



INTEND – Identify future Transport rEsearch NeedS

INTEND NEWSLETTER 1

PROJECT IN A NUTSHELL

The INTEND project is a Coordination and Support Action (CSA) funded by the H2020 programme. The main aim of the project is to deliver an elaborated study of the research needs and priorities in the transport sector utilizing a systematic data collection method. Megatrends that will be affecting the future transport system will be identified using the Analytical Network Process to ensure validity of the results. Finally, INTEND will develop a transport agenda that would pave the way to an innovative and competitive European Transport sector.

PROJECT METHODOLOGY

1) Analysis of the transport research landscape: An identification of the future transport research technologies across the four modes (road, aviation, rail and maritime), including infrastructure and transport systems, with an outlook of 2020-2035, by reviewing EU and international research projects, transport technology roadmaps and forecasts. Review of mobility concepts through past forward research projects and reports and identification of political imperatives that will enable the identified future technologies that will be required by the sector.

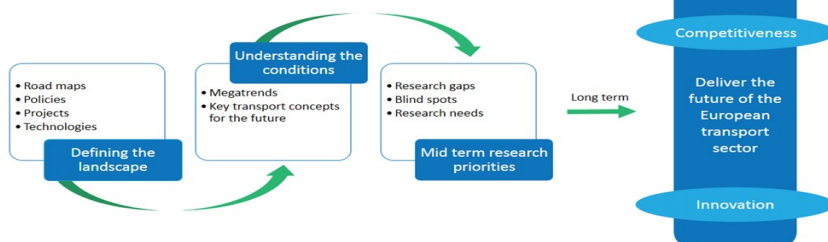
2) Definition of megatrends and their impact on research needs: A review of socioeconomic megatrends that will affect the transport sector and impact assessment on transport research needs.

3) Identification of the main transport research needs and priorities: A sketch of the future transport system by combining results from the previous stages and a gap analysis of the current EU transport sector. The end result is the development of a transport research agenda in the form of a blueprint on transport research needs, priorities and opportunities.

5/3/2018
INTEND Project
Newsletter No.1

Dear reader,

We would like to welcome you to the first INTEND newsletter containing the first update regarding the project



KEY EXPECTED OUTCOMES



INTEND will provide a broad overview on future research needs in the field of transport, going beyond the scope of the sector itself. While including the perspective from actors in research is of course important, it is necessary to provide an external perspective on needs coming from other fields such as economy, society, policy and industry.

INTEND focuses on both aspects covering the internal perspective of research as well as the external one, which will enable to think outside the box and provide new ideas beyond the mainstream. This can be expected to have impact on innovation of research itself – also in comparison to research taking place in the US or Asia and thus support the competitiveness of European research as well as economy and society.

The key expected outcomes will include the following:

- The Transport project synopses handbook that will present future transport technologies across the four modes with an outlook of 2020-2035,
- The Identification of Megatrends and impact assessment of Megatrends and policies,
- The identified Key transport concepts of the future,
- A Sketch of the future transport system,
- A forward looking EU transport agenda: a blueprint on transport research needs,
- An online tool on future transport developments (Transport Synopsis Tool)

KICK OFF MEETING IN COVENTRY



The official Kick Off Meeting of INTEND took place at Coventry on the 18th and 19th October 2017 and was hosted by the coordinator Coventry University Enterprises Ltd (CUE) at Coventry University's newly built National Transport Design Centre.

The meeting commenced with an introduction of CUE by Mr. Steve Shorthouse, Deputy Director, followed by an introduction of the National Transport Design Centre by Mr. David Wright, Director of Strategic Initiatives at Coventry University.

The project coordinator, Mrs. Eleni Anoyrkati, initiated the project's meeting welcoming the project partners and explaining the projects aims.

Representatives from all project partners introduced their organisations and their role in the INTEND project. The INTEND consortium brings in expertise from past futurology projects spanning from five different countries (UK, EL, RS, DE, CH). The Kick Off Meeting served as an event to demonstrate the methodologies that will be used in the project and allocate responsibilities for each consortium partner for the different work packages.



SECOND PROJECT MEETING IN BERLIN

The second INTEND project meeting took place in Berlin between 24th and 25th January 2018 and was hosted by Technische Universität Berlin (TUB) at the university's premises.

The meeting's main objective was to demonstrate progress during the project's first four months and present preliminary results from the upcoming deliverables of WP2 (Mapping the futures of transport) and WP3 (Identification of future challenges). Specifically, early results regarding the future transport technologies were presented for WP2 (Task 2.1), showing what technologies have been studied by EU and international sponsored transport research as well as roadmaps. Discussions were also made regarding the presentation of the results in D2.1 report (Transport projects & future technologies synopses handbook). The research methodology approach for D2.3 report (Report on political imperatives) was also demonstrated presenting early gaps in literature.

In addition, results regarding megatrends for WP3 (Task 3.1) were presented, divided into passenger and freight transport across the four modes (road, aviation, rail, and maritime).

Furthermore, the webinar and survey platforms (part of WP3) that will be used to extract feedback regarding future technologies, global megatrends and political imperatives for WP4, were demonstrated to the consortium partners. Finally, preliminary findings from WP4



(Paving the way to future: guidelines for a forward looking transport sector) were presented, showing more cutting-edge technologies and future directions of the transport industry sector.

Special attention was given to organization of the mid-term review of the project in Brussels in June, where the consortium will demonstrate findings and receive feedback about its final results from EU officials.

