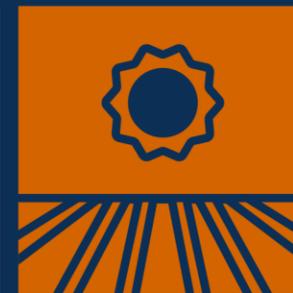




COPERNICUS PARA SETORES FLORESTAL E AGRÍCOLA EM PORTUGAL

Direção Geral do Território, Lisboa



**18 e 19
dezembro
2023**





CEMS: Serviço de Gestão de Emergência do Copernicus **António Nunes**





Multinational
technology
group



6th European
Space Industrial
Group

+3,000
employees



Roots tied
to Space



CMMI level 5



CMMI DEV / 5SM
CMMI®V2.0 / Exp. 2022-09-30 / Appraisal #30091

Private
capital

Companies in 12 countries

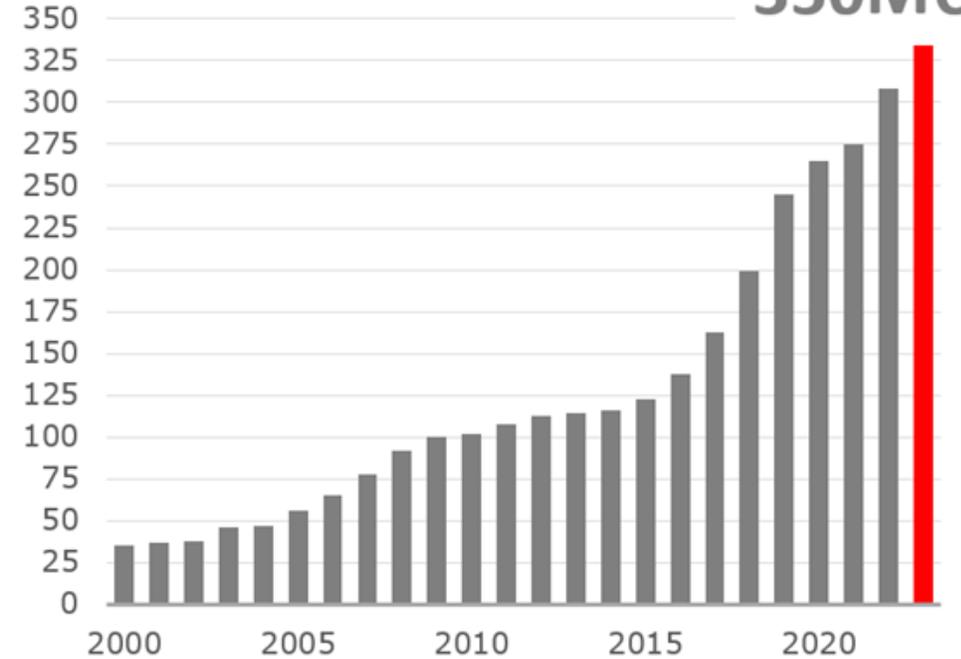


Founded in

1984

worldwide revenue

350M€



Space, Aeronautics, Defense & Security, Intelligent Transportation, Banking & Finances, ICT Industries

Space

56%

Defense

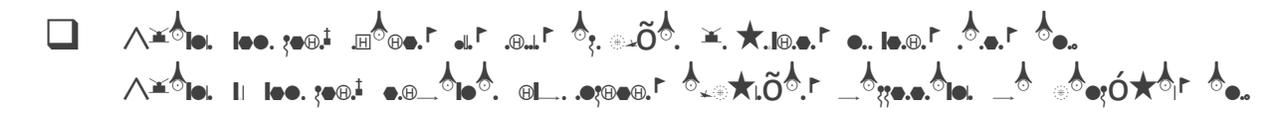
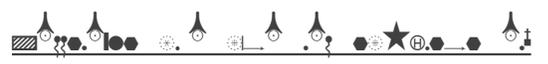
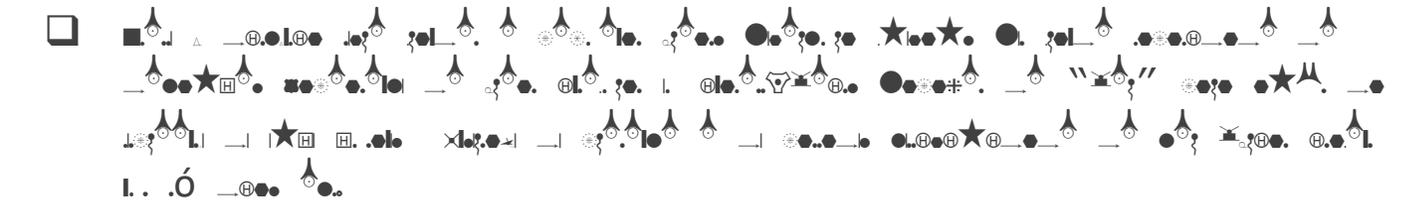
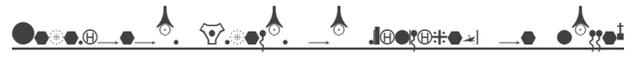
11%

