





Rural Revival: Empowered Communities and Sustainable Energy in a Changing Climate

March 1, 2024 - 10:00-12:00 CET - online



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Technical support

 Please address all technical questions via the chat function to Roberta D'Angiolella, IEECP or Kristina Eisfeld, Climate Alliance

Note: Today's presentation is being recorded and will be made available within two weeks



Agenda

10:00 Welcome and introduction, Dr. Kristina Eisfeld, Climate Alliance

10:10 Bridging Gaps, Building Futures for All: Upgrading the framework of energy poverty and energy efficiency in rural areas with RENOVERTY – Dimitris Papantonis, Technoeconomics of Energy Systems laboratory (TEESlab), University of Piraeus Research Center (UPRC) and Marco Peretto, Institute for European Energy and Climate Policy (IEECP)

10:40 Engaging, Connecting and Empowering rural actors – Multi Actor Approach in RURALITIES project – Gabor Mester, PEDAL Consulting

11:05 Rural development examples in Latvia Regional Hub in RuralBioUp project – Kristaps Makovskis, LSFRI Silava

11:30 Discussion and conclusions

12:00 END













Welcome and introduction

Dr. Kristina Eisfeld, Climate Alliance









Bridging Gaps, Building Futures for All: Upgrading the framework of energy poverty and energy efficiency in rural areas with RENOVERTY

Dimitris Papantonis, Technoeconomics of Energy Systems laboratory (TEESlab), University of Piraeus Research Center (UPRC)

Marco Peretto, Institute for European Energy and Climate Policy (IEECP)







Home Renovation Roadmaps to Address Energy Poverty in Vulnerable Rural Districts

Webinar Rural Revival: Empowered Communities and Sustainable Energy in a Changing Climate

1st March 2024

Dimitris Papantonis, Akis Apostoliotis

Technoeconomics of Energy Systems laboratory (**TEESlab**)- University of Piraeus Research Center (**UPRC**)

Stefan Bouzarovski, Marco Peretto

Institute for European Energy and Climate Policy Foundation (IEECP)

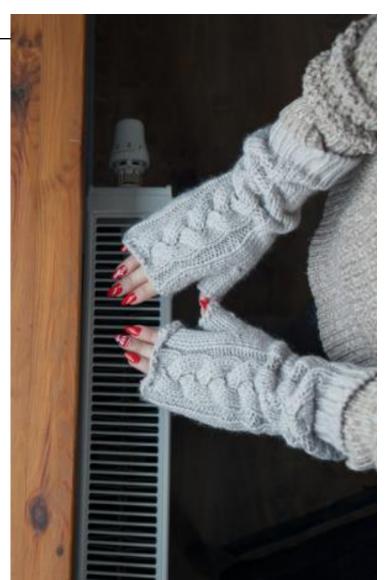


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RENOVERTY context

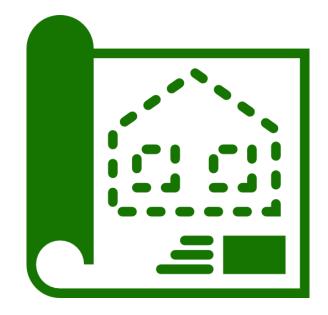
- Causes of energy poverty at the local, regional, national, and European scales have recently become clearer, yet an absence of practical and theoretical understanding of how to address the issue in rural areas exists.
- Rural areas across Central Eastern (CEE), Southern Eastern (SEE), and Southern Europe (SE) are traditionally much poorer, and more vulnerable to energy poverty.
- Despite their need for support, they are left behind in the energy transition, and practices to reduce energy poverty are lacking.





RENOVERTY Main Objective

Design a scalable series of renovation roadmaps with operating models for rural areas across CEE, SEE, and SE, while ensuring the replicability of the model in the European Union.





RENOVERTY Specific Objectives

Promote renovations to increase the energy efficiency of vulnerable rural areas across 7 regions through:

- Supporting 12 Local Action Groups (LAGs) for the creation and implementation of Rural Energy Efficiency Roadmaps (REERs).
- Empowering all (non) public actors in rural areas to become involved in the process of renovating vulnerable districts/buildings.
- Delivering a scalable operating model, to support the replicability
 of REERs and guide more public actors to renovate rural
 vulnerable districts after the project ends.



