



TERRIFFIC
ACCELERATED **CBRNE** RESPONSE

EUROPEAN BROKERAGE EVENT

H2020 RESILIENCE FROM DISASTER 2019 TOPICS

PRACTITIONERS NEEDS: FOCUS ON **TERRIFFIC** PROJECT

L. WALLE / TLA

October 24th 2018 – Paris

PROJECT CARD



TERRIFFIC

ACCELERATED **CBRNE** RESPONSE

Tools for early and **E**ffective **R**econnaissance in cb**RNe** **I**ncidents
providing **F**irst responders **F**aster **I**nformation and
enabling better management of the **C**ontrol zone

Call topic SEC-05-DRS-2016-2017:
Chemical, biological, radiological
and nuclear (CBRN) cluster

European Commission
Horizon 2020
European Union funding
for Research & Innovation

Start Date: 01/05/2018

36 months

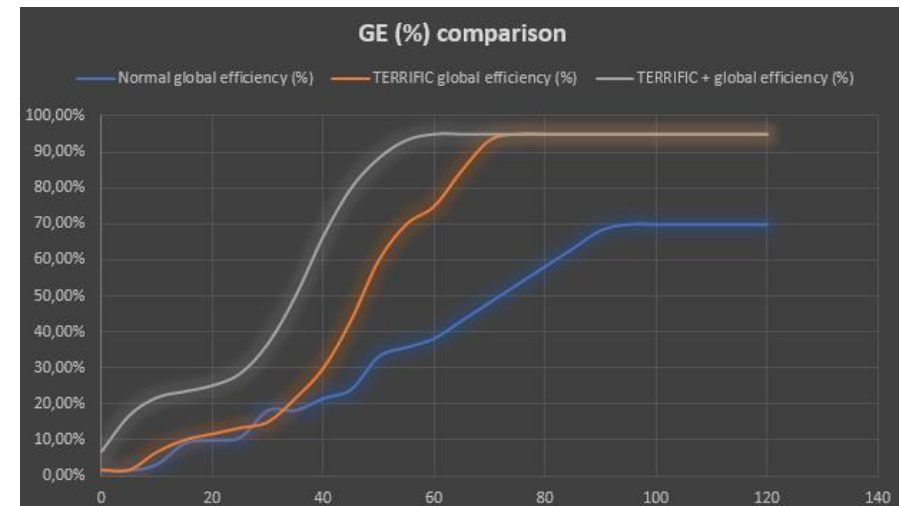
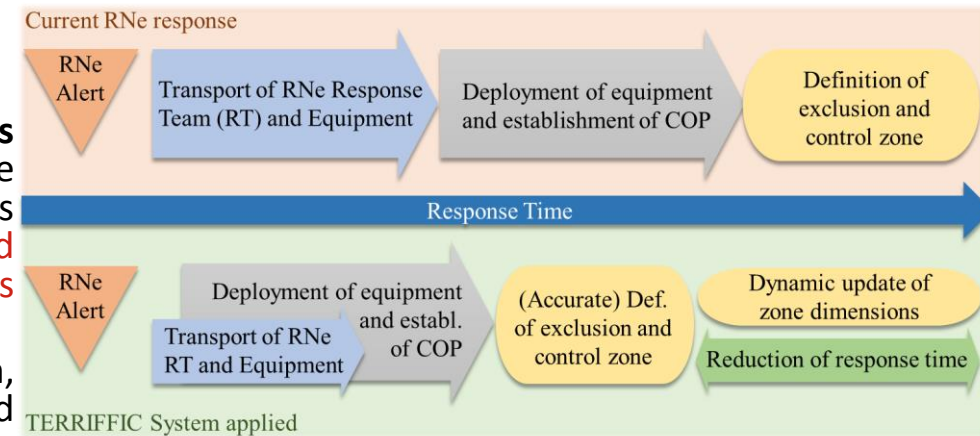
End Date: 30/04/2021



