Status and challenges on Geo-DRM Information Systems

Country Presentation - SAMOA

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SAMOA

- Due to its size and location, Samoa is highly vulnerable to natural disasters particularly tropical cyclones as it lies near the 'cyclone belt' near the earthquake-generating Tonga Trench.

Current Status on Geo-DRM Information Systems

Mapping Section (MNRE)

- The mapping section deals with works relating to remote sensing technology which acquire and analyze satellite imageries and geographical information system (GIS) related works which results in generating of maps for different purposes within the ministry and its stakeholders.

Surveying and Mapping Software

- SDRMap: currently uses for Surveying.
- MapInfo: Mostly used for GIS and Map Production.
- Open source software
  - Quantum GIS
  - Global Mapper
  - Base Camp

Management of Remotely Sensed Dataset.

– Aerial Photography

– satellite imageries

Remote Sensing and GIS role in Disaster Risk Management

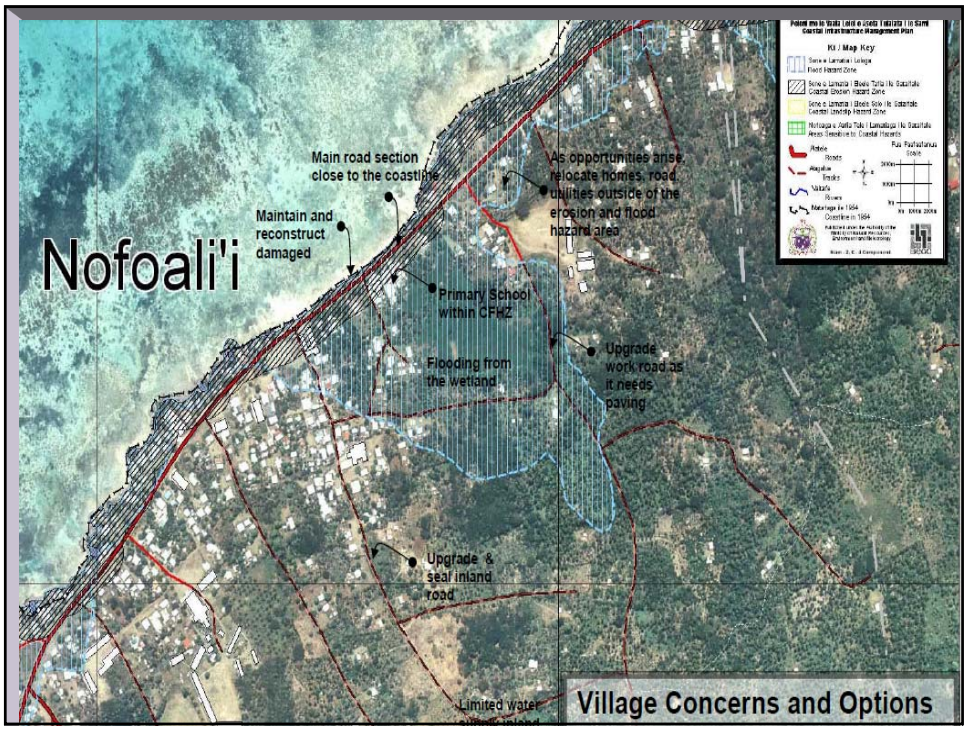
- Emergency Planning
- Emergency Response
- Evacuation Sites
- Information Preparedness
  - Know vulnerability and risk to prioritize preparedness action
  - Improve Risk Assessment using space based information
  - Availability and access to collateral geospatial data
  - Use of mapping products/information by decision makers

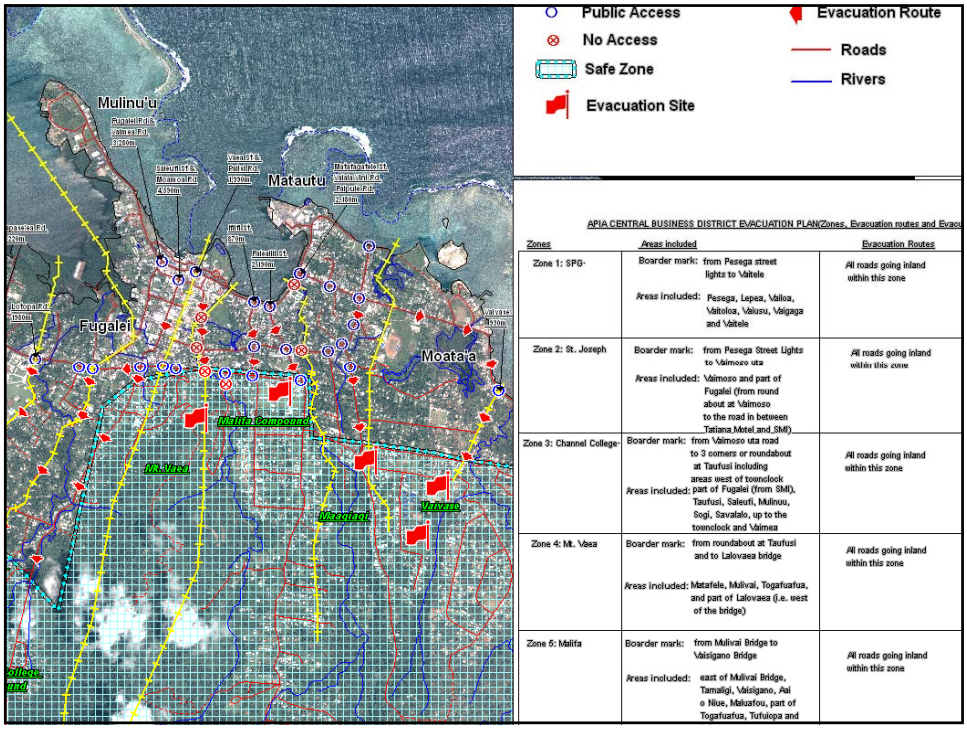
What we utilize in DRR:

