

Linking space to user needs

Galileo Emergency Warning Satellite Service (EWSS)

Satellite-based Services for Disaster Risk Management

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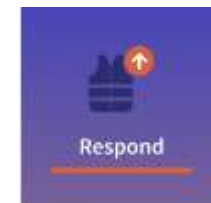
Outline:

- Why a new service?
- EWSS Benefits
- Implementation Steps
- Prototype and Pilot Tests

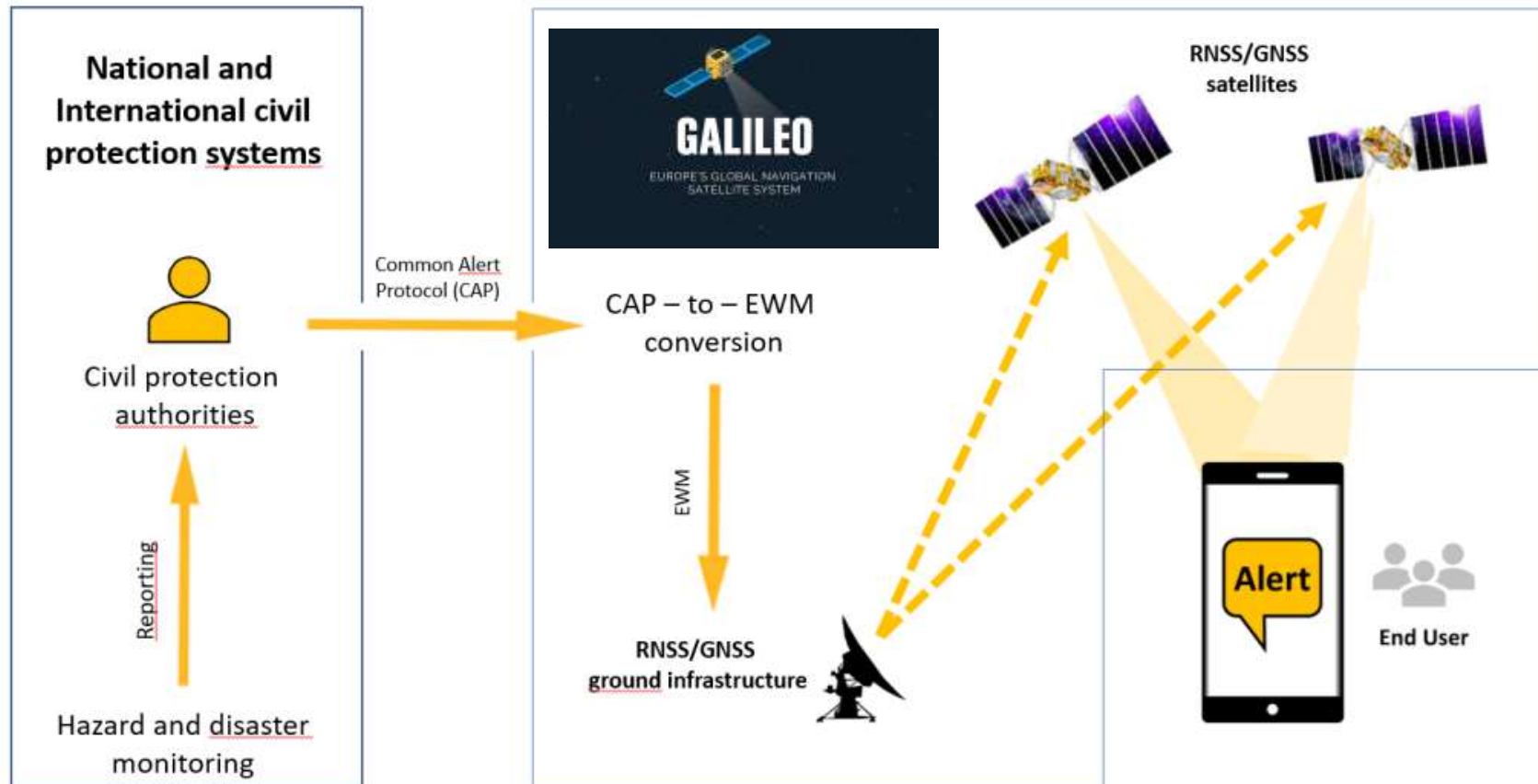


Why a New Galileo Service?

- Close the gap in absence/destruction of Ground based EWS (e.g. cellular networks, radio and television broadcast)
- EU Space considers civilian demand for emergency coordination
- EU role in ensuring large scale, shared and sustainable projects
- Linked to EU Disaster Resilience Goals



