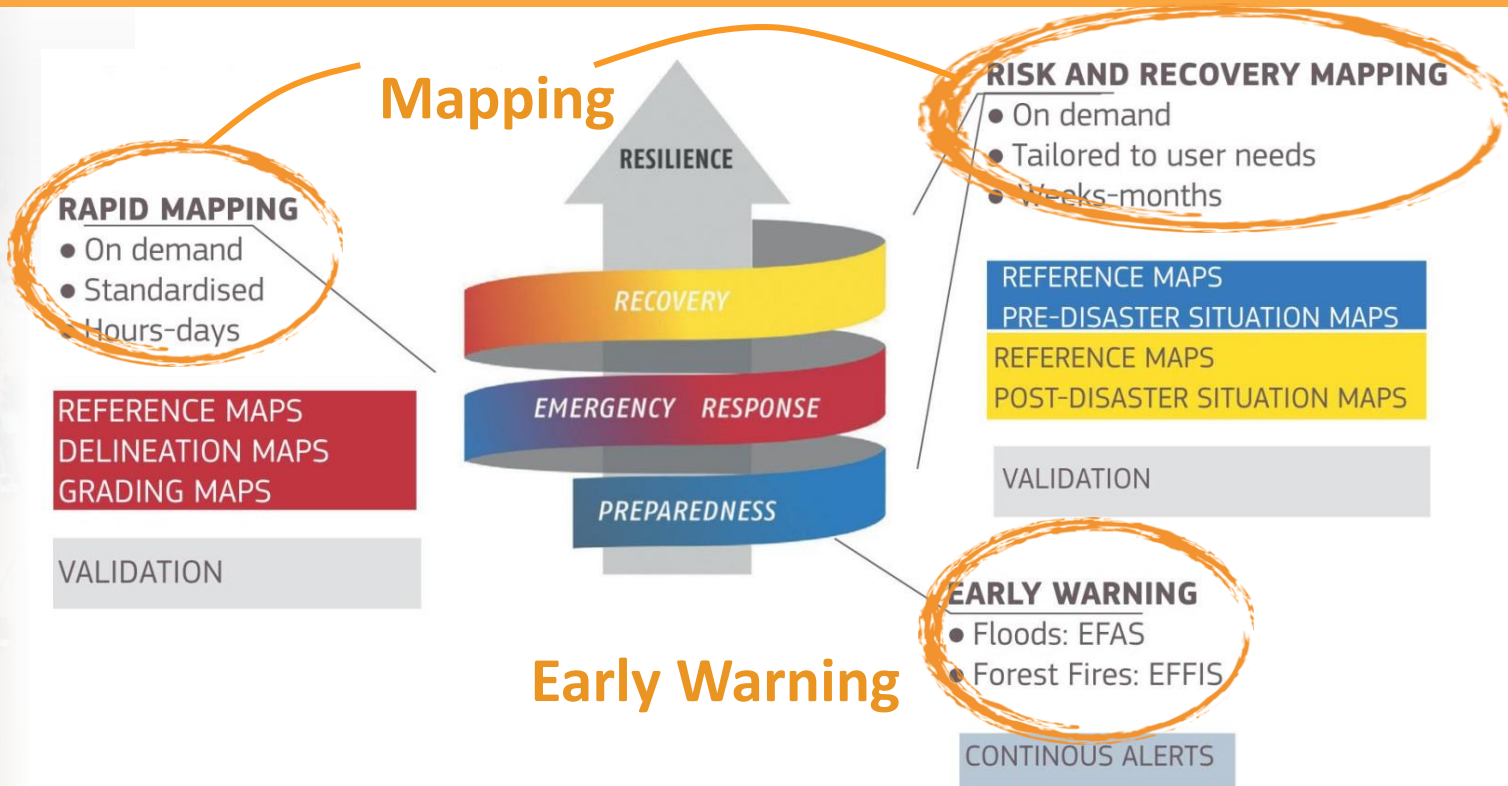




# Copernicus EMS in support of crisis preparedness and response operations - examples -

Copernicus Emergency Management Service





Emergency  
Management

# Iceland – the geo-laboratory

 **FUTUREVOLC**

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**Welcome to FUTUREVOLC**

European volcanological supersite in Iceland: a monitoring system and network for the future



