

Interreg



CENTRAL EUROPE

European Union
European Regional
Development Fund

ACRONYM

PROMETNI INSTITUT LJUBLJANA D.O.O.
Institute of Traffic and Transport Ljubljana l. l. c.

TAKING
COOPERATION
FORWARD



Szczecin, May 2019



KICK-OFF MEETING



REIF

Institut of Traffic and Transport Ljubljana

- research organisation founded by Slovenian Railways
- the company with 50 years of tradition
- research and development projects in all transport modes applied to the domestic and foreign market
- core R&D service for Slovenian Railways



COMPETENCES GOOD KNOWLEDGE OF THE TRANSPORT SECTOR

15 experts



D. Sc. - 2
M. Sc. - 6
B. Sc. - 7

- Economy and Transport economics
- Traffic technology
- Civil engineering
- Transport related IT/T
- Railway infrastructure
- Traffic and transport models
- Geography
- Investment documentation
- Legislation and standardization

Internationally recognized research company

- Research group at Slovenian Research Agency
- Different activities within **UIC-International Union of Railways** for development and improvement of railways
 - Member of IRRB - International Railway Research Board
 - UIC Research Coordination Group
- **Membership in Slovenian Chamber of Engineers** and cooperation within technical committees of **SIST, CEN, CENELEC**
- Standard **ISO 9001:2008**



Scope of work

- R&D and deployment of railway infrastructure concepts based on EU interoperability and in compliance with UIC
- Measurements of railway tracks: geometry & dynamics parameters
- Development of GIS and related projects
- Development and consultancy of railway infrastructure maintenance methodology
- Intermodal Logistics Terminal Ljubljana
- P+R systems

Scope of work

- **Consulting, R&D services, Strategic Studies** in the field of **regulation, organisation and management of transport sector**
- Analysis of **economic efficiency** of transport processes with optimization solutions.
- Transport flows analysis and estimation - **Transport market studies.**
- Transport demand and supply - **Econometric models.**
- **Cost-benefit analyses** in the field of railways.



Scope of work

- **Planning and optimisation of transport technology processes** in railway stations and shunting yards
- **Planning and optimisation of traffic operation management** (line capacities, train scheduling);
- **Effective organisation of multimodal public passenger transport**
- **Transport modelling and optimisation** - elaboration of transport studies
- **Energy management**



ACROSSEE (South East Europe)

- Accessibility improved at border Crossings for the integration of South East Europe

ADB Multiplatform (South East Europe)

- Adriatic-Danube-Black Sea multimodal platform

GIFT (South East Europe)

- Green Intermodal Freight Transport

TranSAFE-Alp (Alpine Space)

- Connecting Transport regional networks to Security and emergency

SmartRail (7th Framework Programme)

- Sustainable Maintenance and Analysis of Rail Transport Infrastructure

OptimizeMED (Mediterranean)

- Optimizing and profiting best practices in the MED area on foreign trade, intermodal transport and maritime safety

MEDNET (Mediterranean)

- Mediterranean Network for Custom Procedures and Simplification of Clearance in Ports

ACRONYM

TRANSIT

- TRANSport Intermodal Transit (2009-2012), EU MED, partners from: SI, IT, GR, MT, ES, PT

SMARTPORT

- Action plan towards the Smart Port concept in the Mediterranean Area (2014-2015), MED Programme, partners from: SI, ES, IT, GR

REZIPE

- Renewable Energies for Zero Emission Transport in Europe (2010-2013), CE Programme, partners from: SI, DE, AT, IT, HU

CIVITAS - ELAN

- Mobilising citizens for vital cities - Ljubljana-Gent-Zagreb-Brno-Porto (2008-2012), FP7, partners from: SI, DE, CZ, BE, HR, PT, AT

TRANSITECTS

- Transalpine Transport Architects (official representative and consultant of Slovenian Ministry of Transport) (2011-2012), Alpine Space Programme: partners from: SI, AT, DE, IT

START

- Short term actions for reorganize transport of goods (2006-2009), IEE Programme: partners from: SI, IT, UK, SE, LV

ACRONYM

WP: T1 WP DESCRIPTION

<i>WP Nr</i>	<i>WP title</i>	<i>WP start date (month)</i>	<i>WP end date (month)</i>	<i>WP budget</i>
T1	Smart governance concepts for improved regional rail freight transport	01.2019	03.2021	613.765,00
Partner				
<i>WP responsible partner</i>	Institute for Traffic and Transport Ljubljana			

The work package aims at providing the regions with a knowledge base about the status quo of rail freight transport in their area. Joint methodologies will be developed and applied in the respective regional context to study the baseline status, the market potential for rail transport & services, and to identify the bottlenecks in infrastructure and services that hamper future development.

