

PROJECT COORDINATOR

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PROJECT INFORMATION

HARMONISE is a project funded by the EU 7th Framework Programme

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Duration of the Project: 36 months

Consortium Management: Dr. William Hynes,
Future Analytics Consulting (FAC), Ireland

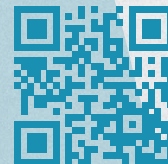
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HARMONISE



A **H**olistic **A**pproach to **R**esilience and
Syste**M**atic **A**cti**O**ns to Make Large Scale
Urban **B**uilt **I**nfrastructure **S**ecure

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PROJECT CONTEXT

THE HARMONISE PROJECT

A Holistic Approach to Resilience and Systematic Actions to make Large Scale
Urban Built Infrastructure Secure

HARMONISE OFFER

For the first time, more than 50% of the world's population live in urban areas. By 2050, c. 70% of people are likely to be city dwellers, compared with less than 30% in 1950. This trend brings with it increased security and safety threats in urban areas, not least to urban built infrastructure.

Large scale urban built infrastructure is a critical node within the intertwined networks of urban areas, which include not only physical components, but also integrated hardware and software aspects. To date, a comprehensive and holistic approach to improve the resilience and security of large scale urban developments (i.e. shopping centres/areas, sports venues or business centres with underground transportation nodes) against attacks and disruptions, has not been developed thoroughly.

A range of adverse natural and terrorist disturbances occurring over the last decade have highlighted the growing need for urban systems and their constituent large scale built infrastructure to cope with unexpected shocks and their impacts. In view of the ongoing threats posed by attacks and disruptions, a concerted, holistic concept is needed to ensure resilience enhancements (to built infrastructure) and greater urban security.

The HARMONISE project recognises the necessity to improve the design of urban areas and increase their security against, and resilience, to new threats.

Specifically, HARMONISE seeks to deliver (a) a holistic HARMONISE Interactive Semantic Intelligence Platform; (b) a suite of innovative tools (toolkit hosted within the HARMONISE platform); (c) greater understanding and awareness of urban security and resilience vis-a-vis dissemination activities; and, (d) commercialisation opportunities among emerging new markets in this field. **HARMONISE** will result in significant resilience enhancement methods for large scale urban built infrastructure.

HARMONISE will be grounded in a holistic view of innovation, and will advocate synergies with, and augmentation of, existing FP7 projects such as VITRUV, RIBS and DESURBS among others, to which the HARMONISE consortium has direct linkages.

HARMONISE will formulate and develop a holistic concept for urban resilience and security, and will result in the generation of systematic actions to ensure that the design and planning of large scale urban built infrastructure more comprehensively considers security aspects within an integrated and dynamic process.

The HARMONISE project will facilitate the assessment of the vulnerability of urban infrastructure and will forge new opportunities for enhancing resilience of large scale urban built infrastructure. The concept will be designed for use by civil authorities/municipalities and other key stakeholders involved in the design, planning, construction, operation or use of large scale urban built infrastructure.

HARMONISE will deliver supporting tools for the design/planning stage of large scale urban built infrastructure development, tested and enhanced through use of quality case studies. Ultimately, the project seeks to improve the design of urban areas and systems, increasing their security against, and resilience to, new threats.



2013

2014

2015