

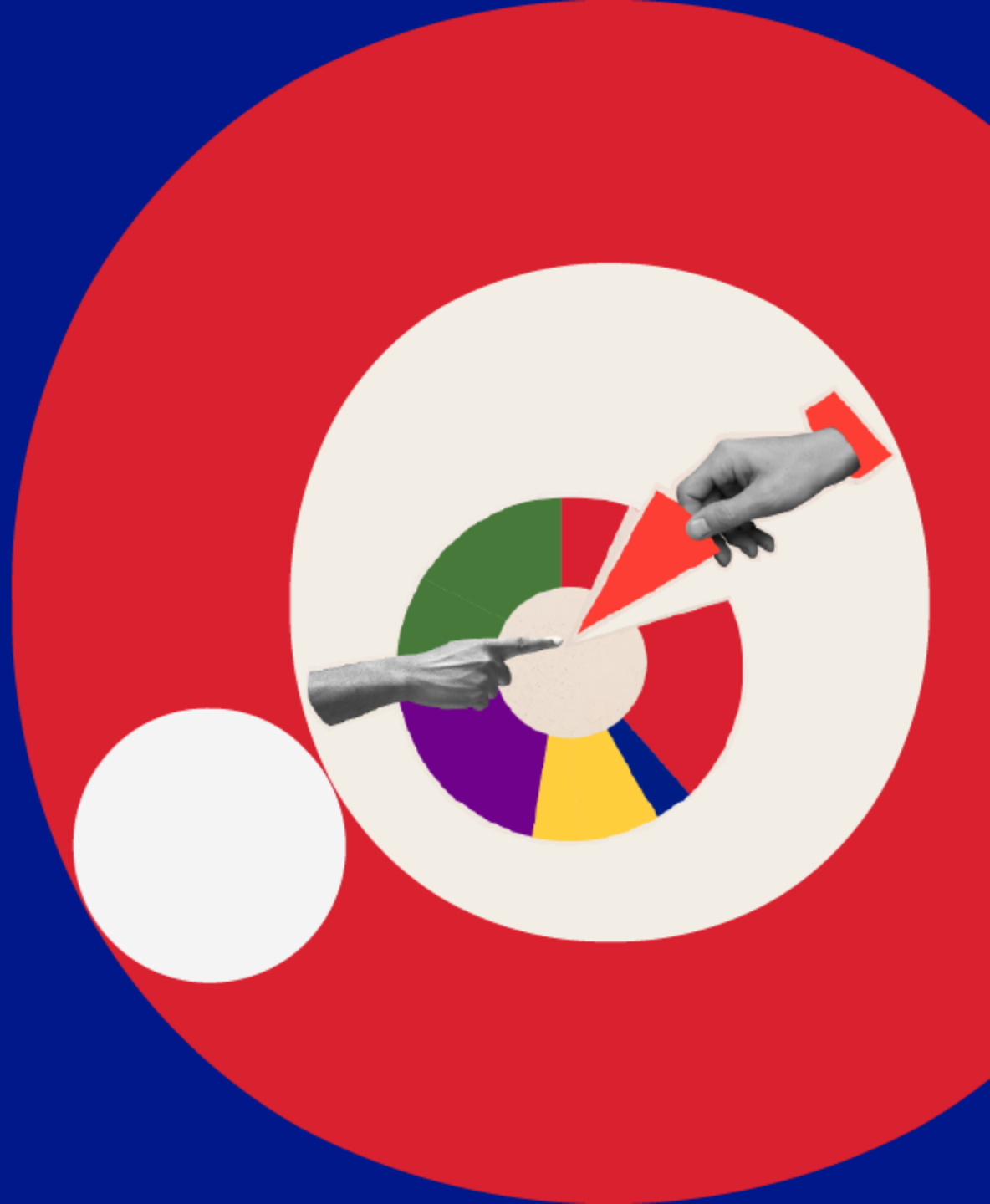
WEBINAR

Open data for crisis response and resilience: cases from European & national institutions

data.
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24 April 2026

10:00 – 11:00 CEST



Rules of the game



The webinar will be recorded and published on the data.europa academy



For questions, please use the ClickMeeting chat



Please reserve 3 min after the webinar to help us improve by filling in our feedback form



Today's speakers



Hannah Kroker
European Data Portal,
Publications Office of the EU



Auriane Denis Loupot
Analyst, Emergency
Response Coordination
Centre (ERCC)



Inès Bedar
Former Legal advisor for the
French Prime Minister's
Services



Agenda

10.00 – 10.05

Opening and introduction – *Hannah Kroker*

10.05 – 10.25

Europe's crisis response: the analytical services of DG ECHO – *Auriane Denis Loupot*

10.25 – 10.45

Using open data under pressure: lessons from France's COVID-19 response – *Inès Bedar*

10.45 – 11.00

Q&A and closing – *Hannah Kroker*



Open data for crisis response

Introducing the analytical services of the Emergency Response Coordination Centre (ERCC)

Webinar | 24 April 2026

Auriane Denis-Loupot, ERCC Analytical Team, DG ECHO, European Commission



EU response during emergencies

When a **disaster strikes**, national authorities across the world can activate the **EU Civil Protection Mechanism** to request coordinated assistance



by all **EU Member States**



10 Participating States



Responding to emergencies worldwide

Since its creation in **2001 until end of 2025**, the EU Civil Protection Mechanism has been activated for more than **840 emergencies**

2025

64 activations

- | | | |
|--|--|--|
|  Floods |  Shortage of medical supplies |  Earthquake |
|  Tropical cyclone |  Outbreak |  Urban fire |
|  Marine incidents |  Volcanic activity |  Wildfire |
|  Technological disaster |  Conflict |  Consular support |



Do you know how the **EU Civil Protection Mechanism** works?





