

GEXTRECS

Using space to save lives on Earth

**GOVSATCOM
Crisis Management Service Pack**



Funded by the
European Union

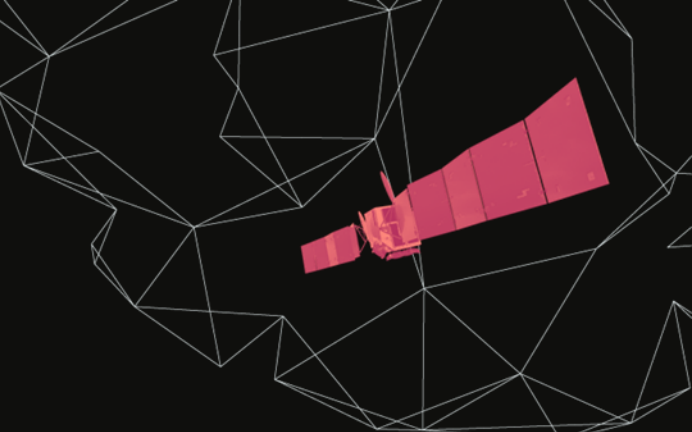
August 2025

#EUSpace 



**The GEXTECS project will showcase
a complete GOVSATCOM service
for managing extreme crisis events**

#EUSpace 

A graphic in the top left corner showing a red satellite in orbit around a wireframe globe.

What is GOVSATCOM?

EU GOVSATCOM initiative will provide **secure and affordable satellite communication services for EU and national public authorities**. These services will help in managing important **security missions and operating key infrastructures**.

What is a complete GOVSATCOM service?

A comprehensive and managed **telecommunication service based on a satellite system** that provides **a complete and secure connectivity solution**, including equipment and operation.

What are GOVSATCOM services most beneficial for?



SURVEILLANCE

Secure & reliable communication for land and maritime surveillance operations.



CRISIS MANAGEMENT

Rapid and effective communication during natural man-made disasters, conflicts, humanitarian aid.



KEY INFRASTRUCTURE

Supporting communication needs of critical infrastructure, including transport, energy, telecom, IT, diplomatic networks, etc.

Who will use GOVSATCOM services?



border
authorities



maritime
authorities



law
enforcement
bodies



civil
protection



humanitarian
aid



military
forces



EU external
action



key
infrastructures
operators

Justification for the GEXTRECS action



- **Ensuring proper SATCOM services and response time** during natural or manmade disasters
- **High risk of network overload and lack of SATCOM resources during crises** due to multiple users making requests at the same time
- The need for **complete connectivity solutions** to ensure the security of EU citizens in such situations
- **Maximizing benefits** by using services and products from different components **of the EU Space Programme**





What is the GOVSATCOM Crisis Management Service Pack?



- A set of telecommunication services **required in disaster and emergency response** provided through EU GOVSATCOM
- **Defined together with End-Users** who manage and respond to extreme and massive disaster events to address their **needs and expectations**
- **GOVSATCOM** service supporting the access to **Copernicus** geo-intelligence products (maps & statistics) and **Galileo** positioning services
- **Demonstrated and validated** in the context of two disaster scenarios:
 - a land cross-border disaster
 - a multinational maritime disaster

LAND USE CASE

Destruction of the Niedów Dam in a terrorist attack

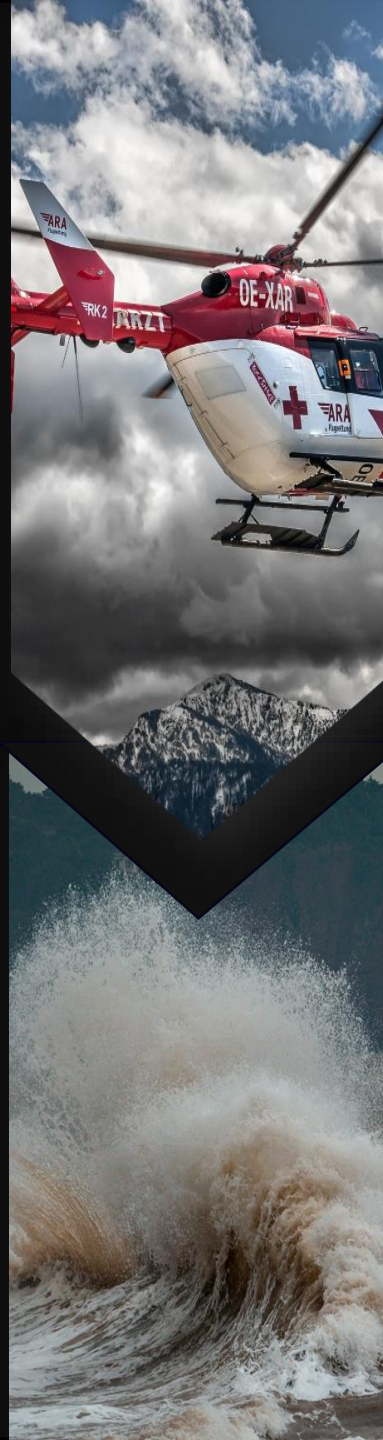
- Huge flood wave in Poland and Germany
- Over 100,000 people affected

Selected response actions:

- Search and rescue
- Operational coordination

End-User involved in the use case:

- I.S.A.R. Germany (DE)
- Virtual On-Site Operations Coordination Centre (OSOCC) simulator



MARITIME USE CASE

Undersea earthquake in the Mediterranean Sea

- Massive environmental devastation and infrastructural damage
- Death toll exceeding 200,000 people

Selected response actions:

- Evacuation of tourists from cruise ships
- Containment of oil spillage from a tanker

End-User involved in the use case:

- Marine Technology Unit of CSIC (ES)
- "Sarmiento de Gamboa" – a multidisciplinary research vessel



Innovations for robust communications

Dynamic Planner

- Adjusting and assigning the best satellite communication resources in the most effective way
- Increasing the amount of data a satellite system can handle while making sure users get good quality communication

Network Balancer

- Keeping communications secure when switching between different networks
- Distribution of internet traffic across different WAN links based on predefined rules



GEXTRECS demonstrations

When: 23 October 2025

Where: Water Castle „Hause Wohnung“, Voerde (DE) and Port of Vigo (ES)

Format: hybrid

Audience: End-Users, GOVSATCOM Competent Authorities (CGAs),
interested stakeholders

**You can
join us
online**



GEXTRECS

GOVSATCOM EXTREME EVENTS
CRISIS MANAGEMENT SERVICE



Horizon Europe Research Project

Grant Agreement no. 101129626

Leader: GMV Aerospace and Defence SA

Duration: 24 months (February 2024 – January 2026)

Consortium members: 8 partners from 4 EU Member States

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