



FLOOD-serv

Public FLOOD Emergency and Awareness SERVICE

Overall Project Presentation



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 693599. This material reflects only the author's view and the Research Executive Agency (REA) is not responsible for any use that may be made of the information it contains.

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Introduction to the project

The background

- In **2014** floodwaters caused over 2,000 landslides across the Balkan region, spreading damage across many towns and villages **Serbia, Bosnia and Herzegovina, Croatia, Romania and Slovakia** were the **most affected** countries.
- In **2016** flooding began after several days of heavy rain in Europe, mostly in **Germany and France**, but also **Austria, Belgium, Romania, Moldova, Netherlands** and the **United Kingdom**.



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Introduction to the project

The problem



Floods are an increasingly acute problem which endanger lives and can cause **human tragedies, heavy economic losses and severe environmental consequences**

(e.g. installations holding large quantities of toxic chemicals are inundated or wetland areas destroyed).



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Introduction to the project

The need

Despite of efforts at national and local level, flooding cannot be wholly prevented and it remains a severe problem that affects many countries across Europe.

Thus, it is clear that risk reduction in large international basins can only be achieved through transnational, interdisciplinary and stakeholder oriented approaches.

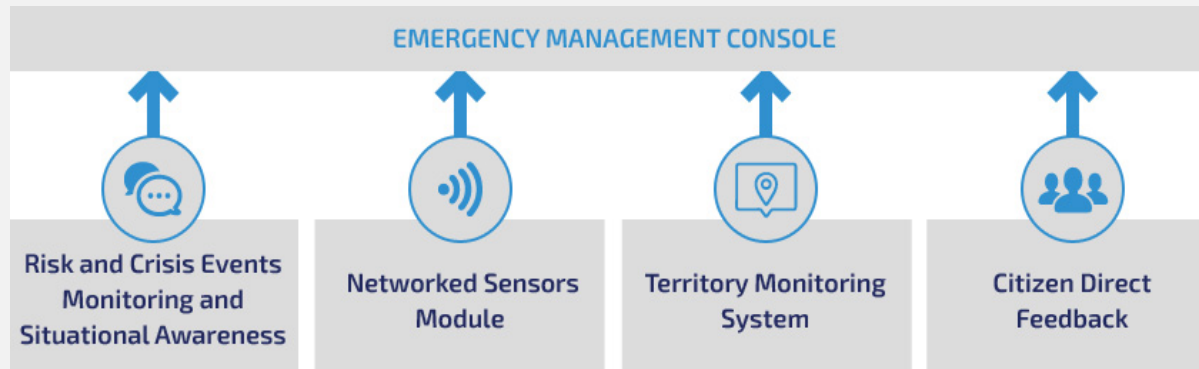


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FLOOD-serv system



FLOOD-serv system will acquire information from a large number of external data sources such as:

- **sensors,**
- **social media,**
- **open data,**
- **semantic wiki.**

These data will be made available by the **FLOOD-serv system** on mobile devices such as **tablets** and **smartphones** as well as **laptops** and **PCs**.

The **end users** i.e. *public authorities, emergency personnel* and *citizens* will be **warned massively** in order to take actions for managing **flood risks** and **impacts**.

Overall Project Objective



To develop and provide a **pro-active** and **personalised** citizen-centric public service application that will enhance citizens' involvement and use the collaborative power of ICT networks (**networks of people, of knowledge, of sensors**) in order to raise awareness on flood risks and to enable collective risk mitigation solutions and response actions.



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General objectives

Empower local communities to directly participate in the design of emergency services dealing with floods mitigation actions

Harness the power of new technologies, such as social media, and mobile technologies to increase the efficiency of public administrations in raising public awareness and education regarding floods risks, effects and impact.