Emergency Response Coordination Centre (ERCC)



Monitors disasters around the globe



Maps disaster risks



Provides real-time information



Coordinates joint European response operations





Preparing for disasters: monitoring, forecasting, alerting

- EU developed systems
- Complementary to national capacities
- Combining satellite data, models and in situ data
- Open source, free of charge
- Available at global and European levels



Monitoring, detection & forecasting

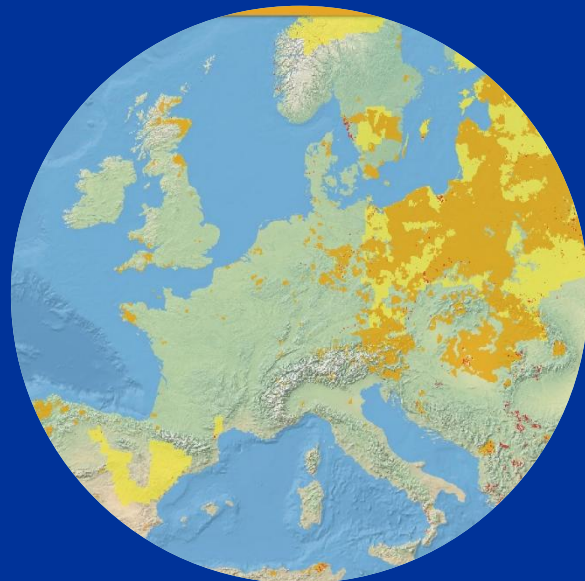


Copernicus Emergency Management Services (CEMS)

Early warning systems



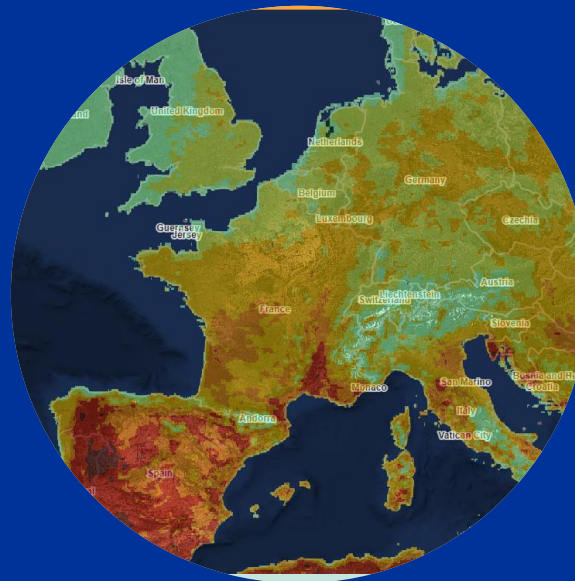
Droughts



EDO / GDO

European Drought Observatory (EDO),
Combined drought indicator, April 2026

Wildfires



EFFIS/GWIS

European Forest Fire Information System
(EFFIS), Fire danger forecast, 15 August 2026

Floods



EFAS/GLoFAS

European Flood Awareness System (EFAS),
Rapid impact assessment, 2 February 2026



Monitoring, forecasting & alerting

Global Disaster Awareness and Coordination System (GDACS)

1. Alerts for disasters that may require an **international / humanitarian response**
2. Covers **7 hazards**: tropical cyclone, volcanic activity, earthquakes, tsunamis, floods, fires, drought
3. Provides initial information **post disasters**, **exposed population** and **potential impacts**
4. **Information aggregator**: maps, reports and media analyses, weather forecasts.

Link: <https://www.gdacs.org/>



Red alert for tropical cyclone CHIDO, 15 December 2024





Responding to disasters: Satellite imagery & mapping products

- Satellite products for response, recovery and prevention
- All products public and downloadable

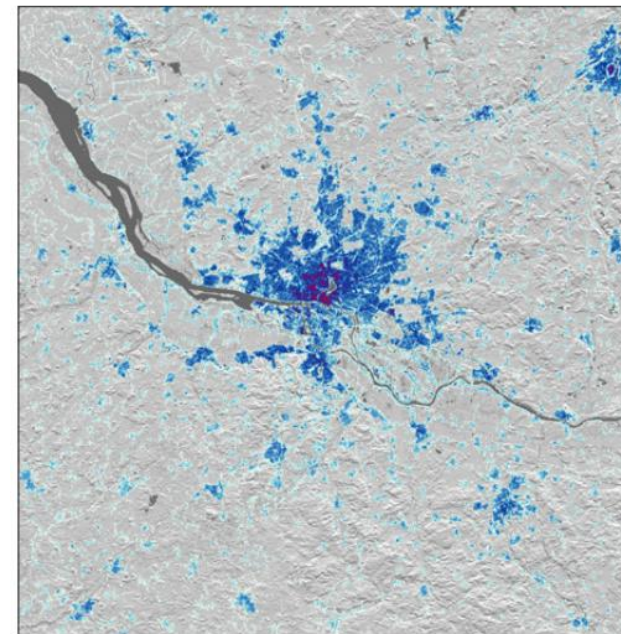


Assessing potential impacts with exposure mapping



Copernicus Emergency Management Services (CEMS) Global Human Settlement Layer (GHSL)

