



# 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)



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# Vision

## Travel experience - The new product User-centric approach

- ✓ What?
- ✓ How?



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# 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**.



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# Objectives

**Across Europe**

**Across Modes**

**Door-to-Door**

**Across Services**



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# 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



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# 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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