



ABC ECONOMY

Developing sustainable value chains from waste



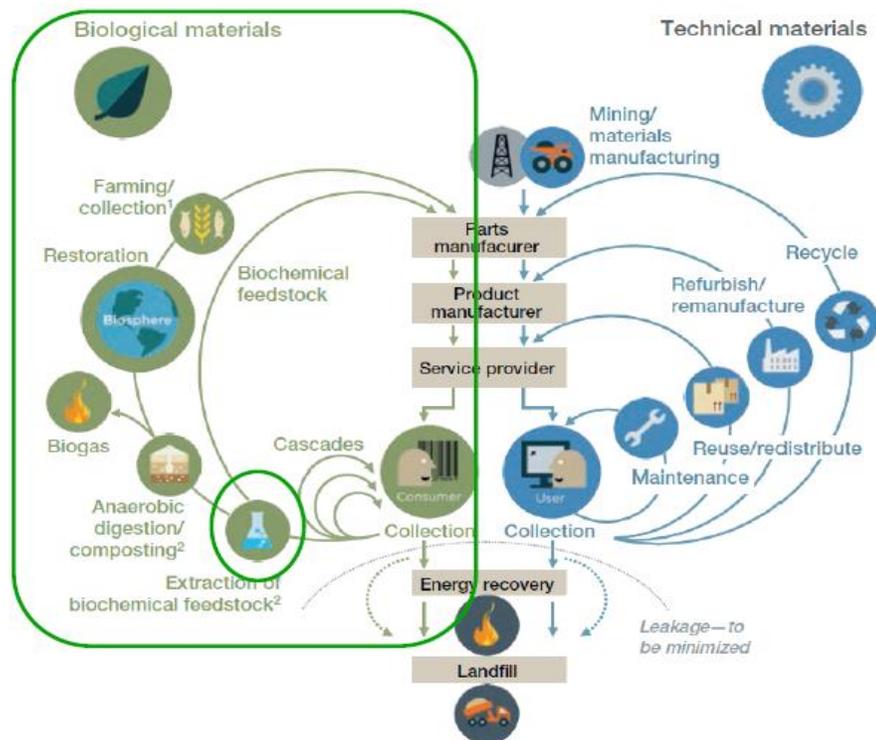
What is the Bioeconomy?



As defined by the European Commission, refers to the "the production of renewable biological resources and the conversion of these resources and waste streams into value-added products, such as food, feed, bio-based products as well as bio-energy" (EC, 2017).



What is the Bioeconomy?



The bioeconomy is often represented as the biological element of the circular economy, in which “the value of products, materials and resources is maintained in the economy for as long as possible, and the generation of waste minimised” (EC, 2017).



What is the Bioeconomy?

- Reindustrialisation of Europe – Rural redevelopment (>800,000 jobs by 2030)
- Sustainability – Resource efficiency, GHG reduction, Low carbon society
- Green engine of the Circular Economy
- Innovation to allow diversification and growth
- Moving Europe towards a post-petroleum society



The ABC Economy Project

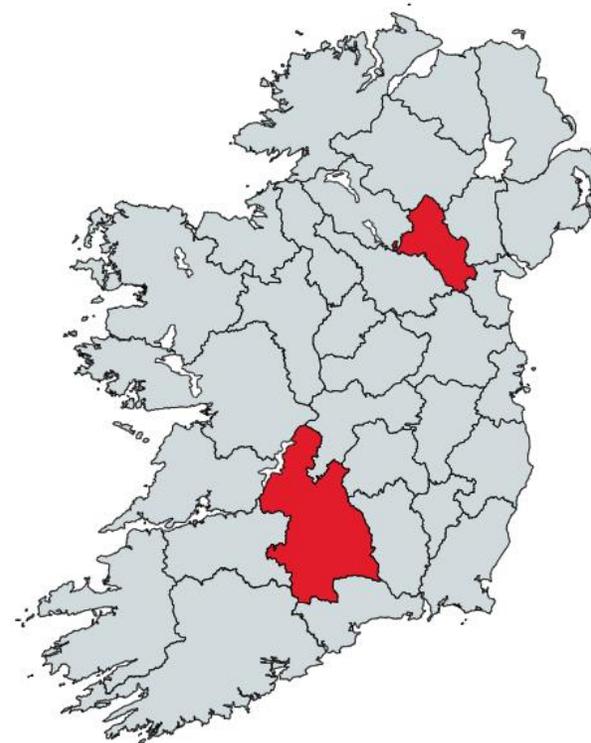
SEAI RD&D Call 2018 Co-Funded by DAFM - An investigation to quantify the impact of applying circular economy'

