InformBio

Integrated Framework for Mapping, Modelling and Monitoring Ireland's Bioeconomy

An Roinn Talmhaíochta, Bia agus Mara
Department of Agriculture, Food and the Marine

BIOECONOMY IRELAND WEEK
OCTOBER 17-23 2022

Bioeconomy Ireland Week

17/10/2022

An Roinn Talmhaíochta, Bia agus Mara
Department of Agriculture, Food and the Marine

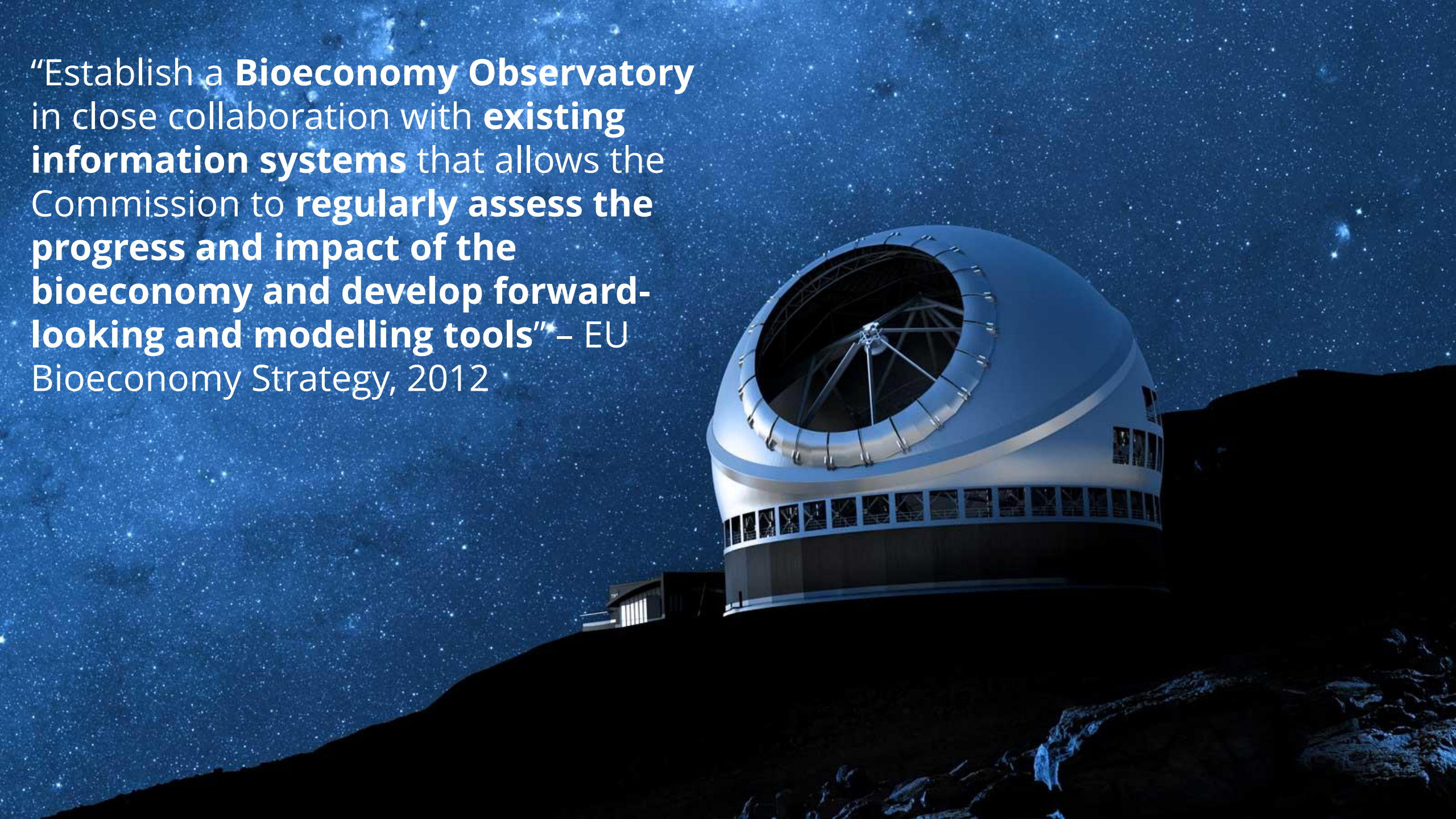
MTU
Ollscoil Teicneolaíochta na Mumhan
Munster Technological University