IT

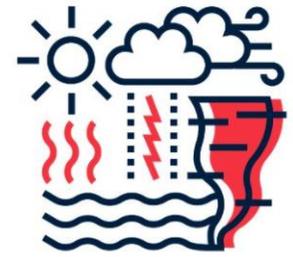
16%

Transport

17%



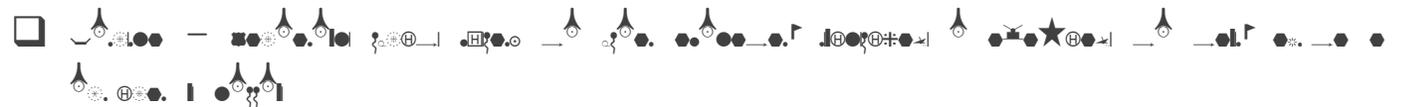
THERE ARE NO "NATURAL" DISASTERS

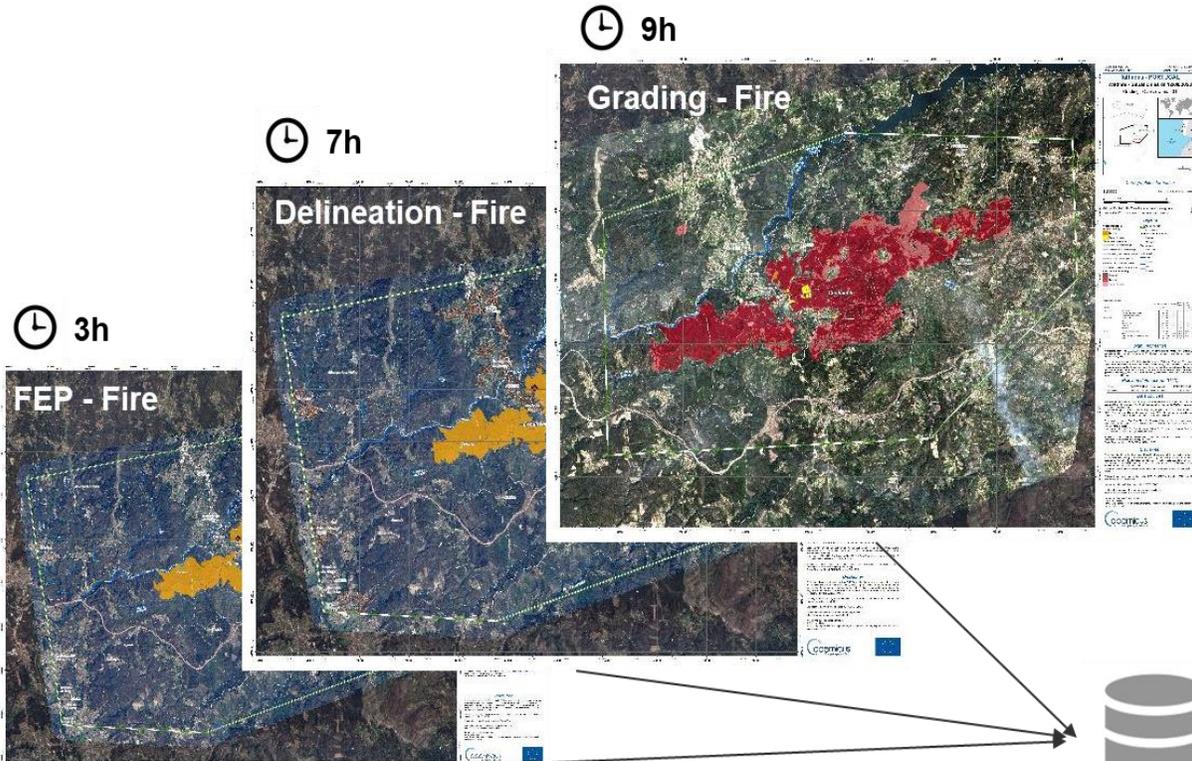


While storms, floods, heatwaves and other extreme weather events are natural and inevitable, disasters are not. Disasters occur when a community does not have what it needs to withstand the impact, or where people are particularly vulnerable due to poverty, exclusion or other factors.

