# Output factsheet: Pilot actions

<table>
<thead>
<tr>
<th><strong>Project index number and acronym</strong></th>
<th>CE36 ChemMultimodal</th>
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<tr>
<td><strong>Lead partner</strong></td>
<td>Ministry of Economy, Science and Digitalization Saxony-Anhalt</td>
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<td><strong>Output number and title</strong></td>
<td>O.T2.1</td>
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<td><strong>Responsible partner (PP name and number)</strong></td>
<td>PP 8 ZCHFP SR Association of chemical and pharmaceutical industry of Slovak republic</td>
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<td><strong>Project website</strong></td>
<td><a href="http://interreg-central.eu/chemmultimodal">http://interreg-central.eu/chemmultimodal</a></td>
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<td><strong>Delivery date</strong></td>
<td>18 April 2019</td>
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ChemMultimodal’s pilot phase had the purpose to test the usefulness and effectiveness of the project's before-developed tool-box which aimed at the promotion of multimodal transport. To that aim, companies were addressed in each of the participating regions/countries and invited to collaborate closely with ChemMultimodal project partners to investigate if transports realized by road could be shifted towards rail and/or short-sea transport. To raise awareness for multimodal transport and to network chemical industry with logistics service providers, a series of local workshops took place during the pilot phase.

In Slovakia 2 companies participated in the pilot phase. Together with ZCHFP SR (Association) 8 transports representing 25,000 road kilometers were investigated for multimodal potentials using the ChemMultimodal tool-box. These transports are responsible for CO2 emissions of 9.504 tons of CO2 per year, 792 ton of CO2 per month. By the end of the ChemMultimodal pilot phase 12,515 transport kilometers, 12.8 mil. tkm/month were successfully shifted off the road and feasible multimodal transport solutions were found allowing to reduce transport kilometers realized by road by. In real-life tests demonstrated the feasibility of multimodal transport on 6 of the down mentioned transport routes. The pilot action in Great Britain, Benelux, Portugal, Spain, and France achieved a CO2 reduction of 792 tons of CO2 per month, representing a modal shift of 12.5 % per cent.
In addition 2 workshops were realized in Bratislava 25 stakeholders participated. In conclusion of the pilot phase, suggestions to review and modify the ChemMultimodal tool-box were shared with the project consortium, and a discussion was initiated how to continue the promotion of multimodal transport beyond the pilot phase and project lifetime.

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

The pilot actions were planned on the whole territory of the Slovakia but implemented in western Slovakia only. Due to the size of the country, relevant multimodal transports could be organized only with destinations out of Slovakia. Regarding the starting points the regions concerned were:

NUTS 1: SK0 Slovak Republic
NUTS 2: SK01 Bratislavský kraj
       SK02 Západné Slovensko
NUTS 3: SK010 Bratislavský kraj
       SK023 Nitriansky kraj
Expected impact and benefits of the pilot action for the concerned territory and target groups

With the realization of the pilot action in Great Britain, Benelux, Portugal, Spain, France, road transports on 8 routes were investigated for their multimodal potentials. In result of the activities carried out, transport on 6 of these routes have been successfully reorganized while feasible potentials for multimodal transport have been identified on 2 of routes for further review by industry decision-makers.

Association is per logistic committee in contact with multimodal operators, have news from logistic sector and information for new multimodal connections are transferred per Association news, emails and contacts transferred. Head of commission is consultant for company logistics about news and multimodal technologies. Contacts per transport ministry is continually and help for strategy material cooperation.

Apart from the measurable impacts, companies of ZCHFP - GreenChem, Duslo, Fortischem, Slovnaft, Diakol company benefitted from the increased knowledge that allowed not only the further refinement of the ChemMultimodal tool-box but also built up capacities to further support chemical industry companies to identify multimodal solutions for the transport of their goods.
### Sustainability of the pilot action results and transferability to other territories and stakeholders

The approach adopted for the pilot phase of ChemMultimodal, namely the direct collaboration with chemical industry and logistics service providers while using the project’s developed tool-box, and the regular implementation of awareness raising and networking workshops will be continued amid the achieved successes. Details of the continuation will be identified in an action plan that will be surrendered to the competent decision-makers in spring 2019.