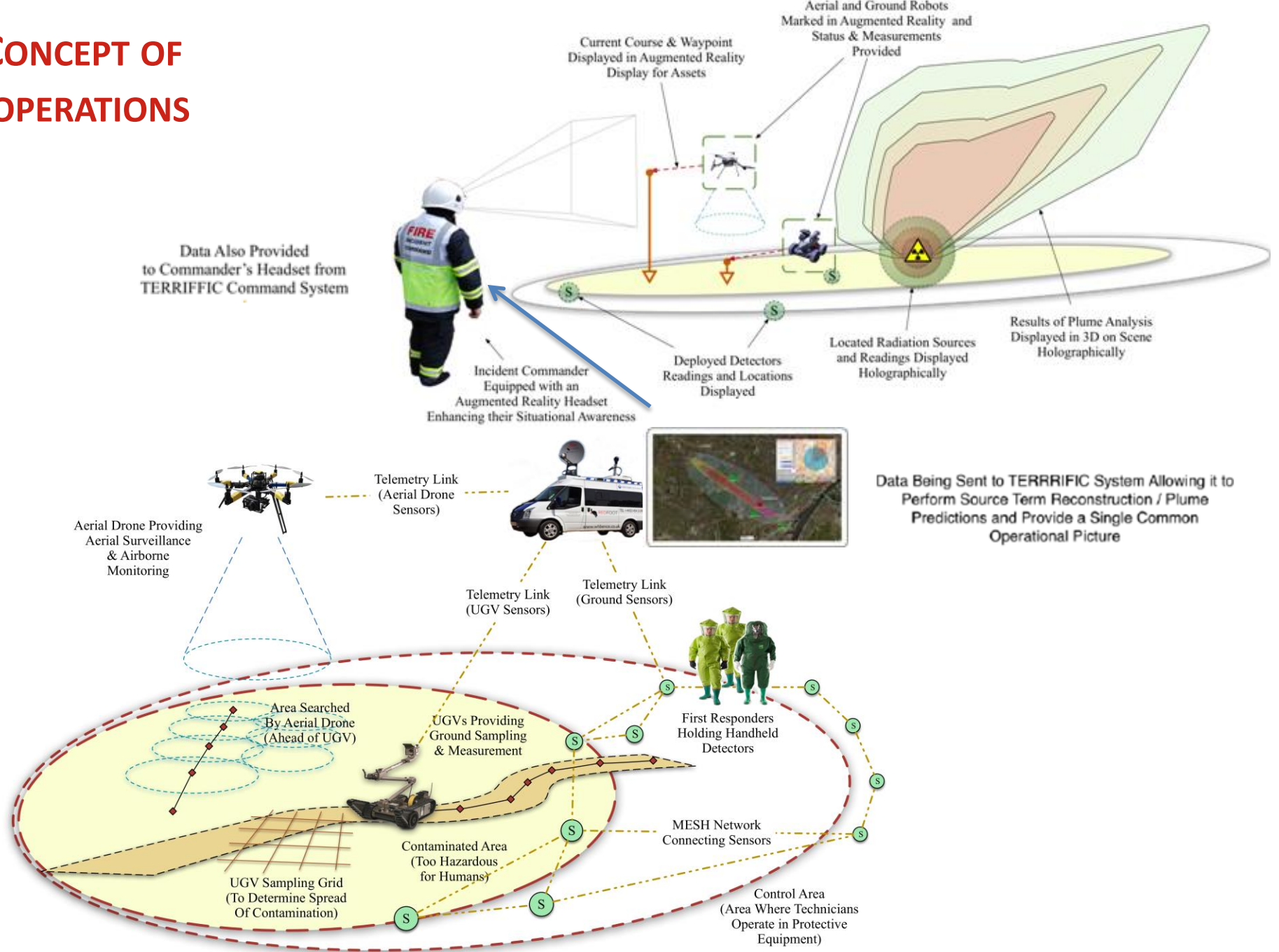
Core mission: develop a comprehensive system of complementary, interconnected and modular software and hardware components, for which each of them individually will substantially enrich the European response to CBRNe events, and together, as an integrated TERRIFFIC System made available to all EU practitioners on the ENCIRCLE Catalogue, will enable a step-change in the first-hours response.

