



# Good Practices & Action Plan for Boosting Bio-based Circular Economy

**BIOREGIO Project** 

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REDUCES 1st Interregional meeting and project kick-off, Turku 19.11.2019









Regional circular economy models and best available technologies for biological streams







"Boosting Bio-based Circular Economy"

www.interregeurope.com/bioregio

Phase 1 1.1.2017 - 31.12.2019

Active cooperation and development of regional action plans

Phase 2 1.1.2020 - 31.12.2021

Follow up implemenation of the action plans

### **Regions & Partners**





### Päijät-Häme, Finland

- Lahti University of Applied Sciences. Lead Partner
- Regional Council of Päijät-Häme



### Castilla-La Mancha, Spain

Deputy Regional Ministry for Environment



#### Nitra, Slovakia

Slovak University of Agriculture



#### **Central Macedonia, Greece**

- Aristotle University of Thessaloniki
- Regional Development Fund of Central Macedonia on behalf of the Region of Central Macedonia



### South Muntenia, Romania

 National Research and Development Institute for Chemistry and Petrochemistry, Calarasi Subsidiary



### Pays de la Loire, France

Association of the Chambers of Agriculture of the Atlantic Area



### Sharing and developing

 Sharing good practices on bio-based circular economy Interregional level

and

 Designing action plans to develop biobased circular economy in regional policies

Regional level



Regional circular economy models and best available technologies for biological streams 2017-2021





### What is a Good Practice?



## "Technology, Cooperation model, Ecosystem or Network"

- Carefully selected, based on the BIOREGIO defined criteria, e.g. resource efficiency & potential for transferability to other European regions
- All Good Practices identified in BIOREGIO are available on the website: <a href="https://www.interregeurope.eu/bioregio/good-practices/">www.interregeurope.eu/bioregio/good-practices/</a>
- If a Good Practice passes the Interreg Europe expert assessment, it is published at the Policy Learning Platform (PLP)
- In BIOREGIO:
- 43/40 (target) GPs identified
- 27/43 GPs published on the PLP
- 10 GPs still under validation











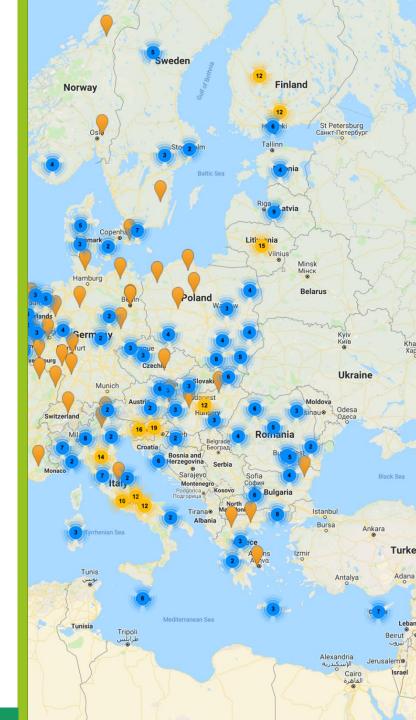


### **Policy Learning Platform**



"By sharing knowledge, experiences and practices, everyone can capitalize on already tried-and-tested solutions"

- Online database launched by Interreg Europe
- Sharing expert-validated Good Practices from European cities and regions
- https://www.interregeurope.eu/policylearning/goodpractices/





1. Regional Road Map towards Circular Economy

2. Effective Municipal Waste Source Separation and Recovery

3. Utilisation of Biowaste Streams - Bio-based Industrial Symbiosis

4. Smart Solutions for Waste Separation



- 5. The Päijät-Häme Grain Cluster
- 6. Bioethanol from Food Industry By-products
- 7. Xylitol from Oat Mill Sidestreams

8. Material Footprint Calculator for Citizens





# **GP1. Regional Road Map towards Circular Economy**

"Regional circular economy strategy created by the Päijät-Häme region"

- Presents regional goals and actions to achieve the vision:
   "Päijät-Häme the successful resource efficient region" by 2030
- Goals related to material flows, bio circular economy, energy, new services and to the role of Päijät-Häme being a forerunner
- Developed through bottom-up approach in cooperation with various stakeholders, e.g. the regional council, universities, municipalities and companies





# **GP5. The Päijät-Häme Grain Cluster**

### "Cooperation network of the local grain value chain"

- Brings together all actors in the region, from grain producers to industry and retail, both large international to small craft companies, e.g. mills, breweries, a malt producer, bakeries and about 1000 farmers
- Founded in 2003; exceptional on an international scale
- Funding covered by the member companies + partly from ERDF/other projects
- Synergies, product development and circular economy solutions
  - Innovative food products development
  - Bioethanol production from food industry side streams, biobased industrial symbiosis
  - Xylitol from oat mill side streams the world 1<sup>st</sup> xylitol factory acquiring its raw material from the company's own processes, production starts in 2020



