

GMES Service Element transition to Fast Track Services

Emergency Response Support Service (ERSS)

Splinter Session conducted with representatives from:
RISK EOS, RESPOND and TERRAFIRMA.

- **Objectives:**
Reinforce European capacity to respond to emergency situation associated with meteorological-driven hazards, geophysical hazards, man-made disasters and humanitarian emergencies.
 - **Scope:** 1^{ly} the “response” part of the crisis management cycle.
 - **What:** Natural and technological disasters, complex emergencies.
 - **Where:** Europe & Rest of the World
 - **Users:** EU national teams, UN actors, Red Cross/crescent, Int. NGOs

- **(2007 Call) Core Services (short to medium term):**
Strengthening the preparedness and response Capabilities:
 - Rapid Mapping capacity in reponse to emergencies.
 - Preparatory services to collect and map spatial and socio-economic data in areas at risk.

- **Service Evolution:**
(marginal part of the 2007 Call)
 - Better document risk vulnerabilities through mapping of sensitive areas with risk level nomenclature (= Risk Mapping).
 - Design and streamline Early Warning and Preparedness systems

- **Reference Maps (differed time)**
 - Geographic Maps (background maps)
 - Historical Assets Maps
 - Historical situation Maps
 - Historical Hazard Maps
 - Historical Damage Scenario Maps
 - Events reports
- **Assessment Maps (crisis time)**
 - Actual Assets Map & Actual Situation Map
 - Actual Damage Assessment Map / Event rapid map (incl NRT)
 - Actual Hazard Map
 - Actual Damage Scenario Map
 - Situation Maps

- Overall there is a consensus that the GSE service portfolios of RISK EOS, RESPOND and TERRAFIRMA **do correspond to the requirements** as defined in the Implementation Group draft Report (and its annex c).
- This, primarily in the form of Core services.
- **Timeliness of service delivery** is a key aspect of the GMES service deliveries; this is largely dependent on the timely delivery of multi-sensor datasets (as part of the data access element of GMES Space Component – GSC).
- Good **correspondence of user segments** between these GSEs & ERSS (CPAs, national, european and international organisations concerned with disaster management and humanitarian aid)
- *Note: in addition to CPAs, the majority of Emergency services users engaged so far are from the international humanitarian community and are outside Europe (working under UN coordination); GMES Emergency services need to address the interface to this international community*

- the Splinter group have converged to assemble a **single consensus table comprising all relevant GSE services** and mapping them against the services as they are defined in the IG Report draft (and Annex c on rapid mapping services); this table is provided here after

GMES Emergency services (ERSS) portfolio as described in the Implementation Group Draft report and Annex (Rapid Mapping Services)							
Reference Mapping Service (differed time)				Assessment Mapping Service (crisis time)			
Geographic maps	Historical Assets map	pre-crisis situation maps & event reports	Historical Hazard map & Historical Damage scenario	Actual Asset maps & Actual situation maps	Actual Damage assessment maps/Event rapid maps	Actual hazard maps/Actual Damage scenario maps (using modelling)	Situation maps Security Maps, operations co-ordination – who/where/what - Refugee/IDP camps)

- > RISK EOS services
- > RESPOND services
- > TERRAFIRMA services

GMES Emergency services (ERSS) portfolio as described in the Implementation Group Draft report and Annex (Rapid Mapping Services)

Reference Mapping Service (differed time) **Assessment Mapping Service (crisis time)**

GSE Portfolio

	Geographic maps	Historical Assets map	pre-crisis situation maps & event reports	Historical Hazard map & Historical Damage scenario	Actual Asset maps & Actual situation maps	Actual Damage assessment maps/Event rapid maps	Actual hazard maps/Actual Damage scenario maps (using modelling)	Situation maps Security Maps, operations co-ordination - who/where/what - Refugee/IDP camps)
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RISKEOS

Flood Risk Analysis				X			(x)	
Flash Flood Early Warning								
Rapid Mapping					(x)	X		
Regional Rapid Mapping					(x)	X		
Regional Fire Monitoring					(x)	X		
Asset Mapping		X						
Burn Scars Mapping				X (yearly)		X (daily)		

RESPOND

Basic maps	X	(x)			X			(x) Comm.
Crisis & damage mapping					(x)	X		
Situation maps			(x)		(x)			X
Thematic maps: Health				X				
Thematic maps: Environmental Impact Assessment				X				(x)
Thematic maps: Prev/Reconstr/Planning				X				(x)
Refugee/IDP support maps			X					(x)

TERRAFIRMA

H1: Basic Terrain Motion Product				X				
H2: Interpreted Terrain Motion Product for Urban Stability, Floodplain Assessment and Crustal Deformation				X				
H3: Modelled Terrain Motion Product				X				
LSI: Landslide Inventory Product				X				
LSM: Landslide Monitoring Product				X		X		
POLARVIEW: River Ice Monitoring					(x)	X		

- **Service continuity is the single most crucial issue** for the user bases of the existing GSEs; user expectations have been raised with users from RISK EOS, RESPOND & TERRAFIRMA actions
- The **schedules between the GSE programme and the FP7 Call** must be taken into account carefully.
- The reasons are two-fold...

Schedule between the GSEs & the FP7 Call - crucial in order to:

1. ensure that GMES **do not fail to satisfy users by a lack of adequate financial support to ensure service delivery** (100+ SLAs now).
 - In particular for the Damage Assessment Mapping (major disasters) of RISK EOS & RESPOND there is higher user expectation (CPAs, UN, etc) than ability to deliver although the capacity is in place (funding)
 - Continuity of RISK EOS Fire services (Burnt scar: mediterranean basin of EU)
 - RISK EOS & TERRAFIRMA actions terminate in Nov 2008

 2. damage assessment mapping (rapid mapping, done in rush with 24/7 service) overall **lack adequate Quality Assurance: Qualification** of service chains, **Validation** of assessment mapping products
 - complex & difficult to achieve (timely delivery key driver; in-field work needed)
 - all 3 GSEs need to address validation; the ERSS activities would help
- Risk of hiatus; other sources exist (sustainability) but not the right scale
- The **Fast Track ERSS** needed in response to these risks