1. Research and review the array of potential uses for biomass across its life cycle. Energy consumption, carbon emissions reduction, biobased products and renewable energy generation potential, should be considered throughout the life cycle.
2. Within the above context, quantify impacts of the application of circular economy principles, and market potential for these options, with a focus on achieving coherency and examining trade-offs between energy and bio-based material use of biomass.
3. Disseminate outcomes within the Irish biomass and financial sectors and internationally



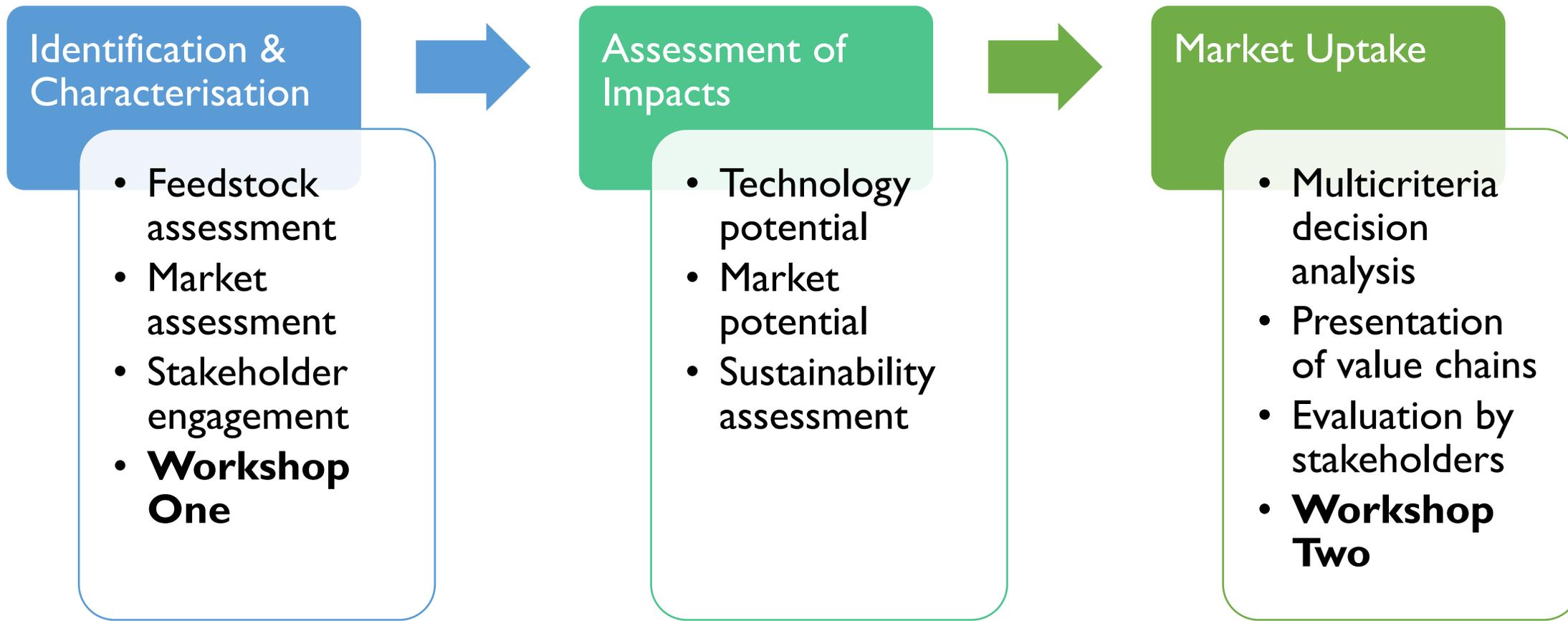
The ABC Economy Project

- ABC Economy – **A**gri **B**io **C**ircular **E**conomy
 - Project partners are UCD and Cré
 - Funded by SEAI and DAFM
- Aim of the project is to develop new bio-based products and generate energy from waste bio-resources through a cascading use of resources
- Case studies focus on Monaghan and Tipperary County Councils