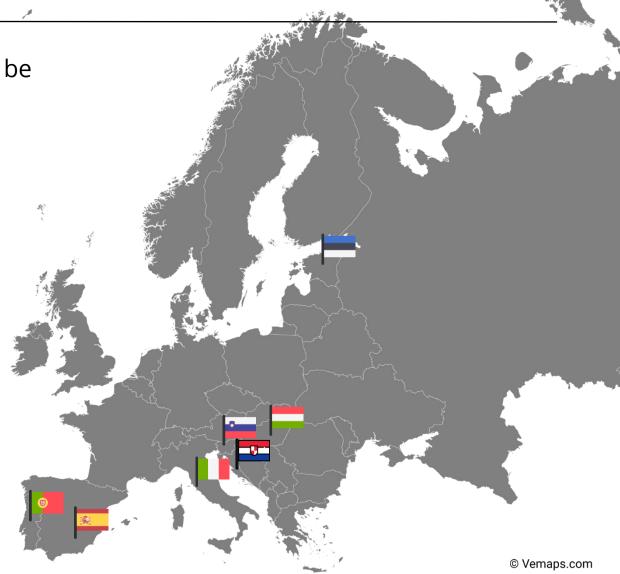


Images by freepik.com



Over the project's three years, the roadmaps will be implemented by seven pilots:

- 1. Sveta Nedelja (Croatia)
- 2. Tartu (Estonia)
- 3. Bükk-Mak & Somló-Marcalmente-Bakonyalja Leader (*Hungary*)
- 4. Zasavje (Slovenia)
- 5. Parma (*Italy*)
- 6. Coimbra (Portugal)
- 7. Osona (Spain)

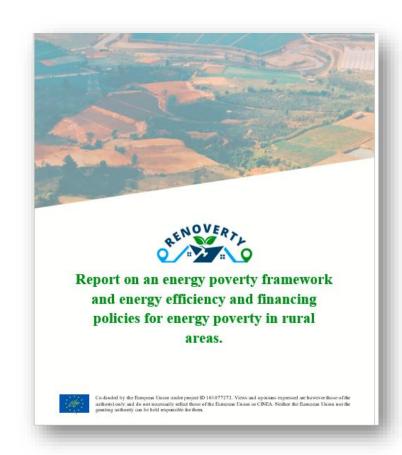


Conceptualisation: Energy Poverty and Energy Efficiency in rural areas



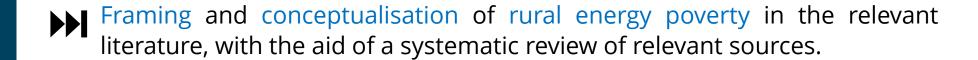
Desk-Research:

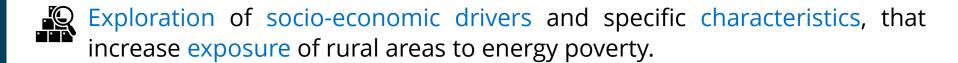
- Review of scientific and policy literature: over 70 relevant sources
- Outcomes of relevant EC-funded projects
- Recording and analysis of existing energy poverty and/or energy efficiency policies in rural areas





Conseptualisation Outcomes















Outcomes: Identified characteristics of rural areas



Specific demographic structures (more elderly people, young people aged 10 to 19, fewer people of working age)



Educational capabilities (Limited access to education, specifically tertiary education)





Lower labour capabilities (fewer job prospects, narrower variety of activities, unemployment rate)





Lack of infrastructure and services (Transportation limitation, access to grids and resources)







Literature reports evidence of increased exposure to energy poverty in rural areas while the current policy landscape does not necessarily address the particularities of rural areas



Outcomes: Energy poverty drivers in rural areas



Nature of the housing stock – challenges in renovation







Limited choice of Energy Sources



Increased exposure to energy poverty



Lower Incomes – Higher energy costs









Consumer Behaviour



Outcomes: Barriers and gaps analysis



Financial barriers





Credit access / Debt Aversion



Geographic barriers

> Geographic isolation



> Lack of expertise





- Lack of awareness / Skepticism
- ➤ Lack of time / Priorities
- ➤ Lack of access to marketing channels



Regulation barriers

- Unsupportive and inconsistent policy setting
- > Lack of strong sub-national territorial components in policy making









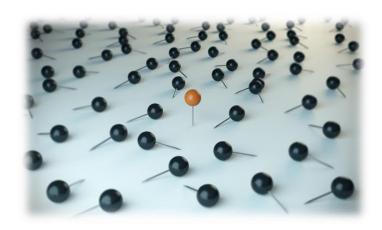




25 policies from European countries were gathered and analysed:

- ✓ Most policies are implemented at the national level.
- ✓ Mention in rural areas no special requirements
- ✓ Policies started after 2013.
- ✓ Lack of monitoring/evaluation
- ✓ Lack of relevant policies in Southern (SE), and Southern Eastern (SEE) Europe