The WP leader along with FHE will elaborate the joint methodologies for the baseline study, the analysis of the market potential, and the identification of bottlenecks in infrastructure & services. All 7 partner regions will implement these studies in the regional context.



Output title		Please provide a brief description of the project output	Programme output indicator to which the output will contribute	Quantification / target	Delivery date
Output O.T1.1	Joint Methodologies to study regional rail freight infrastructure & services	Joint methodologies will be developed (i) to assess the status-quo of rail freight transport, (ii) to analyse the regional market potential for rail freight transport, and (iii) to identify existing bottlenecks in infrastructure and services. The subsequent application of these tools will ensure comparability and reproducibility among regions within the partnership and beyond. Activities T.1.1, T1.1.2, and T1.1.3 will lead to the methodologies.	S.O.4.2 - Number of tools and services developed and/or implemented for multimodal environmentally-friendly freight transport	3,00	09.2019
Output O.T1.2	Trainings to apply the methodologies in the regional context	Partners' staff and external experts will be trained to practically apply the developed methodologies in the regional context, i.e. (i) to assess the status-quo of rail freight transport, (ii) to analyse the regional market potential for rail freight transport, and (iii) to identify existing bottlenecks in infrastructure and services. Activities T.1.1, T1.1.2, and T1.1.3 will deliver the training sessions.	S.O.4.2 - Number of trainings implemented on multimodal environmentally-friendly freight transport	3,00	10.2019
Output O.T1.3	Regional Priority lists of actions & Definition of policy measures	Based on a comparative benchmarking study each region will define (i) a priority list of actions (including cost estimations) to improve infrastructure & services for regional rail freight transport and (ii) potential policy measures that should be implemented to promote better framework conditions for the development of regional infrastructure & services. Activity T.1.4 will lead to the two outputs in all 7 regions.	S.O.4.2 - Number of strategies and action plans developed and/or implemented for multimodal environmentally-friendly freight transport	14,00	03.2021



WP: T1 WP ACTIVITIES

Activity A.T1.1	<i>Activity title</i> Baseline survey on status quo, trends and good practices	<i>Start date</i> 01.2019	<i>End date</i> 06.2019	<i>Indicative budget</i> 159.170,00
Activity A.T1.2	<i>Activity title</i> Market potential for rail freight transport	<i>Start date</i> 04.2019	<i>End date</i> 01.2020	<i>Indicative budget</i> 179.525,00
Activity A.T1.3	<i>Activity title</i> Identification of bottlenecks in infrastructures and services	<i>Start date</i> 04.2019	<i>End date</i> 03.2020	<i>Indicative budget</i> 147.670,00
Activity A.T1.4	<i>Activity title</i> Conclusions and Policy Recommendations	<i>Start date</i> 04.2020	<i>End date</i> 03.2021	<i>Indicative budget</i> 127.400,00



Deliverable D.T1.1.1	<i>Deliverable title</i> Work paper "Identification and learning from Good Practice"	<i>Description of deliverable</i> FHE will investigate possible good practices aiming at increasing the modal share of regional rail freight transport and its revival. A work paper summarizes findings and outlines how further project activities should take the learning into account	<i>Delivery month</i> 04.2019	<i>Quantification/target</i> 1,00
Deliverable D.T1.1.2	<i>Deliverable title</i> Work Paper "Status quo and trends in regional rail freight transport in CE territory"	<i>Description of deliverable</i> PIL will investigate the current state, key trends and predictions for regional rail freight transport in CE territory. A work paper summarizes findings and draws together key recommendations and conclusions for the project.	<i>Delivery month</i> 04.2019	<i>Quantification/target</i> 1,00
Deliverable D.T1.1.3	<i>Deliverable title</i> Methodology for baseline study	<i>Description of deliverable</i> FHE drafts a common methodology for analysing of the current state of rail freight services in each pilot region (e.g. identifying common ratios) will be elaborated. The methodology will be agreed with all partners and work paper will be produced.	<i>Delivery month</i> 04.2019	<i>Quantification/target</i> 1,00



