European Emergency Response Service - ERCS
to provide space based crisis information -
an element of Global Monitoring for Environment and Security (GMES)

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Civil Security & Emergency Response

Increasing demand for rapid crisis information on

- Natural disasters
  - E.g. Storms, earthquake, tsunami, volcano eruption

- Environmental disasters
  - Technical accidents (e.g. oil spills)

- Humanitarian relief issues
  - Search & Rescue missions
  - UN missions (e.g. UNICEF, WHO, UNHCR)

- Civil security/ Immanent threats for the Population
  - UN missions (e.g. EUFOR)
  - Illicit crop monitoring
Satellites can provide information for:

- Natural disasters preparation, early warning, alertness
- Damage assessment
- Rapid overview of a crisis
- Reconstruction monitoring

What is available today

- Google Earth
- UN (Charter “Space & Major Disasters”)
- Web
- JRC for EC institutes
- Establishment of European Service within the GMES initiative to support Emergency Response
Global Monitoring for Environment and Security

is a European initiative for the coordination, generation and provision of environmental and security-related information to policy-makers and other users

website: www.gmes.info
Global Monitoring for Environment and Security

Three Core Services

- Land
- Marine
- Emergency Resp.

Plus Two Pilot Services

- Atmosphere
- Security

Downstream Services, t.b.d.
GMES services EC FP7 Implementation

GMES Emergency Response Services

Safer

Three Core Services

Land

Marine

Emergency Resp.

Plus Two Pilot Services

Atmosphere

Security

Downstream Services, t.b.d.
The GMES Emergency Response Service reinforces the European capacity to observe and assess emergency situations at **Global**, **European** and **National** level.

Supports Emergency Response during the whole crisis cycle - **initial focus on rapid assessment and reference information**

Both, **natural disasters** and **conflict/humanitarian** topics supported.
Project – Aims
2009-2011

- Implements a **pre-operational mapping service** of the GMES Emergency Response Service

- focusing on **rapid & reference mapping** during the response phase, later enrich this service with a wider set of **thematic products**

Project – Aims
2009-2011

- **Facilitates the use of ERCS products** for EU civil protections and humanitarian aid users; integration of ERCS inside the users workflows

- Define and develop in a joint approach the **necessary IT technical & procedural interfaces** between ERCS and User focal points
ERCS products & services

supporting civil protection and humanitarian relief work

Early warning

Development/tailor made

Crisis/Recovery maps

Supporting:
- Headquarters
- Decision-makers
- In-field operatives
- In Europe and worldwide

Reference maps

Pre-operational

Development/tailor made

Thematic maps
What GMES/ERCS provides - Products

- **Emergency Mapping**
  - Emergency maps
    (what, where, what is affected)
  - Damage assessment maps
    (impact, population affected, severity of damage)

- **Non-Emergency Mapping**
  - Reference Maps (base maps for orientation, navigation, logistics, situational awareness)
  - Situation Maps (status of recovery and reconstruction)
  - Refugee / IDP Maps (camp location, layout, infrastructure, assessment)

customized satellite images and maps can be requested on a 24d/7h basis
Emergency Maps
Refugee/IDP-Maps
Rapid Reference Maps
ERCS - User Authorisation Process

Service Level Specification
- 24/7 service
- Free of charge

Product Portfolio Specification &
- Map types
- Quality control

User Licences
- Copyright
- IPR

General Terms
- Feedback
- Liabilities
- Return slip

User criteria set by ERCS
ERCS gateway
Online facility
ERCS works in close coordination with the end users

- **Users are in Europe and outside Europe**
  - Civil protections (27 national focal points + MIC)
  - Humanitarian aid actors (Red cross, NGO, etc.)
  - International organizations (UN, WFP)
  - In-field operatives
  - and decision-makers (European DG, national authorities, local and regional authorities, etc.)

- **Training** provided for better understanding of maps & services for field experts & headquarters like
  - Seminars, Trainings & Exercises, dedicated workshops, Services‘ & Products‘ support
How to learn more about ERCS

Website: www.emergencyresponse.eu
To conclude…

- ERCS is a pre-operational service of GMES
- GMES/ERCS is in its implementation phase
- It is developed in close cooperation with users
- It is an open service
- It is available 24h/7d
Thanks for your attention!

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