Assessment of stakeholders' viewpoints and needs

- Survey of relevant stakeholders across Europe
- ➤ Key insights on existing needs, barriers, and proposed solutions for energy poverty and energy efficiency in rural contexts
- ➤ 130 stakeholders/experts from the fields of academia, policymaking, private and social sectors



Outcomes: Assessment of Energy Poverty Drivers in rural areas



Most important Drivers of energy poverty (EU level):

- Poor Public Transport
- Underinvestment in rural areas
- Geographical remoteness
- Demographic structure
- Poor housing quality

Southern Eastern Europe:

- Poor Public Transport
- Geographical remoteness



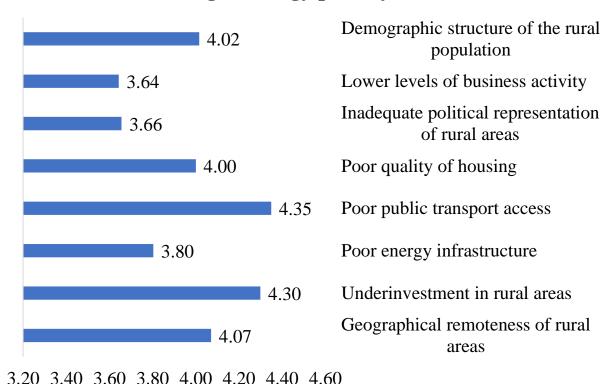


Central Eastern Europe:

Southern Europe:

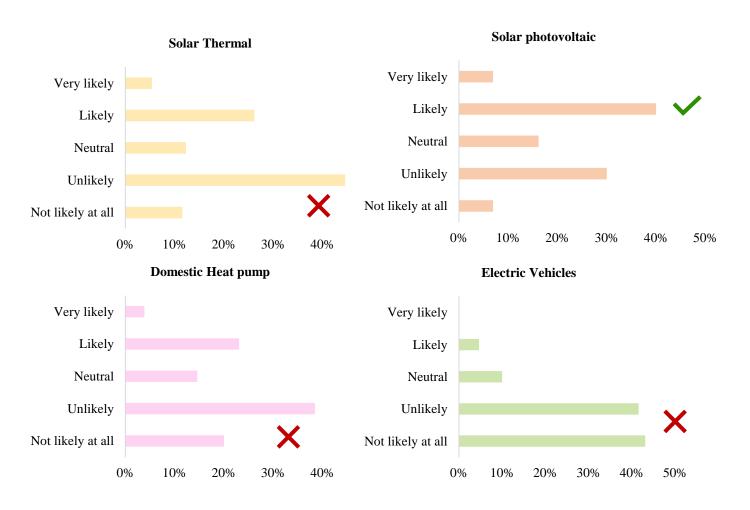
- Poor housing quality
- Poor Public Transport
- Underinvestment in rural areas

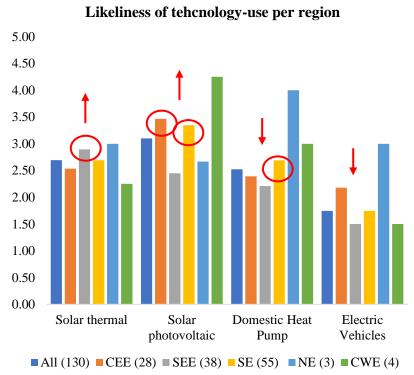
Ranking of energy poverty drivers





Outcomes: Utilisation of renewable energy/ electrification technologies in rural areas

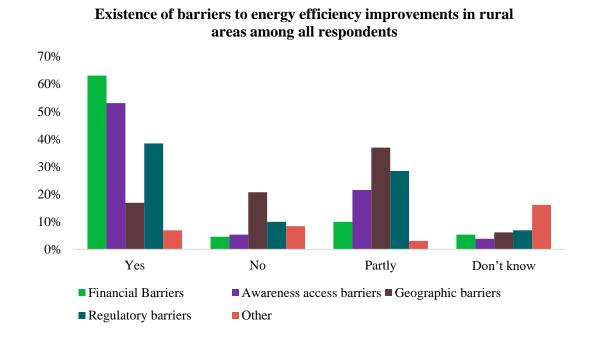




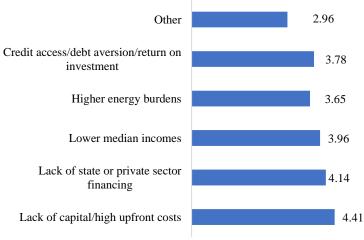




Financial barriers the most **prominent ones**, followed by **awareness/access**, **regulatory** barriers, and **geographical**.