teagasc
Agriculture and Food Development Authority

Ollscoil na Gaillimhe
University of Galway

An Phríomh-Oifig Staidrimh
Central Statistics Office

“Establish a **Bioeconomy Observatory** in close collaboration with **existing information systems** that allows the Commission to **regularly assess the progress and impact of the bioeconomy and develop forward-looking and modelling tools**” – EU Bioeconomy Strategy, 2012



2017 Knowledge Centre for Bioeconomy launched..

Monitoring System

Survey on food loss and waste initiatives

Infographics on biomass sources and uses

Bioeconomy Strategy Progress Report 2022

Key publications

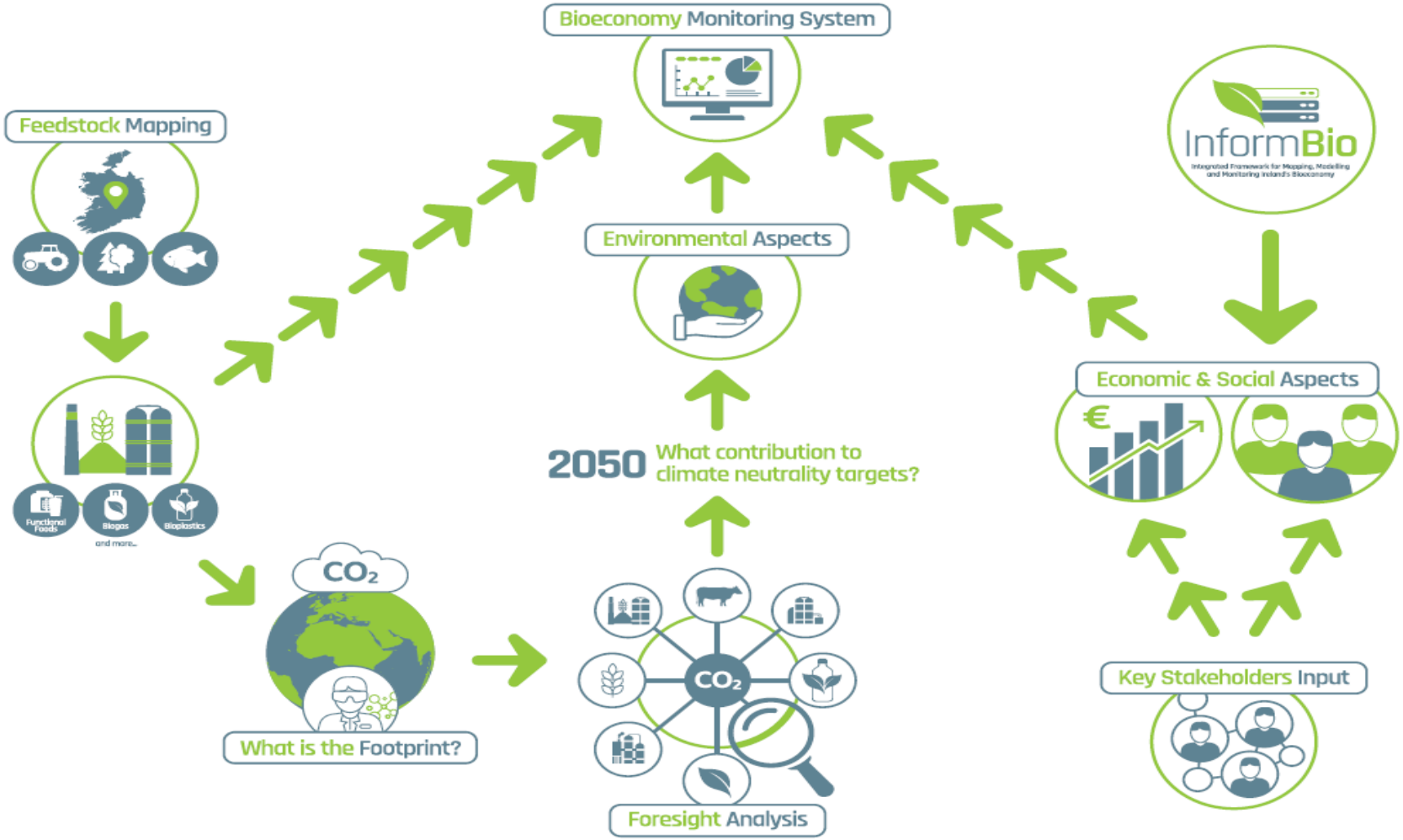
Scenario Exploration System – Bioeconomy