EWSS



EWSS Main Benefits

Reach



Reliability



Complementarity



Scalability

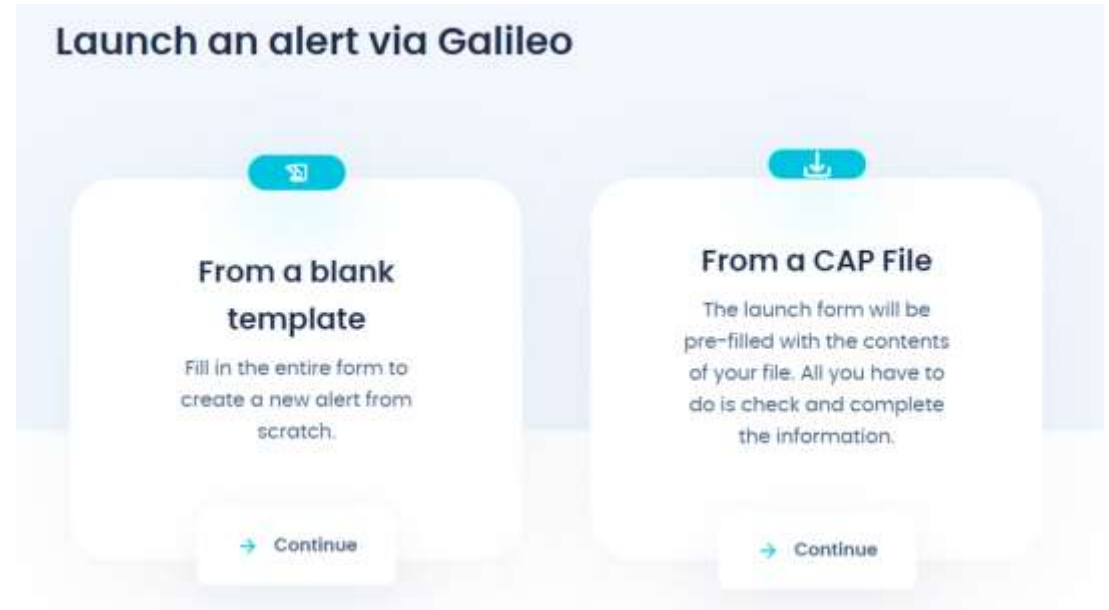


EWS Service Implementation Steps

- STELLAR Project
 - Standalone Prototype
- Step 0: Pilot Tests and Interface
 - Reuse of the STELLAR assets
 - EU Space Programme deployed proxy interface to Galileo
 - Member States autonomous access to prepare for the service and tests features
- Step 1: Initial Services
 - EU Space Programme commitment to deliver EWSS
 - Member States **EWS-ADP connected to Galileo**
- Step 2: Full Services
 - EU Space Programme evolved commitment/ more resilience
 - Extension of Service, for instance beyond EU27

Prototype & Pilot Test Phase (1)

- 2023 – 2024 EU Prototype: STELLAR
- Field tests in France, Germany, Cyprus, Belgium/Luxembourg border, Romania, Estonia
- Excellent technical results
- Positive feedback from European civil protection experts

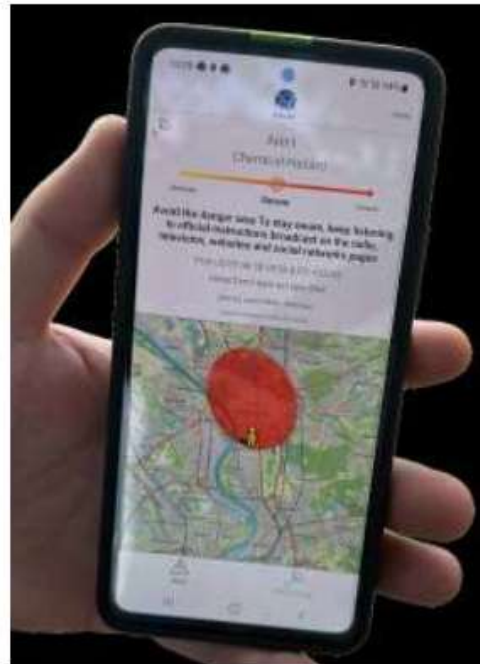
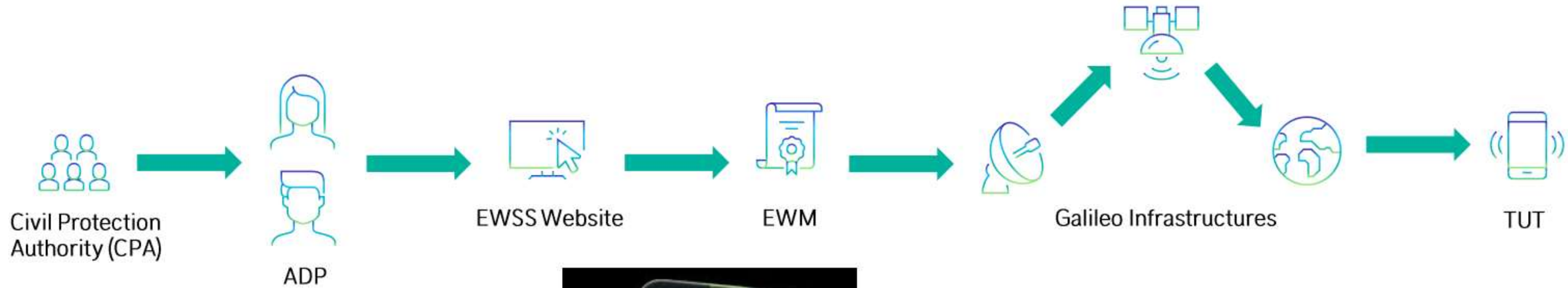


Prototype & Pilot Test Phase (2)

- 2023 – 2024 EU Prototype: STELLAR
- Field tests in France, Germany, Cyprus, Belgium/Luxembourg border, Romania, Estonia
- Excellent technical results
- Positive feedback from European civil protection experts



Prototype & Pilot Test Phase (3)



- For the EWSS test campaign, the mobile device is a Test User Terminal (TUT)
- It is composed of:
 - A mobile phone with Stellar application installed
 - A NavBox to decode the RLM received by satellite
- Presentation of the device in training:

Prototype & Pilot Test Phase (4)

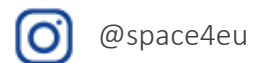
- 2024 – 2025 Pilot Tests for EU Member States Civil Protection Authorities
 - National, Regional or Local
- Use of Galileo infrastructure/satellites
 - Based on planned requests
- Autonomous access for test purposes



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