World Disasters Report 2020







<https://emergency.copernicus.eu/mapping/list-of-components/EMSR462>



Wildfire in Portugal

EMSR681 - Situational reporting

Copernicus Emergency Management Service

3 November 2023



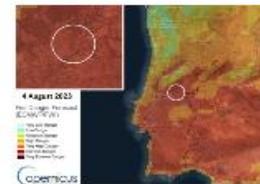
[Activation](#) [Production Status](#) [Event extent](#) [Damage assessment](#) [Additional information](#)

The situational reporting aims to provide a living synthesis view of the event and Copernicus Emergency Management Service products.

All the rapid mapping products for this event can be viewed and downloaded at: <https://rapidmapping.emergency.copernicus.eu/EMSR681/download>

Activation

Timeline



04/08 - Fire Danger

Fire danger was classified as *Extreme Danger* within the area of Carrascal according to the [Fire Danger Forecast \(EFFIS\)](#)





Delivery time

Floods

P04	Flood delineation	5-10 days
P05	Modeled flood extent for major events	5-10 days
P06	Temporal analyses of occurred flood events	2-5 days

Forest fires / Wildfires

P07	Wildfire delineation and grading	5-10 days
P16	Post-disaster soil erosion risk assessment	5 days
P17	Post-disaster landslide risk assessment	5 days

Damage assessment and reconstruction monitoring

P08	Detailed damage assessment analyses over affected areas	5-15 days
P09	Reconstruction monitoring	5 days

Impact assessment/exposure after disaster

P14	Impact assessment/exposure analyses on asset and population	3 days
P15	Detailed impact assessment/exposure analyses on selected aspect	3 days

Humanitarian crisis

P10	City growth analysis	2-3 days
P11	Human footprint evaluation of cities through nightlight analysis	2 days
P18	Human settlements mapping	5-10 days
P19	Population displacement location/monitoring	5-10 days

Ground deformation

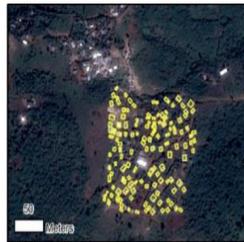
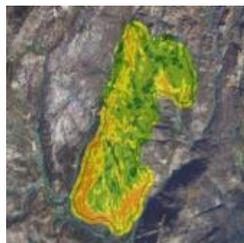
P12	Ground deformation analyses	5-7 days
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Reference data

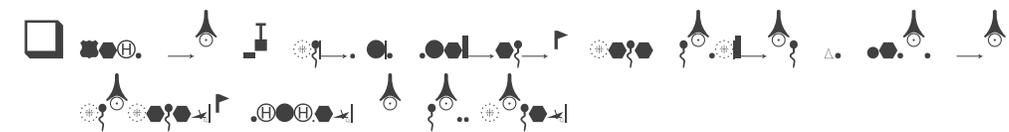
P02	Reference dataset	5-15 days
P03	Land use and land cover dataset	5-15 days
P20	Detailed reference dataset for high-importance areas	5-15 days
P01	Digital Surface Model	5-10 days

Map layouts for printing

P13	Ready to print maps and map books for field campaigns	2-3 days
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STD (Standard)

