Enabling City Transformation

HALT

LAPPEENRANTA, FINLAND

Emissions domains adressed by the ECT Activity

Land use (agriculture, forestry & other land uses)

All vehicles & transport (mobile energy)

Key Terms

Carbon Handprint | Shared Mobility | Land-Based Sinks | Co-Design | Replication

Levers of Change

Data and Digitalisation | Financing and funding | Governance and policy | Learning and capabilities

Context & Challenges

Lappeenranta has made strong progress toward climate neutrality, notably by cutting emissions by over 55 % from 2007. However, residual emissions – especially from energy production, waste management, and working machinery – remain difficult and expensive to abate. HALT addresses this challenge by applying the carbon handprint methodology to identify interventions that deliver broader climate benefits beyond the city's direct operations. By integrating land-based carbon sinks, electrified mobility, and biodiversity measures, HALT offers a replicable model for other cities seeking high-impact, cost-effective climate solutions.

Objectives

- Identify and address hard-to-abate emissions
- Apply carbon handprint methodology to guide strategic interventions
- Pilot solutions in mobility and land-use sectors
- Share learnings through events and peer networks
- Develop scalable tools for efficient emission reduction

Activities & Innovations

- Mapping residual emissions and analyzing cost-efficiency
- Implementing pilots in electrified mobility and carbon sink restoration
- Planning handprint interventions using geospatial and lifecycle data
- Engaging stakeholders through workshops and collaborative networks
- Disseminating results via national and EU-level platforms

Expected Impact & Outcomes

- Scalable framework for managing residual emissions
- Increased carbon sequestration and access to clean mobility
- Broader regional impact through shared handprint interventions
- Transferable tools and methodologies for other Mission Cities

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