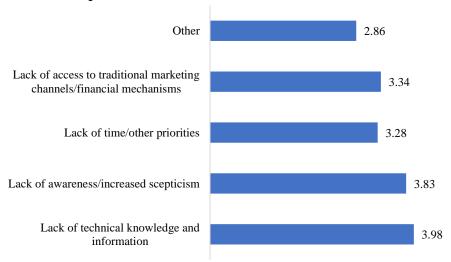
The most prominent financial barriers

- Lack of capital
- High upfront costs





Importance of Awareness Access Barriers



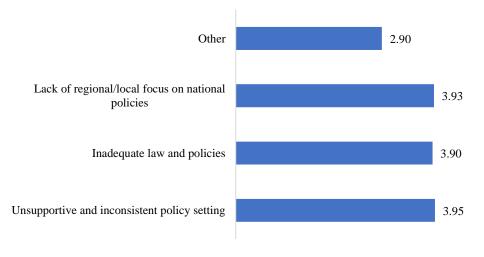
Most important awareness/access barriers:

- lack of technical information,
- skepticism of rural households.

Most important regulatory barrier:

Unsupportive and inconsistent policy setting.

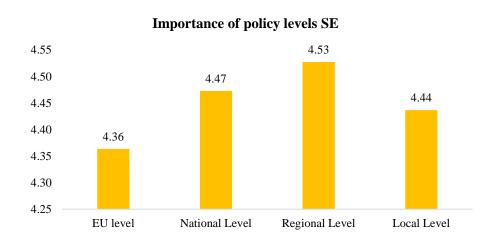
Importance of Regulatory Barriers



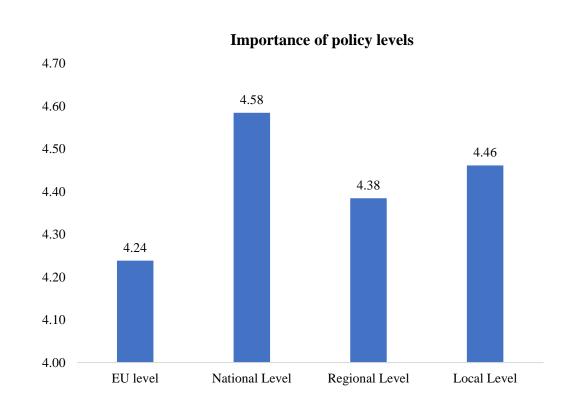


Outcomes: Importance of policy levels

Most of the respondents consider policy at the national level to be the most impactful for the alleviation of energy poverty in rural areas.



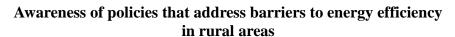


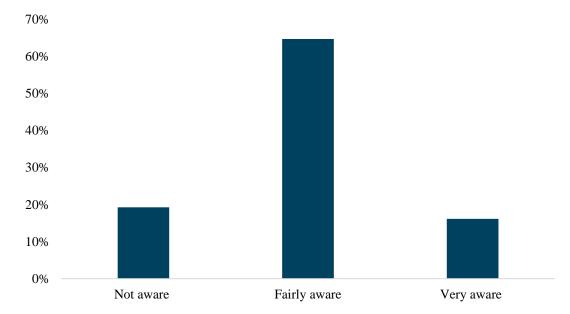




Outcomes: Policy awareness in rural contexts

Most of the respondents declared themselves as "fairly aware" of rural energy efficiency policies.







However, when asked to name specific policies in their contexts, they mentioned general EU strategies and directives.









EU-level





Financial mechanisms and support

Development of new funding mechanisms and financial support

Make projects feasible and sustainable in rural settings



Introduction of policy changes in the existing legal and policy framework Setting targets for energy efficiency and energy poverty reduction in rural areas

building

- Education and Large-scale outreach efforts such as workshops, training programmes and public campaigns
 - Enhance awareness and understanding of energy poverty issues



Stakeholder engagement and v collaboration

with all relevant stakeholders, including governments, communities, and institutions

Collectively address energy poverty





National level







Financial support and incentives

Dedicated funding for rural regions
Tax incentives and subsidies for energyefficient upgrades

- Access to information, training, and financing
- / Implement nationwide campaigns, educational programs, and community outreach efforts
- ✓ Disseminate information about available resources, technologies, and energy-efficient practices



