Demo



Current Status

Content

- Content compilation is on a good way for some categories
- Still need more content / papers / publications
- You can contribute!

Implementation

- Still under technical development due to little technical resources
- First working version of the SAM, thanks to Brian Tomaszewski
- You have knowledge in Flash / Drupal / PHP?

Contribution

 Online form for content contribution http://bit.ly/sam-contribution



Space Application Matrix

Legend / Products

- RM: Risk Map
- BAM: Burn Area Map
- D & M: Detection & Monitoring
- FCM: Forest Change Monitoring
- DAM: Damage Assessment Map
- LuCM: Land use Change Map
- VM: Vulnerability Map
- IM: Inundation Map
- HM: Hazard Map
- R & M: Reconstruction Monitoring
- FRM: Flood Risk Monitoring
- RPM: Recovery Progress Map
- 3D DVA: 3D Damage Visualization and Animation
- DSM: Dust Storm Monitoring
- OSD: Oil Spill detection
- OSRM: Oil Spill Risk Map
- OWPM: Open Water Pollution Map
- FDAM: Forest Damage Assessment Map
- IDAM: Infrastructure Damage Assessment Map
- EHRM: Extreme Heat Risk Map

- UCRA: Urban Classification for Risk Analysis
- VAM: Volcanic Activity Monitoring
- VT: Volcanic Topography
- TADMGV: Thermal Anomalies Detection for Monitoring Global Volcanism
- VCM: Volcanic Cloud Monitoring
- SDD: Sulfur Dioxide Detection
- VDA: Vegetation Damage Assessment
- LHA: Landslide Hazard Assessment
- LM: Landslide Monitoring
- DIM: Drought Index Map
- DIM SMM: DIM for Soil Moisture Monitoring
- DIM_VM: DIM for Vegetation Monitoring
- IDRM: Infectious Diseases Risk Map
- NEEL: Nuclear Explosion Epicenter Localization
- DP: Damage Profiles
- DF: Detection & Forecast
- LHM: Locust Habitat Map



Space Application Matrix

DAM

• R & M

• IM

Earth Observation / Remote Sensing

• BAM

• FCM

Recovery

Disaster Type						
Disaster Management Phase	Fire	Tsunami	Flood	Earthquake	Volcano	Mass Movement
		. DANA				

Phase						
Mitigation	• RM	DAMRMLuCMVMIM	• IM • DAM • RM • FRM	• 3D_DVA • UCRA	• VAM • VT	• LHA • LM

Mitigation	• RM	LuCMVMIM	• RM • FRM	• UCRA	• VT	• LM
Preparedness	• RM	• HM • VM	• DAM		• TADMGV • VCM	• LHA

Preparedness	• RM	 HM VM IM RM	• DAM • IM	TADMGVVCMVAM	• LHA
		• DAM			

• DAM

• RPM

• IM

• DAM

• R & M

VDA

• DAM



Disaster Type

United Nations Platform for Space-based Information for Disaster Management and Emergency Response

Space Application Matrix

Earth Observation / Remote Sensing II

Disaster Management Phase	Drought	Epidemic	Pollution	Severe Storm	Extreme Temperature	Insect Infestation
Mitigation	• DIM • DIM_SMM • DIM_VM	• IDPM	• DSM • OSD	• DP	• EHDM	• I HM

Mitigation	DIMDIM_SMMDIM_VMRMVM	• IDRM	DSMOSDOSRMOWPM	• DP	• EHRM	• LHM
	• DIM			5.0.5		

	• VM		• OWPM		
Preparedness	DIMDIM_SMMDIM_VMRM	• IDRM	• DSM	• D & F	

	• RM			
Response	DIMDIM_SMMDIM_VM	• NEEL • OSD	• FDAM • IDAM	• FCM
Recovery			• FDAM • IDAM	• FCM

• RPM



Space Application Matrix

Satellite Navigation

Disaster Type Disaster Type Disaster Type Disaster Type	Fire	Tsunami	Flood	Earthquake	Volcano	Mass Movement

• Risk Deformation Mitigation Management & Monitoring Forecast Early Warning **Preparedness**

Systems

Response GPS Positioning

Recovery

Satellite Navigation II

Response

Recovery

Disaster Type						
Disaster Management Phase	Drought	Epidemic	Pollution	Severe Storm	Extreme Temperature	Insect Infestation

