

Kokkola – We have a broader horizon



Kokkola Karleby

Founded 1620

22. largest city in Finland
48 027 inhabitants (02/23)

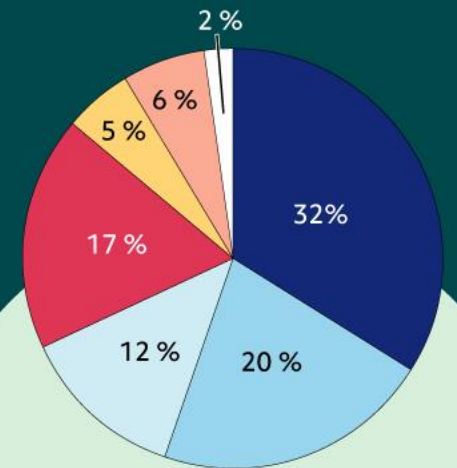
Export

4 mrd €
= 42 000 €/inhabitant

> 750 export
companies

Logistic centre

- 3 main highways,
- main railway line,
- Kokkola-Pietarsaari airport
- Port of Kokkola



Business structure

- Service
- Industry
- Public sector
- Health and social care
- Other
- Agriculture
- Unknown

Further education

Vocational upper secondary education: The Federation of Education in Central Ostrobothnia KPedu

5.300 students

9 study programs

Centria university of Applied Sciences

4.000 students on 3 campuses, 500 international students

29 BA programs, 7 MA programs

Kokkola university Consortium Chydenius Co-operation between the universities of Jyväskylä, Oulu and Vaasa universities

> 5.000 students

Fields of education and research: information technology, pedagogics, social sciences, applied chemistry, economic sciences, health sciences



Kokkola Industrial Park (KIP) Northern Europe's biggest chemical cluster.



Facts
Workers 2300
Companies 70+
Export value 1,5 billion €/year
Over 30 different commodities available.

Kokkola South – new site for green transition investments

- 136 ha, development area 80 ha
- Zoned T-KEM
- Distances:
 - Powerline 0 km
 - Port of Kokkola 9 km
 - Railroad 0 km
 - Highway 0 km
 - Kokkola-Pietarsaari Airport 8 km