Policy transformation

Propose plans and strategies that consider the unique challenges of rural areas Create subsidies, monitoring mechanisms, and legislation that encourages energy efficiency improvements

Rural Energy Poverty Alleviation: What can governmental bodies do more? (3/4)



Regional level



Empowerment and customised strategies

Extend beyond urbanoriented strategies enabling the development of unique solutions for rural challenges Regional-level education and awareness campaigns

Financial support and accessibility

Long-term funding, innovative financing tools
Funding directed at areas with higher energy poverty prevalence



Inclusive infrastructure and innovation



Collaboration and advocacy

- Effective collaboration and cooperation between local, national, and European entities
- Advocacy for changes at higher levels, including harmonising regulations and access to incentives

- Initiatives include enhancing public transportation connectivity, upgrading energy systems, and promoting sustainable building practices
- ✓ Transition from dormitory villages to vibrant, self-sufficient rural communities



Data-driven planning and accountability

Creation of dedicated departments to oversee local government activities can ensure accountability in implementing plans Facilitation collaboration between various stakeholders in data sharing





Local level



Financial support and funding allocation

Allocate funds for retrofitting buildings, implementing energysaving technologies, and supporting energy-poor households Emphasis on the targeted allocation of funds based on the specific needs of different regions



Co-ordination and collaboration with higher levels of government



Local policy development

Work closely with authorities at other governance scales to overcome structural barriers and adapt policies

✓ Act as intermediaries to communicate the specific needs of their areas

- ✓ Prioritise the energy challenges faced by rural regions
- ✓ Facilitate access to technical expertise, and develop specialised plans
- Provide support to the most remote and vulnerable communities

Local engagement and participation

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Co-produce policies with local stakeholders Encourage rural residents to participate in local energy projects, and establish local energy communities





Thank you.

For more info, follow our hashtag, visit our website or contact us:



#RENOVERTY



https://ieecp.org/projects/renoverty/



papantonis@unipi.gr







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Engaging, Connecting and Empowering rural actors – Multi Actor Approach in RURALITIES project

Gabor Mester, PEDAL Consulting

Engaging, Connecting and Empowering rural actors

Multi Actor Approach in RURALITIES project.

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PEDAL Consulting

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Rural Revival: Empowered Communities and Sustainable Energy in a Changing Climate – Online
Webinar

1 March 2023

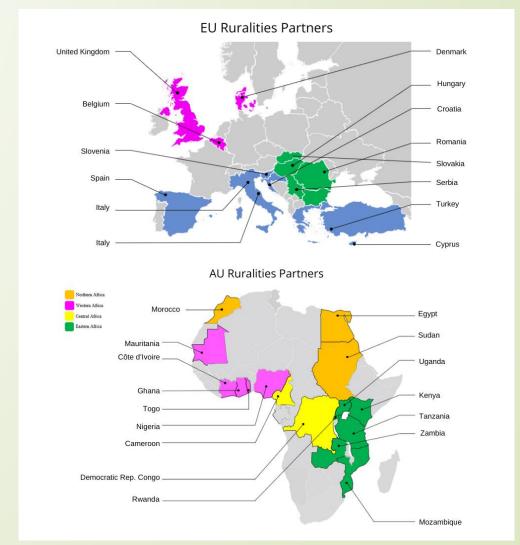






Introduction to RURALITIES

- HE coordination and support action
- 5 Years long project (M17)
- 52 partners in the consortium
- Engage, connect and empower rural actors focusing on collaboration and innovation
- Creating learning HUBs Climate-smart Expertise and Training centers in 6 pilots
- AU EU collaboration







MAP OF PILOT AREAS SIMSES (Simplified Rural Socioecological Systems)

- Marche, Italy
- Veneto, Italy
- Highlands and Islands, Scotland
- Posavje, Slovenia
- Asturias, Spain
- Iasi, Romania



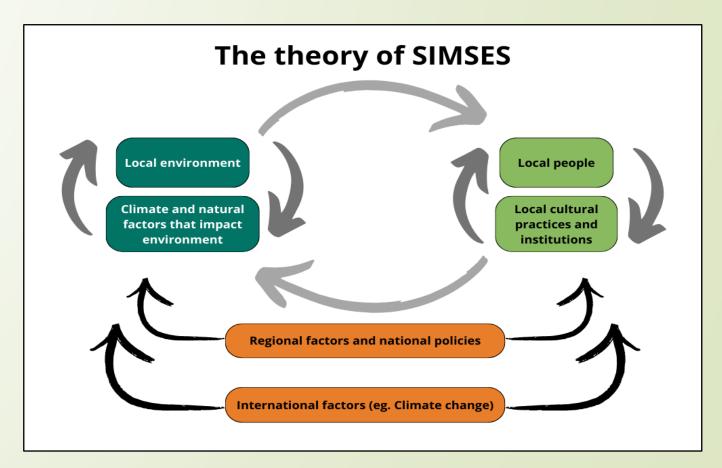






Holistic approach approach

- SIMSES (Simplified Rural Socio-ecological Systems)
- Citizen science
- System thinking methodology
- Living Lab methodology









