



**Best practices innovative  
per la gestione sostenibile  
delle problematiche urbane**

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# RINA: Competence and Experience

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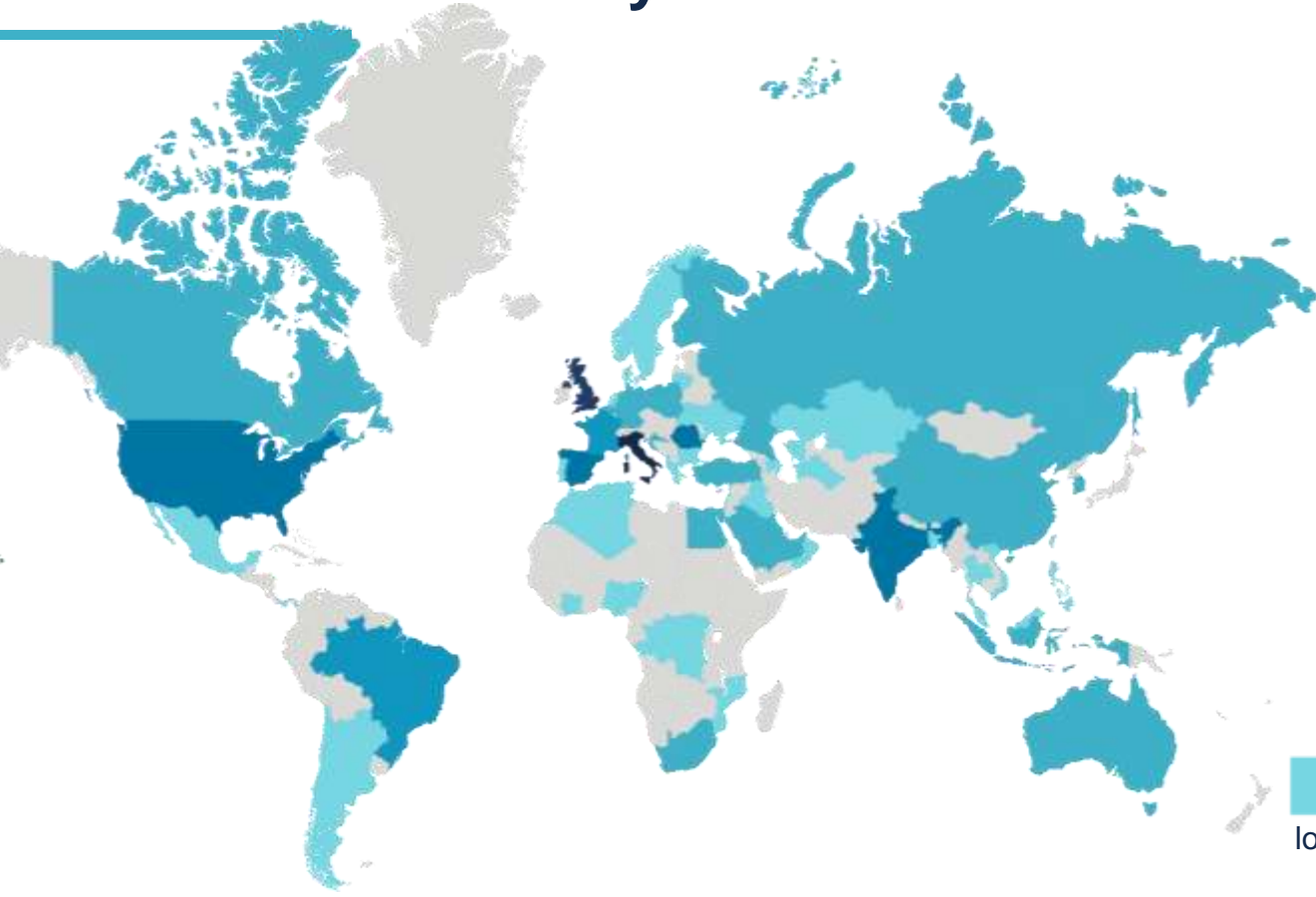


## **OVER 150 YEARS OF EXPERIENCE**

RINA provides a wide range of services across the Energy, Marine, Certification, Transport & Infrastructure and Industry sectors through a global network of 170 offices in 65 countries.

RINA is a member of key international organisations and an important contributor to the development of new legislative standards.