Encourage the development and implementation of long-term, cost-effective and environmentally sound mitigation actions related to floods through an ICT-enabled cooperation and collaboration of all stakeholders: government, private sector, NGOs and other civil society organizations as well as citizens



Specific Objectives

Make use of the best available data in order to identify the location and potential impacts that natural hazards as floods can have on people, property and natural environment

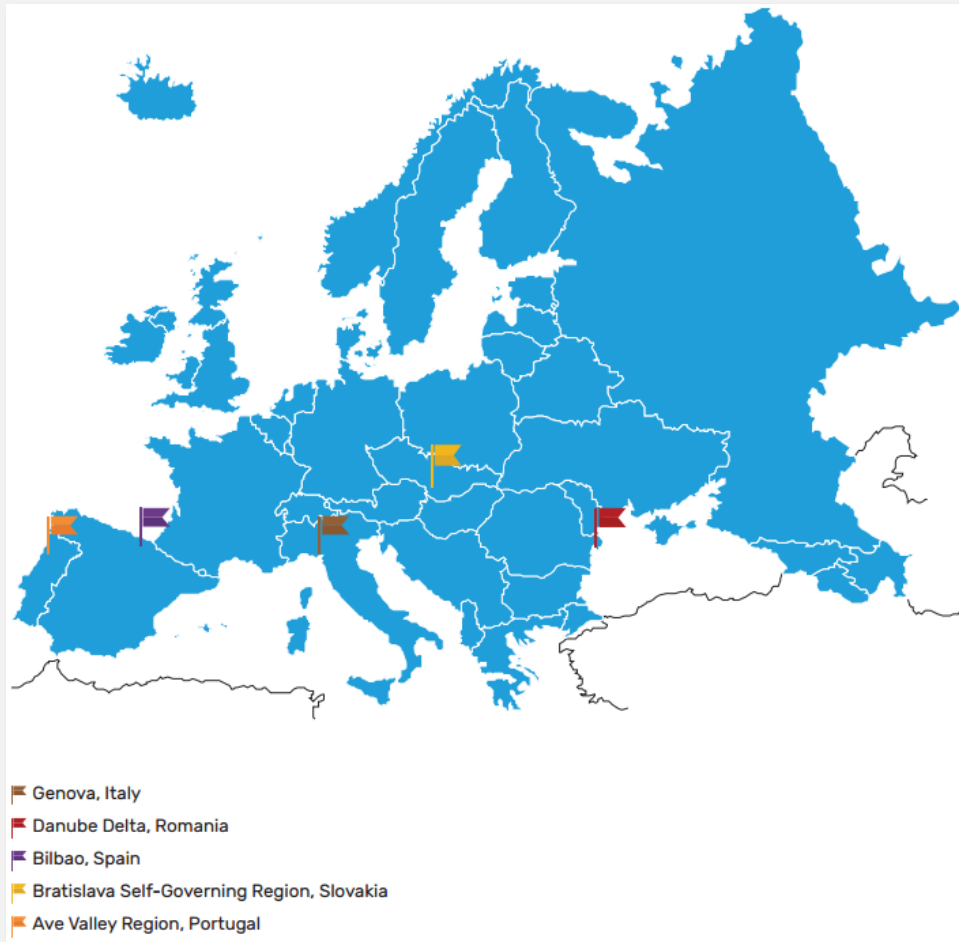
Improve the systems of warning and emergency communications

Provide support for the public authorities and government institutions' hazard mitigation efforts, including planning and action coordination

Inform the public on the risk exposure to natural hazards and how they can get prepared, respond, recover and mitigate the impacts of such events