RURALITIES Multi-point learning framework

- Bringing together diverse stakeholders
- To collaboratively create solutions that are relevant
- Directly applicable to the challenges faced by end-users

multi-actors



Citizens
Science, research
Policy-makers
Social partners
Businesses...

multi-disciplines



Science
Engineering
Technology
SSH
Digital sphere...

multi-systems



Schooling sphere
Apprenticeship
Learning mobility
Living Labs
Citizen Science...

multi-scale



Individual
Group
Community
Inter-community
Clusters...

multi-sectors



Agriculture
Agrifood
Forestry
Tourism
Culture...

multi-level

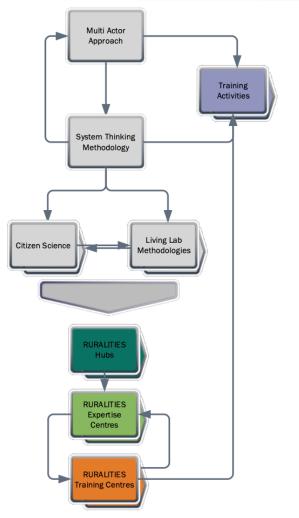


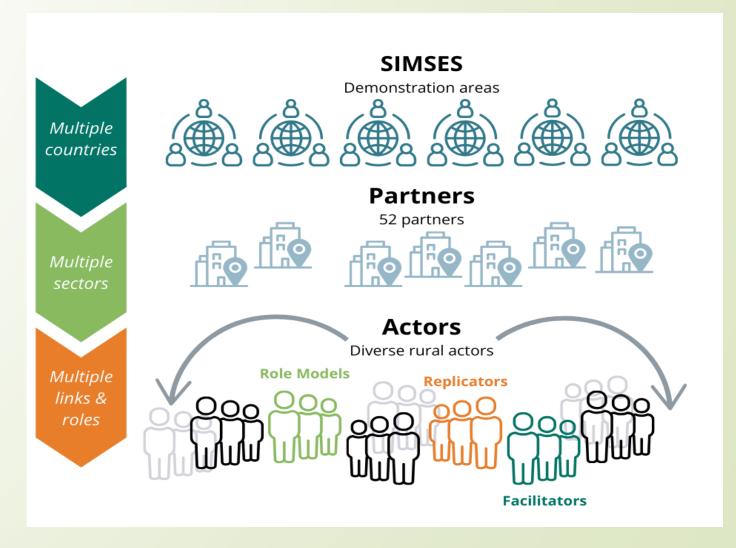
Local Regional National Pan-European International











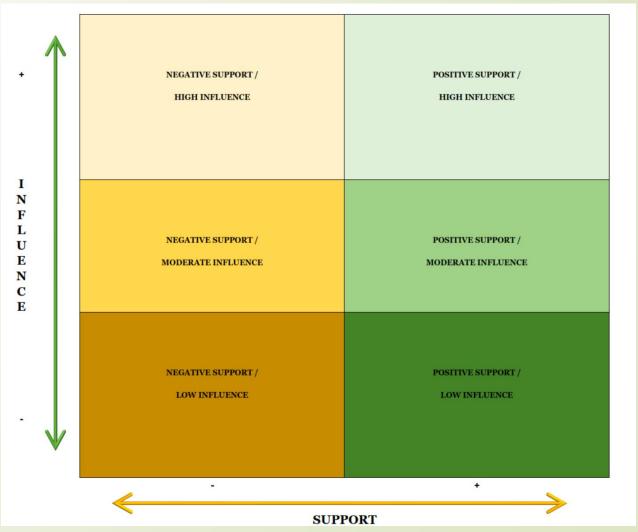






Influence and Support matrix

- Currently we apply the Influence and Support Matrix.
- 100 + role models and replicators identified by end of March