<p>Deliverable D.T1.1.4</p>	<p><i>Deliverable title</i> Training of chosen (external) experts for the implementation of baseline study (Trieste)</p>	<p><i>Description of deliverable</i> Partner's staff and external experts selected for the elaboration of the baseline study will participate to a joint one-day training session, where the methodology will be introduced.</p>	<p><i>Delivery month</i> 04.2019</p>	<p><i>Quantification/target</i> 1,00</p>
<p>Deliverable D.T1.1.5</p>	<p><i>Deliverable title</i> Regional Baseline Studies (Status quo of rail freight services in each region)</p>	<p><i>Description of deliverable</i> Based on the joint methodology each partner region will elaborate its regional baseline study. It will describe the status-quo of rail freight infrastructure & services and analyse regional SWOTs.</p>	<p><i>Delivery month</i> 06.2019</p>	<p><i>Quantification/target</i> 7,00</p>



<p>Deliverable D.T1.2.1</p>	<p><i>Deliverable title</i> Methodology for analysis of market potentials for rail freight transport</p>	<p><i>Description of deliverable</i> FHE drafts a common methodology for analysis of main market potentials and barriers for rail freight transport in each pilot region will be elaborated. The methodology will be agreed with all partners and a work paper will be produced.</p>	<p><i>Delivery month</i> 09.2019</p>	<p><i>Quantification/target</i> 1,00</p>
<p>Deliverable D.T1.2.2</p>	<p><i>Deliverable title</i> Training of chosen (external) experts for the implementation of market potential analysis</p>	<p><i>Description of deliverable</i> Partner's staff and external experts selected for the regional analysis of market potential for rail freight services will participate to a joint half-day training session, where the methodology will be introduced. (Ljubljana)</p>	<p><i>Delivery month</i> 10.2019</p>	<p><i>Quantification/target</i> 1,00</p>
<p>Deliverable D.T1.2.3</p>	<p><i>Deliverable title</i> Analysis of regional market potential for rail freight services</p>	<p><i>Description of deliverable</i> On the basis of elaborated methodology PPs will conduct the analyses of regional market potential for rail freight services in each region.</p>	<p><i>Delivery month</i> 01.2020</p>	<p><i>Quantification/target</i> 7,00</p>



Deliverable D.T1.3.1	<i>Deliverable title</i> Methodology for identification of bottlenecks in infrastructure and service	<i>Description of deliverable</i> PIL drafts a common methodology for the identification of bottlenecks in infrastructure and services in each region will be elaborated. The methodology will be agreed with all partners and a work paper will be produced	<i>Delivery month</i> 09.2019	<i>Quantification/target</i> 1,00
Deliverable D.T1.3.2	<i>Deliverable title</i> Training of chosen (external) experts for the identification of bottlenecks	<i>Description of deliverable</i> Partner's staff and external experts selected for the identification of bottlenecks for rail freight services will participate to a joint half-day training session, where the methodology will be introduced. (Ljubljana)	<i>Delivery month</i> 10.2019	<i>Quantification/target</i> 1,00
Deliverable D.T1.3.3	<i>Deliverable title</i> Regional Catalogues: Identification of bottlenecks in regional rail infrastructure & service	<i>Description of deliverable</i> On the basis of the elaborated methodology bottlenecks in regional rail infrastructure & service will be identified in each region, classified and compiled into a structured catalogue.	<i>Delivery month</i> 03.2020	<i>Quantification/target</i> 7,00

