



IT2Rail



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No: 636078



“IT2Rail - Information Technologies supporting seamless travel across Europe”

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Rail Day, Transport Public 2016
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Project Overview

✓ SHIFT2Rail ‘Lighthouse project’

(S2R IP4: IT Solutions for Attractive Railway Services)

- ✓ **€12 Mio** over **30 months** (01.05.2015 – 31.10.2017; 100 % EC grant)
- ✓ Consortium of **27 members** (coordinator: UNIFE + technical leader: THALES)
 - Universities/research centers (e.g. Fraunhofer, RSSB)
 - IT industries & services (e.g. Amadeus, Hacon, Indra...)
 - Mainline operators (SNCF, TRENITALIA)
 - Urban operators (VBB, TMB) & representatives (**UITP**)
 - Passengers representatives (EPF)



Travel experience - The new product User-centric approach

- ✓ What?
- ✓ How?



Objectives

- ✓ Fully **integrated** and **tailored experience**:
 - ✓ Cross border
 - ✓ Multimodal
- ✓ To offer a **door-to-door (D2D)** travel experience:
 - ✓ Regional <> Regional connection
 - ✓ Long distance trips & last miles
- ✓ To **answer customer's expectations** and **optimise the operations**.



Objectives

Across Europe

Across Modes

Door-to-Door

Across Services



Structure



Impact

Enabling a **Web of Transportation** – **Interoperability Framework** =
Eliminating/minimising the need for centrally governed convergence

Set of technical enablers

Vanishing the barriers between
stakeholders

Easing new actors'
access to the sector

Innovations: accelerating the
time-to-market



Examples of challenges

- ✓ Travel planning:

 - ... find optimal routes across several transport systems

 - ... combine long-distance, regional and urban transport

- ✓ Ticketing **Fragmented structure**

 - ... support different ticketing systems and ticketing rules

 - ... flights are booked pretty much in advance but local public transport tickets maybe valid from the time of purchase for x hours

- ✓ Incidents:

 - ... monitor disturbances and interchanges across different systems & modes

 - ... arrange re-routing and re-booking if necessary



Strategy



Domains - **Consistency:**

- ✓ Ontologies (machine readable)
- ✓ Specifications
- ✓ Design

Coordination - **Convergency:**

- ✓ Integration
- ✓ Verification
- ✓ Validation

Demonstration:

- ✓ EU Corridor
- ✓ Use cases



Thank you for your attention!

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