Part of the dissemination discussions was also the **INTEND final event** that will be held at the end of the project and will be used as a platform to discuss and debate project concept and findings and widely disseminate and demonstrate project results. The INTEND final event will be held as a parallel session at the **International Conferences on Traffic and Transport Engineering** that will take place in **Belgrade** on the **27th and 28th September 2018**. A **Call for Papers and Participation** is already active and you can submit an abstract by **15th March 2018**. For further information please visit the ICTTE's conference page http://ijtte.com/article/102/ICTTE_Belgrade_2018.html.

INTEND PROJECT AND 4TH CONFERENCE ON SUSTAINABLE URBAN MOBILITY

The INTEND consortium will be presenting part of the project's results in the upcoming 4th Conference on Sustainable Urban Mobility in Skiathos, Greece on 24th and 25th May, 2018. Two journal papers will be presented covering the future transport technologies and the megatrends affecting transport respectively.

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IDENTIFICATION OF THE FUTURE TECHNOLOGIES

Part of INTEND project's first stage and Deliverable 2.1 "Review and assessment of pertinent literature", is the identification of future transport research technologies across the four modes incorporating infrastructure and transport systems, with an outlook of 2020-2035. These actions consist of the combination of a) a backward approach where past FP7, H2020 and some international transport projects have been reviewed, in order to extract the transport technologies that such projects have researched and developed and b) the review of roadmaps, reports, foresights and other sources to extract technologies as identified by transport industry stakeholders. The aim of this approach is to identify technology trends that will be required by the transport sector. The identified future transport technologies have

been categorised into thematic areas of competitiveness, energy, environment, infrastructure and systems as well as by passenger and freight sector per mode. Deliverable 2.1 is expected to be delivered at the end of February with the results going live on the website in the following month.

IDENTIFICATION OF FUTURE CHALLENGES AND MEGATRENDS

The main aim of this task was to identify potential megatrends that are most likely to influence the transport concepts of the future. A literature review-based methodology was used to identify "megatrends" in both passenger and freight transportation. Particular emphasis was given to EC and worldwide projects that have studied the megatrends affecting the transportation sector.

After thorough review of relevant and available literature, a consensus on the selection of the key global megatrends was agreed and defined across the source literature. In that context, a matrix giving megatrends over sources was prepared. By doing so, megatrends commonly elaborated in the majority of literature sources were identified suggesting us some level of consensus.

Reaching a consensus, in this case, meant defining the criteria that would allow for the identification of megatrends with most significant expected impact on the future development of passenger and freight transport. In order to select any megatrend as the most important, it was necessary that at least 70% of the identified literature sources elaborate and describe the impact of that megatrend on development patterns of passenger or freight transportation.

For these purposes, we prepared the matrix listing sources against the megatrends identified in the reviewed literature. A total of 15 megatrends from all sources were separated and included in our analysis. The goal of this matrix analysis was to determine the megatrends that are processed in most of the analysed sources, indicating a certain level of consensus or convergence to those that are most important for the future development of passenger and freight transportation.

Our approach has enabled us to identify the following megatrends as the most important for the development of passenger transport:

- Urbanization and megacities
- Environmental challenges – climate changes
- Ageing society

In addition, the following megatrends can be selected as the megatrends with the most significant influence on the future development of freight transportation:

- Environmental challenges – climate changes
- Increasing scarcity of fossil fuels (oil prices, shortage of resources, global oil reserve and supply)
- Globalization 2.0 (global dissemination of production facilities, political and social integration)

This task also reflected upon the implications of the key megatrends for the passenger and freight transportation. The key megatrends identified herewith will be further evaluated by estimation of their relative importance for the realization of the transport concepts of the future. The evaluation will be based on the application of Analytic Network Process (ANP).

INTEND SURVEY – YOUR OPINION IS IMPORTANT

We would like to invite experts to participate in a survey session of the INTEND project. The overall objective of the INTEND project is to deliver an elaborated study of the research needs and priorities in the transport sector and to develop a transport agenda that would pave the way to an innovative and competitive European transport sector. The session is composed of two parts. The first part contains a short online survey that aims at determining the relationships between megatrends, political imperatives and technological advances, which are needed for the identification of future transport concept priorities. It will take you approximately ten minutes to complete this survey. Deadline for completion of this Online Survey is 10.04.2018, 00:00 CET. The second part of the INTEND survey will be organized through a webinar and questionnaire to validate and assess the impact of clusters of megatrends, political imperatives and technological advances on prioritization of the key transport concepts of the future. The webinar will take place on Monday, April

30, 2018, 3PM-4PM CET (UTC+1h). Deadline for provision of the required estimations is 07.05.2018. If you feel that your competence would help us to achieve the above mentioned goal, please read and complete the Consent Form published at this link:

<https://webinar.sf.bg.ac.rs/intend-consent-form/>

INTEND PROJECT FINAL CONFERENCE

The INTEND final event will be held as a parallel session at the **International Conferences on Traffic and Transport Engineering** that will take place in **Belgrade, Serbia**, on **27th and 28th September 2018**.

The INTEND consortium will present project findings, while the session will host paper presentation on the future of transport from the fellow conference researchers

A Call for Papers and Participation is already active and you can submit an **abstract by 15th March 2018**. For further information please visit the ICTTE's conference page http://ijtte.com/article/102/ICTTE_Belgrade_2018.html

NEXT PROJECT MEETING

The next Intend project meeting will be held on 21st and 22nd June in Greece and will be hosted by Centre For Research And Technology Hellas (CERTH).

INTEND PROJECT

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WEBSITE INFORMATION

For further information on the INTEND project, visit the website and subscribe to our newsletter to stay up to date <https://intend-project.eu/>

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