i REACT

IMPROVING RESILIENCE TO EMERGENCIES THROUGH

ADVANCED CYBER TECHNOLOGIES

Final video and project presentation

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[1] **PU** = Public, **PP** = Restricted to other programme participants (including the Commission Services),
  RE = Restricted to a group specified by the consortium (including the Commission Services),
  CO = Confidential, only for members of the consortium (including the Commission Services)

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1.0	4/03/2019	First issue of the deliverable	G. Sánchez, L. Sanchez, Jesús Fernández
1.1	17/04/2019	Feedback collected	C. Rossi
1.2	26/05/2017	Final version of the deliverable	G. Sánchez, L. Sanchez, Jesús Fernández

1 FINAL VIDEO

The final video is a short, compelling visual storyline of the project accounting for the main achievements of I-REACT using extensive and self-generated footage from the different milestones of the project.

Link to the video: https://youtu.be/HKv0EdCBHwU

The proposed storyline is detailed below:

In the last decade, the number of climate related disasters has reached an unprecedent level around the world and climate change is making extreme weather events more frequent and intense. In this context, the European Commission launched a call for innovation projects that would tackle this huge societal challenge. That's how I-REACT was born: to combine Big Data and advanced technologies in order to improve disaster management along all the key phases of the emergency cycle.

After 3 years of research and implementation, the I-REACT consortium developed a Big Data platform that is centralized, modular and interoperable. It combines data from multiple information sources such as weather predictions at different scales, models for climate projections and early warning forecasts for flood, fires and extreme weather events.

I-REACT also includes a social media engine that uses machine learning to filter information from Twitter as well as a mobile application for crowdsourcing data collection and for improving citizen awareness on natural hazards.

I-REACT also allows maps from Copernicus EMS and Sentinel satellites to be visualized at operational centers and supports in-field responders with different technologies such as a professional app, wearables, smart glasses and drones. Altogether, the system can help all actors involved in disaster management to minimize the impact of future disasters.

During the course of the project, I-REACT has gathered knowledge from several professional networks and co-designed an emergency management solution able to bridge the gaps of the fragmented systems currently used across Europe.

I-REACT was demonstrated and tested with many different end-users across Europe, during 6 demonstration events in which crucial feedback was gathered. As a result of this cooperation and co-design, the platform allows multi-agency use and high adaptability.

I-REACT involves citizens as key actors in the fight against disasters to create more resilient communities in Europe. As a key tool of the project, the I-REACT app promotes citizen education and self-protection behaviours and enhances active participation in disaster management through a novel gamified approach.

With a high number of app downloads and more than 10 thousand followers on our social media channels, I-REACT has reached high visibility, and played an important role in terms of awareness and societal impact.

Now that we are at the final stretch, we can transform our achievements in numbers. With the implementation of I-REACT, we estimate that we can help reduce the environmental damage and number of people affected by disasters as well as the costs of different emergency related events.

Along these years, the platform has been of interest to many different stakeholders such as public administrations, Civil Protection teams, Environment Agencies as well as Banking or Insurance

companies. That's why I-REACT will continue developing as a disaster management tool to be in the market very soon!

I-REACT: from an innovation action to a disaster solution.

2 PROJECT PRESENTATION

The project presentation is composed of three main communication materials:

- New interactive website filtered by type of audience and showcasing the functionalities of I-REACT in an attractive manner http://www.i-react.eu/
- Project presentation accounting for the overall project architecture: http://www.project.i-react.eu/wp-content/uploads/2019/04/GeneralProject-presentation.pptx
- Technological brochure that covers the main functions of the system with a view of potential exploitation: http://www.project.i-react.eu/wp-content/uploads/2019/04/Commercial-brochure-I-REACT-final.pdf

These materials will be accompanied by a social media campaign, a press campaign, a final event, and many other actions that will take place in May 2019, upon the project finalisation. The account of those, as well as final impact numbers will be included in **Deliverable 8.4 - Final report on communication**.

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