

***Resilience management guidelines  
and Operationalization applied to Urban Transport Environment***

[www.resolute-eu.org](http://www.resolute-eu.org)

[infores@resolute-eu.org](mailto:infores@resolute-eu.org)

2015– 2018

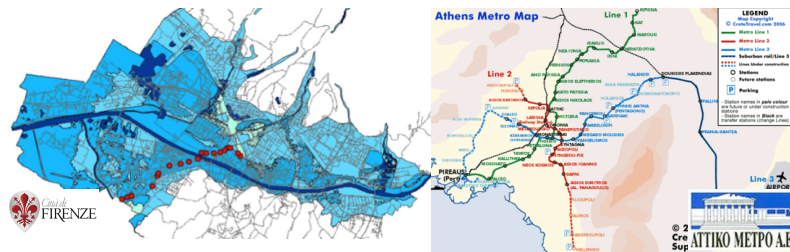


***Opening Conference***  
Rome, October 20<sup>th</sup>, 2015

# RESOLUTE description

## Project objectives

The *RESOLUTE* aims at developing the ERMG and operationalize them at Florence and Athens pilot addressing the Urban Transport System CI .



Operative objectives are:

- 1) **Conducting systematic review and assessment** of the state of the art of Resilience Assessment and management concepts, national guidelines and their implementation strategies in order to develop a conceptual framework for resilience with Urban Transport Systems
- 2) **Development of European Resilience Management Guidelines**

3) Operationalize and validate the ERMG by implementing the **RESOLUTE Collaborative Resilience Assessment and Management Support System (CRAMSS)** for Urban Transport System (UTS) addressing Roads and Rails infrastructures

4) Enhancing resilience through improved support to human decision making processes, particularly through increased focus on the **training** of first responders and population on ERMG and RESOLUTE System

5) **ERMG wide dissemination**, acceptance and adoption at EU and Associate Countries level

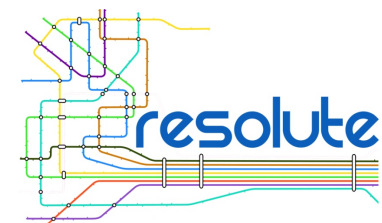
**Project sector:** Transport

**Project topics:** : Government, Society, Threats and Vulnerability, Interdependencies and Cascading Effects, Science and Technology

**Project duration:** 36



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# RESOLUTE outcomes

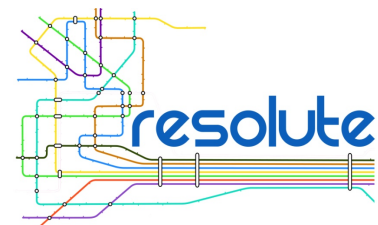
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The RESOLUTE main outcomes are:

- **European Resilience Management Guidelines** – (guidelines) – consensus driven approach improve guidelines acceptability at EU level –expected for month 12 (first release)
- **CRAMSS** – (software, platform) – ontology based static and dynamic CI data integration, processing and analysing platform–expected for month 22
- **Mobile Emergency app** – (software) – supporting users in their local decision before (early warnings), during and after an event –expected for month 22
- **Game based training app** – (software) – improving the current preparedness of the citizen in order to increase the community self-resilience – expected for month 22

