Report: Strategic projects supporting development of freight transport on TRITIA territory (D.T1.1.4)

Venue: “Nowe Gliwice” Business and Education Center, Gliwice, Poland
Date: 15.05.2019

Responsible Partner:
PP1 Upper Silesian Agency for Entrepreneurship and Development LTD.

Contribution partners:
PP3 The Union for the Development of the Moravian Silesian Region
PP4 Transport Research Institute, JSC.
PP5 Dopravní projektování
PP6 University of Žilina
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2.1 Main projects

Based on the strategic objectives for the development of multimodal freight and discussions with key stakeholders, held in joint workshops:

- Workshop - Strategic projects supporting development of freight transport on TRITIA territory - 15.05.2019,
- Consultations in the Marshal Offices of each partner country with local authorities responsible for implementing regional projects - 28.06.2019 Żyliña, 02.07.2019 Katowice, 03.07.2019 Ostrava, 15.07.2019 Opole
- Consultations the Members of the Steering Committee - Gliwice, 30.07.2019 and Cieszyn 24.10.2019,
- Consultations with the Director of EGTC TRITIA Ms. Marta Sláviková - Cieszyn 07.10.2019,
- Consultations with representatives of Urząd Żeglugi Śródlądowej (Inland Management Authority) - in Kędzierzyn- Koźle and Wrocław - 07.02.2020 and 31.01.2020 - the meetings were dedicated to the discussion about the Odra Commission Project as a part of Sub-Strategy Project within the Regional Multimodal Freight Transport Strategy.

Main projects were identified by project partners and stakeholders in two main groups: organizational projects and infrastructure projects.
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<th>Organizational project in the TRITIA area</th>
<th>Infrastructure project in the TRITIA area</th>
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<td>Model of coordination of the multimodal freight transport network in the TRITIA area</td>
<td>Construction of the D-O-E waterway, section Kędzierzyn-Koźle - Ostrava</td>
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<td>Odra Commission</td>
<td>Completion of the Oder waterway up to Ostrava</td>
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<td>Modelling of logistics centres networks and multimodal terminals</td>
<td>Airports development (Mośnov, Pyrzowice, Zylina)</td>
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<td>The concept of determining the external costs of freight transport</td>
<td>Construction of the Śląski Canal</td>
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<td>Analysis of disruptions in freight transport that are the result of infrastructure sharing</td>
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<td>Building the new roads infrastructure and modernization of the road network to the 115 kN/axle load transfer, including the development of road safety infrastructure</td>
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<td>Electromobility centres in the freight transport system in the TRITIA area</td>
<td>Building an International Class Danube-Oder-Elbe Inland Waterway Link that conforms to the requirements of an international class</td>
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<td>Monitoring of the development of the TEN-T network - including roads, railways, inland waterways in the TRITIA area</td>
<td>Improvement of terminals connections with road, railway and inland waterways transport networks, in particular with national transport nodes</td>
</tr>
<tr>
<td>Technology Observatory in entrepreneurial discovery process: Logistics and transport</td>
<td>Modernisation and expansion of existing multimodal transport terminals, construction of new terminals</td>
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Monitoring of the development of roads, railways, inland waterways networks and point infrastructure

Development of inter-branch transhipment technologies

Monitoring of Intelligent Transport Systems further deployment

Modernization of railway infrastructure including corridor PL/CZ/SK border crossing

Alternative scenario of multimodal freight transport development

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As a result of consultation with the socio-economic environment, three key strategic projects were identified and refined:

1. Model of coordination of the multimodal freight transport network in the TRITIA area
2. Technology Observatory in entrepreneurial discovery process: Logistics and transport
3. Innovative centres for sustainable freight flows in the TRITIA area

Other organizational projects were included in the proposed strategic projects.