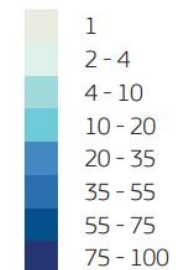
- Open and free data and tools
- Help to assess where people live, work and build.
- Combining satellite imagery, census data, methodologies
- Critical for disaster management to understand **who and what is at risk** (infrastructures).



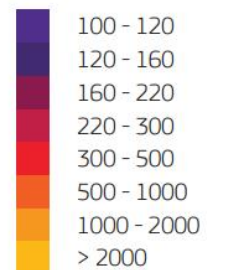
GHSL Population

GHSL population (showing presence and density of population) allocated to the GHSL built-up volume data.

People per hectare



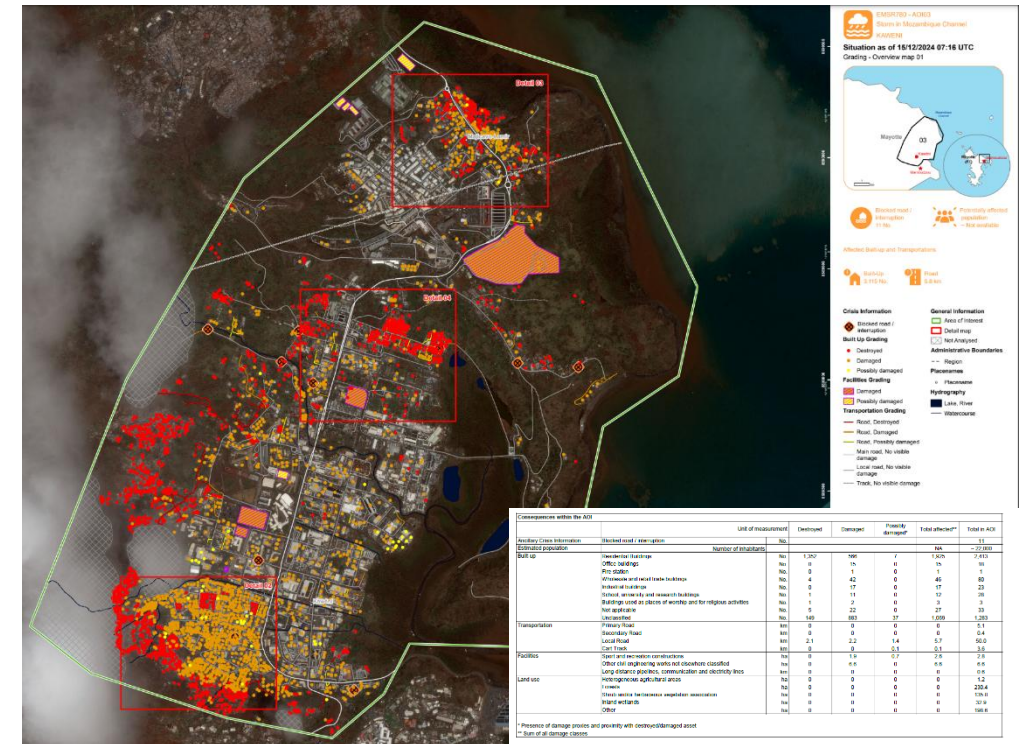
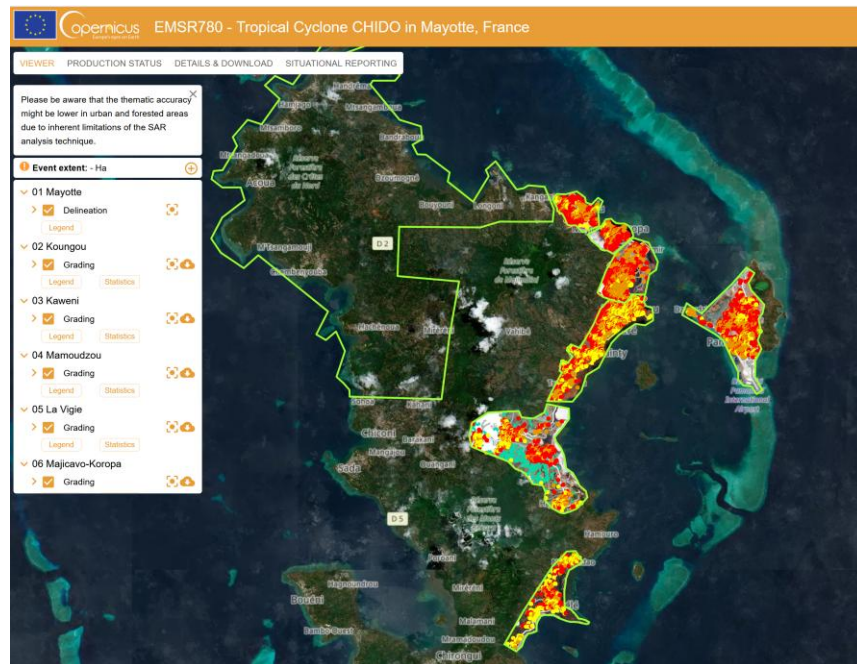
Water bodies
Land



