessment with Deep Learning			1 Hour, 15 Minutes	https://www.esri.com/training/catalog/61affe2b9ed7396729c49a15/automate-fire-damage-assessment-with-deep-learning/	
Esri ArcGIS Maps for Creative Cloud Extension			1-2 hours worth of material	https://www.classcentral.com/course/linkedin-learning-esri-arcgis-maps-for-creative-cloud-extension-76490	
Basics of JavaScript Web Apps			1 Hour, 15 Minutes	https://www.esri.com/training/catalog/580fc1dea4a46d172b116049/basics-of-javascript-web-apps/	
Getting Started with ArcGIS Pro			5 Hour, 30 Minutes	https://www.esri.com/training/catalog/57630435851d31e02a43f007/getting-started-with-arcgis-pro/	
ArcGIS Maps for Power BI			4-5 hours worth of material	https://www.classcentral.com/course/youtube-arcgis-maps-for-power-bi-93246/classroom	
Inspect Assets with Oriented Images			1 Hour, 15 Minutes	https://www.esri.com/training/catalog/6230e228fb4cbd5509b55471/inspect-assets-with-oriented-images/	
Artificial Intelligence (AI) for Earth Monitoring			3 hours a week, 6 weeks long	https://www.classcentral.com/course/artificial-intelligence-for-earth-monitoring-55759	
Synthetic Aperture Radar: Hazards			6 weeks long, 4-6 hours a week	https://www.classcentral.com/course/edx-synthetic-aperture-radar-hazards-21141	
Introduction to Geospatial Analysis with Python GeoPandas			2-3 hours worth of material	https://www.classcentral.com/course/youtube-introduction-to-geospatial-analysis-with-python-geopandas-93221/classroom	

A.O.B?

Thanks!!!