

OUTPUT FACT SHEET

Innovation networks

Version 2

Project index number and acronym	CE1519 CHAIN REACTIONS
Output number and title	O.T4.1 (3/5) Thematic industrial innovation roadmap for bioeconomy 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/CHAIN-REACTIONS.html
Delivery date	September 29, 2021

Summary description of the established innovation network explaining its structure, functions and transnational character

Transnational network of innovations stakeholders for the Energy & Environment sector is based on the quintuple helix system, representing knowledge as the core of the system which. Respecting the quintuple helix TNIS builds its operation on five subsystems (helices): education and economic system, natural environment, media-based and culture-based public (also 'civil society'), and the political system, emphasizing the efforts on RDI, entrepreneurship and supporting public sector.

The network consists of 39 companies/organizations:

- Germany: BioPark Regensburg GmbH; City of Regensburg; Cluster Mechatronics & Automation; IHK Regensburg (Chamber of Commerce); IT Security Cluster Bavaria; Ostbayerische Technische Hochschule Regensburg (OTH); Universität Regensburg; R-Tech GmbH; Cluster Strategische Partnerschaft Sensorik e.V.; Zentrum Industrie 4.0; Continental AG; Kronos AG; Osram AG; InSys Microelectronics GmbH; Bertrand Technologie GmbH; Energieagentur Regensburg e.V.; Infineon Technologies AG; AVL GmbH; Microfuzzy GmbH; Bayernwerk AG; Das Stadtwerk Regensburg GmbH; REWAG AG & Co KG.

- Slovenia: Styrian Technology Park; Regional Development Agency for Podravje - Maribor; WCYCLE Institute Maribor; Regional Development Agency Posavje; E-Institute, Institute for Comprehensive Development Solutions; Technocentre (University of Maribor); Digital Innovation Hub (University of Maribor); TECES - Technological Centre for Electro Machines; Technology Network ICT Institute; FABLAB Network Slovenia (University of Ljubljana, Faculty of Electrical Engineering); TECOS - Slovenian Tool and Die Development Centre; SPIRIT SLOVENIA - Public Agency for Entrepreneurship, Internationalisation, Foreign Investment and Technology; Chamber of Commerce

and Industry of Štajerska; Slovenian Energy Agency; Faculty of Polymer Technology; Tushek Supercars Ltd.; EMSISO d.o.o.

NUTS region(s) concerned by the innovation network (relevant NUTS level)

NUTS regions on NUTS2 level that are involved in the implementation of the roadmap are:

Vzhodna Slovenija (SI03) in Slovenia, and

Oberpfalz (DE23) in Germany.

Expected impact and benefits of the innovation network for the concerned territories and target groups

Based on the exchange of knowledge between companies and experts in the field of energy and mobility created by the events, the aim is developing new business innovations and strategies or to further develop existing ones. Both regions have identified challenges where they can benefit from mutual learning and exchange of experience in the field of electromobility either in research or application of innovation for better management.

The suggested innovation actions that will take place are:

- New city regulative, forbidding fossil fuel delivery vehicles in city center,
- Monitoring energy use in public transport e-vehicles, for the purpose of optimization,
- Introduction of online self-weighing trash containers, for optimization of their emptying,
- Developing new system components for fuel cells,
- Development and improvement of technologies for production of fuel cells,
- New technologies for on-site generation of hydrogen.

Sustainability of the innovation network and its transferability to other territories and stakeholders

Transferability between both territories within the dual partnership will be assured by the cooperation of companies and other stakeholders within both regions.

The good practice for sharing knowledge and experience can be used in other regions that want to transfer good practices or knowledge, especially among stakeholders, according to the same model. Also, the platform that was established for transnational workshop will continue with its function within the transnational exploitation plan and the partners will sign a Memorandum for further cooperation after to project implementation period.

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

List of relevant deliverables and outputs:

D.T4.1.6_STP - workshops conducted by PP2 (STP) in collaboration with PP10 (R-Tech) for the preparation of industrial innovation roadmap in the Energy and environment sector

D.T4.1.6_R-Tech - workshops conducted by PP10 (R-Tech) in collaboration with PP2 (STP) for the preparation of industrial innovation roadmap in the Energy and environment sector

D.T4.1.9 - transnational industrial innovation roadmap for the Energy and environment

D.T4.1.17_STP - Industrial innovation workshop conducted by PP2 (STP)

D.T4.1.17_R-Tech - Industrial innovation workshop conducted by PP10 (R-Tech)

O.T4.1.3 - Thematic industrial innovation roadmap for the Energy and environment sector is presented.

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>