Assessing damages with satellite imagery



Copernicus Emergency Management Services (CEMS) On-demand mapping



Overview of areas assessed in Mayotte for damages. Copernicus activation EMSR 780.

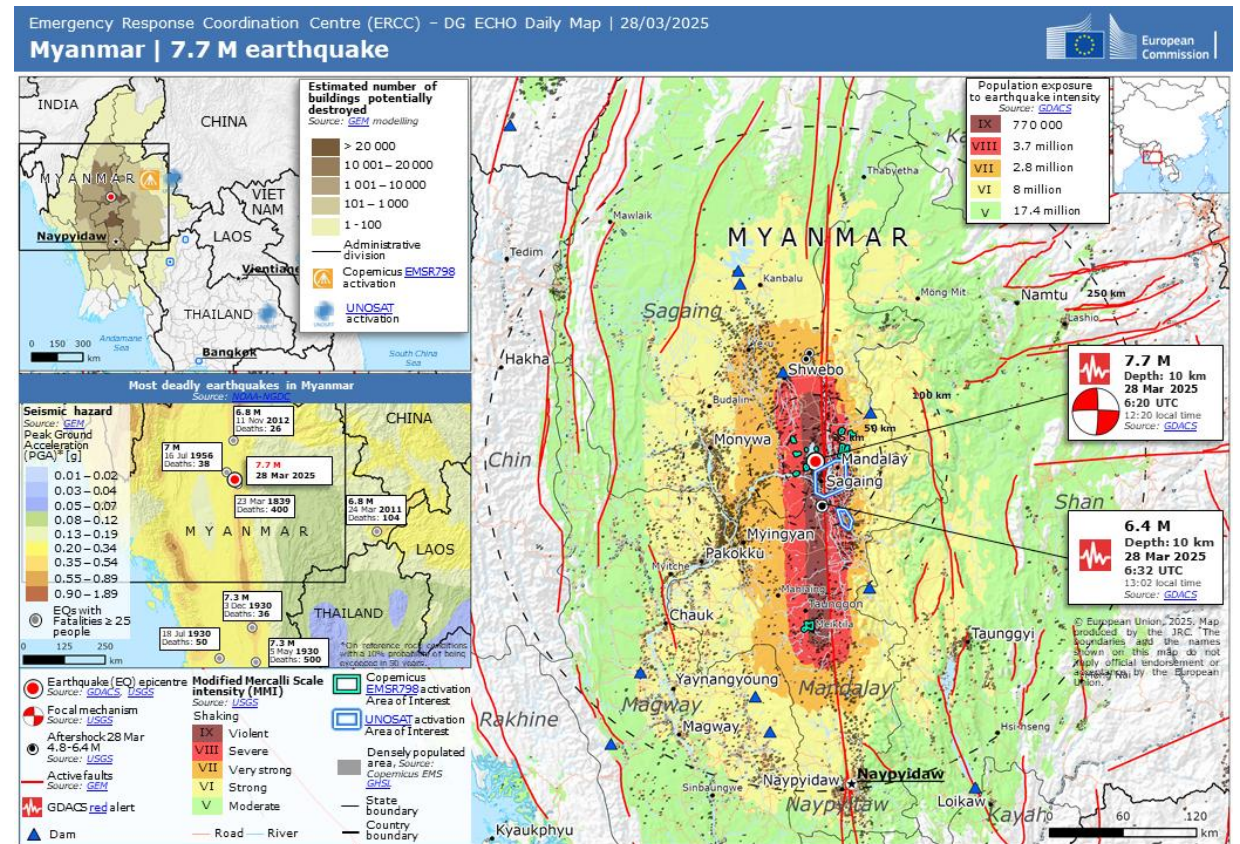
Damage assessment in Mayotte (France) following TC CHIDO. Copernicus activation EMSR 780, first analysis from 15 December 2024



Providing situation overview with maps

DG ECHO Daily Maps

- Daily information product to raise awareness of a situation:
 - Emergency
 - Humanitarian crisis
 - DG ECHO response overview
 - Forecast
- Publicly available on ERCC Portal



DG ECHO Daily map published on 28 March 2025, following the earthquake in Myanmar on the same day.