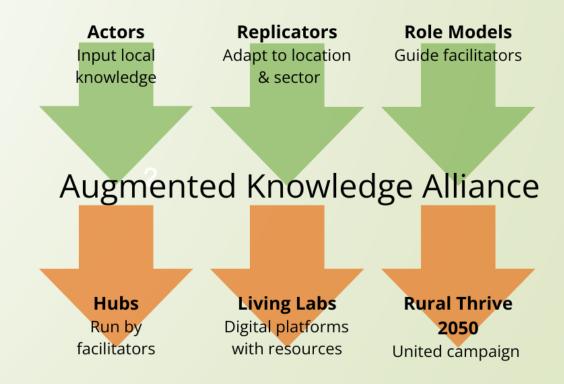




RURALITIES - CLIMATE SMART, ECOSYSTEM-ENHANCING AND KNOWLEDGE-BASED RURAL EXPERTISE AND TRAINING CENTRES

How can you get involved?

- Overlap in pilot areas or countries
- Living Lab approach
- Multi actor approach









RURALITIES - CLIMATE SMART, ECOSYSTEM-ENHANCING AND KNOWLEDGE-BASED RURAL EXPERTISE AND TRAINING CENTRES

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Rural development examples in Latvia Regional Hub in RuralBioUp project

Kristaps Makovskis, LSFRI Silava





Rural development examples in Latvia Regional Hub in RuralBioUp project

Kristaps Makovskis (LSFRI Silava; Latvia HUB)

Rural Revival: Empowered Communities and Sustainable Energy in a Changing Climate, 01.03.2024.

Latvian State Forest Research Institute "Silava"







Latvian State Forest Research Institute "Silava" is the main center of forest science in Latvia and leader of scientific ideas in forestry and the related research and development in the country.

The Latvian Institute of Forestry Problems was established in 1946.

Latvian State Forest Research Institute "Silava"

SILAVA

Research areas:

- Forest ecology and silviculture
- Forest entomology
- Forest operations and energy
- Forest phytopathology and mycology
- Forest products processing
- Forest regeneration and establishment
- Forest tree breeding and climate change
- Genetic Resource Centre
- National Forest Inventory
- Other areas
- Wildlife management















RuralBioUp - Overview



- Project Acronym: RuralBioUp
- Project Name: Empowering EU Rural Regions to scale-Up and adopt small-scale Bio-based solutions: the transition towards a sustainable, regenerative, inclusive, and just circular bioeconomy
- Type of action: Horizon Europe Coordination and Support Action
- **DURATION:** 36 months | October 2022- September 2025



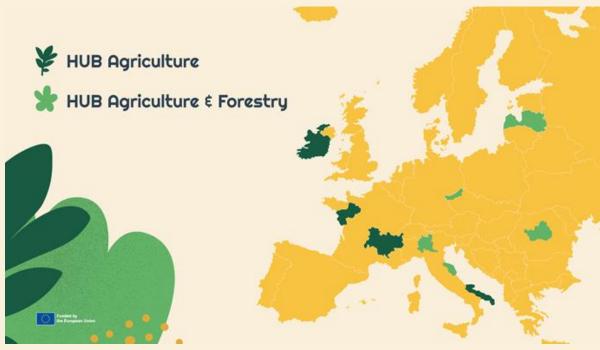
RuralBioUp - consortium

*

12 partners from 9 EU countries



RuralBioUp Regional Hubs



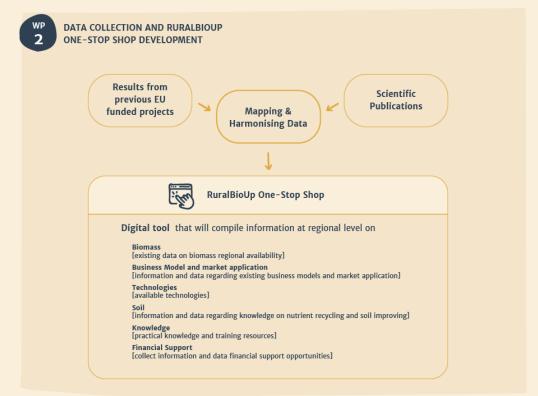
Italy - Lombardy, Marche, Apulia
Czechia - Charles Spa
France - Pays La Loire, Auvergne-Rhône-Alpes
Latvia – The Hub region is going to be at the National level
Ireland - The Hub region is going to be at the National level
Romania - Centru Region

RuralBioUp - Methodology in the nutshell





Project Management









DISSEMINATION, EXPLOITATION AND COMMUNICATION ACTIVITIES



Liaise with networks, initiatives and other projects



Dissemination and communication activities



Exploitation Pathway



Dialogue with experts



Regional HUB

Multi-actor platform of 30 people co-operating to identify and implement activities needed to adopt local bio-based solutions

