UN-SPIDER und Crowdsourcing für Katastrophenmanagement

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Katastrophen Vorsorge:
- Hazard
- Exposure
- Vulnerability
→ Risk

Katastrophen- nachsorge:
- Lage
- Schadensermessung
2. Das Potential wird nicht ausgeschöpft wegen fehlender Verbindung zwischen Katastrophenmanagern, Daten providern und Crowdsourcing Community.

- Schwieriger Zugang zu Daten

- Mangelndes Verständnis für Bedürfnisse der Nutzer
- Mangelndes Wissen über Zugang zu Satellitendaten

- Mangelndes Wissen über Verfügbarkeit von Daten
- Mangelndes Vertrauen in die Qualität der Daten
3. **UN-SPIDER** hilft, die Verbindung zwischen Daten providern, Crowdsourcing Community und Katastrophenmanagern herzustellen.

- **Weltraum Community** stellt Satelliten-Technologie zur Verfügung
- **Crowdsourcing Community** nutzt Weltraum-technologie, um Informationen bereitzustellen
- **Katastrophenmanagement Community** nutzt Informationen zur Katastrophenvor- und -nachsorge
3. **UN-SPIDER**: Technical Advisory Support

**Host Institution:** Department of Disaster Management Affairs (DoDMA)

**Mission Team:**

UN-SPIDER invited seven experts with a broad range of expertise and diverse backgrounds in the space-technology, disaster management and crowd-sourcing sectors to join the two UN-SPIDER experts on the mission team. The experts represented various United Nations agencies, academia and international as well as national organisations: United Nations Economic Commission for Africa (UNECA), Humanitarian Open Street Map (HOT), French Research Institute for Exploitation of the Sea (IFREMER), Technical University Vienna, Group on Earth Observation (GEO), Regional Centre for Mapping and Resources for Development (RCMRD) and the National Disaster Reduction Center China (NDRCC).
3. UN-SPIDER: Crowdsourcing Workshops
3. UN-SPIDER: Simulation exercise Samoa

Pin Point Brendan @PinPointAlerts · 4. Dez. 2011
Really enjoyed participating in the @UN_SPIDER-sponsored Samoan Cyclone alert exercise yesterday. Thanks to @ALERTSsp for all the feedback.

Jen Ziemke @jenziemke · 3. Dez. 2011
Samoan leads the way in charting a new era for disaster response #crismapping. good job @ALERTSsp @SBTaskForce & all.

Ushahidi @ushahidi · 3. Dez. 2011
Have you seen the @standbytaskforce's map with @ALERTSsp for the UN Samoa Simulation? Great work folks - bit.ly/tj9ZiZ

Rochelle Dolim @MariposaX · 3. Dez. 2011
@ALERTSsp #CycloneSimSamoa Why not have ham radios/generators available so communication is not lost. Too much reliance on satellites.

David Leng @ALERTSsp · 3. Dez. 2011
Cyclone Sim Samoa: MEDical report: Confirmed deaths 10, Missing 50+, injured in hundreds so far. 2 Hospitals severely damaged and unusable

Chris Dennenmoser @sahnetaeter · 2. Dez. 2011
EXERCISE!!! RT @alertsssp: Cyclone sim Samoa: Unverified reports coming from Savaii of several people being taken by the wind
3. **UN-SPIDER**: Simulation exercise Samoa
3. UN-SPIDER: Simulation exercise Samoa

### OSM Tasking Manager

**Samoa Cyclone Simulation (Upolu Island) - Detailed Mapping**

*Warning! This job has been archived. You’re not supposed to work on it anymore.*

<table>
<thead>
<tr>
<th>Description</th>
<th>Instructions</th>
<th>Task</th>
<th>Users</th>
<th>Stats</th>
</tr>
</thead>
</table>

