LEADING PARTNER IN EUROPEAN PROJECTS
UITP

PROMOTING INNOVATION AND RESEARCH FOR PUBLIC TRANSPORT THROUGH EU RESEARCH PROJECTS

UITP has been a leading partner in a wide range of EU-funded research projects for many years. The projects in which UITP has been involved encompass most urban mobility-related issues: security, safety, network management, optimisation of urban rail systems, urban interchanges, energy efficiency, innovative bus systems, electrification of urban bus systems, ticketing, seamless mobility etc.

UITP serves as a platform to inform its members about these EU funding opportunities and encourages them to take part in new projects. UITP members can closely follow the development and activities of ongoing projects as a project partner or a member of the UITP projects’ User Groups.

Thanks to high quality results, UITP has been recognised by the European Commission as a key interlocutor in the identification and promotion of the Public Transport stakeholders’ priorities for research and innovation.
**Projects**

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UITP

**UITP in brief**

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The NODES project, led by UITP, brings together 17 partners. The project is building a Toolbox to support European cities, transport authorities and operators in the design and operation of new or upgraded public transport interchanges.

These tools are identified under five topics (which correspond to transport interchanges’ key functions): land use and infrastructure, design, intermodality and ICT, management and business models, energy and environment.

They are tested in nine European cities who are engaged in substantial development or upgrading activities, which provides a feedback loop for their improvement.

A NODES Benchmark tool also allows interchange stakeholders to better understand the performance of their interchange and to be directed towards a NODES tool in order to improve its efficiency.

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The NGTC project gathers 21 partners to analyse the synergies and divergences between Mainline (ETCS) and Urban Rail (CBTC) systems.

This task is performed with the goal of determining the level of commonality of functional specifications, architecture and system design that can be achieved in order to prepare the Innovative Program “Advanced traffic management and control systems” of SHIFT2RAIL. The project does not develop a ‘one size fits all’ system, but paves the way for standardised and scalable train control systems which provide ATP, ATO, and ATS functionalities and support all grades of automation.

The ultimate objectives are economies of scale and system options based on standardised functions and interfaces, while preserving backwards compatibility with ERTMS Baseline 3.

In the NGTC project, UITP is in charge of two main tasks. First is to produce a unified Functional Requirements Specifications Document based on the achieved consistency between CBTC and ETCS systems. Additionally, UITP leads the external Experts Groups which support the project developments.

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Future of Surface Transport Research Rail

The FOSTER RAIL project is a key tool for the rail transport-related European Technology Platform ERRAC (European Rail Research Advisory Council) in charge of defining rail-related research strategies and programmes.

Its main purpose is twofold: it aims to define on behalf of the rail sector a Strategic Rail Research and Innovation Agenda as well as the relevant rail sector’s technology research and innovation roadmaps. Additionally, the project’s goal is to increase the cooperation of the road, rail and waterborne European Technology Platforms (ETPs) in order to foster research cooperation among actors from different transport modes. The project is also in charge of reviewing numerous past and on-going rail research projects, in order to better understand and assess their impact and any related market uptake.

The FOSTER RAIL project combines efforts of 18 partners. UITP leads the work on the cooperation between ERRAC/FOSTER-RAIL and the other land transport ETPs.

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The IT2Rail project joins the forces of 27 partners. It is designed as the first step of implementing the Shift2Rail 4th Innovation Programme “IT Solutions for Attractive Railway Services”. Its main objective is to enable the development of solutions providing a seamless travel experience by giving access to a complete multimodal travel offer, which connects the first and last mile of long distance journeys.

The project looks into a complete door-to-door intermodal travel offer which integrates diverse existing and future services for planning, one-stop-shop ticketing, and real-time re-accommodation. In addition, the partners are not restricted to specific business-models within the booking and ticketing market, thus guaranteeing the attractiveness and economic self-sustainability of these (e-)services on the long-term basis.

UITP and its members are involved in the definition and development of booking and ticketing specifications, including the implementation and testing of the system through a pilot. Moreover, UITP is responsible for dissemination of the information about the project as well as coordination of the external expert groups that will support the project development.

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40 partners led by UITP are joining forces to extend the fully-electric solution to the core part of the urban bus network.

ZeEUS demonstrates the feasibility of several electric solutions for high capacity buses in live operational scenarios across Europe. With around 40 series and pre-series vehicles taking part in the ZeEUS demonstrations, a meaningful evaluation of the real impact of the electric solution on the operations will be performed.

Aiming at facilitating the market uptake of electric buses, this analysis will contribute to the development of tools to support decision makers on “if”, “how” and “when” to introduce electric buses in the core part of the bus network.

The ZeEUS Observatory closely follows the progress of bus system electrification in Europe. Through exchanges of experiences and knowledge, the Observatory provides a picture of the European electric bus market and contributes to its deployment strategies.
ELIPTIC aims to develop new use concepts and business cases in order to optimise existing electric infrastructure and rolling stock, saving both money and energy. The project strengthens the role of electric public transport, leading to reduced fossil fuel consumption and improved air quality.

