



# I REACT

IMPROVING RESILIENCE TO EMERGENCIES THROUGH  
ADVANCED CYBER TECHNOLOGIES

## Report on in-field mobile technologies and in-situ monitoring services

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<sup>1</sup> **PU** = Public, **PP** = Restricted to other programme participants (including the Commission Services),  
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0.1	27/11/2017	Empty version of the deliverable with introduction note to explain its meaning.	C. Rossi

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## 1 INTRODUCTION

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The finalization of this deliverable will be possible only upon the conclusion of its associated task, which are T5.3 Mobile Applications, T5.4 Advanced In-situ monitoring, T5.6 UAV Data Services, T5.7 Custom Wearable Device, T5.8 Context Awareness & Augmented Reality. The currently end date of all the aforementioned task is at M24 (End of May 2018).

The submission date of this deliverable was inserted at M18 (end of November 2017) by mistake. In order to cope with this error, and to allow the closure the first reporting period, this deliverable is submitted empty at M18, and its content will be fully included in D5.5 “In-field Mobile technologies and in situ monitoring services”, which is correctly due at M24.

### 1.1 PURPOSE OF THE DOCUMENT

The main goal of this document is to reports the detailed specifications of the I-REACT mobile application, UAV data services (including GNSS-Reflectometry), custom wearable devices and

augmented reality application, starting from the initial specification that were outlines in D2.7 “Report on Technical Requirements and Overall System Architecture”[RD02].

## **1.2 STRUCTURE OF THE DOCUMENT**

The document structure will be defined together with D5.5

### 1.3 ACRONYMS LIST

AM	Augmentation Module
AOI	Area of Interest
API	Application Program Interface
AR	Augmented Reality
BT	Bluetooth
DEM	Digital Elevation Model
DOM	Document Object Model
DoW	Description of Work
DR	Design Review
DSS	Decision Support System
DTO	Data Transfer Object
EBIOS	Expression des Besoins et Identification des Objectifs de Sécurité
ECMWF	European Centre for Medium-Range Weather Forecasts
EDAS	EGNOS Data Access Service
EGNOS	The European Geostationary Navigation Overlay Service
EMS	Emergency Management System
EO	Earth Observation
EODC	Earth Observation Data Centre
ESA	European Space Agency
EU	European Union
FTP	File Transfer Protocol
FWI	Fire Weather Index
GDPR	General Data Protection Regulation
GIVE	Grid Ionospheric Vertical Error Indicator
GIS	Geographic Information System
GNSS	Global Navigation Satellite System
GPS	Global Positioning System
HPL	Horizontal Protection Level
HTTP	Hypertext Transfer Protocol
IDI	I-REACT Data Interface
IGP	Ionospheric Grid Points
IURW	International User Requirement Workshop
JSON	Javascript Object Notation
JSON-LD	JSON for Linked Data
MDA	Mechanics, Dynamics and Aesthetics
NMME	North-American Multi-Model Ensemble
ORM	Object Relational Mapper
OSM	OpenStreetMap
PVT	Position, velocity, Time
RDF	Resource Description Framework
REST	Representational state transfer
RSS	Rich Site Summary
SAR	Synthetic Aperture Radar
SDK	Software Development Kit
SIDP	Science Integration and development Platform
SPA	Single Page Application
SQL	Structured Query Language
ToW	Time of Week
UAV	Unmanned Aerial Vehicles
UI	User Interface

## 1.4 REFERENCE AND APPLICABLE DOCUMENTS

<b>ID</b>	<b>Title</b>	<b>Revision</b>	<b>Date</b>
[RD01]	I-REACT Project proposal: Grant Agreement – Annex1	-	16/03/2016
[RD02]	Report on Technical Requirements and Overall System Architecture	3.0	30/12/2016

**END OF THE DOCUMENT**