Deeper dive

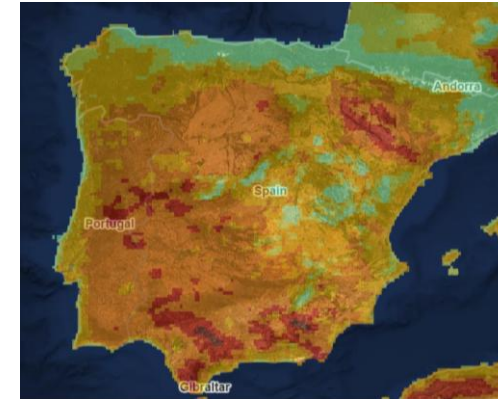
Preparing for and responding to the European wildfires season

How we use some of these tools before, during and after a wildfire.



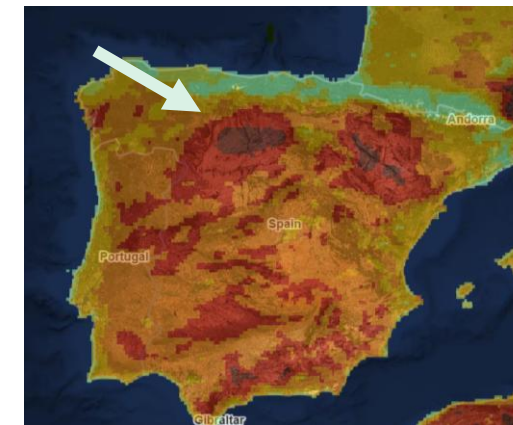
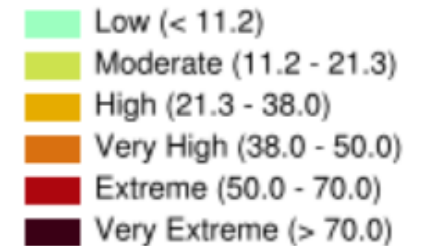
Fire danger forecast

- In the **European Forest Fire Information System (EFFIS)** increasing fire danger from early August 2025 observed in **Spain and Portugal**.
- Fire Weather Index (FWI) helps to assess fire danger. Takes into account **temperatures, rain, wind**.
- This alone cannot predict that a fire will start. A fire requires an **ignition**.

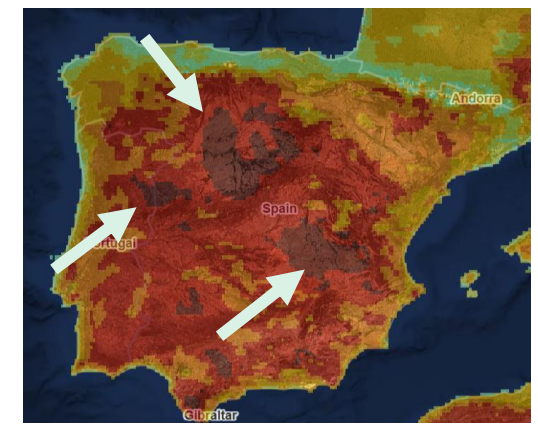


EFFIS, Fire danger on 3/08/2025

Fire Weather index (FWI)



EFFIS, Fire danger on 5/08/2025



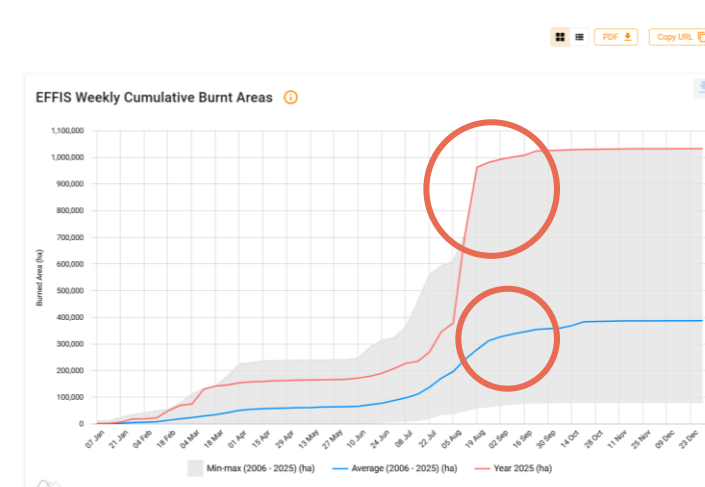
EFFIS, Fire danger on 11/08/2025

Statistics and trends on wildfires

- In the **European Forest Fire Information System (EFFIS)**
- Providing statistics at European and country level from 2006 until now on:
 - Burnt areas
 - Number of fires
 - CO2 emissions
- Critical to **compare the evolution of fires, understand trends**



EFFIS statistics portal, annual statistics from Spain 2006-2026. Red shows burnt areas and blue shows number of fires.



EFFIS statistics portal, annual statistics for Europe for 2025. Red shows cumulative burnt areas and blue shows average over the last 10 years.

Conclusions

Open data is critical for EU emergency preparedness and response.

