

OUTPUT FACT SHEET

Pilot actions (including investment, if applicable)

Project index number and acronym	CE1410 REIF
Output number and title	O.T2.1 - Pilot actions
Investment number and title (if applicable)	Not applicable
Responsible partner (PP name and number)	PP8 - ITL Foundation PP10 - Emilia-Romagna region
Project website	interreg-central.eu/reif
Delivery date	November 2021

Summary description of the pilot action (including investment, if applicable) explaining its experimental nature, demonstration character and transnational added value

The pilot action aimed at testing the feasibility and necessary measures of the removal of bottlenecks for intermodality at regional level. The pilot action was carried out by ITL Foundation (PP8) together with Emilia-Romagna Region (PP10).

The main objective of REIF's Pilot Action #5 was to estimate the effects of the solution of bottlenecks that have been identified in the WP.T1 activities. In order to perform the evaluation, during the pilot actions, the regional transport model of Emilia-Romagna region has been deeply strengthened.

Starting from 2001, the Emilia-Romagna region has equipped itself with a decision support system (DSS) to analyse the extra-urban mobility regional system, referred to the road (passenger and freight) and the rail (only passenger) networks. As mentioned, the first activities carried out during the Pilot Action concerned the upgrading of the regional transport model, in particular regarding the freight module.

The main activities that have been realised during the first phases of the Pilot Action #5 concern: Modelling of freight transport flows between the municipalities within the region Emilia Romagna

- Modelling the freight rail infrastructure
- Modelling the road transport options considering different modalities (third party account vs. own account) and different vehicles and payloads (vans, trucks, articulated trucks)
- Modelling the changes in the rail infrastructure and their effects on the rail services following the actions to mitigate the bottlenecks identified
- Applying the model to evaluate the effects of the bottlenecks' mitigation measures on transport flows and, in particular, on the attractiveness of intermodal transport.

The model capabilities have been enriched with the use open data sources and Floating Car Data.

The methodologies that were followed can be also adapted and replicated in other areas of the Programme area.

NUTS region(s) concerned by the pilot action (relevant NUTS level)

ITH5 - Emilia-Romagna region

Investment costs (EUR), if applicable

Not applicable

Expected impact and benefits of the pilot action for the concerned territory and target groups and leverage of additional funds (if applicable)

The Pilot Action #5 was designed to strengthen the model capabilities of the freight transport planning support tools of the regional technical offices. The achieved results and new tools provided will facilitate the planning process related to the freight rail transport in our region. A possible application of the upgraded model is to estimate the effects of the solution of each bottleneck on the regional rail network. Furthermore, the technical offices have been trained on the potential of the use of innovative data (open data, floating car data - FCD - and journey times and paths extracted from online platform) and of different methodology of analysis (regression/prediction model for traffic generated/attracted by logistic hubs).

The updated model could ease the choice of the strategies to achieve the regional main aim to 2025 related to rail freight transport, namely to increase the modal share of rail freight transport by +30%, with a minimum modal share of 13%.

Sustainability of the pilot action results and transferability to other territories and stakeholders

The regional transport model of Emilia-Romagna region was updated with the activities carried out in Pilot Action #5 and #8. Once that the rail freight module will be fully integrated in the overall regional transport model, it will be certainly used by regional officers to provide support for the planning of the transport policies. Pilot actions #5 and #8's activities could be used as best practice in other territories. The main innovative methodologies implemented in the regional transport model (namely, the rail freight module and the use of innovative data) have been summarised in the Pilot action evaluation reports and they can be replicated in other territorial contexts.

If applicable, contribution to/ compliance with:

- relevant regulatory requirements
- sustainable development - environmental effects. In case of risk of negative effects, mitigation measures introduced
- horizontal principles such as equal opportunities and non-discrimination

The general aim of the pilot actions is to promote and sustain the freight rail transport that, compared to the road one, presents clear environmental and social advantages (e.g. decreasing of pollutions, increasing of road safety condition due to the decreasing of the number of trucks along the road network)

References to relevant deliverables (e.g. pilot action report, studies), investment factsheet and web-links

If applicable, additional documentation, pictures or images to be provided as annex

The output of Pilot Action #5 is based on the following deliverables:

- D.T2.2.3 Pilot action concept
- D.T2.2.4 Establishment of Market player working group
- D.T2.2.7 Pilot evaluation report

Download link: <https://www.interreg-central.eu/Content.Node/REIF/Pilot-action--5---Emilia-Romagna---Freight-transport-model.zip>

A video summarizing the pilot action outcomes is also available on the REIF website.

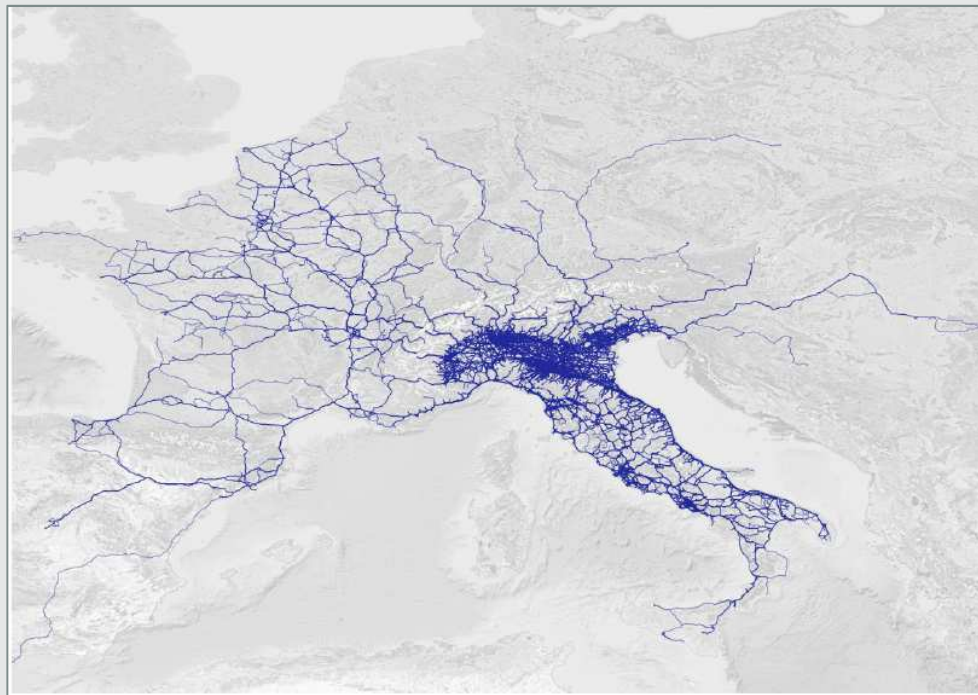


Figure 1 - Path of FCD with origin or destination into the province of Parma (Emilia-Romagna region). Pilot action #5 and #8



Figure 2 - Network of freight transport operator based in Emilia-Romagna region and implemented in the rail freight model. Pilot action #5 and #8