Pilot sites

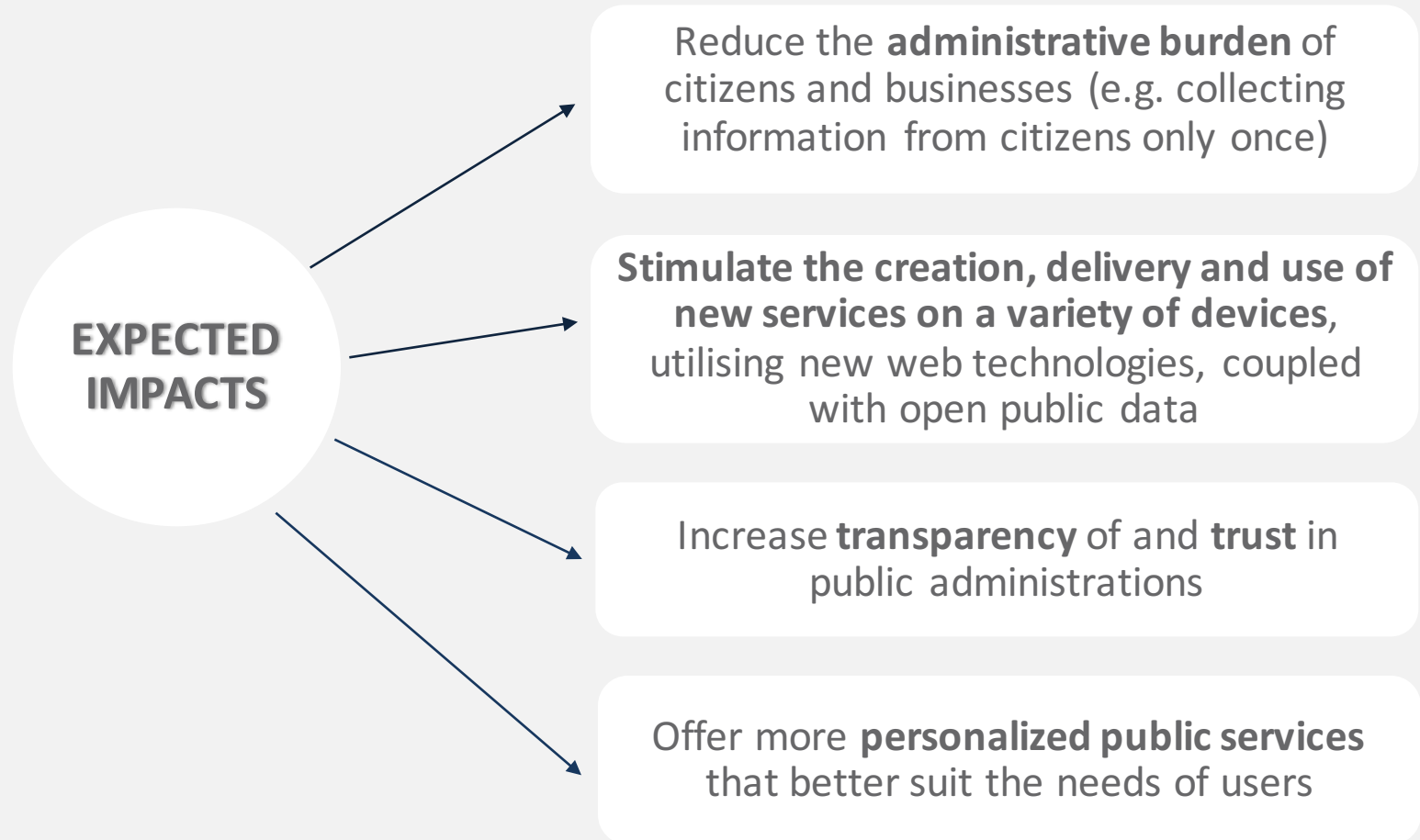


- Genova, Italy
- Danube Delta, Romania
- Bilbao, Spain
- Bratislava Self-Governing Region, Slovakia
- Ave Valley Region, Portugal



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Expected Impacts



Partners



SIVECO ROMANIA SA (SIVECO)
Project Coordinator
Romania
www.siveco.ro



ANSWARETECH SL (ANSWARE),
Spain
www.answare-tech.com



Government To You (GOV2U),
Belgium
www.gov2u.org



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AYUNTAMIENTO DE BILBAO
(BILBAO), Spain
www.bilbao.net



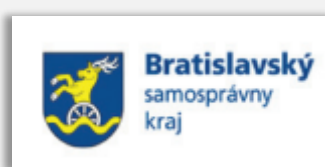
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Work packages

- **WP 1:** Project management and coordination
- **WP 2:** Comparative study and analysis on flood risk management public services in the selected regions
- **WP 3:** Development of FLOOD-serv system components
- **WP 4:** FLOOD-serv collaborative and personalized citizen-centric platform
- **WP 5:** Verification, Piloting, Evaluation and Validation
- **WP 6:** Stakeholders Engagement, Dissemination and Exploitation
- **WP 7:** Ethics requirements



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Social Media & Contact



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Thank you for your attention!



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