Mitigation Forecast

Preparedness

Space Application Matrix

Satellite Communication

Disaster Type						
Disaster Management Phase	Fire	Tsunami	Flood	Earthquake	Volcano	Mass Movement
Mitigation						

Preparedness

• Early Warning
Systems

• Satellite Phone
• VSAT
• Telemedicine

Recovery

Disaster Management and Emergency Response

Satellite Communication II

Recovery

Disaster Type						
Disaster Management Phase	Drought	Epidemic	Pollution	Severe Storm	Extreme Temperature	Insect Infestation

Mitigation

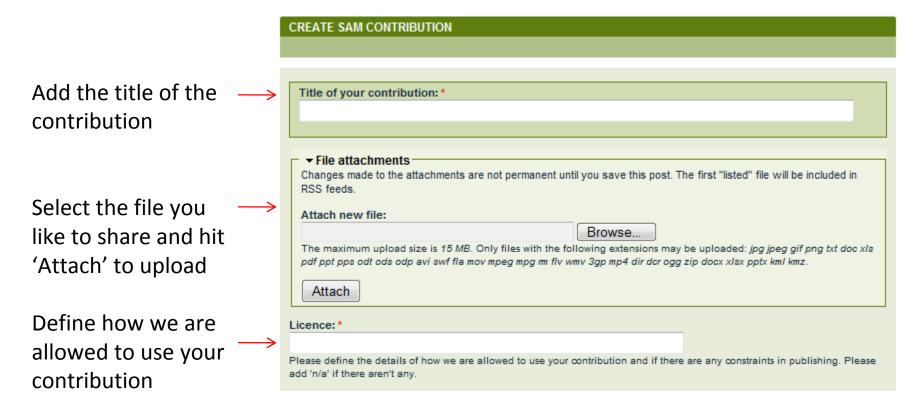
Preparedness

• Satellite Phone VSAT Response

• Telemedicine

Content Contribution

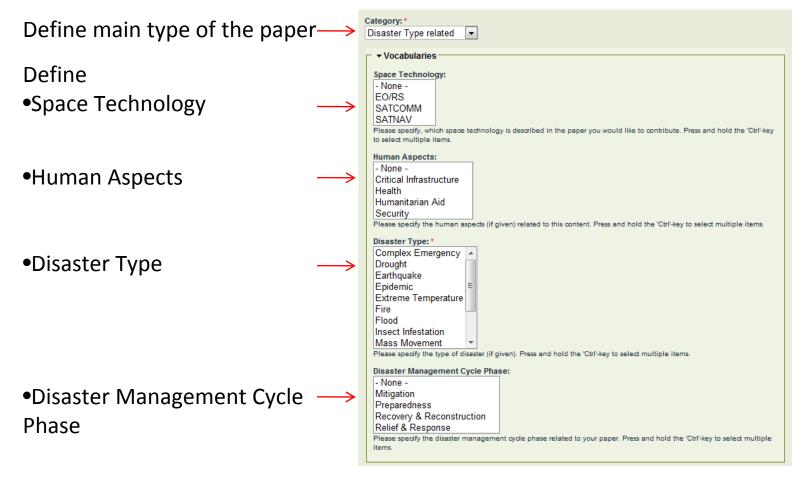
http://bit.ly/sam-contribution





Space Application Matrix

Content Contribution II





Space Application Matrix

Content Contribution III



Save and submit



Space Application Matrix

Contact us

Questions, problems, other ways of contribution?

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Technical Issues / Implementation Peter Stumpf peter.stumpf@unoosa.org

Online Contribution http://bit.ly/sam-contribution



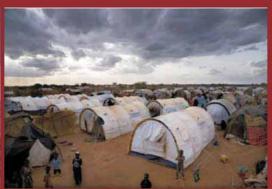
http://www.un-spider.org/jbgis-unoosa-booklet

United Nations Platform for Space-based Information for Disaster Management and Emergency Response









Joint Board of Geospatial Information Societies

United Nations Office for Outer Space Affairs

Geoinformation for Disaster and Risk Management

Examples and Best Practices











The <u>Val</u>ue of Geo-<u>Information for Disaster and Risk Management (VALID) – Working title</u>

