

D.T1.1.4 Report

D.T1.1.8 Strategic workshop

02.2020

Strategic projects supporting development of freight transport on TRITIA area



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

Venue: "Nowe Gliwice" Business and Education Center,

Gliwice, Poland

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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 Zilina



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## 2. Report

## 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 Żylina, 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.





# TAKING COOPERATION FORWARD

| Organizational project in the TRITIA area                           | Infrastructure project in the TRITIA area                        |
|---|--|
| Model of coordination of the multimodal freight transport network   | Construction of the D-O-E waterway, section Kędzierzyn-Koźle -   |
| in the TRITIA area  | Ostrava  |
| Odra Commission   | Completion of the Oder waterway up to Ostrava                    |
| Modelling of logistics centres networks and multimodal terminals    | Airports development (Mošnov, Pyrzowice, Żylina)                 |
| The concept of determining the external costs of freight transport  | Construction of the Śląski Canal                                 |
| Analysis of disruptions in freight transport that are the result of | Modernization of the Gliwicki Canal                              |
| infrastructure sharing  |  |
| System of data collection in freight transport                      | 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                        |
| Electromobility centres in the freight transport system in the      | Building an International Class Danube-Oder-Elbe Inland Waterway |
| TRITIA area   | Link that conforms to the requirements of an international class |
| Monitoring of the development of the TEN-T network - including      | Improvement of terminals connections with road, railway and      |
| roads, railways, inland waterways in the TRITIA area                | inland waterways transport networks, in particular with national |
|   | transport nodes  |
| Technology Observatory in entrepreneurial discovery process:        | Modernisation and expansion of existing multimodal transport     |
| Logistics and transport   | terminals, construction of new terminals                         |







| Monitoring of the development of roads, railways, inland       | Development of inter-branch transhipment technologies      |
|--|--|
| waterways networks and point infrastructure                    |  |
| 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  |  |

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.





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1.2 Relation between projects and strategic goals with short description

in the transport sector

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 S2. Promoting the S3. Support for cooperation S4. Sur porting uni ication of S5. Increasing the attractiveness of and reliability of freight develorment of multimodal between regional authorities in regional and transport policies in multimodal freight transport transport in the TRITA area freight transport the develor ment of multimodal the area of TRITIA freight transport F1 Indicating funds for freight transport development projects in the F2. Surport in attracting investors for the F3. Lobbying for more funds for the development TRITIA area development of freight transport of reight 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 P4. Integration of actors in the multimodal P2. Support for the harmonization of P3. Supporting the implementation of system for enterprises from the transport chain into a coherent (single) IT moderr management organisation laws and regulations regarding TSL sector system multimodal freight transport in the systems in multimodal reight transport 14. Extension and modernisation of 12. Development of an information I1 Network co-creation and 13. In proving the use of transport transport infras ructure (roads, railways sharing the transport system supporting multimodal freight infrastructure capacity and inland waterways) infrastructure in the TRITIA area transport D1. Development of a system to D2. Co-creation of a network of D4. Cooperation with other associations working D3. Integrating the expert community and support the training of specialists in the competences centres for the for the development of freight transport multimodal transport managers and creating development of multimodal freight TSL sector professional unions D6. Growth in the use of knowledge resources for D5. Initiating and participating in R&D and innovation projects







| 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:          | <ol> <li>Modelling of logistics centres networks and multimodal terminals</li> <li>Alternative scenario of multimodal freight transport development</li> <li>Odra Commission</li> <li>Multimodal freight transport cluster</li> </ol>  |
| The scope of the project:   | <ul> <li>selection of the method and mechanisms of coordination of the multimodal transport network in the TRITIA area.</li> <li>design of innovative transport traffic management systems contributing to the reduction of environmental pressures generated by road transport</li> <li>developing cooperation platform including an information system for multimodal transport networks.</li> <li>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.</li> <li>initiating and support network cooperation at the level of supply chains, logistics organizations and other multimodal transport stakeholders</li> <li>lobbying for support for the development of multimodal transport, including harmonization of regulations</li> </ul> |
| 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   |







| Project Leader:                        | Upper Silesian Agency for Entrepreneurship and Development Ltd., Silesian University of Technology, EGTC TRITIA, R&D Institutes from Czech Republic, Poland, Slovakia |
|--|---|
| Source of funding:                     | Interreg EUROPE, Interreg Central Europe, Interreg CZ-PL incl. SK), budgetary resources, etc.   |
| Term (period) of implementation (plan) | 2020-2030   |







## 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 S5. Increasing the attractiveness of S1. Improving the quality S2. Promoting the S3. Support for cooperation S4. Supporting unification of and reliability of freight mult modal freight transport development of multimodal regional ar d transport policies in between regional authorities in transport in the TRITA area freight transport the development of multimodal the area of TRITIA freight transport F1 Indicating funds for freight transport development projects in the F2. Support in attracting investors for the F3. Lobbying for more funds for the development TRITIA area development of freight transport of reight transport SS1. Initiating and supporting projects in the area of freight transport safety SS 2. Reducing the external costs of freight transport P1. Expansion of the support P4. Integration of actors in the multimodal P2. Support for the harmonization of P3. Supporting the implementation of system for enterprises from the transport chain into a coherent (single) IT modern management organisation laws and regulations regarding TSL sector systems in multimodal freight transpart system multimodal freight transport in the I1. Network co-creation and 14. Extension and modernisation of 12. Development of an information 13. Improving the use of transport sharing the transport transport infrasti ucture (roads, railways system supporting multimodal freight infrastructure capacity infrastructure in the TRITIA area and inlar d waterways) transport D1. Development of a system to D2. Co-creation of a network of D3. Integrating the expert community and D4. Cooperation with other associations working support the training of specialists in the competences centres for the for the development of freight transport multimodal transport managers and creating TSL sector development of multimodal freight professional unions

