

Giannis Kanellopoulos ICCS

Egnatia Odos Workshop, Metsovo, 31/03/2022

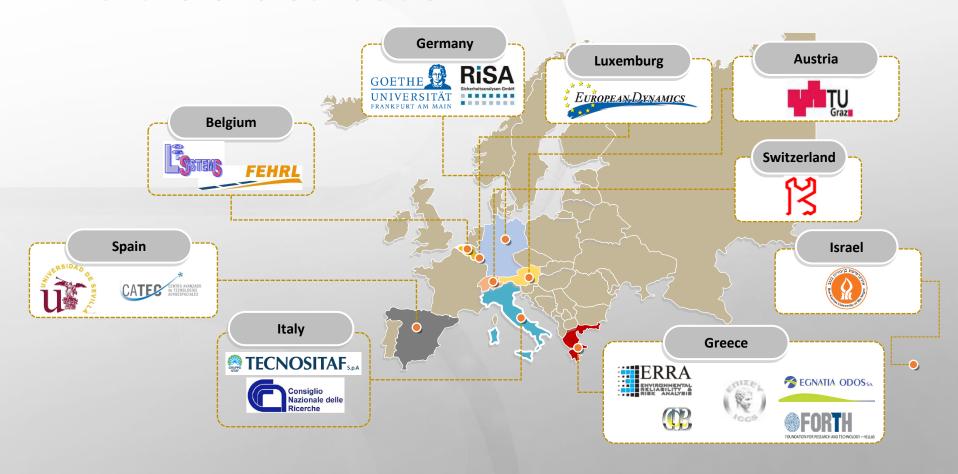




Project Overview

- Call Identifier: H2020 MG-7-1-2017 "Resilience to extreme (natural and man-made) events"
- Type of action: Research and Innovation
- Duration: 01/09/2018 30/06/2022 (46 months)
- EC Funding requested: 4.9 M €
- Coordinator: Institute of Communication and Computer Systems (ICCS)
- Consortium: 17 partners from 9 countries
- 2 Infrastructure users TECNOSITAF & EOAE

Partners' distribution



4/4/2022



Project Concept



Great achievements in the field of transportation (e.g. bridges, tunnels)

BUT are susceptible to extreme events that can jeopardize human lives:

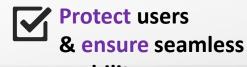
- natural causes (e.g. earthquakes, flooding, high winds)
- physical causes(e.g. mechanical impact)
- man-made incidents (e.g. accidents)
- o cyber-attacks

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Project Objectives

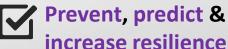
Major concerns when handling extreme events in infrastructures:



mobilityAvoid any human and

financial cost





- Vulnerability and predictive analysis
- Risk assessment



React

Provide optimal information to:

- minimize the impacts
- restore the services

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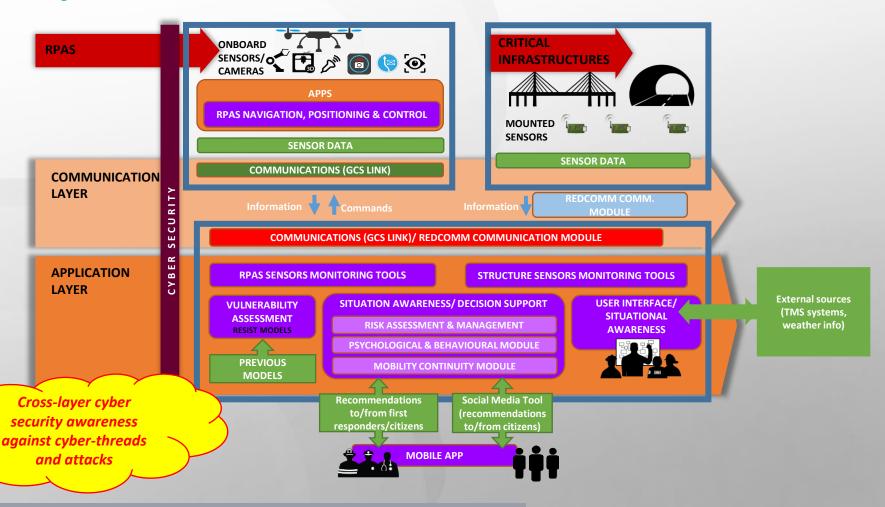
Innovations



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Project Architecture



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Validation

Validated in real conditions and infrastructures:

Pilot 1 (Greece)

• Bridge T9 in the Peristeri area





Pilot 2 (Italy)

- A32 Millaures Viaduct
- St. Petronilla Tunnel



THANK YOU!

Any Questions?

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