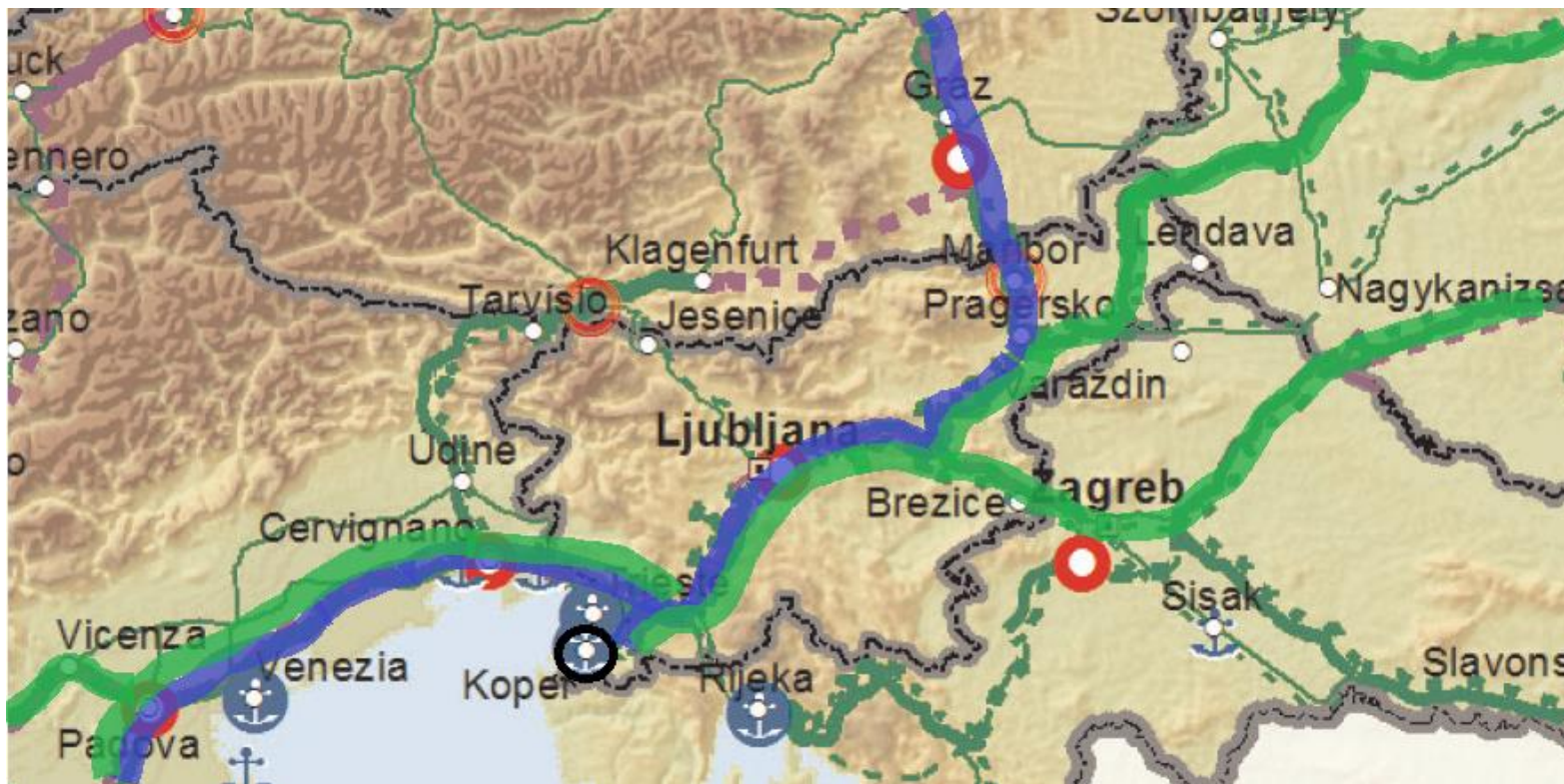


Deliverable D.T1.4.1	<i>Deliverable title</i> Benchmarking study for each region	<i>Description of deliverable</i> PIL in cooperation with regional experts will use the baseline studies, analyses of market potentials and the catalogues of bottlenecks to carry out a comparative benchmarking study, assessing the regions against each other.	<i>Delivery month</i> 06.2020	<i>Quantification/target</i> 1,00
Deliverable D.T1.4.2	<i>Deliverable title</i> Priority list of actions & cost estimations	<i>Description of deliverable</i> Considering the results of the 4 preceding studies each region derives a priority list of actions (including cost estimations), which will form the object of investigation for further project activities.	<i>Delivery month</i> 10.2020	<i>Quantification/target</i> 7,00
Deliverable D.T1.4.3	<i>Deliverable title</i> Definition of potential policy measures	<i>Description of deliverable</i> Resulting from A.T.1.1-1.4 possible targeted policy measures and interventions, which could help to realise identified potentials and overcome barriers will be outlined as base for further investigation in T.3.	<i>Delivery month</i> 03.2021	<i>Quantification/target</i> 7,00