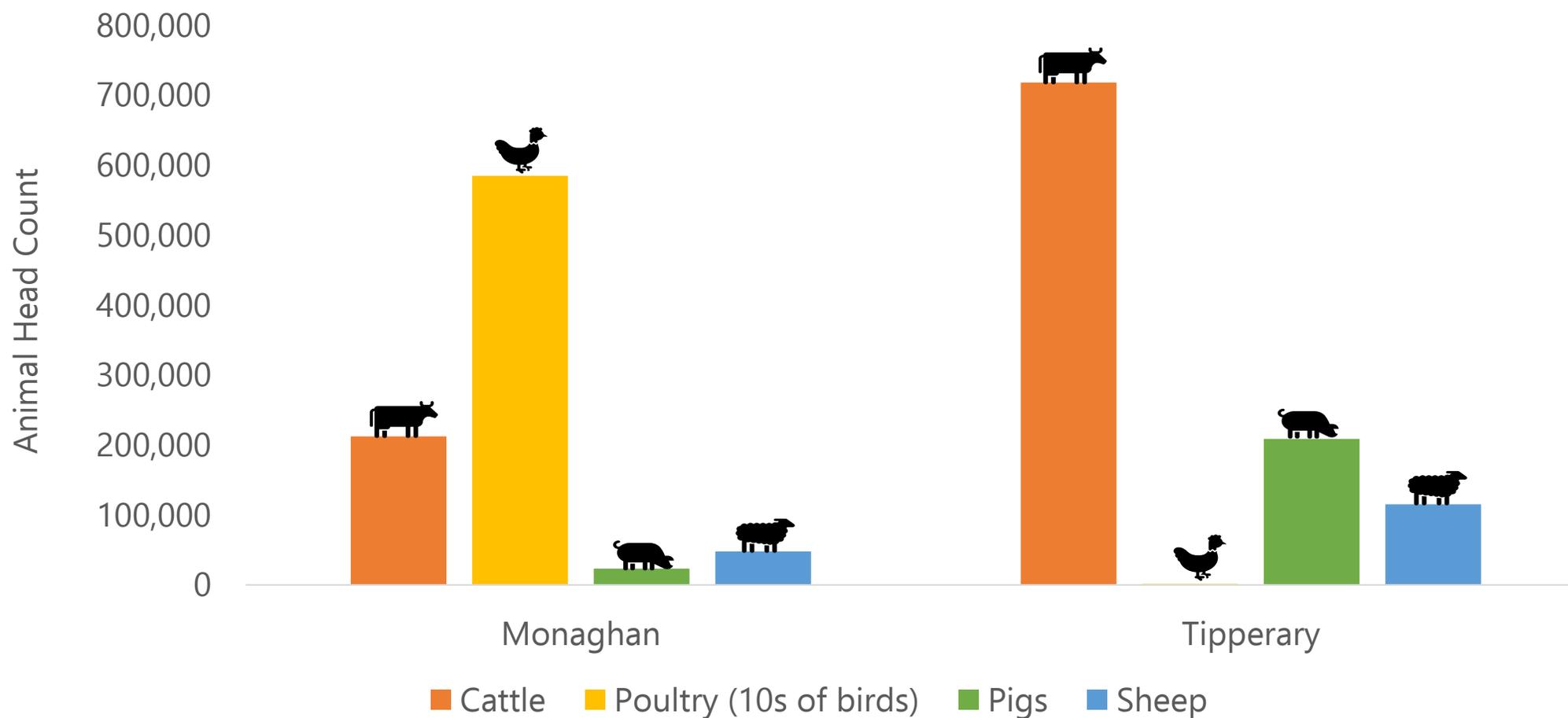


The ABC Economy Project