OBJECTIVES

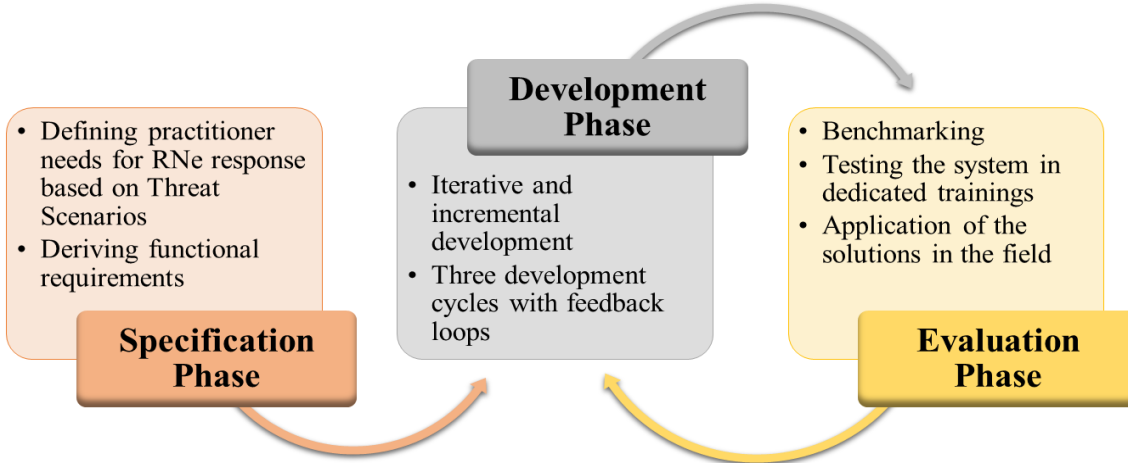
1. Deepen the **shared understanding between practitioners and solution providers** on needs/requirements during the “first hours” of response and technological possibilities matching them. **The practitioners will be strongly involved throughout the development process, components assessment and technology trialling** (WP1 and WP6)
2. **Create an open architecture** for the TERRIFFIC System, which allow (future) integration of (existing) solutions and develop an innovative user interface, enabling practitioners to deploy the system easily during immediate response (WP5)
3. **Adapt promising existing solutions** from previous research initiatives, convert them into TERRIFFIC core components and integrate them in the TERRIFFIC System (WP2)
4. **Develop novel solutions on mobile sensing, measurement devices and dispersion models** and **integrate** them as core components into the TERRIFFIC System (WP3 and WP4)
5. Successfully **test** the TERRIFFIC system and its core components under **demanding lab conditions and within field trials** to **demonstrate** the reduction of response time within the “first hours” of a RNe incident (WP6)