# Iceland – the geo-laboratory

Welcome to the Geohazard Supersites and Natural Laboratories GEO initiative





Emergency  
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## Rapid Mapping – volcanic activities

### **EMSR111: Volcanic eruption at Fogo Island (Cape Verde)**

Event Time (UTC): 2014-11-23 07:30

Event Time (LOC): 2014-11-23 06:30

Activation Time (UTC): 2014-11-24 23:00

Affected Countries/Territories:

CV Republic of Cape Verde

Area Descriptor: Fogo Island

Authorized User: Portugal | National Command for Relief Operations - National Authority for Civil Protection

**Eruption in Fogo Island (Cape Vert) started early morning of sunday23rd. Last eruption occurred in April 1995 and lasted about one month, destroying hundreds of houses. Local authorities already started to evacuate population from the affected zones as lava is flowing fast.**



2014-12-05



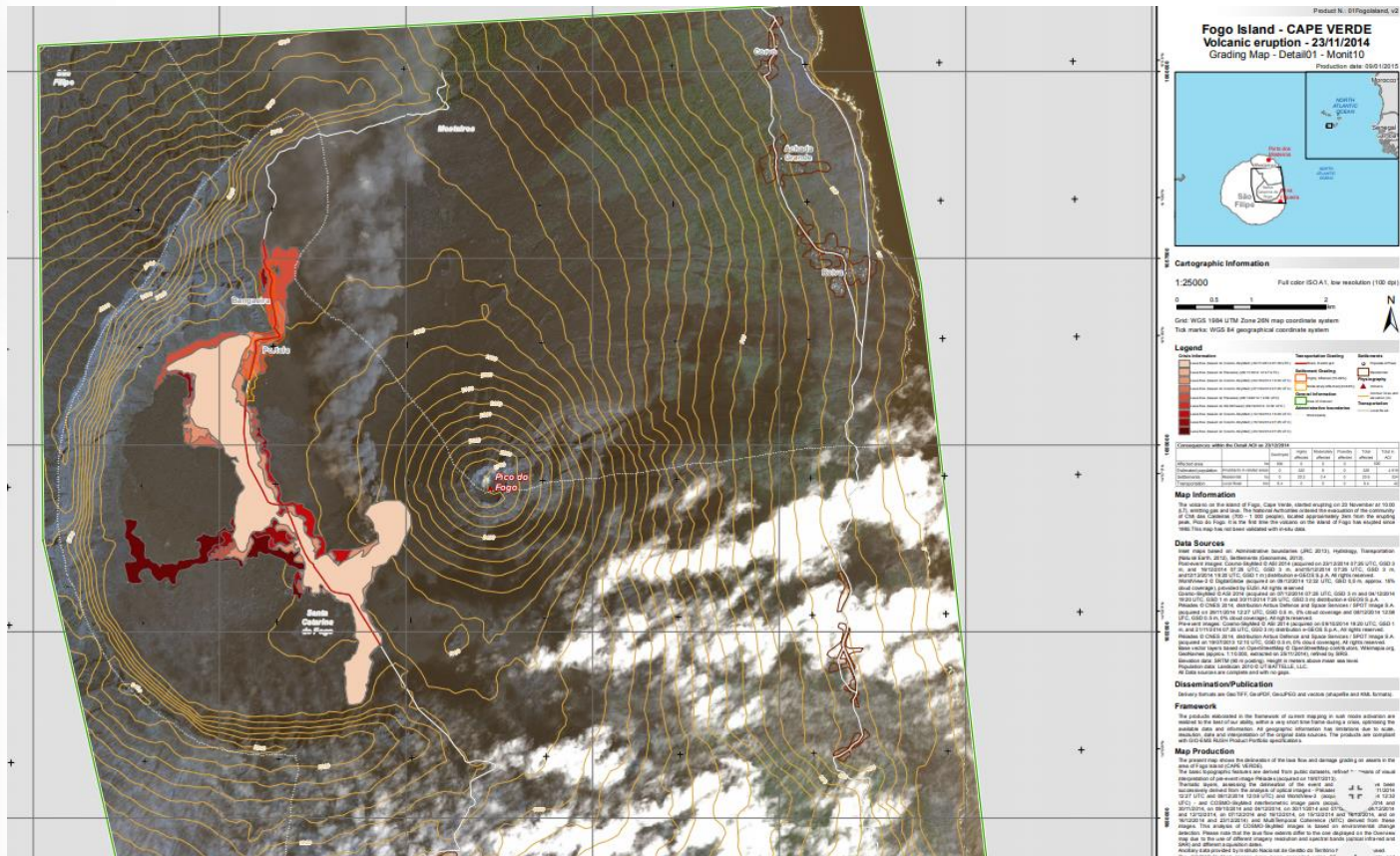
2015-01-08





# Rapid Mapping – volcanic activities

Emergency  
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2015-01-09

### Criele Information

- 
- |                                                          |
|----------------------------------------------------------|
| Lava flow (based on Cosmo-SkyMed) (30/11/2014 07:25 UTC) |
| Lava flow (based on Pleiades) (25/11/2014 12:27 UTC)     |
| Lava flow (based on Cosmo-SkyMed) (04/12/2014 19:20 UTC) |
| Lava flow (based on Cosmo-SkyMed) (07/12/2014 07:25 UTC) |
| Lava flow (based on Pleiades) (08/12/2014 12:08 UTC)     |
| Lava flow (based on WorldView2) (09/12/2014 12:32 UTC)   |
| Lava flow (based on Cosmo-SkyMed) (12/12/2014 19:20 UTC) |
| Lava flow (based on Cosmo-SkyMed) (16/12/2014 07:25 UTC) |
