



LCA4Regions

Interreg Europe



European Union
European Regional
Development Fund

Action Plan: Lithuania

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- **The largest technical university in the Baltic States (started in 1922)**
- **KTU is situated in Kaunas, the second largest city of Lithuania, which is a significant center of industry, transport, science and culture**
- **App.10 000 students**
- **9 faculties, 8 research institutes**
- **Science valley „Santaka”**

https://www.youtube.com/watch?v=QAUYaPZJN3Q&ab_channel=KTU%7CKaunotechnologijosuniversitetas%7CKaunasUniversityofTechnology





Action Plan of the LCA4REGIONS project:

Improved Environment and Resource Efficiency through use of Life Cycle Instruments for Implementation of regional policies of the European Union

Kaunas University of Technology

Lithuania, 2022





Policy Instrument

OP FOR EU FUNDS' INVESTMENTS IN 2014 2020 (implementation until 2023)

PI OP 2022-2027

LOCARBO
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- **Policy Instrument**

Priority axis 5. Environment, Sustainable use of Natural Resources and adaptation to Climate Change.

- Objective:

- to minimise adverse outcomes of climate change and greenhouse effect
- to increase the efficiency of material and energy through the introduction of green technologies and circular economy

These technologies will:

- increase the **reuse of environment-friendly materials** and **secondary raw materials**
- ensure **constant lifecycle of production, supply process, and reduce negative environmental impacts** of economic activities.
- implementation of this objective is expected to **accelerate eco-innovative processes** in Lithuanian companies, as well in SMEs.

Action Plan development for Lithuania

❑ Policy instrument addressed

- ERDF Lithuania 2014-2020: Environment, Sustainable use of Natural Resources and adaptation to Climate change

❑ Policy and situation analyses

- Analyses of the National strategies and other policy instruments
- National Energy and Climate Action Plan 2021-2030 (NECP)
- Lithuania's progress strategy (LITHUANIA 2030)
- Ongoing activities, projects
- Other initiatives

❑ Stakeholders involved

- Ministry of Economy and Innovation
- Ministry of Transport
- Ministry of Environment
- Municipalities
- Regional waste management centers

❑ Lessons learned

- TLJ2 – carbon footprinting
- TLJ3 – LCA in waste management
- TLJ4 – Public Procurement



Introduction

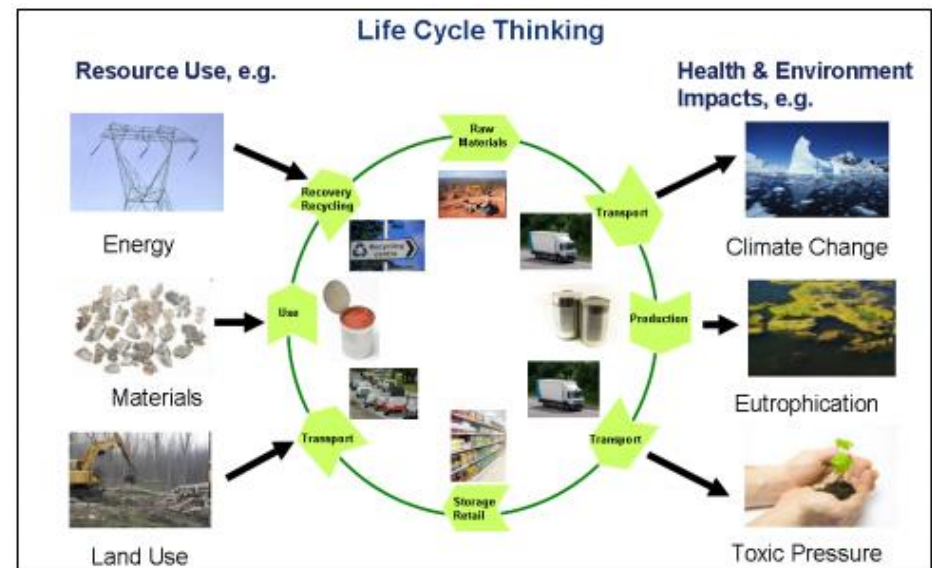
The overall objective of LCA4REGIONS:

- to improve policy delivery through the adoption of more life-cycle based implementation procedures and methods in the policy instruments related to the efficient use of natural resources in regions.