In addition to organizational projects, infrastructure projects will be defined in the TRITIA area for individual transport branches. They will be identified in the next stage of design work. This is the result of the need to complete work on the transport model in the TRITIA area (WPT3 activities). In addition, infrastructure projects will be subject to identification and prioritization at the stage of creating transport cross-border action plans for each country.
1.2 Relation between projects and strategic goals with short description

1.2.1 PROJECT 1. MODEL OF COORDINATION OF THE MULTIMODAL FREIGHT TRANSPORT NETWORK IN THE TRITIA AREA

Project 1: Model of coordination of the multimodal freight transport network in the TRITIA area

- S1. Improving the quality and reliability of freight transport in the TRITA area
- S2. Promoting the development of multimodal freight transport
- S3. Support for cooperation between regional authorities in the development of multimodal freight transport
- S4. Supporting unification of regional and transport policies in the area of TRITIA
- S5. Increasing the attractiveness of multimodal freight transport

- F1. Indicating funds for freight transport development projects in the TRITIA area
- F2. Support in attracting investors for the development of freight transport
- F3. Lobbying for more funds for the development of freight transport

- SS1. Initiating and supporting projects in the area of freight transport safety
- SS2. Reducing the external costs of freight transport

- P1. Expansion of the support system for enterprises from the TSL sector
- P2. Support for the harmonization of laws and regulations regarding multimodal freight transport in the TRITIA area
- P3. Supporting the implementation of modern management organisation systems in multimodal freight transport
- P4. Integration of actors in the multimodal transport chain into a coherent (single) IT system

- I1. Network co-creation and sharing the transport infrastructure in the TRITIA area
- I2. Development of an information system supporting multimodal freight transport
- I3. Improving the use of transport infrastructure capacity
- I4. Extension and modernisation of transport infrastructure (roads, railways and inland waterways)

- D1. Development of a system to support the training of specialists in the TSL sector
- D2. Co-creation of a network of competences centres for the development of multimodal freight
- D3. Integrating the expert community and multimodal transport managers and creating professional unions
- D4. Cooperation with other associations working for the development of freight transport
- D5. Initiating and participating in R&D and innovation projects in the transport sector
- D6. Growth in the use of knowledge resources for the development of freight transport
**Project aim:**
The aim of the project will be to develop a model of multimodal transport network coordination for the TRITIA area. The subject matter of the project will be strongly in line with the guidelines of modern transport policy, emphasizing the need to build an integrated and sustainable multi-branch transport system.

**Included projects:**
1. Modelling of logistics centres networks and multimodal terminals
2. Alternative scenario of multimodal freight transport development
3. Odra Commission
4. Multimodal freight transport cluster

**The scope of the project:**
- selection of the method and mechanisms of coordination of the multimodal transport network in the TRITIA area.
- design of innovative transport traffic management systems contributing to the reduction of environmental pressures generated by road transport
- developing cooperation platform including an information system for multimodal transport networks.
- based on data obtained from the Observatory, creating alternative scenarios for the development of multimodal transport in the Tritia area. The coordination model will take into account the available logistics infrastructure and its changes, network actors, as well as current and forecast freight flows in the network under study.
- initiating and support network cooperation at the level of supply chains, logistics organizations and other multimodal transport stakeholders
- lobbying for support for the development of multimodal transport, including harmonization of regulations

**Relation to strategic goals**
S1, S2, S3, S4, S5, F1, F2, F3, SS1, SS2, P1, P2, P3, P4, I1, I3, I4, D1, D2, D3, D4, D5, D6

**Level of importance**
High
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<th><strong>Project Leader:</strong></th>
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<td><strong>Source of funding:</strong></td>
<td>Interreg EUROPE, Interreg Central Europe, Interreg CZ-PL incl. SK), budgetary resources, etc.</td>
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<td><strong>Term (period) of implementation (plan)</strong></td>
<td>2020-2030</td>
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1.2.2. PROJECT 2: TECHNOLOGY OBSERVATORY IN ENTREPRENEURIAL DISCOVERY PROCESS: LOGISTICS AND TRANSPORT

Project 2: Technology Observatory in entrepreneurial discovery process: Logistics and transport
**Project aim:**
The goal of the project is to launch a specialized observatory that will be responsible for observing technological and market trends in the development of intermodal transport in the cross-border area TRITIA. The observatory will respond to the specific needs of the actors of the intermodal transport ecosystem of the Śląskie Voivodship, Opolskie Voivodship, the Local Government of the Žilina Region and the Moravian-Silesian Region in the scope of supporting and tracking the development of intermodal transport, positioning its key technological areas and assessing the effectiveness of its development activities.

