

## SmartEN Partners

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## Commitment to Excellence



Marie Curie ITN



# SmartEN

## Smart Management for Sustainable Human Environment

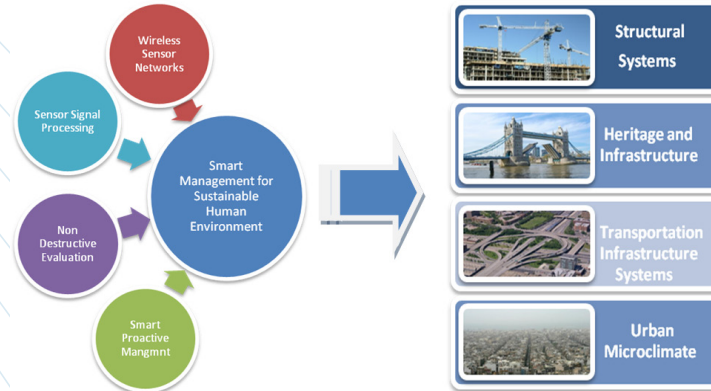
### SmartEN ITN project

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# research & training



## Aim of SmartEN project

The SmartEN ITN project aims to train the next generation of leading researchers, engineers and research managers in the field of monitoring and smart proactive management of the built and natural environment by effectively developing and integrating emerging technologies in wireless sensors, communications and proactive management, targeting key issues of current interest to the European Union and internationally. These will include application areas in monitoring and smart proactive management of Structural Systems, Heritage and Infrastructure, Transportation Infrastructure Systems and Urban Microclimate. Furthermore, SmartEN aims to strengthen the cooperation between academia and industry for the integration and commercialization of researcher innovations for the benefit of the European economy.

## Purpose

The renewed EU Sustainable Development Strategy sets out a single, coherent strategy on how the EU will more effectively live up to its long-standing commitment to meet the challenges of sustainable development. Some of the key priority challenges are: climate change and clean energy, sustainable consumption and production, and conservation and management of natural resources. These issues pose significant challenges for designing and managing the human environment in a sustainable manner. Even though there is significant research and advances on Civil Infrastructure Reliability and Management and on Wireless Sensor Network Technologies, most of the research activity is fragmented and there is not any significant activity in performing multidisciplinary, intersectoral structured research for developing integrated smart and dynamic systems for effective management of the built and natural environment.

The SmartEN ITN aims to fill this gap and place Europe in a unique position worldwide by providing a unique world class training and multi-disciplinary scientific research base moving Europe to the forefront of research in this field.

## Objectives

- To conduct top level research and training and devise innovative solutions for specific EU needs in the areas of monitoring and smart proactive management of Structural Systems, Heritage and Infrastructure, Transportation Infrastructure Systems and Urban Microclimate.
- To educate the next generation of intersectional and transnational research leaders inside a wide European research training network which includes universities, research centres and the industry, by strengthening the human resources and skills infrastructure in the area of smart management of the sustainable environment.
- To take forward the state-of-the-art in wireless sensor communications, digital signal processing and non destructive evaluation for the successful application of wireless sensors in the smart proactive management of the built and natural environment.
- To promote research activities in the specific scientific areas by disseminating the SmartEN results in scientific journals and international conferences, and by securing the intellectual property rights through patents and trademarks.
- To organise training events which will give Early Stage Researcher (ESRs) the opportunity to gain high quality training in multidisciplinary related topics. To give ESRs the necessary additional skills so as to widen their career perspective.