



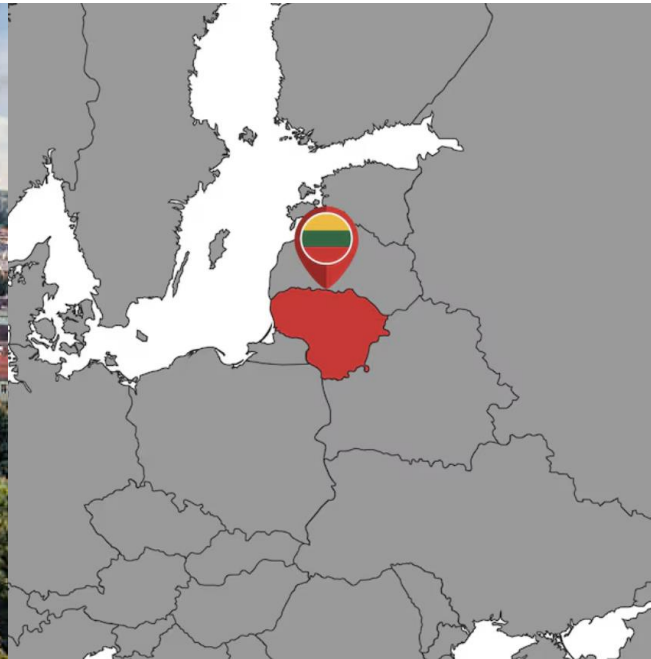
Your reliable partner in
IT science and practice

Rural Transformation through Sustainable Mobility and Low- Emission Zones in Coastal Areas

Dr. Danguole Rutkauskiene

Where are we?

Lithuania-Lietuva-Λιθουανία



Who are we?

- **BETI** - Baltic Education Technology Institute, Kaunas, Lithuania
- Founded in 2003 (22 years of experience)
- **Founders** – professionals who have been working in ICT and education technologies for more than 15 years
- Cooperation with **NADE** (National Association of Distance Education), **NSK** (National Digital Coalition)

WE ARE INTERESTED, WE ARE RESEARCHING, WE ARE MAKING



Digital Media



Adult Education



Mentoring



Digital Literacy



Entrepreneurship



Sustainable Development



ICT



Women And Technology



Scientific Conferences And Seminars



Education Of Students



Communities



Agriculture



Quality Assurance



Science Research



STEAM



Educational Technologies



Socially Vulnerable Groups



Visual Communication

National and European initiatives

- Framework
- Eureka
- Socrates
- Leonardo da Vinci
- Phare
- UNESCO
- Erasmus +
- Etc.



Projects

PROJECTS

Select the field you are interested in

ICT Adult digital literacy Entrepreneurship Socially vulnerable groups Agriculture
Women and technology STEAM Sustainable development



Overview of Kaunas Municipality's Sustainable Development

Kaunas Municipality is pioneering sustainable rural transformation.

Focus Areas:

- Preserving rural identity while implementing green solutions
- Using decentralized settlement patterns to maintain biodiversity
- Investing in renewable energy and community-led projects
- Aligning with EU sustainability goals

Unique Rural Characteristics Supporting Sustainability

Decentralized Settlement Patterns:

- Preserving traditional farmsteads supports biodiversity
- Local food systems reduce dependence on imports
- Over 8,000 hectares of green spaces in Kaunas



Babtai, a small town north of Kaunas

Unique Rural Characteristics Supporting Sustainability

Renewable Energy Investments:

- €4M invested in solar panels for public buildings
- Kaunas aims for 115 GWh of renewable energy by 2025
- Biomass & geothermal energy projects reduce CO₂ emissions



Solar power plant at Kaunas Kolegija

Unique Rural Characteristics Supporting Sustainability

Community Driven Urban-Rural Regeneration:

- Sanciai Cabbage Field Project transformed a neglected space
- 3,000+ residents involved in urban greening efforts
- Public gardening, cultural events, and sustainability workshops



Sanciai Cabbage Field

Unique Rural Characteristics Supporting Sustainability

Nordic-Inspired Environmental Practices:

- Eco-friendly urban design inspired by Scandinavian cities
- Child-friendly streets & pedestrian-friendly zones
- Green mobility: bike-sharing, electric public transport



Bike sharing system by Bolt

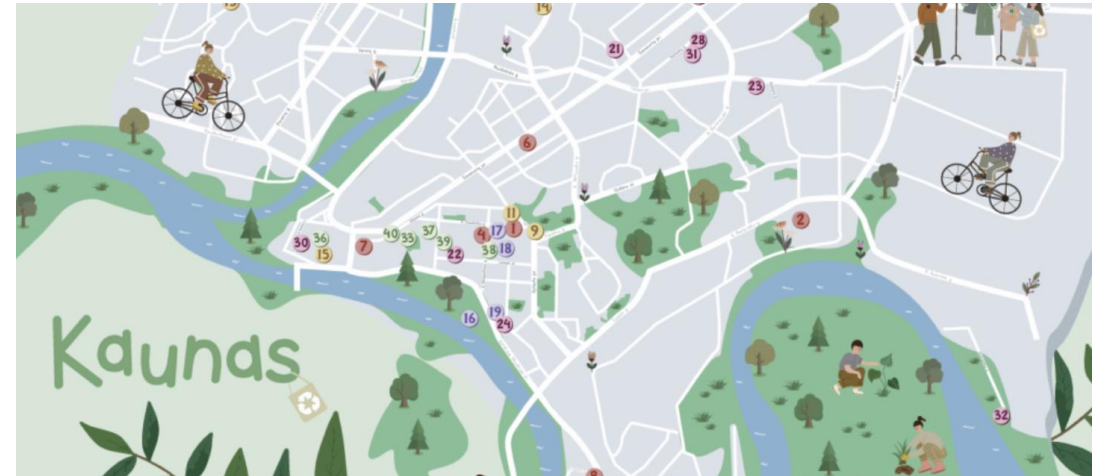
Successful Initiatives in Sustainability & Rural Transformation

Green Map of Kaunas: Digital map showcasing eco-friendly locations (zero-waste shops, cycling routes)

Kaunas District Heating Upgrade (€35M investment): Transition to biomass & solar-based heating benefiting 400,000 residents

Sustainable Mobility Plan: Bicycle lanes, pedestrian paths, expanded public transport

Eco-Friendly Europe Project (Erasmus+): Youth engagement through sustainability-focused art, discussions, and activities



Green Map of Kaunas

Challenges in Implementing Sustainable Practices

- Economic Constraints
- Urban Planning & Infrastructure
- Social Inclusion

Solutions – Partnerships, Funding, Education



Community Engagement & Education

Public Participation: 3,000+ engaged citizens in the Šančiai Cabbage Field Project

Educational Programs: Sustainability workshops & urban gardening activities

Youth Engagement:

- Eco-Friendly Europe (Erasmus+)
- Interactive sustainability games like COOLAUTUVA



Community activities in Kaunas

Collaboration with Other Municipalities & Regions

Kaunas Free Economic Zone (FEZ): Created 1,200+ green jobs, reduced CO₂ emissions by 18%

Cross-Border Smart Village Networks: Collaborations with Latvia on sustainable agriculture & tourism

Public-Private Partnerships: BaltCap Infrastructure Fund built 3 carbon-neutral schools

EU-Funded Renewable Energy Projects: €35M district heating upgrade benefiting Kaunas & Jurbarkas

Thank you for your attention!



**Baltic Institute of Educational
Technologies (BETI)**
beti@beti.lt