| Lava flow (based on Cosmo-SkyMed) (23/12/2014 07:25 UTC) |
| Lava flow (based on Cosmo-SkyMed) (24/12/2014 19:20 UTC) |
| Lava flow (based on Pleiades) (25/12/2014 12:28 UTC)     |
| Lava flow (based on Cosmo-SkyMed) (28/12/2014 19:20 UTC) |

### Settlement Grading

- Highly Affected [70-99%]  
Moderately Affected [40-69%]

### Administrative boundaries

- Municipality

● Populated Place

- ☐
- Residential

 Volcano

- Contour lines and elevation (m)

## Transportation

- Local Road

Consequences within the Detail AGI on 28/12/2014

|                      |                              | Destroyed | Slightly affected | Moderately affected | Possibly affected | Total affected | Total in ADI |
|----------------------|------------------------------|-----------|-------------------|---------------------|-------------------|----------------|--------------|
| Affected area        | ha                           | 217.41    | 0                 | 0                   | 0                 | 217.41         |              |
| Estimated population | Inhabitants in related areas | 0         | 220               | 0                   | 0                 | 220            | 4,219        |
| Settlements          | Residential                  | ha        | 0                 | 20.2                | 0.4               | 20.6           | 224          |
| Transportation       | Local Road                   | km        | 0.4               | 0                   | 0                 | 0.4            | 40           |

These data were derived from the geographic coordinates and associated data of water resources, date and interpretation of the original data sources. The products are compliant with GIC 5 M30 Miller Product Portfolio specifications.

