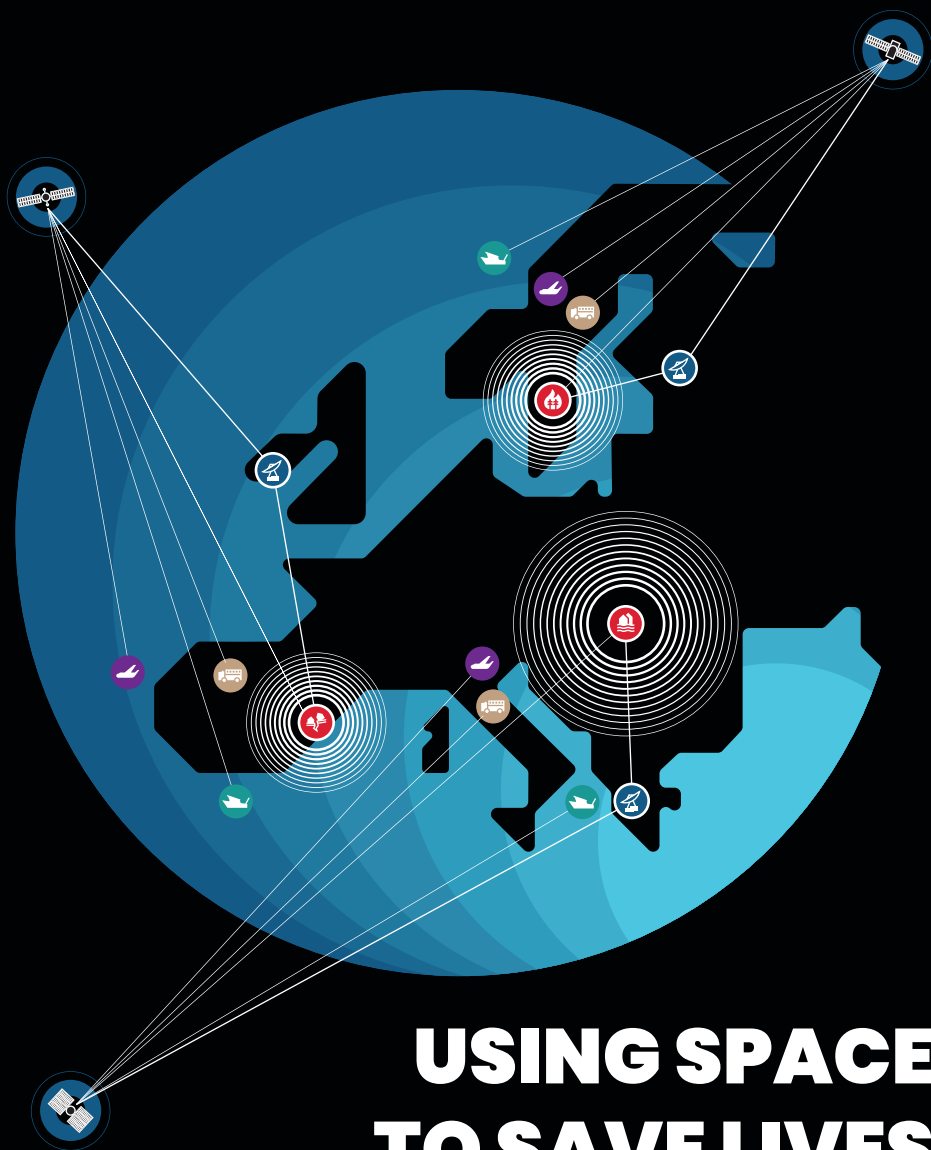




USING SPACE TO SAVE LIVES ON EARTH



Imagine this... an earthquake or flood strikes. Everything around is destroyed. Power is down. Phones don't work. You're injured and waiting for help.

Every minute counts!

It's vital for emergency teams to stay connected when lives are at stake.

GEXTRECS helps us stay prepared in any circumstances ensuring guaranteed and secure satellite communications for better crisis response.



Gema Rueda Montenegro
Project Manager at GMV,
GEXTRECS Coordinator

The GEXTRECS project aims at demonstrating an end-to-end GOVSATCOM service supporting extreme events crisis management.

Key objectives

01 Innovation

Define **GOVSATCOM Crisis Management Service Pack** – with essential SATCOM services for crisis responders.

Combine **Copernicus** (geo-intelligence products) and **Galileo** (Positioning, Navigation and Timing services) with **GOVSATCOM** (secure connectivity).

Enhance robust, secure and optimised communications with two innovative components: **Dynamic Planner and Network Balancer**.

02 Collaboration & mutual learning

Solutions co-designed by first responders, satellite operators, and technology providers.

Training session conducted prior to initial demonstrations.

Stakeholder workshops for feedback collection and policy insights.

