



# GIO-EMS

## One year of operational service

**Prague, 29-30. May 2013**

*Serving society*

*Stimulating innovation*

*Supporting legislation*

**[www.jrc.ec.europa.eu](http://www.jrc.ec.europa.eu)**

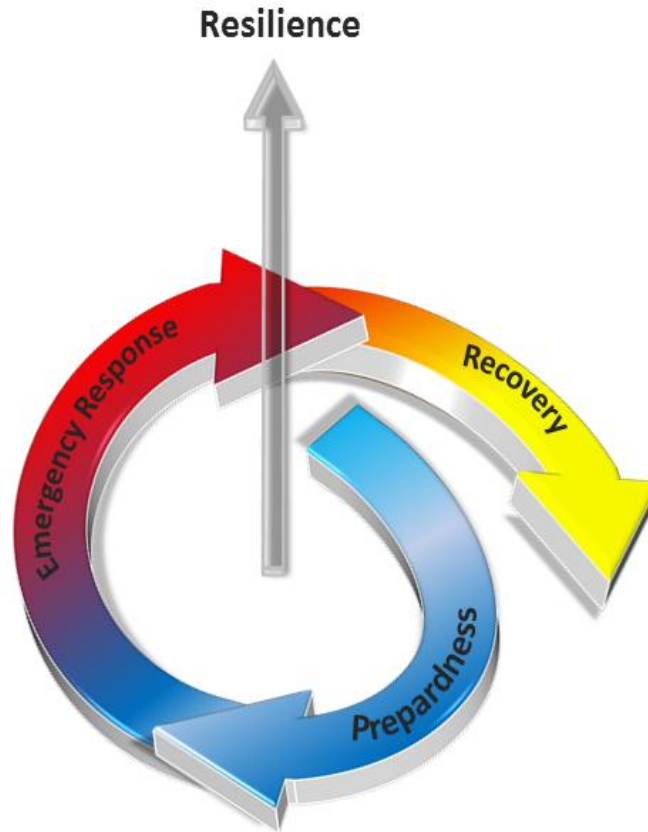
# GMES Initial Operations- Emergency Management Service



## Rush mode

- On demand
- “Standardized”
- Hours-days

Reference maps  
Disaster response maps



## Non-rush mode

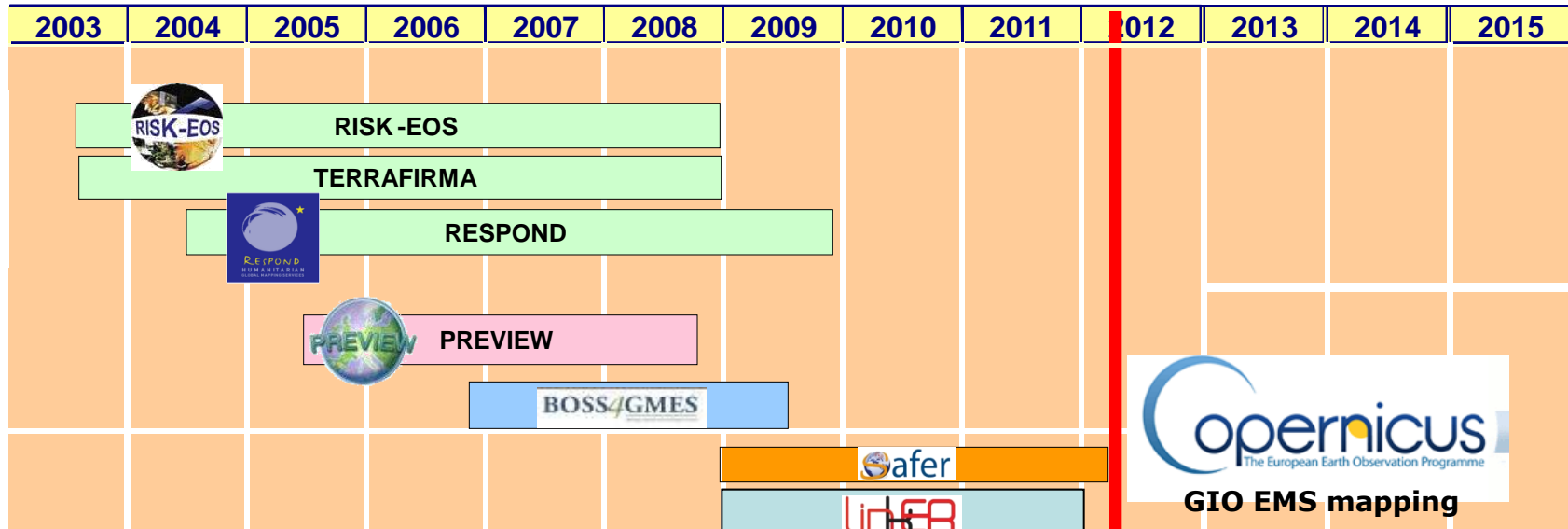
- On demand
- Standard base widely adaptable to user requests
- Weeks-months

