

**ENRD Thematic Group on 'Mainstreaming the Bioeconomy'**

# **Awareness raising approaches on rural bioeconomy**

**3<sup>rd</sup> TG meeting - 15 May 2019  
ENRD Contact Point**



**#Bioeconomy @ENRD**



# Bioeconomy as a pathway for rural development

*Sustainable and inclusive bioeconomy value chains can promote rural employment and economic growth, while preserving eco-systems*

## Rural opportunities in the shift to fossil free economy

### Available instruments to support sustainable rural bioeconomy value chains:

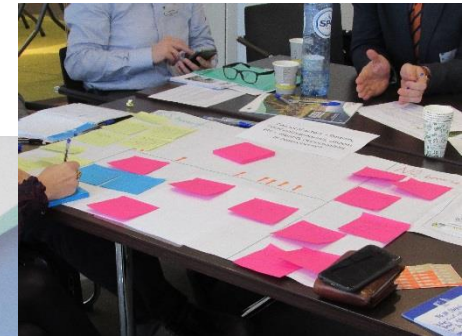
- Rural Development Programmes (CAP/EAFRD)
- Other European Structural Investment Funds (ERDF, EMFF, ESF...)
- Complementary programmes (Horizon2020, LIFE...)

### → How to best use them?

- *A set of recommendations as TG outcome*

## Meetings

- October 2018:  
Bioeconomy strategies in Europe; priorities for the TG
- January 2019:  
Local and regional approaches to bioeconomy; clusters
- February 2019:  
Videoconference on monitoring the bioeconomy



## Knowledge sharing

- [Rural Bioeconomy Portal](#)
- 31 collected case studies
- 2 Twitter chats

<b>Learn more</b> 	<b>Get inspired</b> 	<b>Connect with others</b> 
<b>News</b> 	<b>Events</b> 	<b>Share your experience</b> 

**European Network for Rural Development**

**Bioeconomy Case Study**

**Biorefinery - a small-scale farm demonstration project**

**COUNTRY**  
Ireland

**PROJECT PROMOTER**  
MISA - Co-operation (EP-AGRI)

**FUNDING**  
RDP Funding, EUR 940 498

**DURATION**  
2019

**CONTRIBUTION TO**

- generating environmental benefits
- mitigating climate change
- increasing efficiency of biomass resource use
- creating value through improved production methods or processing technology
- creating value through increased cooperation among value chain actors

**KEYWORDS**  
Pilot / demonstration project, cooperation, adding value, bio-based waste, residues or by-products

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[www.bioeconomy.eu/biorefinery](http://www.bioeconomy.eu/biorefinery)

**RESULTS**

- ✓ A 40% increase in usable product from the pilot process
- ✓ A reduction in reported and observed emissions from the dairy sector, by whilst simultaneously reducing the

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**Bioeconomy Case Study**

**Community manure**

**COUNTRY**  
Romania

**PROJECT PROMOTER**  
Project Management Unit - World Bank / Ministry of Waters and Forests

**FUNDING**  
National Funds, EUR 100 000 000

**DURATION**  
2000

**CONTRIBUTION TO**

- generating environmental benefits
- creating value through improved production methods or processing technology
- creating value through increased cooperation among value chain actors

**KEYWORDS**  
Adding value, agriculture, bio-based waste, by-products, cooperation, manure management, Nitrate directive

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**The initiative**

Small-scale farming is very common in Romania, but there is limited capacity for manure up to enable small farmers to carry out the Nitrate Directive.

To this objective, communal manure pits among others, tractors, trailers, a manure tanker, initially, concrete notes, feasibility study funded by a World Bank loan and the municipality. Farmers may request for site and composted at the platform before

**Sustainability**

A monitoring and reporting system, measuring captured nitrogen and its compliance. The desired outcome is to rivers, lakes and the Black Sea.

The platforms are operated by the manure if the activities should be subsidised or linked to the Nitrates directive and the

**Lessons learnt and recommendations**

Such initiatives require a combination of investments should be complemented awareness raising and training that stakeholders.

