

## Research Partners

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## CROSS-BORDER COOPERATION IN ISLAND URBAN AREAS TO IMPROVE ENVIRONMENTAL CONDITIONS THROUGH THE USE OF INTELLIGENT TRANSPORT SYSTEMS

step2smart

#### CYPRUS

- Ministry of Transport, Communications and Works (Department of Public Works)
- Ministry of Labour, Welfare and Social Insurance (Department of Labour Inspection)
- University of Cyprus (Department of Civil & Environmental Engineering)

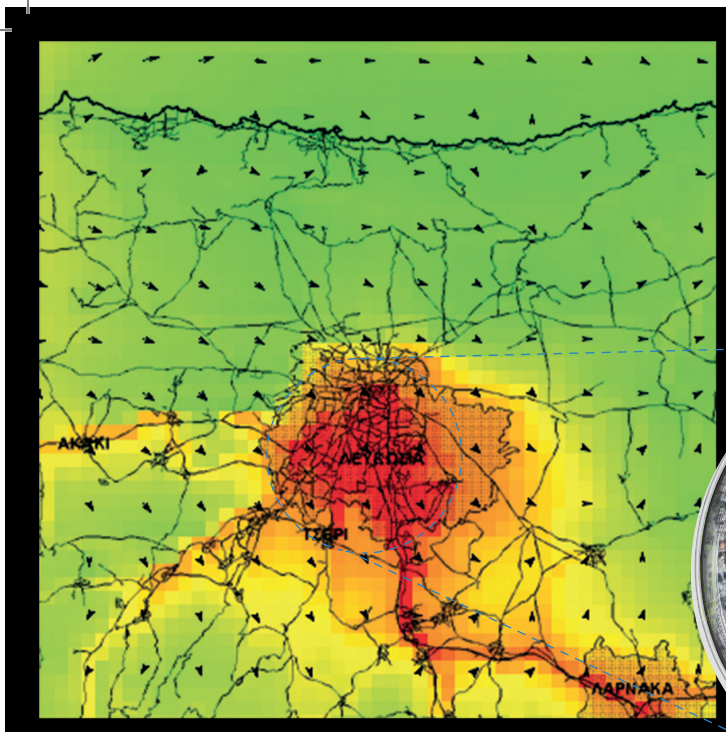
#### GREECE

- Municipality of Chania, Crete
- Municipality of Kos, Kos

<http://www.eng.ucy.ac.cy/step2smart/>

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*No<sub>2</sub> levels forecast for Nicosia*

## OVERVIEW

The main objective of the project is the creation of an Interoperable Open Architecture System to manage urban transport and measure environmental impacts, with the development and application of pilot intelligent Transport Systems(ITS).

Pilot Intelligent Transport Systems (ITS) will be developed to reduce traffic delays and emissions and encourage the use of more friendly means of transport in cities.

## AIR QUALITY MANAGEMENT SYSTEM

- The operational Air Quality Management System (AQMS) is used by the Department of Labour Inspection of the Cypriot Government for air quality management in Cyprus
- The system provides air quality now-casting and 24-hour air quality forecasts for regulated atmospheric pollutants for Cyprus and its five largest cities, including Nicosia
- The AQMS is based on advanced numerical models simulating atmospheric physical and chemical processes
- The AQMS will support pilot applications of the Step2Smart Open Architecture System

## NICOSIA PILOT APPLICATION

- Pilot applications of suggested traffic measures will be conducted in Nicosia
- A two-way link between the AQMS and the traffic loads monitoring software of the Department of Public Works of the Cypriot Government will be implemented
- Measured real-time traffic loads in Nicosia will be used by the AQMS to calculate accurate pollutant emissions
- Air quality estimates from the AQMS will then be used to evaluate the efficiency of pilot measures

The results of the project will be used as guidelines for the future development of Sustainable Urban Mobility Plans (SUMP) for similar mid-sized island cities.

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1. Reduction of pollutants and travel time delays on the urban roads
2. Improvement of traffic network management
3. Promotion of environmentally friendly means of transport