Reference maps  
Pre-disaster situation maps

Reference maps  
Post-disaster situation maps

Validation

# Service evolution



**Research Project**

**Operational  
Service**

# What GIO-EMS delivers



Maps and Geographic digital layers

Rush Mode:

- Reference Maps (situation on the ground)

- Damage Delineation (area of damage)

- Damage Grading (damage severity)

Non-Rush Mode:

- Pre- and Post- Disaster Situation Maps

Validation:

- Reports on map quality from both modes

## a) **Printable and Georeferenced map**

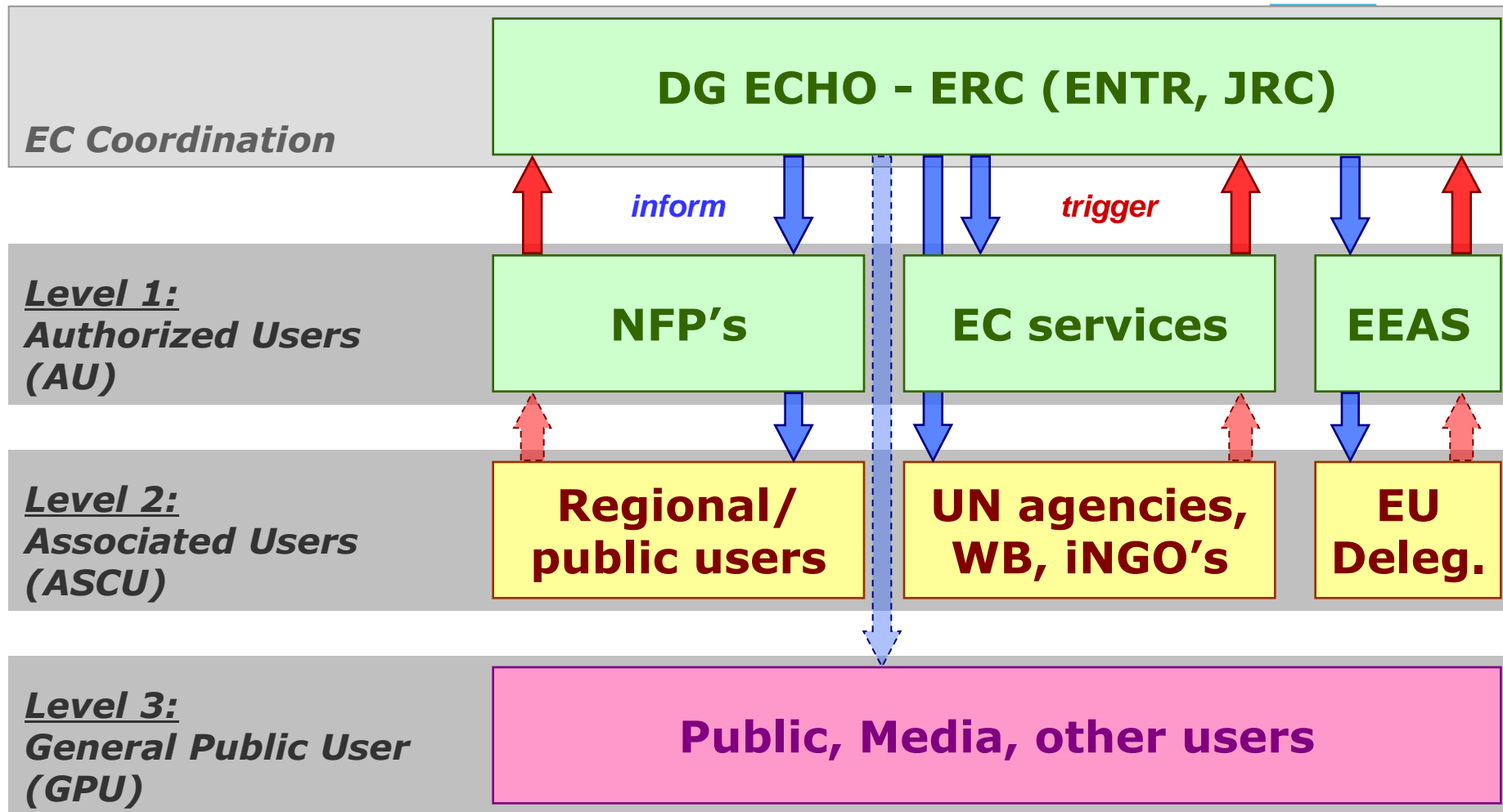
- ISO A1
- GeoPDF/GeoTiff/JPEG 100/200/300 dpi
- Metadata file