CONCEPT OF OPERATIONS

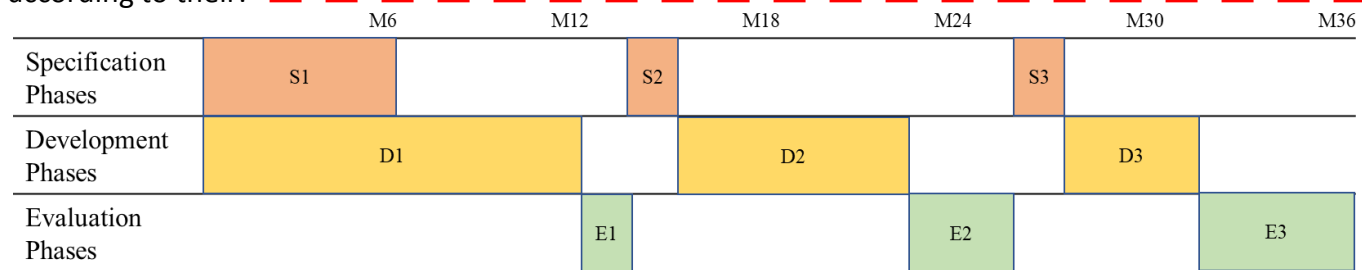


R&I METHODOLOGY & ITERATION CYCLE



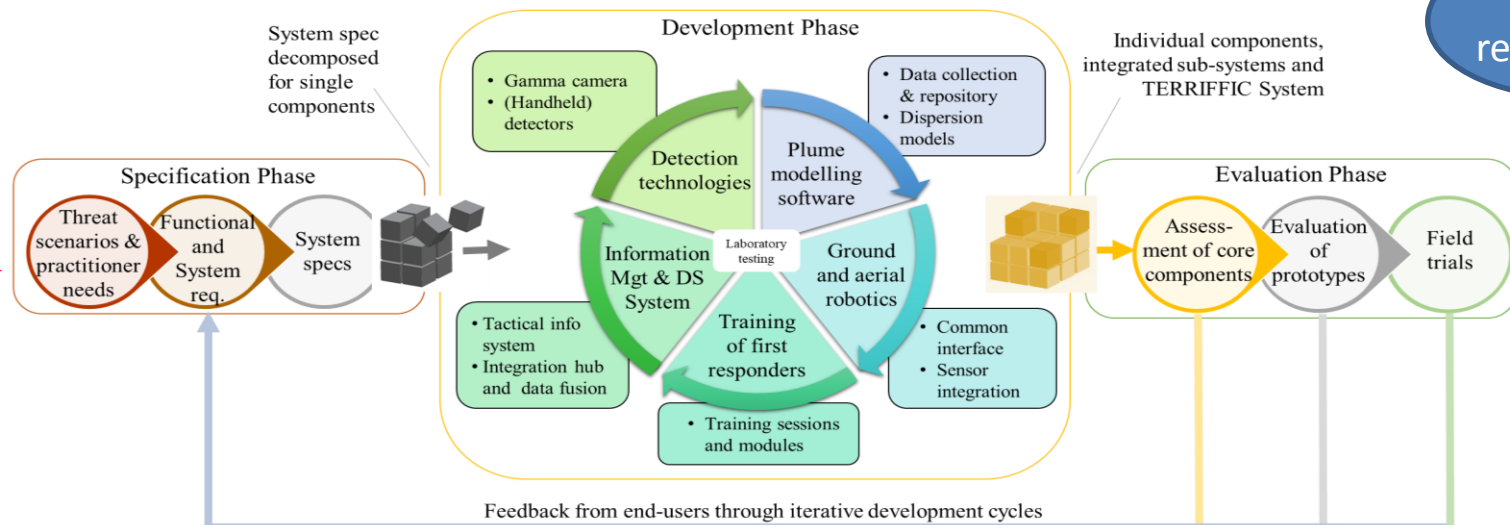
Scenarios chosen according to their:

- **validity**
- **plausibility**
- **effectiveness**



First responders

First responders



IMPLICATION OF FIRST RESPONDERS : NEEDS, SPECIFICATIONS, TRIALS

- **Threat scenarios and EDEN catalogue correlation**
 - Respect the scope of the proposed TERRIFFIC System
 - Define extensively and precisely the threat through a set of **CBRNe scenarios**
 - Allows the technical work to be correctly focussed and effort targeted
 - The nature and conditions of the scenarios were built on a threat review status basis
 - Scenarios **validated by Practitioners Governance Body and experts** from fire, police & military forces from FR, SK, DE, EE, CZ, CH, IL...
 - **13 challenging scenarios** identified with specific **descriptions** of: **operational context** and the zone of intervention, the **event, time-stamped operation** under normal conditions of the intervention and **gains** obtained by the implementation of the TERRIFFIC system calculated against this 'normal situation'
- **Functional analysis & System requirements** derived from interviews of an end users panel
- **System specifications** following a **Task vs Categories matrix** filled by the panel & during workshops, **validated by PGB.**

IMPLICATION OF FIRST RESPONDERS : UPCOMING EVENTS

- **Two Semi-Public Workshops and one Public Workshop during project**
- **Core objectives of Workshops:**
 - Engage with different stakeholders and in particular with end users
 - Collect feedback with respect to the project results (software, requirements, specifications, test and trial results)
 - Workshops will also serve as a platform for interacting with related projects, including ENCIRCLE
- **FIRST TERRIFFIC SEMI-PUBLIC WORKSHOP: 6th- 7th NOVEMBER 2018, PARIS**
 - Hosted by the French Fire Brigade National Federation
 - CBRN practitioners and experts
 - Three working groups will look at key areas and feedback to a plenary session
 - **WG1:** Best available technologies and employment concepts or combined use
 - **WG2:** Evaluation criteria for sensors and analysis tools
 - **WG3:** Definition of useful information both on the field and in the Command & Control. Unité
 - Objective: collect feedbacks from end-users about the specifications of the TERRIFFIC System
 - Interested ? terrific-workshop@eurtd.com or registration webpage:
<https://cmt.eurtd.com/events/event/view/133023/first-terrific-semi-public-workshop>





THANK YOU
ANY QUESTIONS?




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