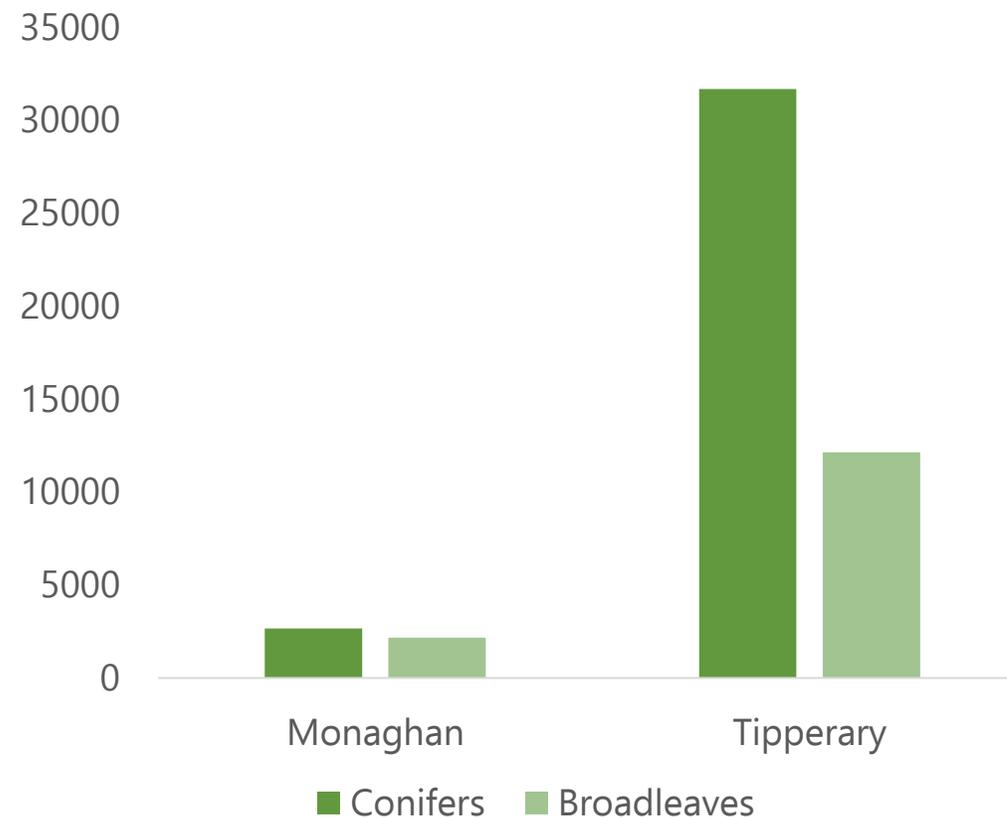
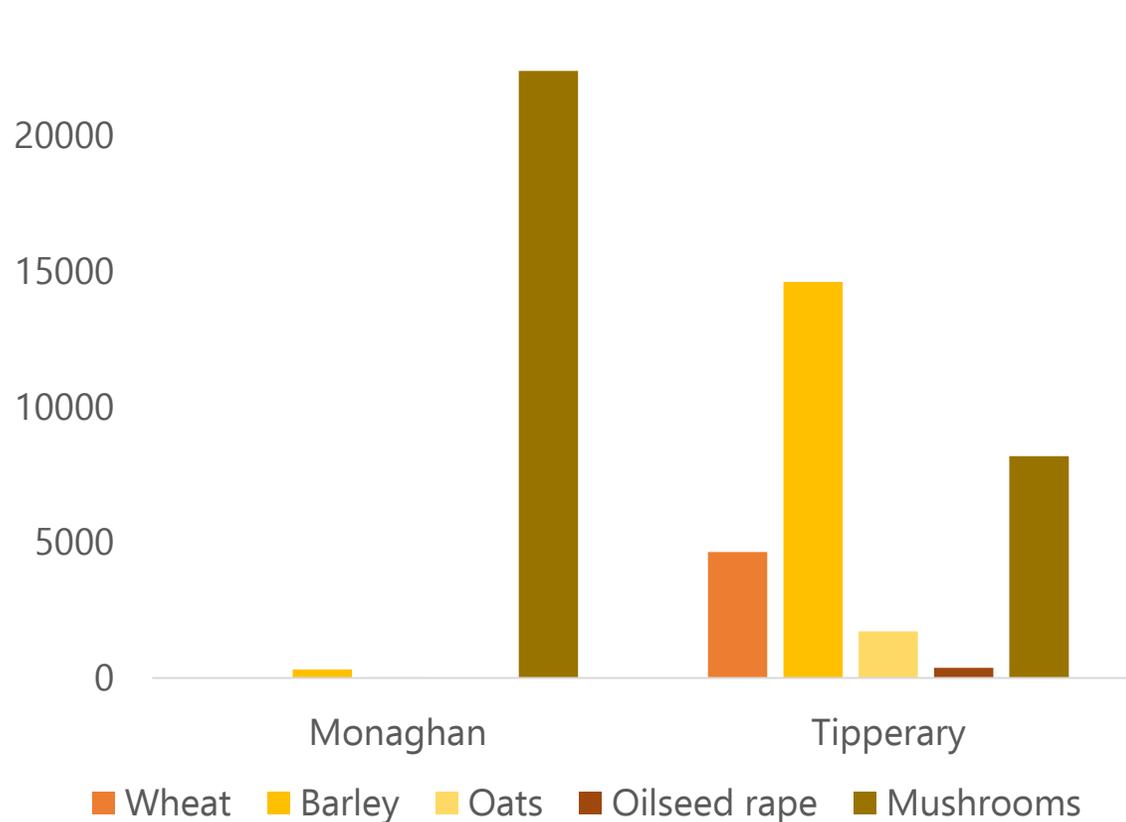


Animal Head Count





Crops & Forestry



All quantities in hectares



Today's Workshop

1. The new sustainable *ABC Economy* value chains devised in WP2 will be to be presented to key stakeholders during the second workshop series.
2. Discussions will be structured to engage stakeholders to share views on the proposed new value chains, their willingness to implement or pursue development of these value chains and any foreseeable barriers to their effectiveness and reaching higher value.
3. The results of this workshop will be considered in developing the final *ABC Economy* value chains, which will be presented to all external stakeholders at the final project workshop.



Today's Workshop

Time	Agenda
	Chair, Percy Foster, Cré
15.00-15.10	Introduction to the ABC Economy Project & Workshop Dr. Fionnuala Murphy, University College Dublin
15.10-15.20	Anaerobic Digestion of Manures The presentation will focus on processing poultry manure using AD and will provide a life cycle analysis of the process. Dr. Ciara Beausang, Teagasc
15.20-15.30	Example of Bioeconomy Development in Monaghan: Funguschain Project Extracts Valuable Compounds from Mushroom Waste This EU funded research project is a new concept of biorefinery which has extracted valuable compounds. For example, the results are <ul style="list-style-type: none">• antioxidants for natural oils and other ingredients in cosmetic products,• proteins will be used as complements to enrich food supplements for the elderly and sportsmen.• biopolyesters will be used to formulate new bioplastic blends Patrizio Salice, Novamont
15.35-15.45	The Potential Technologies in Managing Biomass Residues in Tipperary and Monaghan Dr. Rosanna Kleemann, University College Dublin
15.45-16.15	Breakout Session to Discuss key Topics
16.15	Discussion on Feedback from Breakout facilitators
16.30	Ends