Monitoring and evaluation are also essential measures should be used to adapt and

**RESULTS**

- ✓ The initiative contributes to high standards set out in the Nitrate Directive, as a short-term producers, short chain products
- ✓ Achieved: pollution mitigation
- ✓ Expected: pollution mitigation
- ✓ 300 individuals directly employed

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**Bioeconomy Case Study**

**VegMedCabras - Mediterranean Shrubs: natural anthelmintics in the diet selected by grazing goats**

**COUNTRY**  
Portugal

**PROJECT PROMOTER**  
National Institute of Agricultural and Veterinary Research (INIAV)

**FUNDING**  
ERDF Funds, EUR 2 703 070; National Funds, EUR 47 701

**DURATION**  
2015 - 2023

**CONTRIBUTION TO**

- increasing efficiency of biomass resource use
- creating value through improved production methods or processing technology
- creating value through increased cooperation among value chain actors

**KEYWORDS**  
Adding value, animal husbandry, biomass, ecosystem services

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**The initiative**

This initiative was set up in order to study the vegetation (shrub) selected by goats while grazing and investigate its nutritional value and natural anthelmintic potential. This work will improve the efficiency of goat grazing production systems, ensure the sustainability of goat farms and contribute to reducing forest fires through natural shrub management systems.

**RESULTS**

- ✓ This initiative will provide valuable information about the ecosystem services provided by grazing goats, such as the control of shrub vegetation, which provides a natural and sustainable alternative to the mechanical means of forest fire prevention that are currently in use
- ✓ The initiative will also provide information about the nutritional value of shrubs selected by goats. This knowledge will help to improve the sustainability of goat production systems by addressing future both nutritive and health requirements according to the goat's physiology
- ✓ 10 individuals directly employed in/by the initiative.

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**Bioeconomy Case Study**

**Biosyngas production from torrefied hay**

**COUNTRY**  
Estonia

**PROJECT PROMOTER**  
BPM TS LLC

**FUNDING**  
RDP Funding, EUR 128 174; Private funds, EUR 40 140

**RDP MEASURE**  
MISA - Co-operation (EP-AGRI)

**DURATION**  
2018 - on-going

**CONTRIBUTION TO**

- generating environmental benefits
- mitigating climate change
- increasing efficiency of biomass resource use
- creating value through improved production methods or processing technology
- setting up a pilot project to commercial scale

**KEYWORDS**  
Adding value, biomass, bioenergy, innovation, cooperation

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**The initiative**

Tens of thousands of tons of hay are wasted in Estonia every year. This EP-AGRI project was set up in order to exploit this unused resource. The project aims to test the process of hay torrefaction in Super Heated Steam (SHS) and develop a technology for the conversion of low-quality hay into solid feedstock for biorefinery and chemical, or agricultural use. The project will offer farmers the option of adding value to hay and diversifying their production.

The project is partly financed by the Estonian Agricultural Register and Information Board (ARIB). The main technological advisor and expert is BPM TS LLC. Testing and developing the technology for hay torrefaction and the separation of volatile by-products is carried out by Fraunhofer IGB. Torrefied hay gasification and analysis is conducted by the Lithuanian Energy Institute. Finally, the analysis and tests to improve the solid fraction of biomass after the hay torrefaction is carried out by Estonian University of Life Sciences.

The first stage of the project was successful and proved the potential of the idea in the laboratory. The project partners are now planning to start the next phase of the technology development. New research institutes, engineering companies and experts will join from other EU countries to help oversee the development of the technology for volatiles separation testing and the designs for a pilot plant.

**Environmental sustainability**

Through this project, a commercial technology for agricultural SMEs will be developed based on the idea of using local raw materials, minimising the transportation of water and adding value to low-quality raw materials. The project will create non-traditional agricultural professions in rural areas.

