

Research at the University of Bologna covers a wide range of issues:

- Advanced Intelligent Transportation Systems that should be part of the construction and maintenance processes
- Transversal commitment of research groups towards more integrated design approaches at a European level
- Pervasive mode-integration and modal shift towards reduced carbon footprint transport enhancing the quality of life
- New low impact technologies for the production and construction phases
- Context-sensitive design solutions for the entire service life of the infrastructure
- Focus on the reduction of infrastructure pressure towards the loss of biodiversity and fragmentation
- Attention to the challenging forms of pollution such as noise and GHG
- Wider perspectives for the selection and qualification of consistentperformance construction materials
- Intense activities on the use of recycled materials against non-renewable resources: faster and more reliable testing procedures
- The Circular Economy approach with concerns on the local scale economies

## **HIGLIGHTS**

<u>Sustainable</u>, <u>Accessible</u>, <u>Safe</u>, <u>Resilient and Smart Urban Pavements</u> is one of the key on-going researches at the H2020 level in the University of Bologna. The MSCA-ITN-ETN project SAFERUP fosters the role of urban traffic surfaces and spaces as means for the creation of more liveable cities.

The <u>BICY research project</u> on the bicycles infrastructures aims to achieve a modal shift towards cycling and walking to improve the quality of life and reduce pollution. Improving bicycle mobility starts from adequate bike infrastructures and design comprehensive mobility plans that focus on cycling.