## b) **Vector files** of all the features derived from the analysis and interpretation stage

- ESRI shapefiles with projection file (.prj)
- Google Earth KML (or KMZ) format
- Metadata file

- EC service
  - Funded from EC budget (DG ENTR)
  - 24/7 focalpoint at DG ECHO/MIC
  - Technical coordination by DG JRC
- Service contracts for
  - Mapping in Rush Mode;
  - Mapping in Non-rush mode;
  - Validation
- Complemented by ESA-DAP for satellite data procurement
- Free of charge

# GIO EMS TRIGGERING/INFORMATION FLOW



# Rush mode after one year



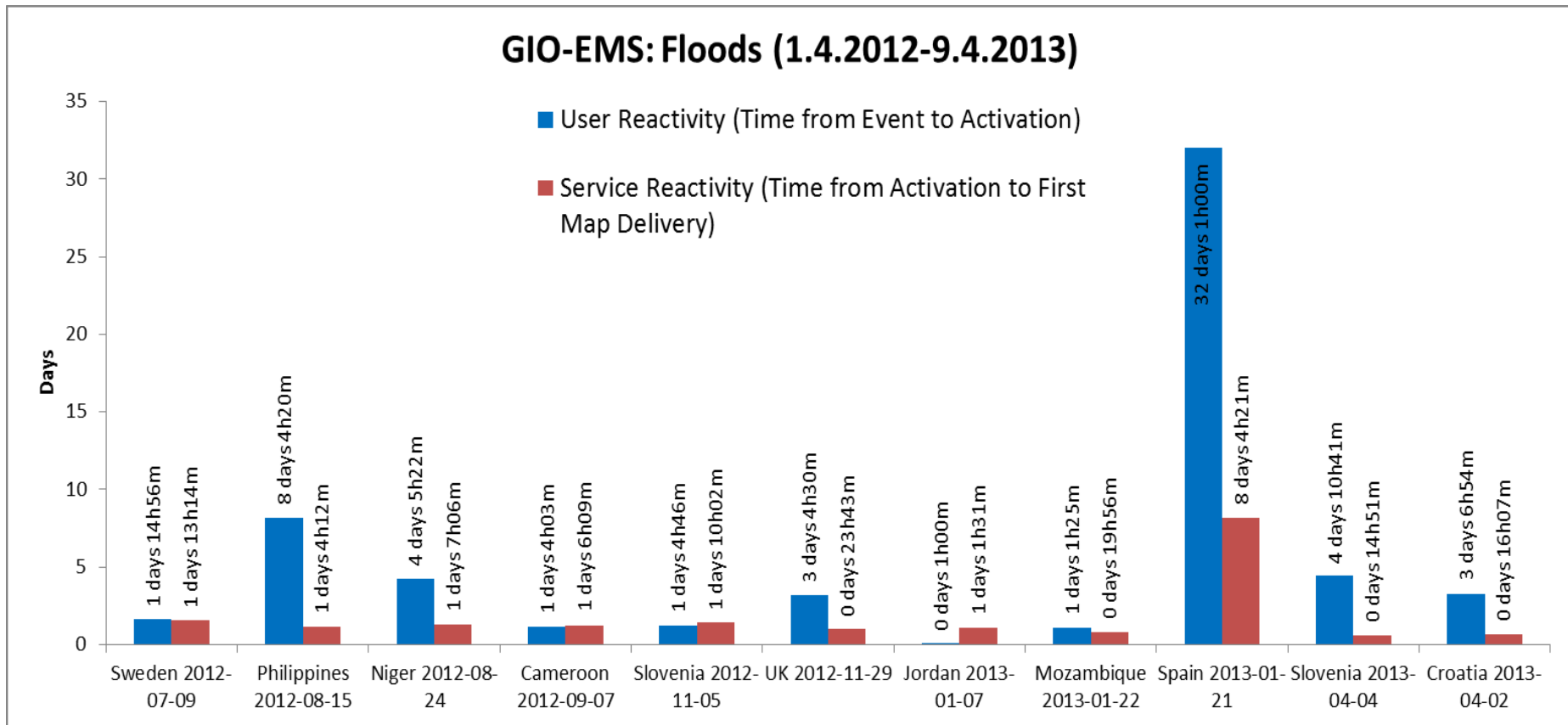
- 1.4.2012-17.5.2013: 42 activations (~350 maps)