# What is RINA today



**3700** Colleagues

**170+** Offices

**65+** Countries

LEVEL OF RINA PRESENCE:



# Our markets

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**Marine**



**Industry**



**Energy &  
Sustainability**



**Transport &  
Infrastructure**



**Certification**

# Sustainability to...

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**Increase Environmental Awareness**

**Ensure Compliance with local laws, international directives, and Standards**

**Improve Social and Economic Context**



# PLANHEAT Project



Integrated tool for empowering public authorities in the development of sustainable plans for low carbon heating and cooling

European Union Horizon 2020 Research and Innovation Programme

## Project objectives:

The main objective of PLANHEAT is to develop and validate through real use-cases an **integrated georeferenced easy-to-use tool** for the mapping, planning and simulation of H&C systems at local level.

The tool will support local authorities in selecting, simulating and comparing **alternative low carbon and economically sustainable scenarios for heating and cooling** (from a panel of advanced technologies) that could balance the demand.



THIS PROJECT HAS RECEIVED FUNDS FROM THE EUROPEAN UNION IN ACCORDANCE WITH THE RESEARCH AND INNOVATION PROGRAMME UNDER AGREEMENT N° 101019151

# PLANHEAT Project



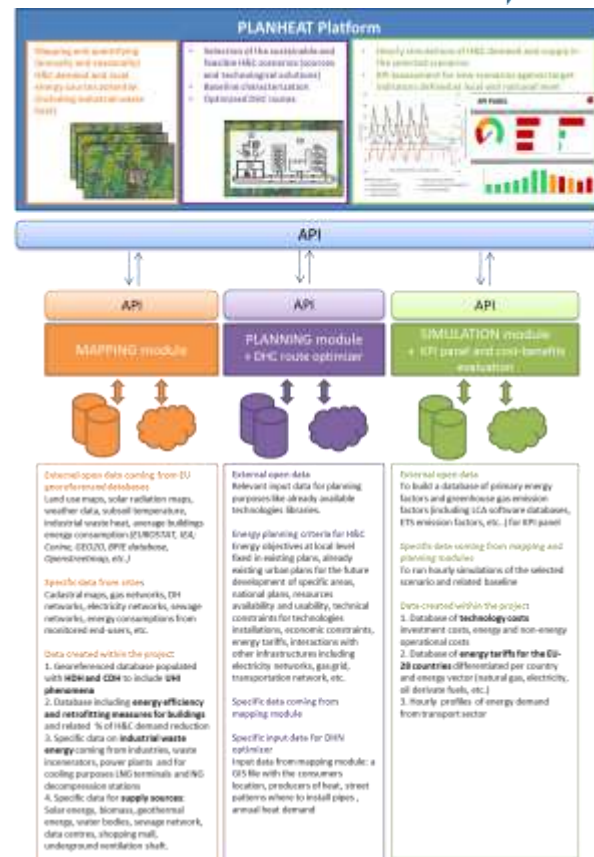
RINA role: Project Coordinator



Support local authorities in

- Mapping the local available low carbon energy sources (RES and Waste Heat)
- Mapping the forecasted demand for heating and cooling
- Define and simulate alternative economically reliable scenarios (DHC, CHP, RES...)
- Understanding the interactions of the new scenarios with the existing infrastructures and networks (DHC, gas pipelines, electricity, sewage, transportation)
- Evaluate the impacts of the new solutions through energetic, economic and environmental KPIs)

Open source and user-friendly tool



# Technical Assistance for the Development of an Emission Inventory System

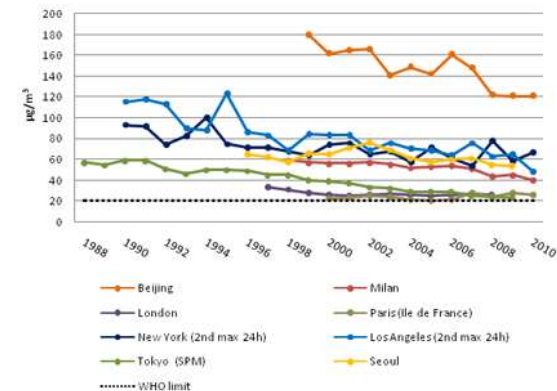


**Client:** Beijing Environmental Protection Bureau

**Location:** China

**Scope of work:**

- Capacity building on the international standards & European Experience
- Gap analysis on the current Beijing system
- definition of data collection and management tools
- Road map for the implementation of an EI System
- Training workshops for City officials