Regional indicators for EU bioeconomy

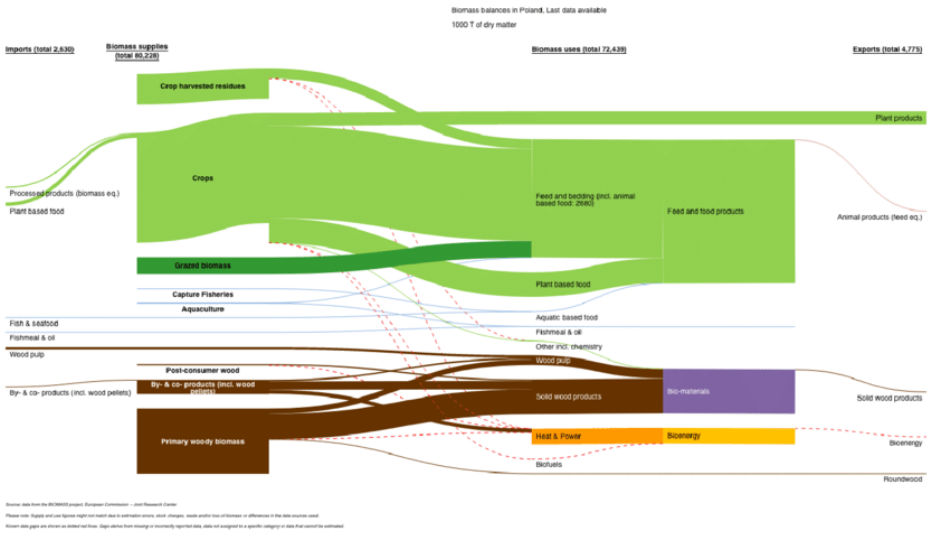
Bioeconomy strategies in EU regions

https://knowledge4policy.ec.europa.eu/bioeconomy_en

Part 1: Foresight Analysis



Map biological raw materials & flows



Map & screening opportunities..