### **Sharing and developing**

 Sharing good practices on bio-based circular economy Interregional level

### and

 Designing action plans to develop bio-based circular economy in regional policies (so far 2/6 APs signed & approved, 4 APs under validation by JS)

Regional level

https://www.interregeurope.eu/bioregio/action-plans/



Regional circular economy models and best available technologies for biological streams 2017-2021





# Regional policies improvement BIOREGIO (1)

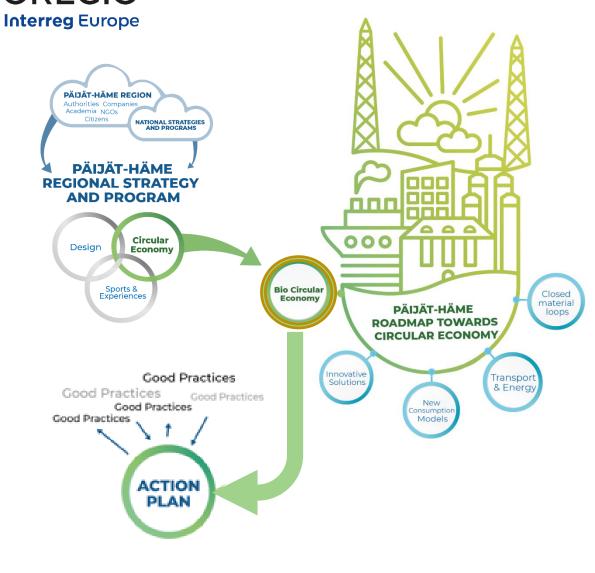
### **BIOREGIO** goals in Päijät-Häme (PH):

- Better management and strategic focus of policy instrument
   Sustainable Growth and Jobs 2014-2020 Finland's
   Structural Fund Programme to better meet the challenges of the bio-based circular economy development in PH
  - Active promotion of development opportunities through cooperation between companies, universities, and administrations (triple helix) and the development of special skills
- → Funding new bio circular economy projects (ERDF, other funding) (BIOSYKLI Päijät-Häme circular bioeconomy project from 9/19-8/22)
- → Action Plan defines actions for the bio-based circular economy regional development



Regional policies improvement BIOREGIO Interreg Europe (2)

- Päijät-Häme Regional Development Strategy and Plan for 2018–2021 (2017) includes circular economy as one of the three smart specialization spearheads
- The Päijät-Häme Roadmap Towards Circular Economy (2017) defines objectives and actions for promoting circular economy
  - Thanks to BIOREGIO:
    - Bio-based circular economy is emphasized (importance of nutrient cycles) in the 2018 Roadmap update
    - Päijät-Häme Bio-based Circular Economy Action Plan created based on the 2018 Roadmap update



### The Action Plan

- Päijät-Häme Bio-based Circular Economy Action Plan, approved 8.5.2019 by the Päijät-Häme Mayor <a href="https://www.interregeurope.eu/bioregio/action-plans/">https://www.interregeurope.eu/bioregio/action-plans/</a>
- Supporting the regional circular economy roadmap's goal related to bio-based economy
- Implementation of the actions will be monitored in the 2<sup>nd</sup> phase of the project

### **Actions**

- Promoting a sustainable bio-based circular economy and enhancing nutrient cycles
- 2. Pilots in biowaste collection and recovery
- 3. Promoting the use of bioproducts and bioenergy
- 4. Päijät-Häme as an international reference area for circular economy





#### Päijät-Hämeen biokiertotalouden toimintasuunnitelma

Päijät-Hämeen liitto Lahden ammattikorkeakoulu

### Päijät-Häme Bio-based Circular Economy Action Plan

Päijät-Häme Regional Council Lahti University of Applied Sciences







# Regional Stakeholders Working BIOREGIO Interreg Europe Together

Päijät-Häme Circular Economy Cooperation Group (former name Päijät-Häme Bioeconomy Group)

- Various regional actors regional authorities, academia, enterprises, associations
  - Päijät-Häme Regional Council Chair
  - Häme Centre for Economic Development, Transport and the Environment
  - · City of Lahti, City of Heinola
  - Finnish Forest Centre, Lahti Region Development LADEC Ltd, Päijät-Häme Grain Cluster
  - Lahti Energy Ltd, Päijät-Häme Waste Management Ltd, LABIO Ltd
  - Lahden Työn Paikka (a social enterprise owned by the City of Lahti)
  - LUT University, University of Helsinki, Aalto University, Lahti University of Applied Sciences
- Regularly meets, discuss & participate at the interregional events
- Also acts as a regional stakeholder group for BIOREGIO & other relevant projects
- Commitment to annually update the roadmap & Action Plan





# Thank you!

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