

OUTPUT FACT SHEET

Strategies and action plans

Version 2

Project index number and acronym	CE1519 CHAIN REACTIONS
Output number and title	O.T4.2 (3/5) Transnational Innovation Agenda for Energy and Environment sector
Responsible partner (PP name and number)	Štajerski tehnološki park (STP); PP2 R-Tech GmbH (R-Tech); PP10
Project website	https://www.interreg-central.eu/Content.Node/CHAINREACTIONS.html
Delivery date	March 31, 2022

Summary description of the strategy/action plan (developed and/or implemented), explaining its main objectives and transnational added value

Within the Thematic Industrial Innovation Roadmap for the Energy and Environment Sector each of the partners identified the potential innovation actions to be implemented within the respective regions. Among them it was decided that the following action can be jointly implemented:
- Monitoring energy use in public transport e-vehicles, for the purpose of optimization (Styria/Podravje).

The city of Maribor is facing changes in city traffic ordinance, which is closing the city Centre for most traffic. However, the existing public transport lines were closely linked to the areas which are now closed to traffic. Therefore, a complete change of public transport lines is needed. At the same time, the city is implementing its agenda to remove fossil fuel vehicles from the city Centre.

This presents the city with the challenge of setting up new public transport lines and routes, equipped for e-buses. While preparing these new lines, the e-bus routes should be optimized for energy consumption, which will be achieved through monitoring of energy consumption on the lines.

The practice of route optimization and energy consumption optimization of e-buses will then be transferred to other lines and buses which will be gradually replaced by e-vehicles.

The Cluster for Mobility & Logistics in Regensburg has experience in transport and public transport and can contribute with the optimization process in various phases, also by experience gained through their own test buses from the Regensburg area and can also help refurbish the e-buses to become mobile city labs.

The action is planned to be adopted after the Strategy for Smart City Maribor is adopted (expected in summer of 2022) and after the new assembly of the city council (December 2022).

NUTS region(s) concerned by the strategy/action plan (relevant NUTS level)

NUTS regions on NUTS2 level that are concerned in the implementation of the activity are: Vzhodna Slovenija (SI03) in Slovenia, and Oberpfalz (DE23) in Germany.

Expected impact and benefits of the strategy/action plan for the concerned territories and target groups

Within the partnership of the project Chain Reaction STP and R-Tech have prepared the Transnational Innovation Agenda for the Energy and Environment sector. The main impact that will be reached is the collection of data about the energy usage of electrical busses used in the public transport. Based upon those data the optimization will be prepared in order to reduce the energy usage. For this purpose, the members of the Cluster Mobility & Logistics from Regensburg and members of the SME network in Styria will cooperate with their expertise.

The main beneficiary will be the city of Maribor, which will reduce the costs of public transport and reduce the environmental impact of the public transport system.

The action is planned to be adopted after the Strategy for Smart City Maribor is adopted (expected in summer of 2022) and after the new assembly of the city council (December 2022).

Sustainability of the developed and/or implemented strategy/action plan and its transferability to other territories and stakeholders

This activity is planned to take place in the 2022 - 2026 period, after it is adopted by the city council, following the Strategy of Smart City Maribor.

The methodology for obtaining data about energy consumption of e-buses and the guidelines for optimization are planned to be made available publicly, therefore other territories will be able to implement the same methodology achieving the optimization of e-mobility.

Apart from the public transport, the same methodology can be applied for other transports following predetermined routes, such as delivery system for delivery or supplying regular consumers (postal service, supplying shops, restaurants, hospitals, schools...) on a limited territorial unit.

While replicating the activity, other territories should consider their current situation and territorial characteristics, as well as the habits of the end users of public transport.

References to relevant deliverables and web-links If applicable, pictures or images to be provided as annex

List of relevant deliverables and outputs:

D.T4.2.1-3 Transnational innovation agenda workshop #1 organized separately by PP2 (STP) and PP10 (R-Tech)

D.T4.2.2-3 Transnational innovation agenda workshop #2 organized jointly by PP2 (STP) and PP10 (R-Tech)

D.T4.2.5 - Transnational industrial innovation agenda for Energy and Environment sector

O.T4.2-3 - Transnational Innovation Agenda for the Energy and Environment sector

The deliverables and outputs can be found under the section of DELIVERABLES on the project website:

<https://www.interreg-central.eu/Content.Node/CHAIN-REACTIONS.html>