| Type of disaster                        | Number | In Europe |
|---|--------|-----------|
| Forest Fires                            | 8      | 8         |
| Floods                                  | 12     | 6         |
| Earthquake                              | 2      | 2         |
| Industrial Accident                     | 2      | 1         |
| Wind storm                              | 1      | 0         |
| Others (mostly refugee camp monitoring) | 17     | 4         |
| Total                                   | 42     | 21        |



# Rush mode after one year

- User and Service Reactivity



# Rush delivery time



| Product TYPE                                 | Full package                                    | First available map                             |
|--|---|---|
| <b>REFERENCE</b>                             | <b>Max 6h</b>                                   | <b>Max 6h</b>                                   |
| <b>DELINEATION<br/>(+Reference)</b>          | <b>Max 24h</b><br>6h [ref map]                  | <b>Max 3h (flood, fire)<br/>Max 8h (others)</b> |
| <b>GRADING<br/>(+Delineation +Reference)</b> | <b>Max 24h</b><br>24h [del map]<br>6h [ref map] | <b>Max 3h (flood, fire)<br/>Max 8h (others)</b> |

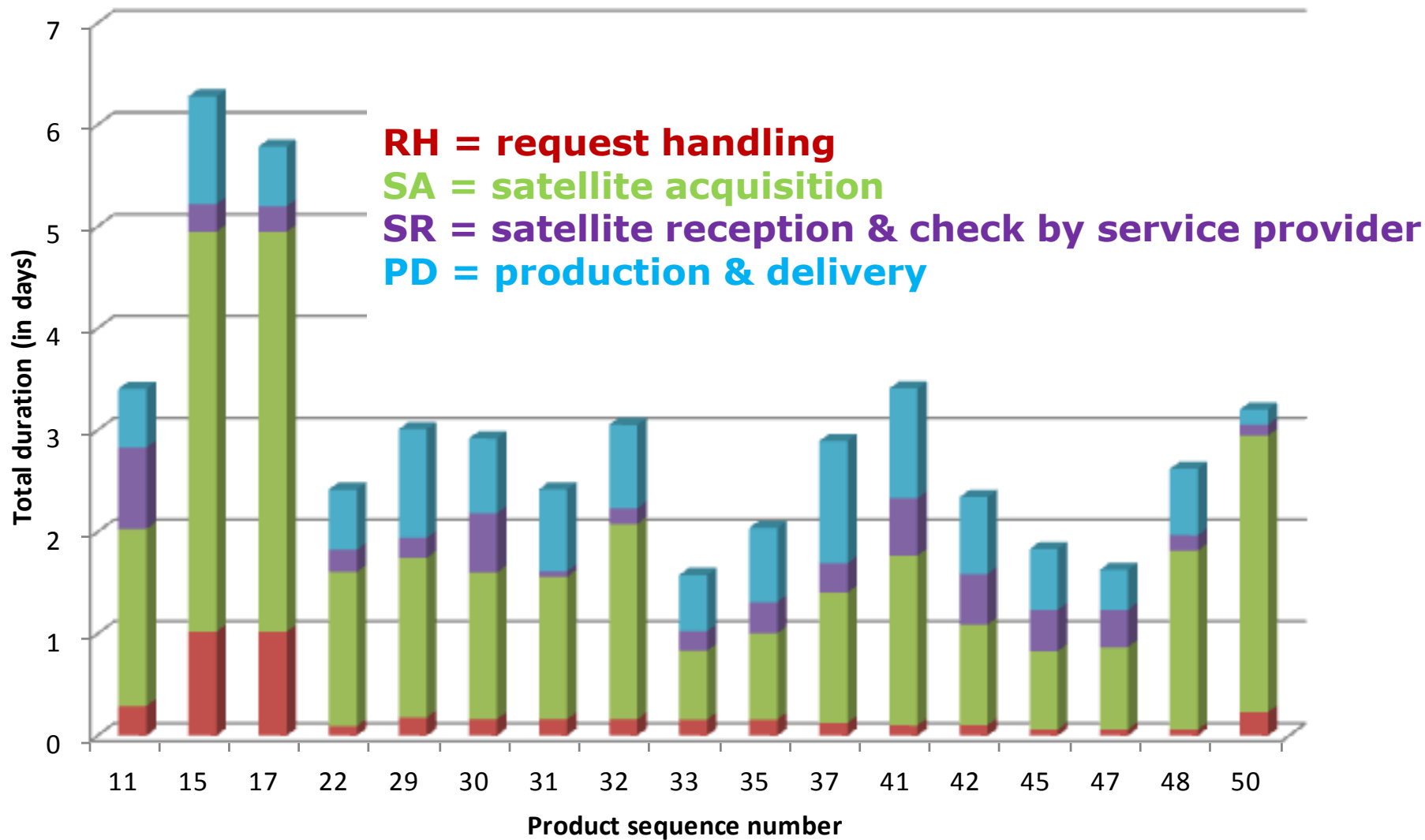
## First available map

Post event, 1 map, 1 format, not quality checked

## Time after satellite data reception and quality acceptance.

Target delivery time from activation: 6h (reference), 24h (delineation, grading).

# Duration of activation phases



Non-Rush Activated only 3 times:

- Post fire risk assessment on Chios Island in Greece
- Population density estimate and land use database for Nyala, Sudan
- Monitoring of the volcanic episode: eruption and landslide risk (El Hierro, Canary Islands, Spain)

Validation campaign:

- Floods in Niger in August 2012



## GMES EMERGENCY MANAGEMENT SERVICE

EMS - MAPPING PORTAL

Home

What is GMES

The Emergency Management Service

### GIO EMS-MAPPING

- The service
- Who can use the service
- How to use the service
- Products
- Quality Control/Feedback
- User Guide

### Early Warning

- The European Flood Awareness System



## Welcome to the portal of the GMES Emergency Management Service

### A service in support of european emergency response

List of submitted GIO Rush Mode activations - showing the last 5 activations (within the last 90 days)



The GMES Emergency Management Service (EMS) is the first GMES service to become operational.

EMS started operations on April 1st, 2012 and consists of a set of

### Access Rush Mode



### Non-rush mode



Download  
Portal User Manual



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