SLOVENIA: TEN-T CORRIDORS

ACRONYM

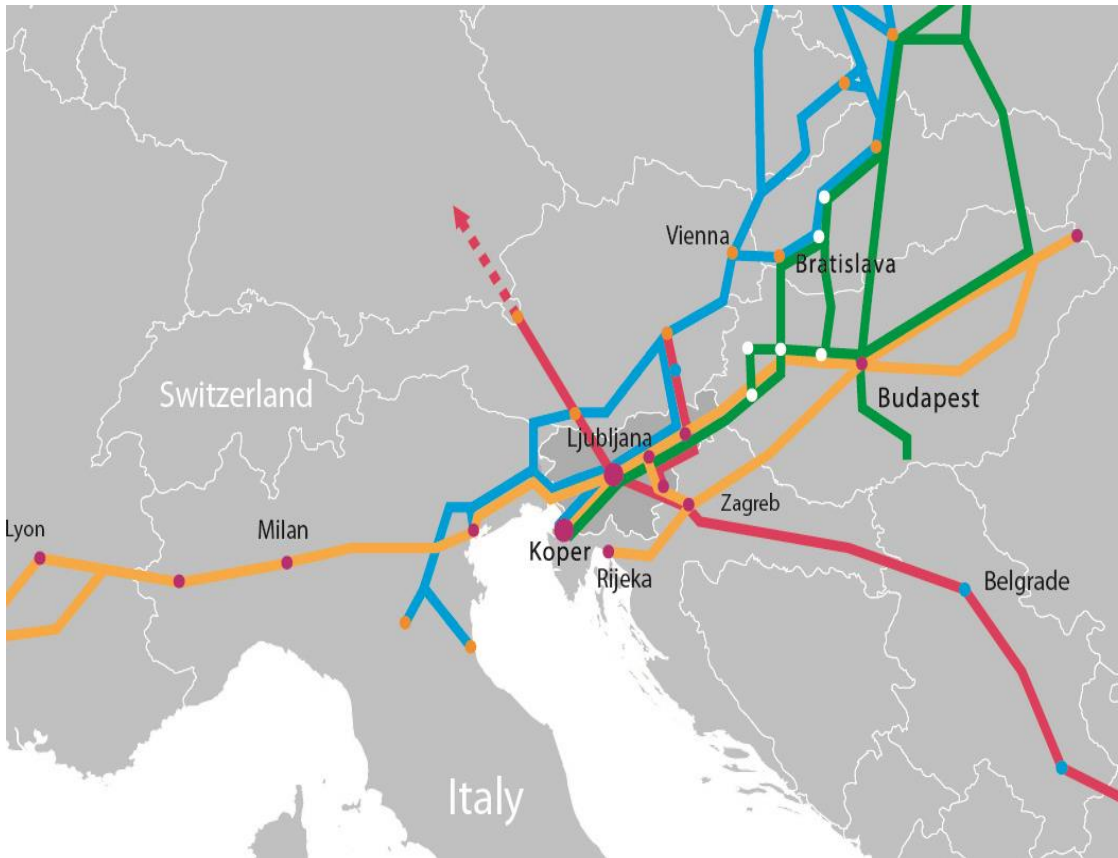


2 TEN-T Corridors crossing the country:

- Baltic-Adriatic 
- Mediterranean 



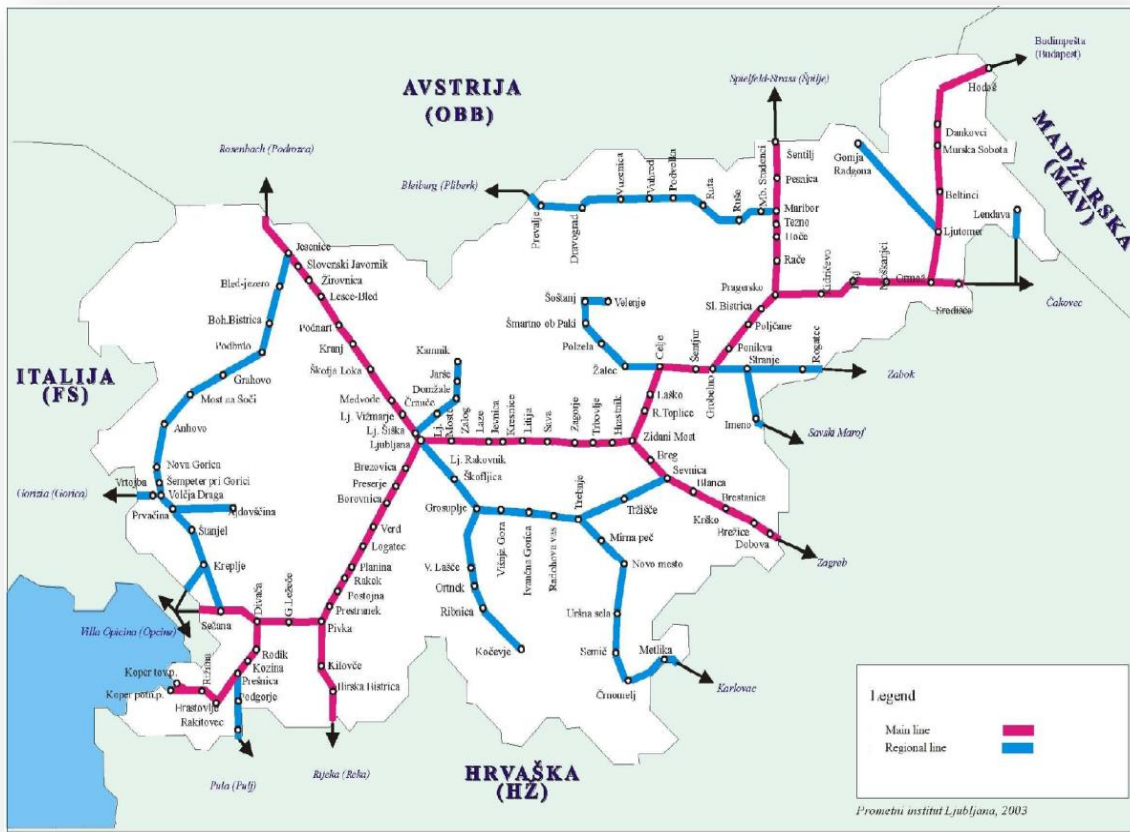
Slovenian Railways - At the Crossroads of European Corridors



- Baltic-Adriatic Corridor RFC 5
- Mediterranean Corridor RFC 6
- Amber Corridor RFC 11
- XPC Corridor (future RFC 10 - Alpine-Western Balkan Rail Freight Corridor) in establishment

SLOVENIA: RAILWAY NETWORK

ACRONYM



- 1207 km of railway lines
 - 50 % main lines
 - 39 % electrified (3kV DC)
 - 27 % double track line
- 365 km East-West axis
- 395 km North-South axis
- 128 rail stations
- 888 railroad crossings



SLOVENIA: REIF PILOT

- Pilot testing of new freight train connection between railway line
- Ljubljana-Kocevje and car logistics centre Grosuplje via industrial side track.
- Construction of track is not part of the pilot, but organizational and any other issues necessary.
- The company that operates the area has 120 road trucks for car transportation, 150.000 cars carried per year, 16 million truck kilometres per year throughout the Europe





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Thank you for your attention!