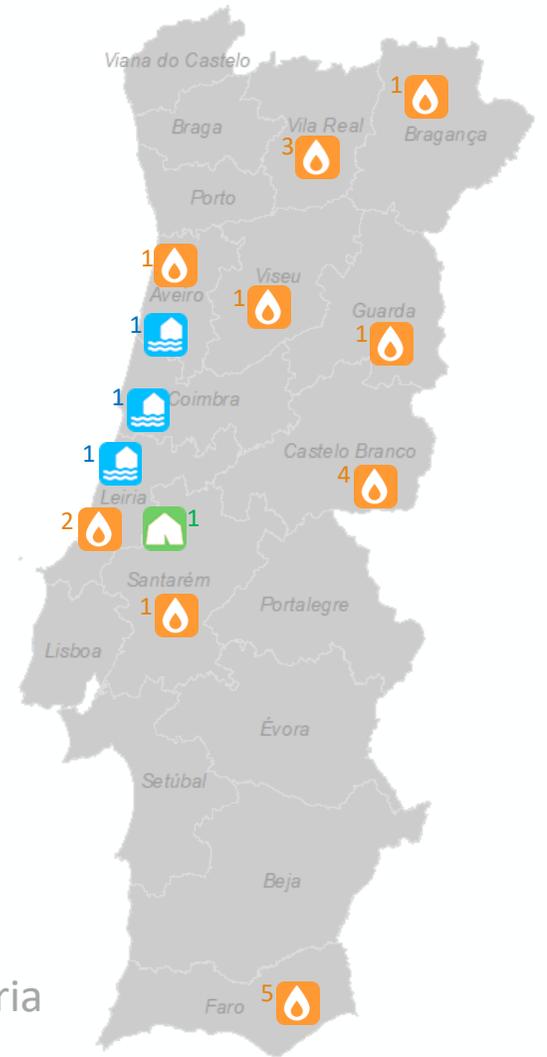


FLEX (Flexible)