Regional Hubs Activities

Stage 1

Oct. 2022- Jul. 2023



Empowering the Regions

- Mapping Stakeholders in each Regional Hub
- 2 traininings for Regional Facilitators & Hub Contact Points
- Collecting data to develop RuralBioUp One-stop shop

Stage 2

Jul. 2023- Jan. 2024



Establishing the Regional Hubs

- Kick off 9 Regional Hubs
- Choose at least 2 value chains per Regional Hub
- Define an action plan in each Regional Hub (including coaching/training needs)

Stage 3

Nov. 2023 - Jan. 2024



Implementing the Action Plans

- Regional hub & follower regions exchanges
- Networking
- Coaching & training
- 2 Regional Hubs meetings
- Cross-learning meetings

 (2 mobilization and mutual learning workshops)
- Study visits

Stage 4

Jul. 2025 - Sept.2025



Promoting the Regional Hubs Long-Term Sustainability

- Elaborate manual for replication recommendations & actionable items
- Define Regional Hubs long-term sustainability strategy

Local stakeholders:



- Farmers
- Foresters
- Clusters
- Business support organisations
- Policymakers
- Civil society organisations
- Investors
- EEN local contact point, etc.

Regional Facilitator:

project partner who oversees and coordinates the hub activities

Hub Contact Point:

representatives of the region collaborating in the Hubs' activities and identified as the main actor to continue the RuralBioUp model after the project's end



Value chain in RuralBioUp project



The production of renewable biological resources and the conversion of these resources and waste streams into value-added products such as food, feed, bioproducts and bioenergy.

Wood ash+ peat + biochar = pellets for soil improvement











(Nr. 1.1.1.1/19/A/112)





Pellets for soil improvement – Rural Development example



Waste management

Wood ash

- Municipal boiler houses
- Manufacturing companies

Peat

Peat companies (bad quality peat)

Biochar

- Small fraction charcoal





Rural business

Making pellets

- Small family company
- Side business out of season (farmers)

Application to the soil

- Farmers

Tree growing, planting, management

- Farmers
- Nurseries
- Foresters



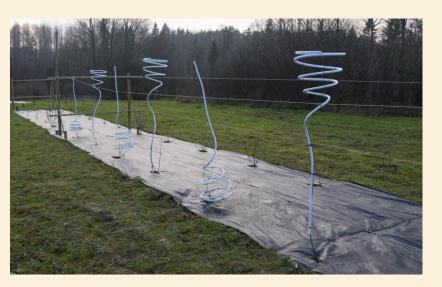
Rural economy

Tree plantations

- Woodchips energy
- Timber construction materials
- Different tree products furniture

Ecosystem services

- Bees in willow plantations
- Shelter for animals



Examples for rural development (other projects) – tree wool



Resource management

Laying trees in forest (mostly for free)

- Foresters
- Others



Rural business

Collecting tree bark

- Foresters
- Farmers (in winter)
- Others

Fiber formation

- Small independent company
- Side business out of season (winter)

Making clothes or other products

- Small independent company
- Side business out of season (winter)





Rural economy

Selling different products

- Clothes
- Design elements
- Branding local name

Tourism

- Museum
- Workshops







Examples for rural development (other projects) – wool ribbons



Waste management

Sheep wool

- Farmers (wool producers)
- Farmers (pasture)
- Meet producers





Rural business

Doing logistic

- Collecting wool for ribbons

Making wool ribbons

- Small independent company
- Side business out of season (winter)

Application to the trees

- Farmers (out of season)
- Small family company
- Foresters to private forests

Added value compared to usual tree protection

Rural economy

Wood products

- Woodchips energy
- Timber construction materials







Our idea behind Latvia HUB for rural development



- We are research institute we try to add some scientific edge or different approach to rural development,
- We try to use forest or agriculture side products what others are not using (land, waste, technologies)
- We try to establish long value chains with many beneficiaries
- We try to mix forest with agriculture or other industries (wool + tree protection, peat + fertilization, tree + clothes)
- We try to add value to the new products by making the value chain longer by involving more people from local communities (wool protection vs traditional tree protection)









Thank You!

Contact us

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Kristaps Makovskis

Kristaps.Makovskis@silava.lv

Our Consortium



































Panel discussion



Kristina Eisfeld, Climate Alliance



Dimitris Papantonis, TEESlab



Stefan Bouzarovski, IEECP



Gabor Mester, PEDAL Consulting



Kristaps Makovskis, LSFRI Silava

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