NATIONAL BATTERY STRATEGY

RDI activity

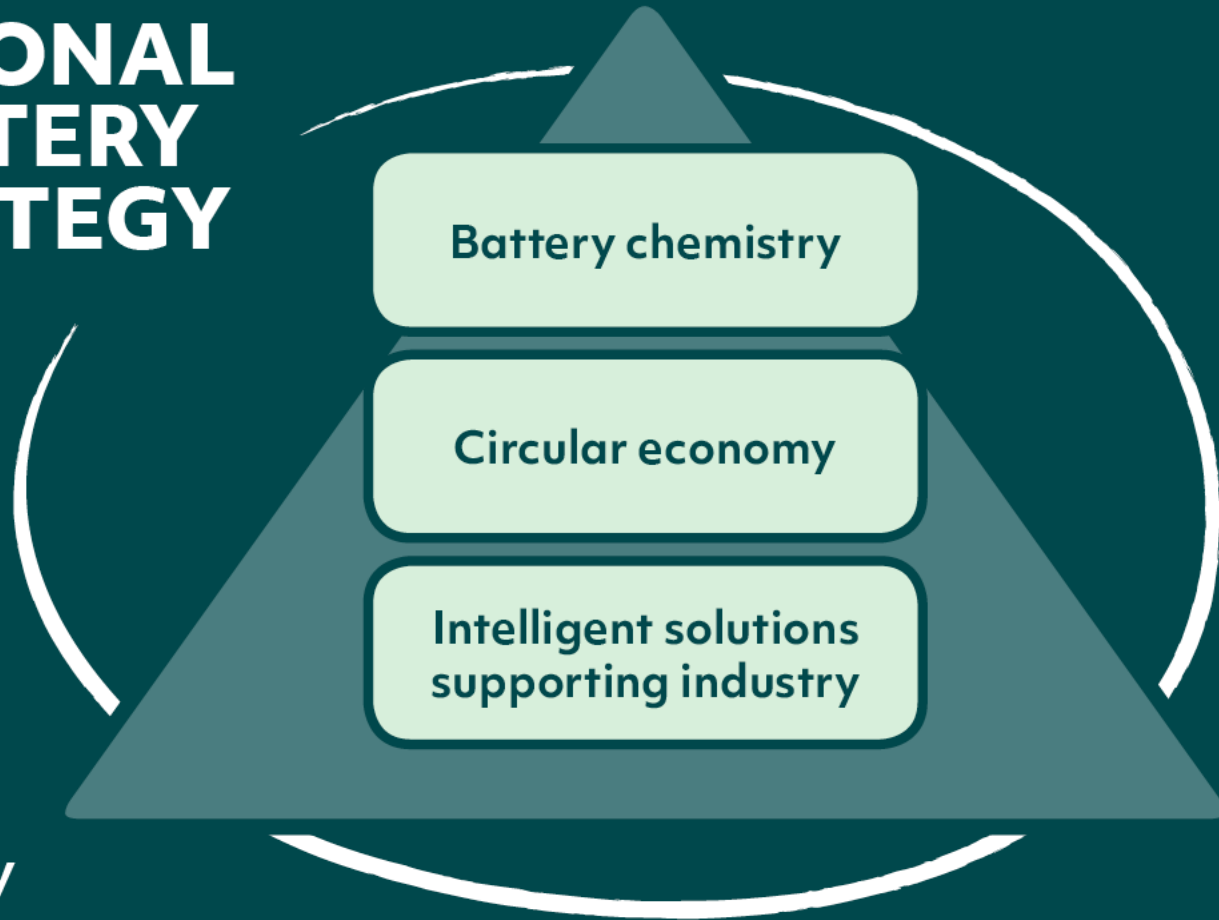
Battery chemistry

Circular economy

Intelligent solutions
supporting industry

Company

City



Projects in innovation ecosystem

BATTERY CHEMISTRY 0,54 M€

BATTValley

1.6. – 31.12.2021

28 210 €

University of Oulu

KIP Competence Center

1.3.2024 – 31.7.2025

202 168 €

University of Oulu, University of Jyväskylä

Industrial Big Data

1.9.2023 – 31.8.2026

631 631 €

University of Oulu, University of Jyväskylä

INTELLIGENT SOLUTIONS SUPPORTING INDUSTRY 0,75 M€

Smart sensor and production automation technology pre-study project for the KIP area

1.8.2021 – 28.2.2022

71 123 €

Kokkola University Consortium Chydenius, KPEDU, Centria UAS

DustSense

1.5.2024 – 30.4.2027

363 361 €

University of Jyväskylä

CIRCULAR ECONOMY 0,50 M€

HySpot

1.6.2021 – 31.3.2022

67 333 €

University of Oulu

KIP-Circular

1.1.2024 – 31.12.2026

343 898 €

Natural Resources Institute Finland, Centria UAS

Preliminary study of the hydrogen co-operation model in the Kokkola region

1.3.2024 – 28.2.2025

87 310 €

Centria UAS

KIP – Circular

(Optimization of new circular economy-based soil conditioners from KIP area and bioeconomy side streams and their testing in special plant cultivation)

- Goal: to promote the realization of a circular economy in the Kokkola industrial area by increasing the utilization of side streams in soil improvers.
- In the project, the potential of inorganic side streams as soil improvers in the area of Kokkola Industrial Park (KIP) is investigated. In fertilizer component tests, nutrients are bound from nitrogen- and/or phosphorus-rich side-streams such as farm bio-sludges by mixing them into a slow-dissolving soil conditioner with the help of inorganic side streams from industry.
- Result: guidelines to produce optimized optimized side stream based soil conditioners are created, and their suitability for cultivation of selected plant species in mineral soils will be studied. In the long term, soil improvers based on recycled materials enhance the circulation of materials and reduce the use of virgin raw materials.

Preliminary study of the hydrogen co-operation model in the Kokkola region

- The project focuses on:
 - Supporting the Green Transition
Aim: Emission reduction, achieving carbon neutrality, and halting biodiversity decline.
Emphasis on green and turquoise hydrogen.
 - Analyzing the Hydrogen Value Chain
Goal: Developing a plan to expedite the green transition and enhance regional competitiveness in the hydrogen value chain. Objective: Identify and merge existing regional expertise while creating new skills to enhance efficiency in the hydrogen value chain.
 - Establishing a Regional Collaboration Model
Goal: Foster smart solutions to support industrial circular economy. The plan includes stakeholder engagement, an agile operational model, monitoring and evaluation strategies, and risk management plans.

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