

How will CONDUITS help you?

While the main rationale behind CONDUITS was to develop tools to enable city decision makers to make informed decisions on ITS investments, the results are expected to benefit a wider range of ITS stakeholders, including the research community and the ITS industry by:

- showing the most promising areas for urban ITS where research efforts should be directed
- achieving an internationally-recognised standard measure for quantifying benefits, enabling better and faster decision making by policy makers
- stimulating more private high-tech investment by lowering the risk and uncertainty associated with intelligent transport systems

Who is involved in CONDUITS?



Conduits coordinator

Imperial College London



Mobility Agency of the City of Rome



Technion - Israel Institute of Technology



Technische Universität München



City of Istanbul



Ajuntament de Barcelona



Brussels Capital Region



Need more information?

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Evaluating the impact of ITS in urban areas.

Coordination Of Network Descriptors for Urban Intelligent Transport Systems

CONDUITS is a 2-year, city-strong Coordination & Support Action funded by DG Research of the European Commission under the Seventh Framework Programme.



www.conduits-online.eu

Why CONDUITS?

Intelligent Transportation Systems (ITS) are increasingly being deployed in urban areas as part of the response to the transport issues they face. The services offered range from traffic control through public transport information to travel demand management. However, as each urban area tends to be autonomous and act in response to its own political pressures, it is very difficult to build a picture across Europe and beyond of how ITS is being used to provide solutions, the scale of deployment and the comparative effectiveness of the implemented solutions. It is important to have this wide picture because it can inform where future investment is needed in research, training and deployment. This information can show where the market is effective, where barriers need to be removed and where the effectiveness of investment can be improved.

What is CONDUITS?

CONDUITS is a two-year project with strong city involvement which will develop a number of tools to assist local authorities in making investment decisions on ITS through:

- The development of Key Performance Indicators (KPIs) to enable the impact of ITS to be measured from an efficiency, environmental, energy, safety and spatial perspective;
- Building up an understanding of the future ITS plans of European cities and a comparison with the worldwide situation;
- Clarification of the market for specific ITS applications and an understanding of the barriers to implementation;
- Facilitating the exchange of good practice on ITS among local authorities.



What will CONDUITS deliver?

The main output

▪ Key Performance Indicators

All the work performed within CONDUITS will culminate in the definition of a set of Key Performance Indicators that will help city authorities measure the impact of ITS and identify where ITS can improve performance. The core set of indicators will be compiled from an exhaustive list of indices quantifying the impact of ITS in relation to traffic efficiency, transport safety, pollution and energy reduction, social integration and land use.

Other outputs

▪ Review of ITS in European cities today:

- Transport challenges in cities
- ITS deployed today in cities
- Advanced ITS nearing deployment

▪ Picture of ITS in European cities tomorrow:

- ITS visions and implementation plans in the next decades
- ITS development trends
- Research and development needs for ITS in cities

▪ Tool to measure the impact of any new traffic scenario on pollution (CO, HC, NOx, PM and CO2)

▪ Report of three case studies describing the application

of the key performance indicators to the cities of Rome, Paris and Barcelona in order to test their robustness.

▪ City pool

In addition to the five cities that are partners in CONDUITS (Rome, Paris, Brussels, Barcelona and Istanbul), many other urban authorities will be associated with CONDUITS through the 'city pool'. This forum is open to cities with experience and interest in ITS and will gather input on ITS deployment and plans, request feedback on project activities, validate project results and facilitate the exchange of information on ITS. CONDUITS will also investigate the feasibility of setting up a permanent ITS city forum.