- Coastal Infrastructure Management Plans (CIM Plans)

-Coastal Hazard Maps

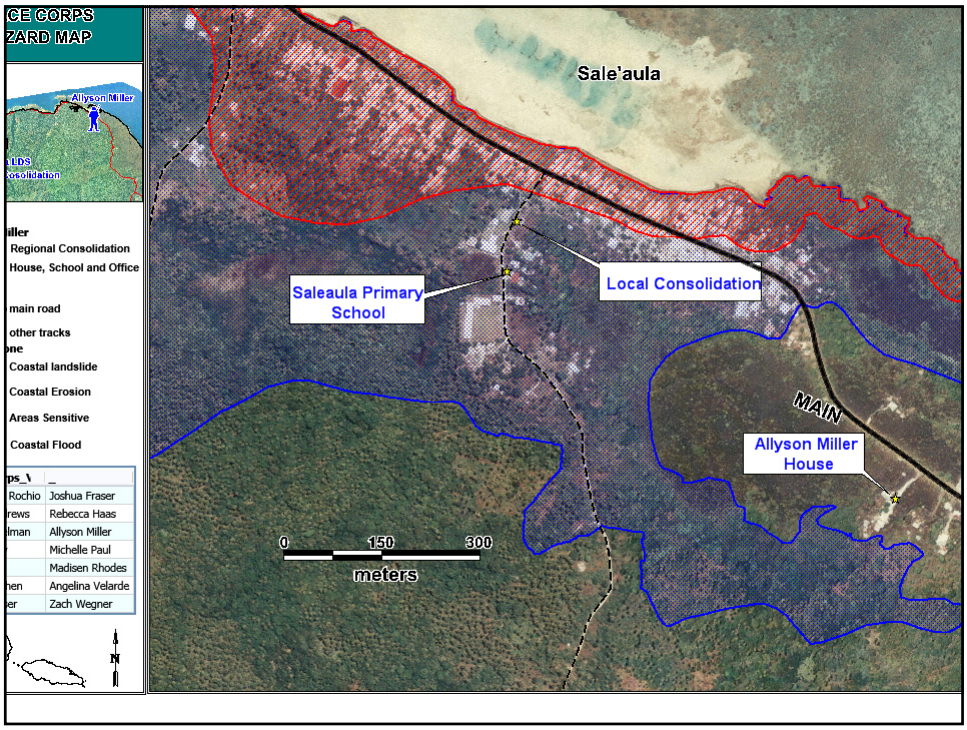
-Evacuation Maps





APIA CENTRAL BUSINESS DISTRICT EVACUATION PLAN(Zones, Evacuation routes and Evacu

Zones	Areas included	Evacuation Routes
Zone 1: SPG-	Boarder mark: from Pesega street lights to Vaitele Areas included: Pesega, Lepea, Vailoa, Vaitoloa, Vaiusu, Vaigaga and Vaitele	All roads going inland within this zone
Zone 2: St. Joseph	Boarder mark: from Pesega Street Lights to Vaimoso uta Areas included: Vaimoso and part of Fugalei (from round about at Vaimoso to the road in between Tatiana Motel and SMI)	All roads going inland within this zone
Zone 3: Channel College-	Boarder mark: from Vaimoso uta road to 3 corners or roundabout at Taufusi including areas west of townclock Areas included: part of Fugalei (from SMI), Taufusi, Saleufi, Mulinuu, Sogi, Savalalo, up to the townclock and Vaimea	All roads going inland within this zone
Zone 4: Mt. Vaea	Boarder mark: from roundabout at Taufusi and to Lalovaea bridge Areas included: Matafele, Mulivai, Togafuafua, and part of Lalovaea (i.e. west of the bridge)	All roads going inland within this zone
Zone 5: Malifa	Boarder mark: from Mulivai Bridge to Vaisigano Bridge Areas included: east of Mulivai Bridge, Tamaligi, Vaisigano, Aai o Niue, Maluafou, part of Togafuafua, Tufuiopa and	All roads going inland within this zone



Gaps/Challenges

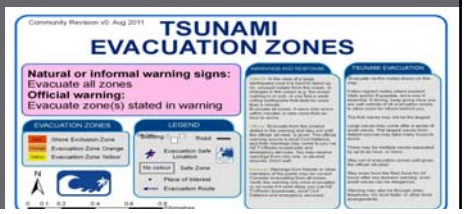
- • Data(1999) out of date – update images (satellite/aerial)
- • Equipment and software – upgrade software and new computers
- • Trainings (analysis) – provide advance training for the staff (capacity building) Need GIS expert within DMO
- • Spatial Information barrier – the information must be share to the public especially to all the GIS users
- lack of sharing of info between divisions esp during disasters. - Centralized

Recent major events in SAMOA

2009 Tsunami

Tuesday, September 29, 2009, generating 15ft (4.5m) tsunami waves in some areas of the Samoa Islands. 149 people died

- o Coastal erosion
- o Coastal flooding



预览已结束，完整报告链接和二维码如下：

https://www.yunbaogao.cn/report/index/report?reportId=5_6802