AWARE
REVOLUTIONISING PUBLIC WARNING

AWARE

ENABLING EWSS/GALILEO MARKET UPTAKE IN WIDESPREAD PWS SOLUTIONS

Presentation title

Name of Presenter

Date and place of presentation

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AWARE PROJECT

- The European Commission will launch the Galileo Emergency Warning Satellite Service (EWSS) in the coming years
  - Alerting citizens during threatening hazards using medium earth orbit satellites
- The AWARE project will develop a solution enabling the reception and processing of EWSS messages
  - Integration into fixed devices (digital panels, LRADs (Long Range Acoustic Devices)) and indoor warning systems
  - Enables alerts via audio and text even during telecommunications disruptions
- The AWARE project's solution will be a new way to alert the population in case of a threat
  - Goes beyond smartphone-based alerting capabilities
- Project's main goal is to enhance public warning capacities by developing new fixed Public Warning Devices.

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PROJECT PARTNERS

- **TPZF:** Project coordinator, system engineering, AWARE EWSS software and Service Centre development, demonstration lead, AWARE module integration in IWS,
- **FDC:** AWARE module Designer & Manufacturer
- **Genasys:** AWARE module integration in LRAD
- **JCDecaux:** AWARE module integration in DP
- **CNES:** Operations for end-to-end Demonstration
- **UNISTRA:** Analysis and demonstration of synergies between Copernicus EMS and Galileo EWSS
- **EENA:** Representative of Alerting Authorities, User needs collection, Support to Dissemination/Awareness
- **Slovenian Civil Protection:** Involvement in Demonstration, representative of Alerting Authorities

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DEMONSTRATIONS

- AWARE demonstration will be based on three use cases in which utilising Galileo EWSS to alert the population through multiple channels would be critical

- During the project, three live demonstrations will be organised based on the use cases:
  - Natural disaster
  - Urban emergency
  - Industrial catastrophe

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NATURE-DERIVED DISASTER

- According to the World Health Organization, floods are the most common type of nature-derived disaster
- Slovenia is also susceptible to flash floods and urban flooding, with an emergency proclamation being issued across the entire country in 2014
- The AWARE solution will be deployed in a live-context demonstrations in Slovenia
  - Long-Range Acoustic Device will be deployed to broadcast an alert message
  - Potential Rapid Mapping Activation Event using Copernicus EMS

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URBAN EMERGENCY

- In urban emergencies, such as large-scale incidents in densely populated areas, timely communication is critical.
- Delays in securing dangerous zones can have significant consequences, highlighting the importance of employing a multi-channel approach to alert large populations quickly and effectively.

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INDUSTRIAL CATASTROPHE

- In 2001, a powerful explosion happened in the fertilizer plant (chemical industry), AZF, in Toulouse
  - Resulting in the deaths of 31 people and more than 2 500 injured
- All the fixed and mobile telecom networks were down until the evening
- The resilience AWARE solution will be demonstrated using this scenario

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OUTCOMES OF THE PROJECT

- AWARE module design and development
- AWARE module integration: Embedding AWARE modules into devices such as LRADs and DPs for enhanced local alerting.
- EWSS-Enabled Products: Launching EWSS-ready Public Warning Devices for market.
- AWARE ecosystem & service centre: Establishing a European value chain and service centre for maintenance and monitoring.
- Market commitment: Developing business models and identifying new customers to ensure market uptake.

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THANK YOU!

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