Open-access learning materials to promote knowledge sharing and continuous learning.

03 Demonstration

GEXTRECS solutions **tested in a multi-national disaster scenario**, simulating extreme emergency event. End-Users assess performance, usability, and acceptance of the GOVSATCOM service in near real-life conditions.

What is EU GOVSATCOM?

The European Union Governmental Satellite Communications (GOVSATCOM) programme aims to provide **secure, resilient and cost-efficient satellite communications** capabilities to **security and safety critical missions** and governmental operations managed by the EU and its Member States, including national security actors and EU Agencies and institutions.

DEMONSTRATION SCENARIO

Earthquake near Porto causes a large-scale multinational crisis



7,4
on the Richter
Scale



50 km
radius from the
epicentre with
severely damaged
terrestrial infrastructure



300,000
people affected



no electricity

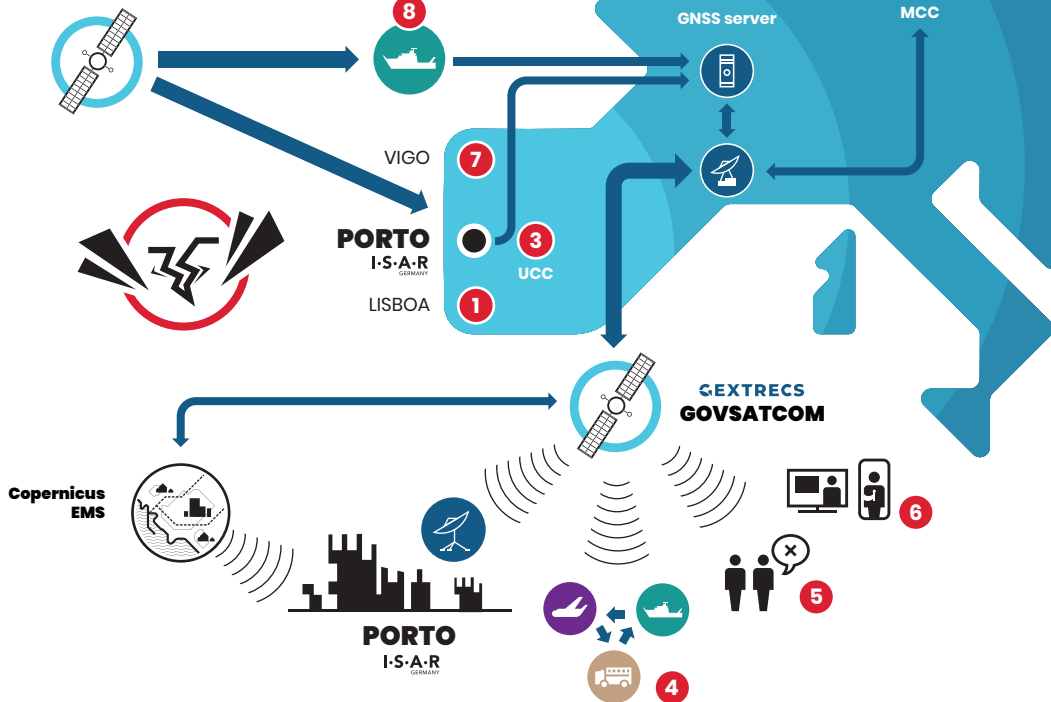


no drinking
water



no phones
or internet

GALILEO CONSTELLATION



- Portugal** submits an international request for assistance via the United Nations **GDACS** virtual **OSOCC** platform.
- I.S.A.R. Germany** sets up a **Mission Control Centre (MCC)** in Germany while preparing for deployment to Portugal.
- USAR Coordination Cell (UCC)** communicates with emergency services and authorities to organise evacuation and rescue efforts, aiming to contact affected citizens.
- Emergency services need constant communication** with other rescue teams deployed in the crisis area.
- Affected citizens and tourists are desperate** to call for help or contact their families.
- Public media require high data transmission rates** to broadcast HD video and share high-resolution content.
- The CSIC research vessel Sarmiento de Gamboa** departs from the Port of Vigo carrying supplies of water, food, and fuel.
- I.S.A.R. Germany establishes communications with the Sarmiento de Gamboa** to coordinate the distribution of supplies and transfer medical records of patients to be evacuated from Porto on the vessel.

 <https://gextrecs.space/>

 gextrecs

 consortium@gextrecs.space

 gextrecs



GEXTRECS consortium leader



Spain

GEXTRECS consortium members



Spain



Poland



Spain



Germany



Germany



Poland



Italy



Poland



#EUSpace

© GEXTRECS Consortium, 2025

The content of this document reflects only the view of the GEXTRECS Consortium. The European Commission, European Union Agency for the Space Programme and GEXTRECS Consortium assume no responsibility at all for damages connected with the use of this document or information that it contains.