**Map Production**

[illegible]

2015-01-12



Emergency  
Management

## EMSN047: Volcanic risk in Democratic Republic of the Congo

Activation Time (UTC): 2018-03-30 00:00

Affected Countries/Territories:

CD Democratic Republic of the Congo

Area Descriptor: Goma, Congo

Authorized User:

European Commission, DG ECHO, Emergency Response and Coordination Center (ERCC) on behalf of Goma Volcano Observatory

**The purpose of the requested mapping is to generate comprehensive knowledge through performing pre-disaster situation analysis, concerning a potential eruption of the Nyiragongo volcano located near to Goma, Democratic Republic of Congo (DRC).**

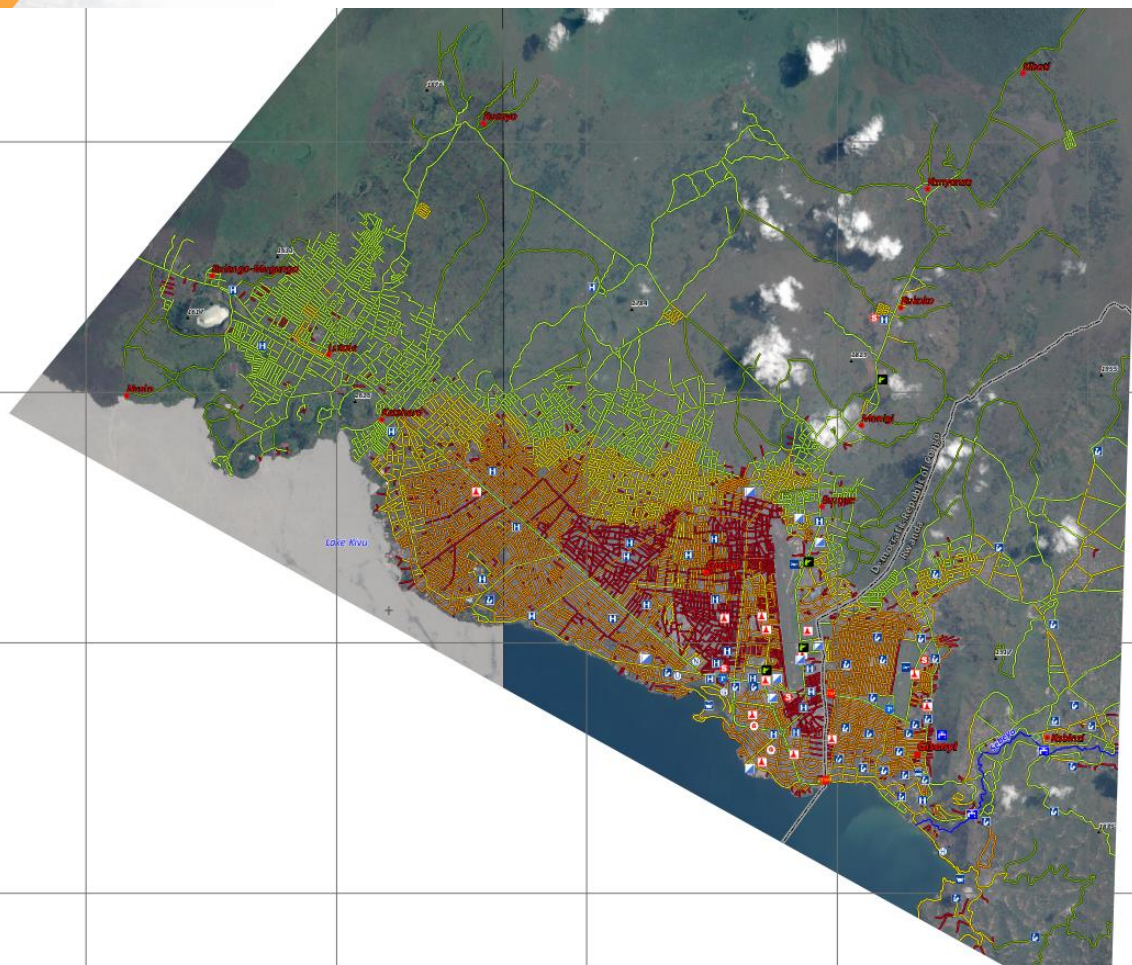


# Lava flow hazard map





# Rapid Mapping – volcanic activities



Transportation  
Network  
Vulnerability to  
disruption Map -  
Volcanic Risk  
Assessment