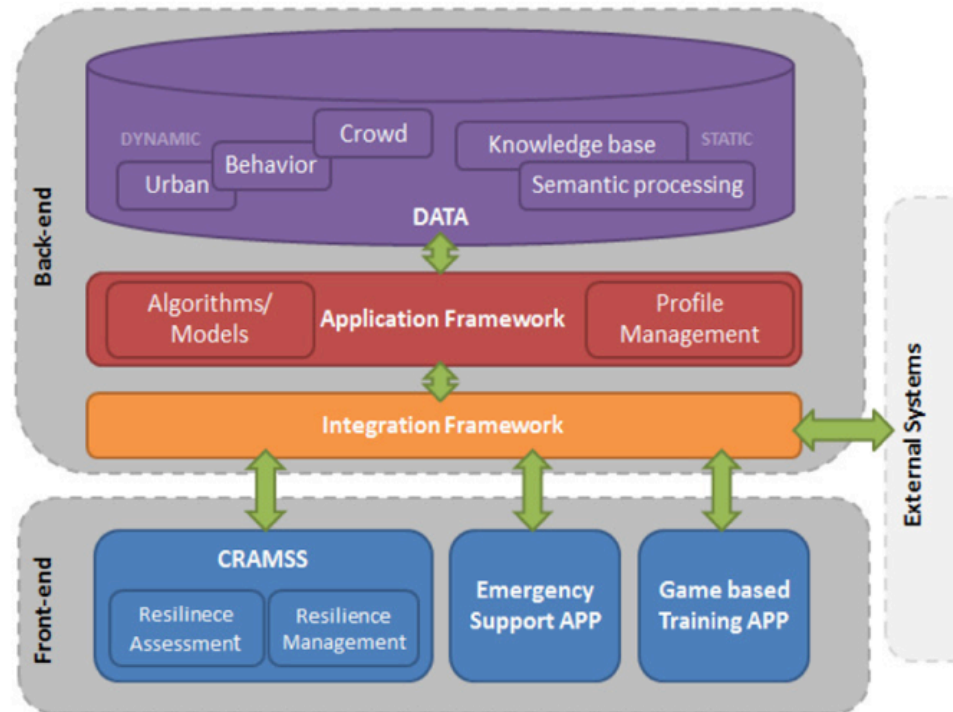


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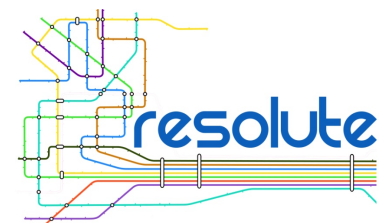


# CRAMSS description

- **CRAMSS framework** is based on an open, service oriented, multi-layer architecture and will embrace both a vertical (top-down and bottom-up) and a horizontal (across sectors and stakeholders) approach and that incorporates open standards data ingestion services; a data substrate containing both reference and dynamic data (the DATA layer);
- **internal APIs** for the application of analytics tools, modelling and simulation services (the Application Framework), RESOLUTE applications (the Application layer), and so on;
- **full public API** that allows the integration with existing external systems (the Integration Framework), in order to promote and effect the exploitation of RESOLUTE services by third parties.



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# RESOLUTE target stakeholders

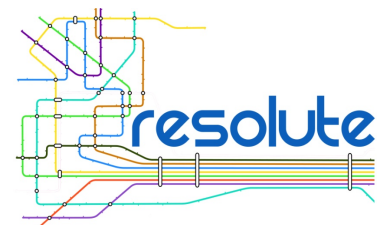
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The RESOLUTE target stakeholders are:

- **Decision Makers (EU, national, regional, local)/CI managers**
  - a) the ERMG aims at improving the current EU guidelines
  - b) CRAMSS aims at supporting knowledge driven decisions at strategic and tactic level for City and CI managers.
- **First Responders (Civil Protection)** - CRAMSS aims at supporting knowledge driven real time decisions at operational level
- **Citizens**
  - a) to support their local decision through location aware real time information provided by the Mobile Emergency app.
  - b) to increase their preparedness through a dedicated game based training app



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# H2020 identified opportunities

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H2020 identified opportunities to exploit **RESOLUTE** main outcomes

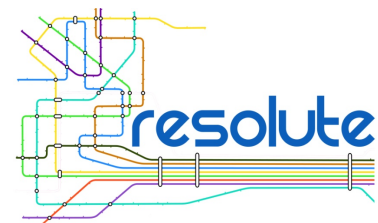
- Secure Society **DSx** [08/2016]
- Secure Society **FCT 2017**

Other financing opportunities considered

- National and Regional related calls



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# Thank You for Your attention!

*Prof. Paolo Nesi,  
Dott. Emanuele Bellini*

RESOLUTE Coordinator

DISIT Lab: [www.disit.org](http://www.disit.org)

Department of Information Engineering

University of Florence, Italy

Office: +39-055-275-8515

LAB: +39-055-275-8516 / 8517

Fax: +39-055-275-8570)

[Paolo.nesi@unifi.it](mailto:Paolo.nesi@unifi.it)

[Emanuele.bellini@unifi.it](mailto:Emanuele.bellini@unifi.it)



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