**Lessons learnt & recommendations**

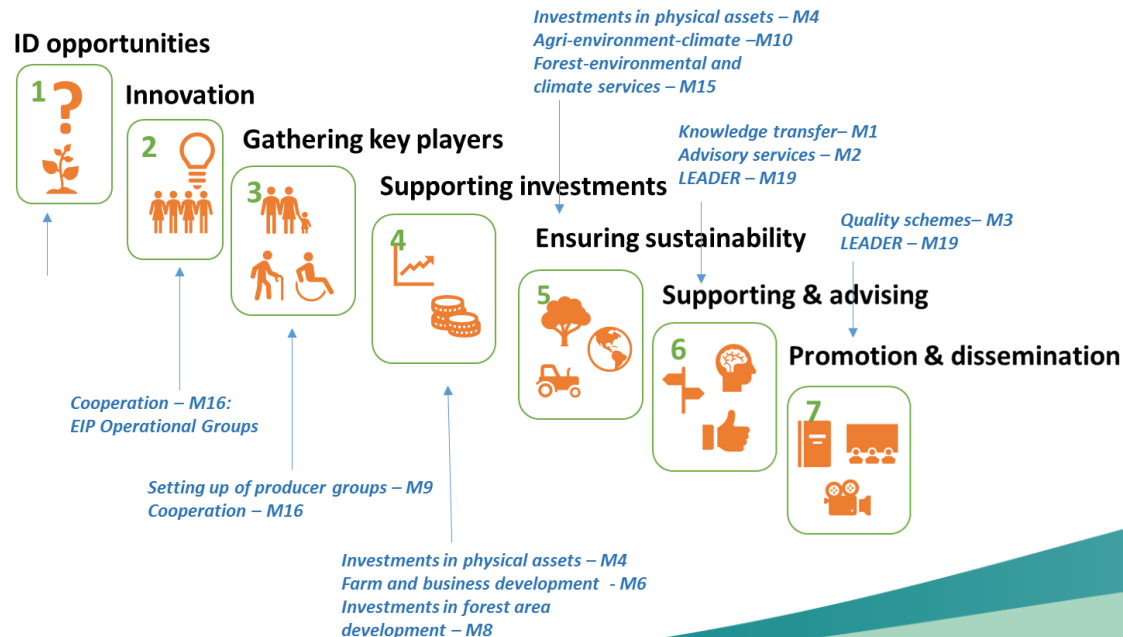
It is difficult to find long-term private funding for projects and public funding may involve political risks.

**RESULTS**

- ✓ The project is not yet finished, but there is great potential for environmental and economic benefits.
- ✓ 19 individuals are directly employed in/by the initiative and 30 are indirectly employed (ie. in spin-offs of the initiative, suppliers, transport).

## Research

- Scoping – bioeconomy in the EU, SDGs, and in rural development
- Analysis on RDPs and synergetic instruments: Country interviews, literature review, inputs from TG discussions, collected cases
- Draft recommendations



## Agenda - 15 May 2019

09.15 – 09.30 Welcome, updates of TG work plan and introduction to the day


### **Session 1: Sharing awareness raising approaches to engage rural actors in bioeconomy**

09.30 – 10.25 Presentations

 10.25 – 10.50 *Coffee break*

10.50 – 11.10 Presentations continued

11.10 – 12.30 Group discussions introduced by selected examples and wrap-up

 12.30 – 13.30 *Networking lunch*

### **Session 2: Recommendations on the use of RDPs and other instruments to promote rural bioeconomy**

13.30 – 15.00 Presentation and discussion on draft recommendations

 15.00 – 15.30 *Coffee break*

15.30 – 15.45 Wrap-up discussion in plenary

15.45 – 16.15 Joint awareness raising action on rural bioeconomy

16.15 – 16.30 Next steps and closing

## Communications: choose your message

What is the Bioeconomy? How do I know if I'm part of it? @ENRD\_CP's work on Mainstreaming the #Bioeconomy today focused on awareness raising

Shift to sustainable bio-based economy can deliver jobs and income to rural areas. Mapping tools to promote rural #Bioeconomy with #ENRD\_CP

Found out today about @ENRD\_CP's Rural #Bioeconomy Portal [bit.ly/Bioeconomy-Portal](https://bit.ly/Bioeconomy-Portal) – projects, contacts and literature in one place!

# Fit your message for social media

- #Bioeconomy
- @ENRD\_CP + @ your organisation, project...
- [bit.ly/Bioeconomy-Portal](http://bit.ly/Bioeconomy-Portal)





## What else can you do?

- Your organisation's newsletter?
  - .....web page?
  - .....publications?
  - .... communications officer?
  - Other organisations and networks you are linked to?
  - Upcoming events?
- Define at least one follow-up action that you will do after the meeting!

## Final activities and outcomes

- Final recommendations and analysis – June 2019
- **Twitter chat 18 June on the recommendations**
- [EU Rural Review](#) on Bioeconomy – June/July
- [EAFRD Projects Brochure](#) on Bioeconomy – June/July
- 2 short videoclips on what rural bioeconomy can be
- All outputs gathered in [ENRD Rural Bioeconomy Portal](#) – **please disseminate them!**
- Seminar '[Bioeconomy: Seizing the opportunity for rural Europe](#)' – 3 July 2019, Brussels

## Next steps after July 2019

- Thematic Group 'Bioeconomy and Climate Action' is in consideration
- Continued dissemination of TG outcomes and recommendations on the use of RDPs to promote bioeconomy
- Considered: stronger focus on bioeconomy as environmental services and climate action

# THANK YOU!

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'Mainstreaming the Bioeconomy'

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