This was done through the Transnational learning and Knowledge exchange.

The LCA4Regions based on the following thematic pillars (TP):

- TP1: LCA for resource efficiency
- TP2: LCA for waste and material flow
- TP3: LCA in public procurements
- TP4: Training and capacity building
- TP5: LCA evaluation and monitoring



Action Plan actions:

ACTION 1:

Improvement of the resource efficiency and waste management at regional level by fostering the Eco innovations for the transition to Circular economy

ACTION 2:

Stimulation of the Public procurement process by the education and communication about the good practices and results

Does this lead to success?



Action 1: Improvement of the resource efficiency and waste management at regional level by fostering the Eco innovations for the transition to Circular economy

- The main benefit of the LCA4REGIONS project was identification of Good practices and involvement of the stakeholders, which helped to develop the Action plan.
- Researchers of the Kaunas University of Technology were directly involved in the analyses of circularity of Lithuanian industry and the Circular Roadmap for Lithuania development.
- The call “Eco- innovations LT+” were launched with the aim - to promote micro, small and medium-sized enterprises (SMEs) to implement technological eco-innovation in order to reduce the negative effects of climate change and the greenhouse effect. One of the criteria – the environmental impact of products or services should be assessed using the life cycle evaluation



Action 1:

Improvement of the resource efficiency and waste management at regional level by fostering the Eco innovations for the transition to Circular economy

Lessons learned

Good Practice TP2:

Redistribution of charges for environmental pollution into pro-environmental investments (PP9, Lodzkie, Poland)

Good Practice TP2:

GERLA project: Waste management in Lombardy – Life cycle assessment (PP6, Lombardia, Italy)

Good Practice TP5:

Course "Business Models in the Circular Economy" (PP2, Spain)

Players involved

- Ministry of Economy and innovation – the role of MoEI is to organise and manage process of the transition to the Circular Economy on country level.
- Industrial companies – the role to initiate the Eco innovations on company level.
- Research institutions – the role to help with the Life cycle tools application, etc.

Timeframe and Costs

2022 (continuation until 2027)

The funding source is ERDF funds

Action 2: Stimulation

of the Public procurement process by the education and communication about the good practices and results

Lessons learned

Good Practice TP3:
Management of sustainable procurements at municipal level (PP4, Finland)

Good Practice TP3: Public Procurement for Innovation (PP5, Alentejo, Portugal)

Good Practice TP3: Green public procurement in Slovenia (PP7, Slovenia)

Players involved

The main players are:

- Ministry of Economy and Innovation
- Public Procurement office,
- Ministry of Environment
- Additional institutions which could act as mediators or partners.

Timeframe and Costs

2022 (continuation until 2027)

The funding source is ERDF funds

Indicators for the monitoring of the Action Plan in the project's Phase II

Action	Indicator	Reference source of information for monitoring
<p>A.1. Improvement of the resource efficiency and waste management at regional level by fostering the Eco innovations for the transition to Circular economy</p>	<p>Number of projects</p>	<p>Quarter information by communicating with the Ministry of Economy and Innovation https://eimin.lrv.lt/en/ https://mita.lrv.lt/en/ Quarter monitoring through EU investments in Lithuania websites (http://www.esinvesticijos.lt)</p>
<p>A.2. Stimulation of the Public procurement process by the education and communication about the Good practices and results</p>	<p>Number of green procurements with LCA tools</p>	<p>Quarter information by communicating with the Ministry of Economy and Innovation, Public Procurement Office https://eimin.lrv.lt/en/ https://vpt.lrv.lt/en/</p>



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Thank you!

Questions welcome

www.interregeurope.eu/LCA4Regions