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: 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:                     | <ol> <li>The concept of determining the external costs of freight transport</li> <li>Analysis of disruptions in freight transport that are the result of infrastructure sharing</li> <li>System of data collection in freight transport</li> <li>Monitoring of the development of the TEN-T network - including roads, railways, inland waterways in the TRITIA area</li> <li>Monitoring of the development of roads, railways, inland waterways networks and point infrastructure</li> <li>Monitoring of Intelligent Transport Systems further deployment</li> </ol>  |
| 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: <ul> <li>mapping of the multimodal transport system in the TRITIA area</li> <li>mapping relations in the multimodal transport network of the TRITIA area</li> <li>the assessment of transport and logistics potential</li> <li>cooperation for the development of the transport and logistics in the TRITIA</li> </ul> |







|                             | <ul> <li>monitoring of the development of the TEN -T network and infrastructure (roads, railways, inland waterways networks and point)</li> <li>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);</li> </ul> |
|-----------------------------|---|
| Relation to strategic goals | S3, S4, F1, F2, SS1, SS2, P1, P3, P4, I2, I3, I4, D1, D4, D6  |
| Level of importance         | High  |
| Project Leader              | Upper Silesian Agency for Entrepreneurship and Development Ltd., Silesian University of Technology, EGTC TRITIA, R&D Institutes from Czech Republic, Poland, Slovakia   |
| Source of funding           | Interreg EUROPE, Interreg Central Europe, Interreg CZ-PL incl. SK), etc.  |
|                             |   |
| Term (period) of            | 2020 - 2025   |
| implementation (plan)       |   |





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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 S2. Promoting the S3. Support for cooperation S4. Supporting unification of S5. Increasing the attractiveness of and reliability of freight development of multimodal between regional authorities in regional and transport policies in multimodal freight transport transport in the TRITA area freight transport the development of multimodal the area of TRITIA freight transport F2 Support in attracting investors for the F1 Indicating funds for freight transport development projects in the F3. Lobbying for more funds for the development development of freight transport TRITIA area 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 P4. Integration of actors in the multimodal P3. Supporting the implementation of P2. Support for the harmonization of system for enterprises from the transport chain into a coherent (single) IT modern management organisation laws and regulations regarding system TSL sector multimodal freight transport in the systems in multimodal freight transport 11. Network co-creation and 12. Development of an information 13. Improving the use of transport 14. Extension and modernisation of sharing the transport system supporting multimodal feight transport infrastructure (roads, railways infrastructure capacity infrastructure in the TRITIA area and inland waterways) transport D1. Development of a system to D2. Co-creation of a network of D4. Cooperation with other associations working D3. Integrating the expert community and support the training of specialists in the competences centres for the for the development of freight transport multimodal transport managers and creating TSL sector development of multimodal reight professional unions D5. Initiating and participating in R&D and innovation projects D6. Growth in the use of knowledge resources for

in the transport sector







### 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:                     | <ol> <li>Modelling of the network of innovative freight transport service centres in the TRITA area, including in their infrastructure power stations into alternative propulsion sources</li> <li>Designing innovative solutions for alternative vehicle power sources</li> <li>Forecasting freight flow streams taking into account the environmental impact of alternative propulsion sources used in TRITIA</li> </ol>  |
|  | The project is highly dependent on infrastructure projects.   |
| The scope of the project (main topics) | <ul> <li>research on current and emerging technologies for alternative propulsion sources;</li> <li>mapping the type and size of freight streams in the TRITIA area;</li> <li>analysis of the structure of transported loads, taking into account various modes of transport;</li> <li>analysis of organizational and legal possibilities and restrictions in the scope of designing innovative centres for realization of balanced goods flows;</li> <li>analysis of the possibilities and restrictions of using vehicles with alternative propulsion sources in the TRITA area. Both freight-based (last mile) and heavy goods vehicles will be included here</li> <li>mapping the existing supply network of commercial vehicles and trucks to alternative power source</li> </ul> |







|  | <ul> <li>configuration of the network of innovative freight transport service centres in the TRITA area, including in their infrastructure power stations into alternative propulsion sources</li> <li>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</li> </ul> |
|--|--|
| Relation to strategic goals            | S1, S5, F1, F2, SS2, P3, I1, I2, I3, I4, D4, D5  |
| Level of importance                    | High   |
| Project Leader                         | Silesian University of Technology, Upper Silesian Agency for Entrepreneurship and Development Ltd., EGTC TRITIA, R&D Institutes from Czech Republic, Poland, Slovakia  |
| Source of funding:                     | Horizon EUROPE The next EU Research & Innovation Programme 2021-2027   |
| Term (period) of implementation (plan) | 2021-2027  |