The approach taken in the pilot phase, described in the tool-box element “consultancy services”, and the raised awareness for transport-related CO2 emissions, using the CO2 calculator element of the tool-box, can be universally applied not only to chemical industries but to other sectors of the economy. Used visualization tools cover most European territories and allow replication of the approaches in other regions.

The revised tool-box of ChemMultimodal is published on the project's website. Further information regarding the realisation of the pilot in France and Spain can be found on website of association [www.zchfp.sk](http://www.zchfp.sk) or per Slovak logistic magazines. Tools are published and promoted per education of students of logistic (Zilina, Kosice, Bratislava, Nitra, Trnava...)

Web of ZCHFP SR:
[https://zchfp.sk/?vyber=44](https://zchfp.sk/?vyber=44)
Lessons learned from the implementation of the pilot action and added value of transnational cooperation

The review of the pilot phase’s experiences allow to refine the ChemMultimodal tool-box and the preparation of Slovak action plan specifying how the successfully tested approaches will be continued after the termination of the project’s lifetime.

As a conclusion of this Pilot project phase, we would like to highlight some issues related to the Central European/European Logistic System that emerged by the analysis and the confrontation with companies.

- Chemical companies are generally interested to increase multimodality, first of all for safety reasons but more and more if a cost reduction can be achieved;
- Difficulties to be faced regarding infrastructures (not possible to solve in the short period) and operational issues (e.g. not existing connections, transit time, reliability);
- Preparing and construction of terminals direct in chemical companies with state co-financing is long term program
- Railways and MM routes between Italy and Germany (and Northern Europe) seem adequately working - considering of course the actual capacity - and they are profitably used by companies;
- Potentials of improvement of MM seem to be existing with Eastern Europe (infrastructural and reliability need to be considered), France (very difficult railway connections for goods in that Country) and Spain (through short-sea solutions). There are common issues in modal shift: lack of infrastructures and equipment’s, exceeding costs and transit times often rather long;
- There are also product specific issues (e.g. special equipment needed, short transit time, transport of hot or molten products).
A description of each proposed route is given in the final report on the pilot project. The plan for the short-term future is related with the preparation of the project brochure and the design of the strategy and action plans that will be the matter of work in the last semester of the ChemMultimodal project.

Web of Association of chemical and pharmaceutical Industry of the Slovak republic - part ChemMultimodal project:
https://zchfp.sk/?vyber=44

Web of Ministry of transport and construction of the Slovak republic - part Multimodal transport:

Press release about the project is available:
https://www.dobrenoviny.sk/c/149917/projekt-podpory-multimodalnej-dopravy-v-chemickom-priemysle-finisuje
https://www.stojizazmienku.sk/?p=813&preview=true
http://www.paperlife.sk/?p=1043
http://www.paperlife.sk/?p=1043
https://plus.google.com/108240077564907417447/posts/HPC9fYM5cxi
In the course of the Pilot Actions the Toolbox was tested and revised according to the experiences made. The final toolbox elements (D.T1.2.6 It Visualisation of transport flows, D.T1.2.7 Planning Guidelines for increasing multimodal transport, D.T1.2.8 Consulting Services for chemical companies to improve multimodal transport, D.T1.2.9 Measuring CO2 footprint of chemical logistics) are available on the project website:

https://ifsI50.mb.uni-magdeburg.de/chemmultimodal/

The results of the regional Pilot Actions (D.T2.3.5 Final implementation report Saxony-Anhalt) are available on the project website:


The comprehensive Pilot Phase report (D.T2.9.3 Evaluation report on results and achievements of pilot projects) is available on the project website: