

EIP-AGRI Workshop 'Opportunities for farm diversification in the circular bioeconomy'

DAY 1 (PART 2) - 6 FEBRUARY 2019

16:25 – 17:45 Break-out session

Which opportunities can farmers and foresters pursue when diversifying into the bio-economy?

- Livestock Farming: Mr. James Gaffey Scientific Coordinator on the H2020 Biobased Industries Joint Undertaking (BBI JU) project ICT-BIOCHAIN, focused on developing efficient biomass supply chains for sustainable chemical bio-economy regions.
- Arable Farming: Ms. Anna Trettenero A farmer herself she runs a biogas plant in cooperation with other arable farmers in Italy.
- Permanent Crops: Mr. Tomáš Fénix He runs an organic family fruit and wine farm in southern Moravia, testing various circular bio-economy initiatives on his farm.
- Forestry: Mr. Bernard Carey involved in the Operational Group Biomass to Biochar for Farm Bio-economy (BBFB) in Ireland.

The session continues with facilitated discussion addressing specific questions

Harvesting the results of the break-out session.

17:45 - 18:00 Wrap-up of the first day



James Gaffey Project ICT-BIOCHAIN









Ireland's European Structural and Investment Funds Programmes 2014-2020

Co-funded by the Irish Government and the European Union



The European Agricultural Fund for Rural Development; Europe investing in rural areas



Biorefinery "Glas" – a farmer-centric biorefinery approach for the livestock sector



- First demonstration of smallscale biorefining in Ireland
- Funded under EIP-Agri
- Farmer-centric bioeconomy approach
 - Addresses Key Challenges for the livestock-sector
 - Integrates within existing agricultural structures
 - Can be taken up and utilised by cohort of farmers and contractors

















Expected Impacts

- Use a multi-product biorefinery approach and validate new indigenous products
 - 2 protein feed products (for ruminants and nonruminants), fructo-oligosacchardies, biogas and fertiliser
- Significant increase in usable protein per hectare
- Significant reduction in N and P and indirect GHG emissions reduction
- Demonstrate a new business model & "farmto-farm bioeconomy symbiosis"
- Improving farmer knowledge around bioeconomy and circular economy







Closing the multi-actor loops

- Building a farmer-centric solution requires analysis of the entire value chain and identification of suitable business models
- Biorefinery Glas
 - Offers farmers a diversification solution that is operable and affordable
 - Offers finishing and route-to-market access by smartly using the existing co-operative structures
 - Uses a cascading approach to produce in-demand locally produced products with export potential
- Biorefinery Glas is a first step towards moving farmers further up the bioeconomy value chain becoming producers of semifinished/finished products rather than suppliers of biomass







WHAT IS BIOREFINERY GLAS?

Biorefinery Glas is an EIP-Agri Operational Group co-funded by the Ireland's Department of Agriculture Food and the Marine and the EU. The Biorefinery Glas Group will coordinate one of Europe's first small-scale biorefinery demonstration projects on farms in South-West Ireland during 2019 and 2020. Biorefinery Glas supports farmer diversification into the circular bioeconomy.

WHAT TO EXPECT

The integrated small-scale mobile biorefinery will process and validate a spectrum of new products from fresh grass including fibre press-cake feed for cattle, a protein co-product for pigs, a high-value prebiotic sugar stream for the food/feed and cosmetic market, and a residual stream for use as energy or fertiliser. The project will also evaluate a new business model supporting farmer diversification into the bioeconomy. The project is a first step at changing the role of farmers in the bioeconomy, from suppliers of low-cost biomass to producers of biobased products.



MORE INFORMATION

For more information and access to our project practice abstract - please visit: https://ec.europa.eu/eip/agriculture/en/fin d-connect/projects/biorefinery-glas-small-scale-farmer-led-green



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Biorefinery Glas

Operational Group Partners

















CONTACT

James Gaffey
Principal Investigator, Bioeconomy
Institute of Technology, Tralee
+353(0)66 7144253
James.gaffey@staff.ittralee.ie

This EIP-Agri project is co-funded by Department of Agriculture, Food and the Marine and the EU Commission

Links:

http://www.engineersjournal.ie/2018/05/29/biorefineries-small-scale-bioeconomy-opportunities-agriculture-sector/

https://ec.europa.eu/eip/agriculture/en/find-connect/projects/biorefinery-glassmall-scale-farmer-led-green