To achieve this goal, ELIPTIC advocates for an electric public transport sector at the political level and helps developing political support for the electrification of public transport across Europe. With a strong focus on end users, ELIPTIC use case analyses focus on three thematic pillars:

> safe integration of e-buses into existing electric public transport infrastructure through recharging them “en route” and upgrading trolleybus networks with battery buses or trolley-hybrids and automatic wiring/de-wiring technology
> upgrade of electric public transport systems
> multi-purpose use of electric public transport infrastructure, e.g. for safe recharging of non-public transport vehicles.

UITP, one of the 34 project partners, is a member of the project coordination team and leader of the demonstrations. Additionally, UITP is responsible for dissemination of the project.

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Advanced solutions for improved efficiency and attractiveness of urban bus systems

The European Bus System of the Future 2 (EBSF_2), coordinated by UITP, combines the efforts of 42 partners. The joint collaboration of industries, operators and authorities allows testing and evaluating a set of technological solutions for improved efficiency of urban and suburban bus systems as well as attractiveness to the users.

Demonstrations in real service in 12 cities address several domains for innovation: energy management and auxiliaries, driver assistance, exterior and interior bus layout, IT standards and the interface of the bus with the system in terms of both intelligent garage and urban infrastructures. The technological innovations to be tested within the demonstrations deal with a wide range of bus systems, from BRT to local lines, and all current propulsion technologies. They have been identified according to their technological maturity in order to ensure an easy commercialisation after the project is finished.

Key solutions that still require more steps for a wide acceptance in the market are also evaluated in the project through the use of prototypes and simulation tools.

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Research and innovation strategies for all transport modes in Europe

The SETRIS project (Strengthening European Transport Research and Innovation Strategies) federates for the first time all major transport related European Technology Platforms (ETPs) into a single collaborative initiative. Its aim is to produce a cohesive approach to innovation and research strategies for all transport modes at the European level.

The most important task in fulfilling this goal is to identify the commonality between the research agendas of the different domains and then update them in order to promote a comprehensive multimodal transport system framework. Subsequently, the project defines the implementation of those steps. A complementary task addresses the need to benchmark past and present rail-related projects in order to assess the viability of different research topics and the potential market uptake of the results. Lastly, SETRIS will deliver inputs for supporting and strengthening the future Transport Research Arena (TRA) Conference.

As one of 18 project partners, UITP leads the contribution of the urban rail stakeholders concerning the future R&D&I transport strategies and the cooperation with other relevant transport stakeholders.

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Research and innovation strategies for a sustainable and competitive European road transport system

The FOSTER-ROAD project supports the European Technology Platform ERTRAC (the European Road Transport Research Advisory Council) to create and implement the needed research and innovation strategies for a sustainable and competitive European road transport system. Its aim is to further develop the multi-stakeholder road transport research area for the high-quality research of societal and industrial relevance in Europe.

The project gathers 17 partners. As one of them, UITP supports the monitoring of projects relevant for urban mobility and identifying research priorities for the whole of the urban mobility system.

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Cleaner and better transport in cities

CIVITAS CAPITAL gathers 13 partners to promote innovative solutions for sustainable development. It aims to contribute to the goals of the European Union’s Transport White Paper by creating an effective «value chain» for urban mobility innovation. UITP coordinates the Advisory Group on public transport which looks at how to link up the CIVITAS measures on urban transport to relevant strategies at the EU level.

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OPTICITIES aims to develop and test interoperable ITS solutions in six different cities in order to provide urban citizens with the best possible journey conditions and to optimize urban logistics operations. It gathers together service providers, the car industry, research laboratories and major European public transport networks in order to pave the way towards smart urban mobility.

The consortium of the OPTICITIES project consists of 25 partners. UITP is involved in the dissemination activities and helps to produce recommendations for mobility data availability.

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Viajeo PLUS benchmarks outstanding solutions for innovative and green urban mobility in Europe, Latin America, China and Singapore. Moreover, it promotes international collaboration to facilitate the sharing of successful experiences on a global scale. Knowledge is exchanged through site visits, city showcases and dissemination of learning materials.

UITP, one the 17 project partners, leads an expert task force in charge of selecting and promoting innovative and effective Public Transport solutions already implemented worldwide.

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RECENTLY FINISHED PROJECTS

1. Stimulating research on bus systems to drive innovative solutions, increase efficiency and improve the image of the bus
   - www.3ibs.eu

2. Innovative methodologies for simulating and optimizing energy consumption in urban rail systems
   - www.osirisrail.eu

3. Providing stakeholders with a comprehensive approach to improve security in urban public transport
   - www.secur-ed.eu

4. Developing a new generation of urban bus systems, attractive and adapted to specific needs of European cities
   - www.ebsf.eu
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WHAT IS UITP?

The International Association of Public Transport (UITP) is a passionate champion of sustainable urban mobility and is the only worldwide network to bring transport stakeholders and all sustainable transport modes.

OUR MEMBERS

We have 1,400 member companies giving access to over 16,000 contacts from 96 countries. Our members are public transport authorities and operators, policy decision-makers, research institutes as well as public transport supply and service industry.

OUR GLOBAL PRESENCE

Our main office is located in Brussels and we have 12 liaison and regional offices as well as two Centres for Transport Excellence.

12 offices in Abidjan, Johannesburg, Bangalore, Hong Kong, Canberra, Moscow, Istanbul, Rome, São Paulo, Dubai, Tehran and Casablanca. 2 Centres for Transport Excellence in Singapore and Dubai.

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