1. Select Bing Imagery.

2. Trace all roads, rivers and buildings in the square assigned. Please add **source=Bing** for any features you add.

3. When uploading the Edit to the OSM Server, specify in the Comment field: Samoa Upolu Island [http://tasks.hotosm.org/job/18](http://tasks.hotosm.org/job/18), Bing Imagery

**Imagery**

3. **UN-SPIDER**: Simulation exercise Samoa

**OSM Tasking Manager**

**Samoa Cycling**: Bing Image - OpenStreetMap Editor

1. Select Bing Image (source=Bing for an aerial view)
2. Trace all roads, rivers and other objects
3. When uploading the completed OSM map, classify Samoa Uplol Island

**Imagery**

http://www.openstreetmap.org

*from Savaii or several people being taken by the wind*
3. **UN-SPIDER**: Simulation exercise Samoa

**OSM Tasking Manager**

**Samoa Cycle**: 1. Select Bing Imagery
2. Trace all roads, rivers, and coastlines using source=Bing and available Imagery
3. When uploading the data, ensure it is for Samoa Upolu Island

**Description**

1. Select Bing Imagery
2. Trace all roads, rivers, and coastlines using source=Bing and available Imagery
3. When uploading the data, ensure it is for Samoa Upolu Island

**Imagery**

http://www.openstreetmap.org

**Layers**

- Create new points by dragging them onto the map
- Shopping:
- Food and Drink:
- Amenity:

**Background**

Total (17) | Done (10) | Validated (15) | User worked on (0)
3. **UN-SPIDER: Simulation exercise Samoa**
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3. **UN-SPIDER**: Simulation exercise Samoa

Approximate coastline after surge

**Samoa Simulation Project - UN-Spider Simulation**

Storm Surge and building condition datasets are provided by the Joint Research Center (JRC). Crowd-Sourced data is obtained from USaid Hill Institute.

The analysis is performed by GISCORPS volunteers, December 2011.
3. **UN-SPIDER**: Simulation exercise Samoa
3. **UN-SPIDER**: Simulation exercise Samoa

![UN-SPIDER: Simulation exercise Samoa](image)
3. UN-SPIDER: Simulation exercise Samoa
3. **UN-SPIDER**: Wissensmanagement - www.un-spider.org

**International Charter „Space and Major Disasters“**

The International Charter „Space and Major Disasters“ is a worldwide collaboration among space agencies, through which satellite-derived information and products are made available to support disaster response efforts. The Charter has been operational since November 2000 and currently, the following space agencies worldwide participate in the mechanism: ESA, CNES, CSA, NASA, CONAE, ISRO, JAXA, USGS, DLR, CNR, INPE, ELAMETSAT, and ROSCOSMOS.

Only agencies that possess and are able to provide satellite-based firm observation data can be members of the international Charter. The members cooperate on a voluntary basis. Each member agency receives and products. The managers for acting of the mechanism agencies in court.

**Contact Us!**

Feel free to contact us if you have a comment or a question.

Organisation (ISRO)

UNOSAT: Destruction in Dumatang, Leyte Province, Philippines

UNOSAT: Destruction in Tabunbatang Town, Leyte Province, Philippines

USGS (Global Visualization layer - pick path 144 & rows 52 & 53 (LandSat))

GSI: Infrastructure datasets Philippines

USM: Response Maps & satellite tracking activities

Ford Disaster Maps

American Red Cross: An aerial damage overview in Typhoon haiyan in Philippines

**Data Sources**

- Data Type: <Any>
- Temporal Coverage: <Any>
- Spatial Coverage: <Any>
- Data accessibility: <Any>
- File types: shp, kml, csv, etc.
- Sensor (e.g. MODIS)

**UN-SPIDER Newsletter**

text

**Data Sources Table**

<table>
<thead>
<tr>
<th>Name of the dataset</th>
<th>Data Type</th>
<th>Costs</th>
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<th>Hazard</th>
<th>Data accessibility</th>
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<tbody>
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<td>mapping</td>
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Danke für die Aufmerksamkeit

www.un-spiders.org