- 1. Open data creates a shared picture across Europe.** Programmes such as Copernicus create a common operational picture across countries in real time, supporting response efforts.
- 2. Open and interoperable data speeds up response.**
- 3. Need to continue sharing quality data before crises happen.**



Thank you

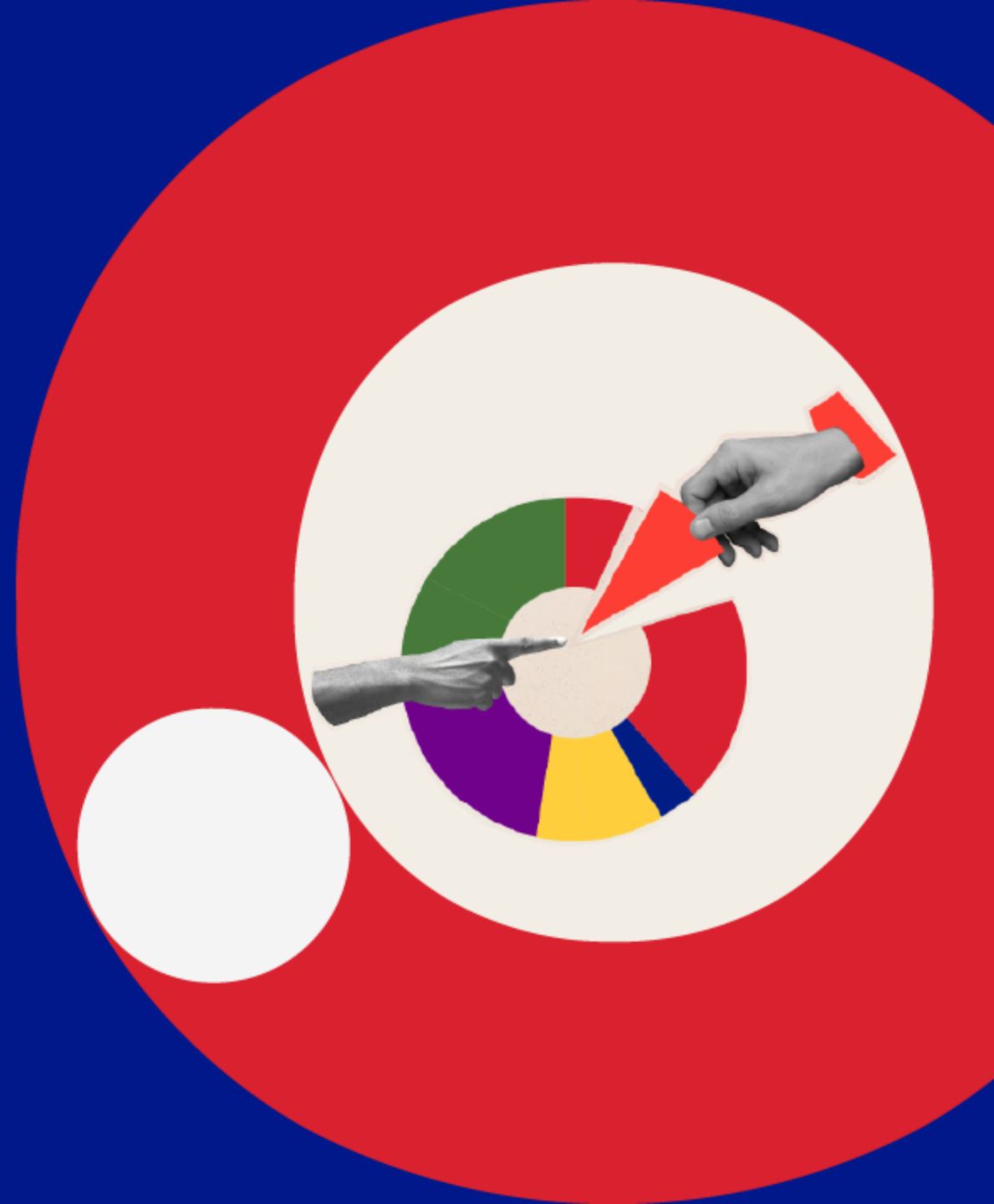
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Inès BEDAR

**AI Strategy and Governance Managing Consultant Capgemini Invent,
Former Legal Officer at the French Prime Minister's Services and the French
Data Protection Authority**

The criticality of open data during the pandemic health crisis



Fragmented data sources

- Hospitals, labs, regional agencies and ministries each hold a piece, none designed to share in real time.
- Building a single operational view means reconciling systems built decades apart.



Sensitive personal data

- Health data is the most regulated category under GDPR.
- Everything must be aggregated, anonymised and reviewed, slowing the pipeline at the moment speed matters most.



Daily public scrutiny

- Citizens watch the numbers every evening. Every inconsistency gets noticed.
- Trust in the data is trust in the state's ability to manage the crisis, once lost, almost impossible to rebuild.

The European regulation landscape

Open Data Directive

Dir. 2019/1024

Open by default for public sector

- Replaced the 2003 PSI Directive — public bodies must open data by design.
- Transposed by Member States by July 2021; extends to publicly funded research.

Data Governance Act

Reg. 2022/868

Trusted voluntary data-sharing

- Applicable Sept 2023. Creates Common European Data Spaces across key sectors.
- Establishes trusted data intermediaries and a data altruism framework.

Data Act

Reg. 2023/2854

Fair access to connected-device data

- In force Jan 2024; applies Sept 2025. Users get rights over IoT-generated data.
- Public sector may request private data in emergencies; governs cloud interoperability.