**Included projects:**
1. The concept of determining the external costs of freight transport
2. Analysis of disruptions in freight transport that are the result of infrastructure sharing
3. System of data collection in freight transport
4. Monitoring of the development of the TEN-T network - including roads, railways, inland waterways in the TRITIA area
5. Monitoring of the development of roads, railways, inland waterways networks and point infrastructure
6. Monitoring of Intelligent Transport Systems further deployment

**The scope of the project (main topics):**
The activities of the observatory will include the collection and processing of specialized knowledge about technological and infrastructural areas, monitoring the implementation of multimodal transport development strategies; technological trends and infrastructure development, and an assessment of the endogenous potential of the TRITIA region in the development of intermodal transport. The scope of the project will include the following tasks:

- mapping of the multimodal transport system in the TRITIA area
- mapping relations in the multimodal transport network of the TRITIA area
- the assessment of transport and logistics potential
- cooperation for the development of the transport and logistics in the TRITIA
- monitoring of the development of the TEN-T network and infrastructure (roads, railways, inland waterways networks and point)
- lobbying to establish an intergovernmental organisation that guarantees freedom of navigation and equal treatment for all banners on the Oder
- comparison of application of externalities in freight transport, incl. charges for the use of transport infrastructure; elaborating maps of pilots projects before and after the full application of externalities (within TRITIA area);

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1.2.3. PROJECT 3: INNOVATIVE CENTRES FOR SUSTAINABLE FREIGHT FLOWS IN THE TRITIA AREA

**Project 3: Innovative centres for sustainable freight flows in the TRITIA area**

**S1.** Improving the quality and reliability of freight transport in the TRITIA area

**S2.** Promoting the development of multimodal freight transport

**S3.** Support for cooperation between regional authorities in the development of multimodal freight transport

**S4.** Supporting unification of regional and transport policies in the area of TRITIA

**S5.** Increasing the attractiveness of multimodal freight transport

**F1.** Indicating funds for freight transport development projects in the TRITIA area

**F2.** Support in attracting investors for the development of freight transport

**F3.** Lobbying for more funds for the development of freight transport

**SS1.** Initiating and supporting projects in the area of freight transport safety

**SS2.** Reducing the external costs of freight transport

**P1.** Expansion of the support system for enterprises from the TSL sector

**P2.** Support for the harmonization of laws and regulations regarding multimodal freight transport in the TRITIA area

**P3.** Supporting the implementation of modern management organisation systems in multimodal freight transport

**P4.** Integration of actors in the multimodal transport chain into a coherent (single) IT system

**I1.** Network co-creation and sharing the transport infrastructure in the TRITIA area

**I2.** Development of an information system supporting multimodal freight transport

**I3.** Improving the use of transport infrastructure capacity

**I4.** Extension and modernisation of transport infrastructure (roads, railways and inland waterways)

**D1.** Development of a system to support the training of specialists in the TSL sector

**D2.** Co-creation of a network of competences centres for the development of multimodal freight

**D3.** Integrating the expert community and multimodal transport managers and creating professional unions

**D4.** Cooperation with other associations working for the development of freight transport

**D5.** Initiating and participating in R&D and innovation projects in the transport sector

**D6.** Growth in the use of knowledge resources for the development of freight transport
## Project Description: Innovative Centres for Sustainable Freight Flows in the TRITIA Area

### Project aim:
Designing innovative service centres in the TRITIA area enabling the implementation of sustainable freight flows using vehicles with alternative propulsion sources. The project is part of the requirements of the transport policy of the European Union countries and the guidelines related to the need to develop electromobility and alternative fuels. The scope of the project covers freight transport previously omitted in projects related to electromobility.

### Included projects:
1. Modelling of the network of innovative freight transport service centres in the TRITIA area, including in their infrastructure power stations into alternative propulsion sources
2. Designing innovative solutions for alternative vehicle power sources
3. Forecasting freight flow streams taking into account the environmental impact of alternative propulsion sources used in TRITIA

The project is highly dependent on infrastructure projects.

### The scope of the project (main topics)
- research on current and emerging technologies for alternative propulsion sources;
- mapping the type and size of freight streams in the TRITIA area;
- analysis of the structure of transported loads, taking into account various modes of transport;
- analysis of organizational and legal possibilities and restrictions in the scope of designing innovative centres for realization of balanced goods flows;
- analysis of the possibilities and restrictions of using vehicles with alternative propulsion sources in the TRITIA area. Both freight-based (last mile) and heavy goods vehicles will be included here
- mapping the existing supply network of commercial vehicles and trucks to alternative power source
- configuration of the network of innovative freight transport service centres in the TRITA area, including in their infrastructure power stations into alternative propulsion sources
- analysis of environmental benefits resulting from the increased share of electric vehicles or with an alternative drive to achieve freight flows (comparison of external transport costs)

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