# UNALAB Project



Implementation and demonstration of co-created, innovative, replicable, and locally-attuned nature-based solutions to enhance the climate and water resilience of cities

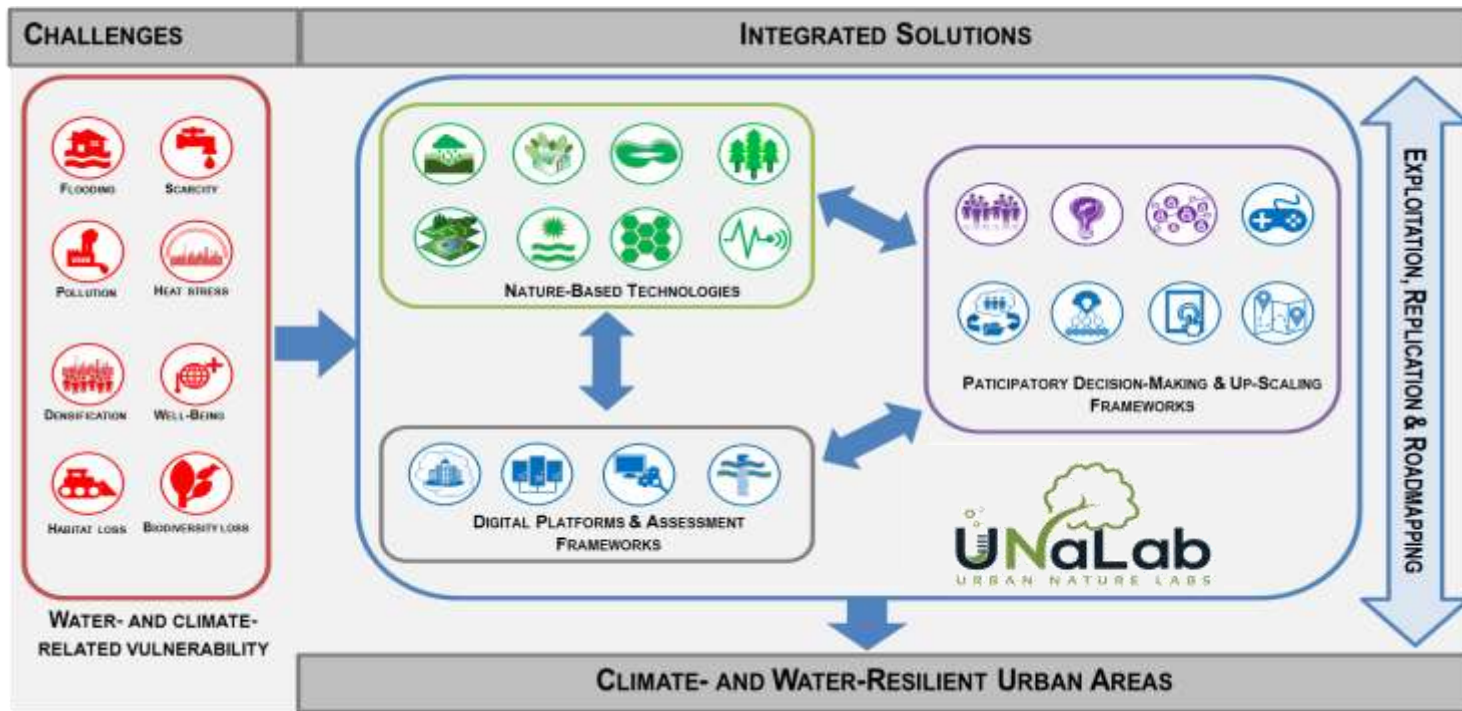
European Union Horizon 2020 Research and Innovation Programme

## Project objectives:

- Implementation of 'living lab' demonstration areas of nature-based solutions to enhance climate & water resilience of cities
  - Solutions selected via co-creation with stakeholders & implemented in the context of an integrated urban ecological approach
- Demonstration of evidence in 3 front-runner cities within urban innovation ecosystems
  - Tampere (FI), Eindhoven (NL), Genova (IT)
- Knowledge transfer & replication planning in 5 follower cities & beyond
  - Stavanger (NO), Prague (CZ), Cannes (FR), Castellón (ES), Başakşehir (TR)
- Creation of a robust evidence base & European framework for innovative, replicable, and locally-attuned nature-based solutions