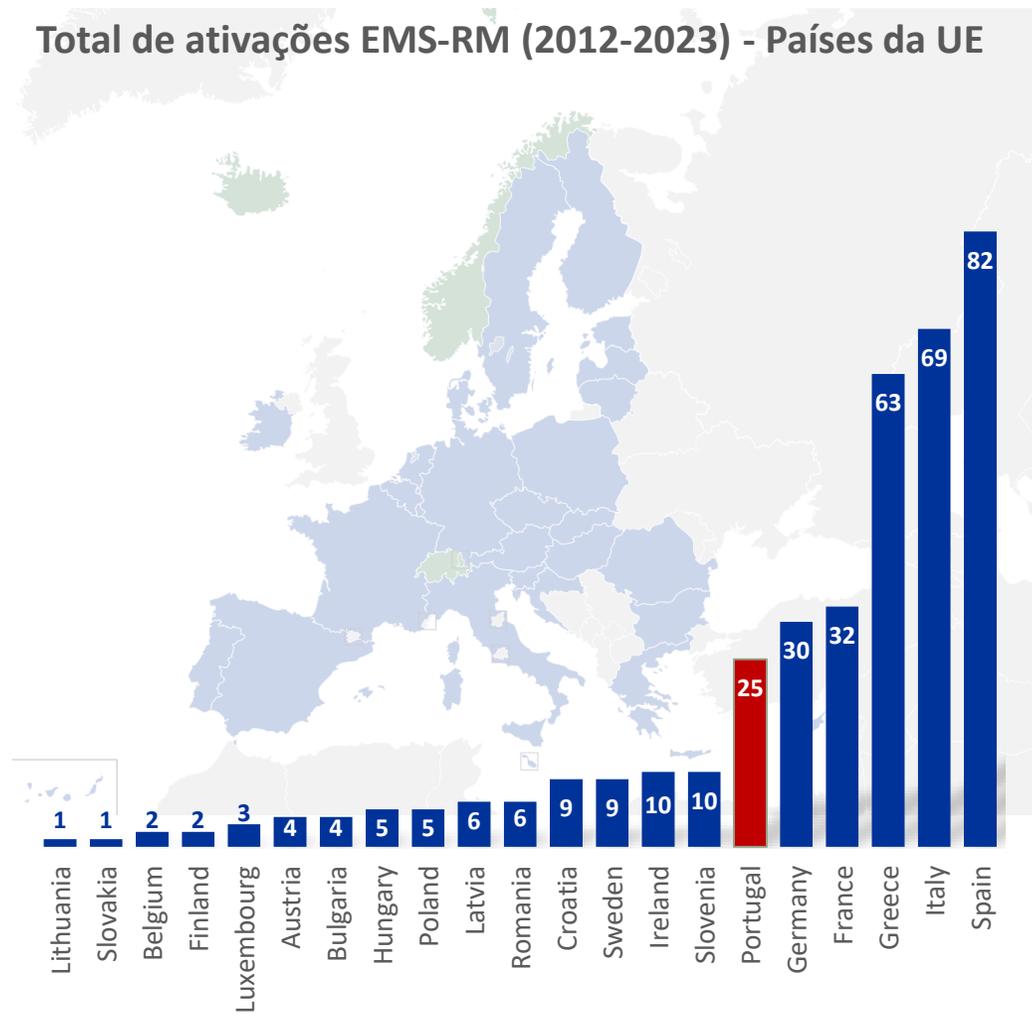


Rapid Mapping



- Incêndios
- Inundações
- Ajuda humanitária

Total de ativações EMS-RM (2012-2023) - Países da UE

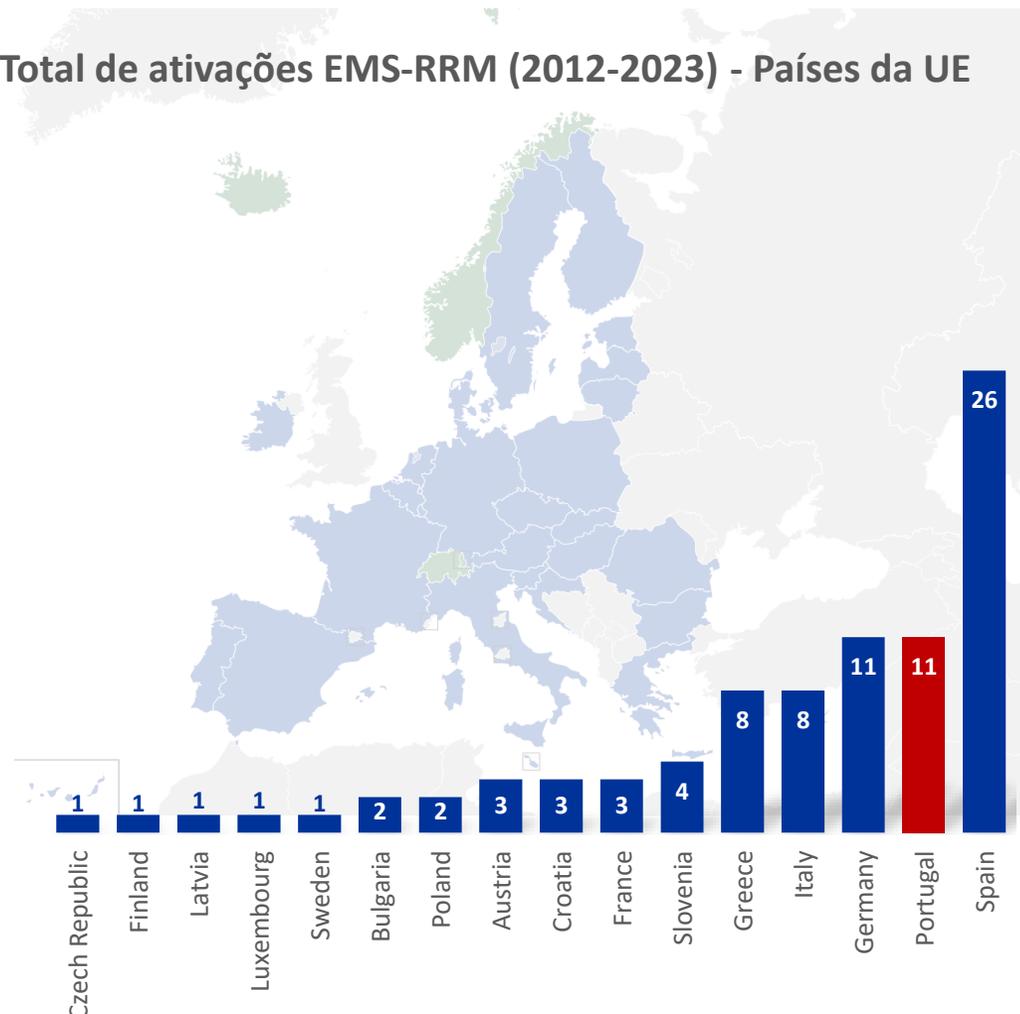




Risk and Recovery

Act. Code	Title	Country/Terr.	Feed
EMSN150	Volcanic risk assessment in Terceira Island, Azores	Portugal	 
EMSN149	Monitoring areas damaged by forest fires in Serra da Estrela, Portugal	Portugal	 
EMSN129	Volcanic risk assessment in Sao Jorge, Azores	Portugal	 
EMSN089	Mass movement in Madeira, Portugal	Portugal	 
EMSN034	Coastal flood risk analysis for population and assets, Portugal	Portugal	 
EMSN032	Forest fire damage assessment, Portugal	Portugal	 
EMSN031	Forest fire damage assessment and landslide risk, Madeira Island, Portugal	Portugal	 
EMSN020	Multiple natural hazard risk assessment - Planning and Recovery	Portugal	 
EMSN018	Multiple natural hazard risk assessment - Planning and Recovery, Azores Islands, Portugal	Portugal	 
EMSN017	Forest Fires 2015, Portugal	Portugal	 
EMSN010	Forest fire damage assessment - Planning and Recovery Serra de Caramulo, Portugal	Portugal	 

Total de ativações EMS-RRM (2012-2023) - Países da UE



Muito obrigado



Antonio.nunes@gmv.com