High-Value Datasets Regulation

Reg. 2023/138

Free, machine-readable, via API

- In force June 2024. Six categories: geospatial, earth observation, meteorology, statistics, companies, mobility.
- Health data deliberately excluded — it requires its own dedicated framework.

Use case

What French Government built during the Covid-19 crisis - March to June 2020

March 2020

10 Mar - First SPF dataset published

12 Mar - Key figures dataset live

16 Mar - data.gouv.fr → udata 2.0

18 Mar - Geodes SPF data opened

19 Mar - SPF org on data.gouv.fr

20 Mar - Triage algorithm begins

31 Mar - Triage app design starts

April 2020

8 Apr - Triage questionnaire live

13 Apr - Data → Institut Pasteur

20 Apr - Business support dashboard

28 Apr - AlloCovid uses open algorithm

May – June 2020

13 May - Business dashboard v2

9 Jun - Ministry FAQ datasets

9 Jun - Retrospective published

12 Jun - Business dashboard v3

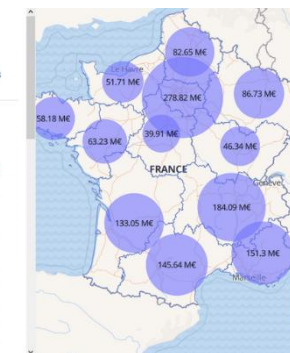
Dashboards



Aides versées : échelle nationale

montant: 1 384,88 M€ nombre: 1 039 766 aides

Top 10 des aides par code section NAE (en M€)



European Data Portal: Europe's open data hub during the crisis

The screenshot shows the European Data Portal interface. At the top, it says "An official website of the European Union" and "How do you know?". The European Union logo and "European Union" text are on the left, with "Login" and "English" on the right. Below this is the "European data" header with the URL "data.europa.eu" and the tagline "The official portal for European data". A navigation bar includes "Home", "Data", "data.europa academy", "Open data maturity", "Community", "Publications", "Documentation", and "About us". The main content area shows a search for "covid" with filters for "Data scope", "Provenance", "Catalogues", "Formats", and "Metadata quality". The search results show "All resources found (5 793)" and a specific result titled "Inventory of civil society initiatives to address the Covid-19 pandemic" from France, categorized as a "Dataset".

The Aggregator

The single European entry point: more than 5793 resources from 27 member states, made findable in one place.

The Sense-Maker

Real-time data stories published between May and June 2020 translating open data into public analysis when governments couldn't.

The Mirror

By exposing uneven metadata quality across countries, the European Data Portal made the gaps as visible as the data itself.

Two structural lessons for Europe

Build infrastructure before the crisis

- Data pipelines cannot be improvised in few hours under pressure.
- Pre-built, tested systems outperform emergency tooling every time.
- SI-VIC existed before Covid, repurposing it worked; inventing something new would not have.

Openness is necessary, not sufficient

- Technically open but inconsistently formatted data is operationally useless in a crisis.
- Interoperability and quality standards matter as much as open licensing.
- The High-Value Datasets Regulation pushes in the right direction, machine-readable, via APIs, common standards.

Q&A session



Hannah Kroker
European Data Portal,
Publications Office of the EU



Auriane Denis Loupot
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Inès Bedar
Former Legal advisor for
the French Prime
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Stay up-to-date on our
2026 activities!

The logo for Data Europa Academy is located in the bottom-left corner. It features a large red circle that partially overlaps a smaller dark blue circle. Inside the dark blue circle, the text "data.europa academy" is written in white, lowercase letters. The word "data" is on the top line, "europa" is on the middle line, and "academy" is on the bottom line. The "e" in "europa" has a small yellow dot above it. To the right of the dark blue circle, there is a white circle that overlaps the red circle.

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Register for our upcoming webinar!

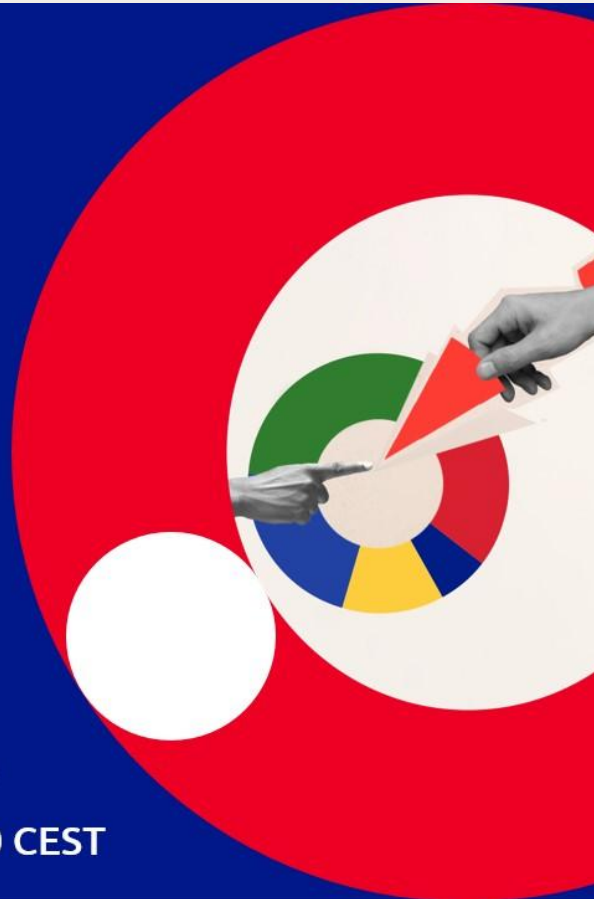
WEBINAR

Reusing energy
data: working
towards a smarter
and greener Europe

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22 May 2026

10.00 – 11.00 CEST



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Continue the discussion after the webinar!