# UNALAB Project



# HISER Project

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## Holistic Innovative Solutions for an Efficient Recycling and Recovery of Valuable Raw Materials from Complex Construction and Demolition Waste

European Union Horizon 2020 Research and Innovation Programme



### Project objectives:

- **harmonized procedures**, supplemented by an intelligent tool and systems for **traceability** of the supply chain, for highly-efficient sorting at source in demolition and refurbishment works,
- advanced **sorting and recycling** technologies with automated quality control for the production of high purity raw materials from complex C&DW,
- development of optimized construction products (such as low embodied energy cements, green concretes, bricks, gypsum plasters and gypsum plasterboards or extruded composites) with **higher rates of recycled materials**.



The project has received funding from the European Union's Horizon 2020 research and innovation program under grant agreement No 642085.

# HISER Project



RINA role:



LCA-LCC effective tools for the evaluation of circular economy models

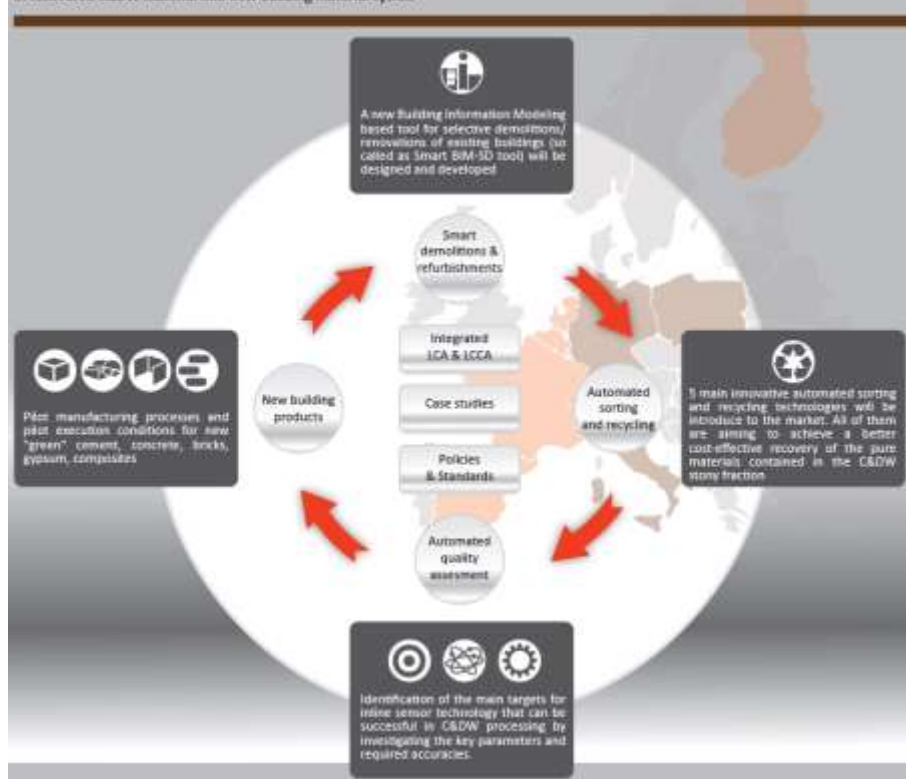


Development of policy and standard recommendations for the recovery and recycle of C&DW



The project has received funding from the European Union's Horizon 2020 research and innovation program under grant agreement No 642085.

HISER will propose holistic solutions (technological and non-technological) aiming to achieve a superior recovery of valuable raw materials from ever more complex C&DW by covering the whole circular supply chain: from early beginning of End-of-Life buildings to the incorporation of recovered C&DW material into new building material cycles.



# “World City Environmental Target” Road Map



**Client:** Beijing Environmental Protection Bureau

**Location:** China

**Scope of work:**

- Analysis of the Beijing situation on the path towards sustainability
- Identification of key topics for the City’s sustainable development
- Benchmark analysis with other World Cities
- Environmental Road Map definition based on the World Cities experiences
- Benchmarking Study on Air Quality and Mobility on 8 selected World Cities



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