Open data for crisis response and resilience: cases from European & national institutions

Submitted by [Hannah KROKER](#) on Mon, 13/04/2026 - 09:39

Topic: [Academy webinars](#)

You have watched our webinar on open data for crisis response and want to be part of the conversation? Share your ideas and thoughts in the comments below!

Data has become crucial in dealing with various crises, from health emergencies to natural hazards. In the webinar, our guests shared their practical experiences of how institutions at the national and EU-level use open data to anticipate and respond to crises.

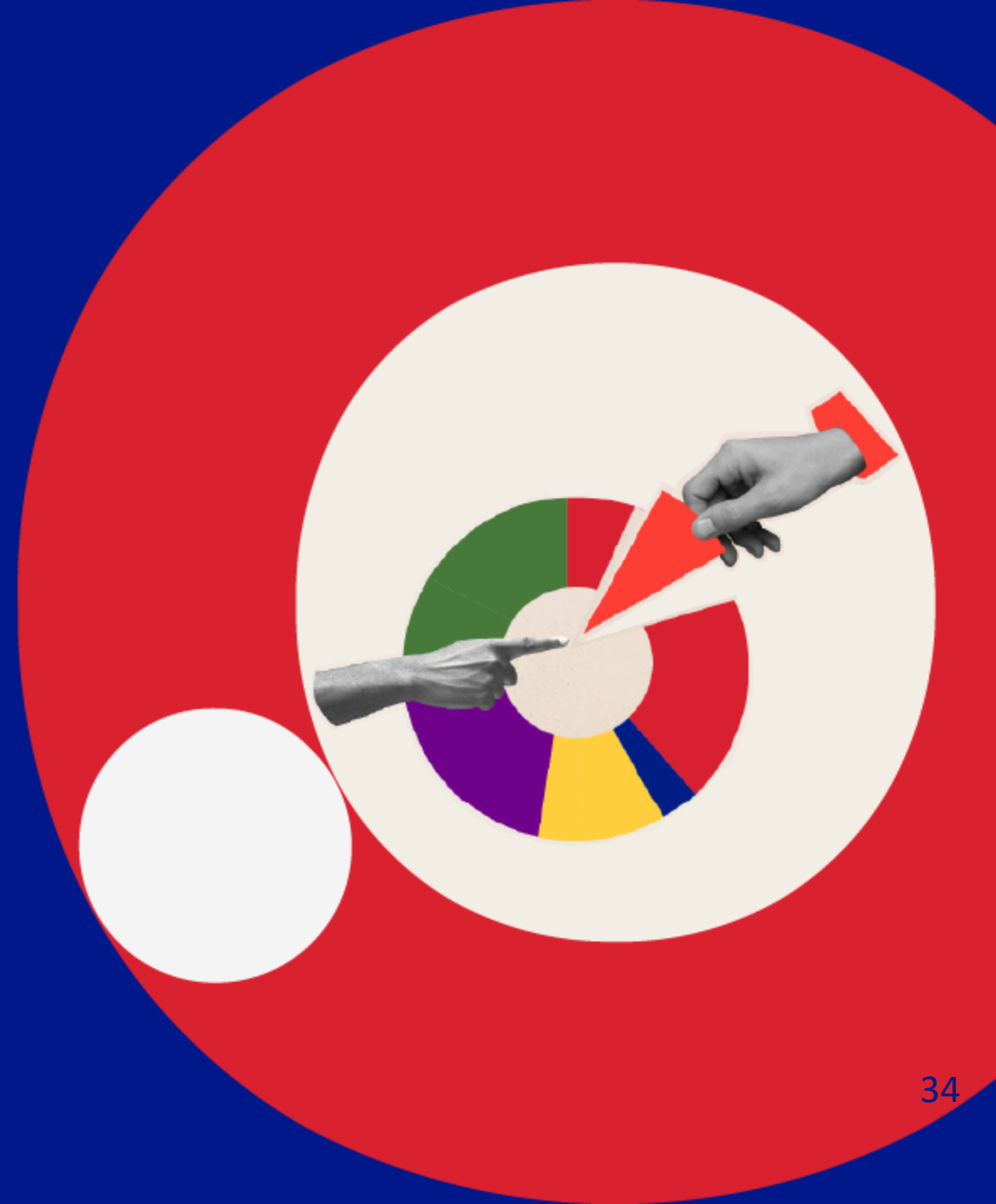
In your opinion, what type of data needs to become more available to strengthen crisis response at different levels? How could AI further complement the use of data in this context?

Let us know in the comments below!

Login using your EU login account to share your thoughts in the comment section down below.



Your opinion is important to us



Thank you!