BE-Rural

POWER4BIO REGIONS FOR BIOECONOMY

TECH4 BIOWASTE

AGRI FOR VALOR

Circular Bio-based Europe Joint Undertaking

MAINSTREAM BIO

eip-agri AGRICULTURE & INNOVATION

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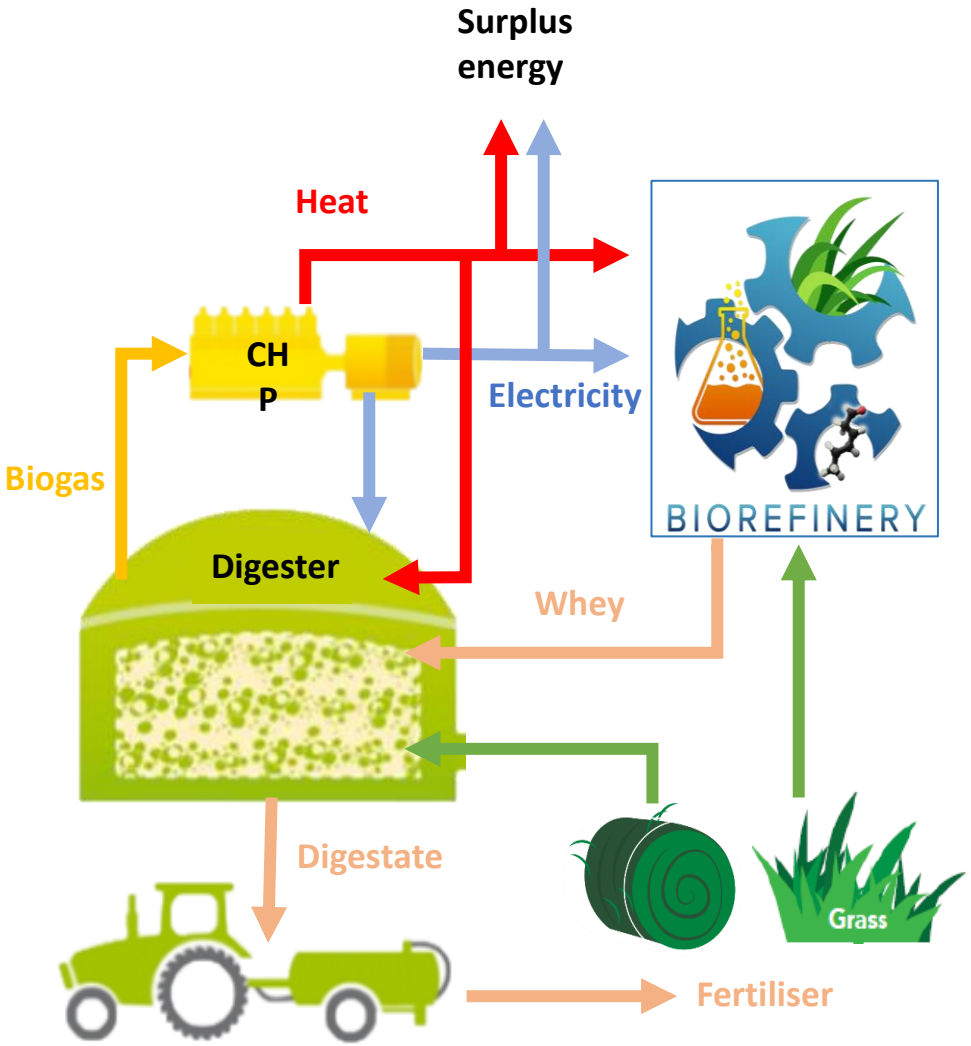
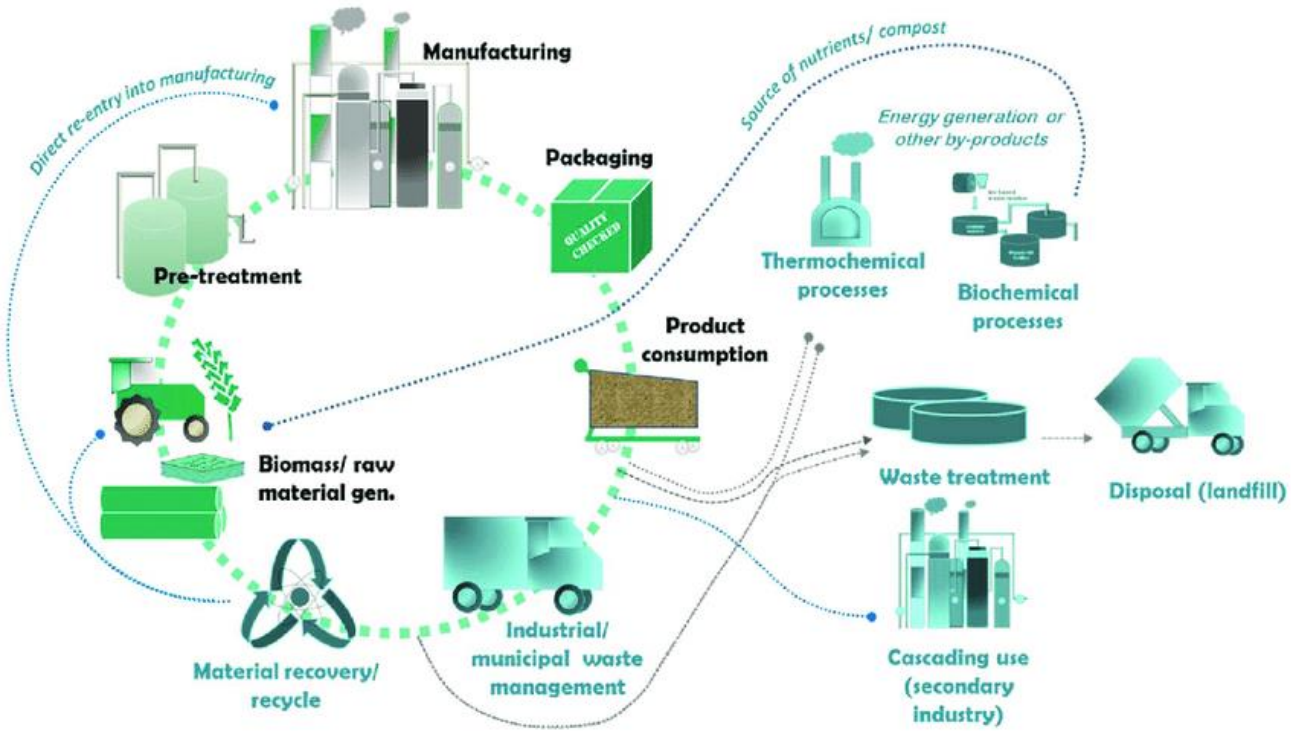
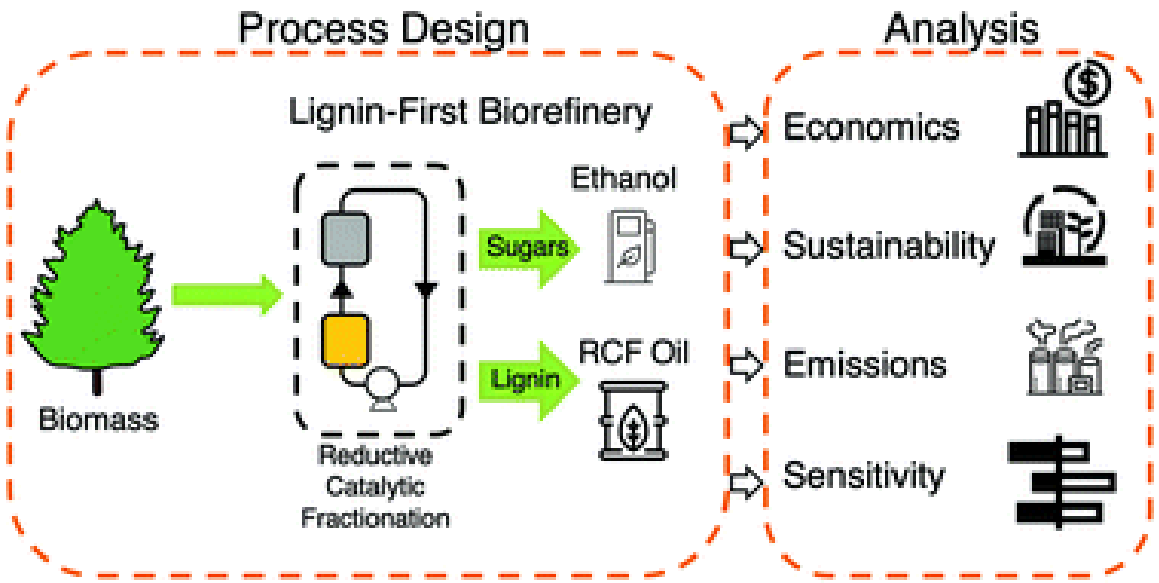
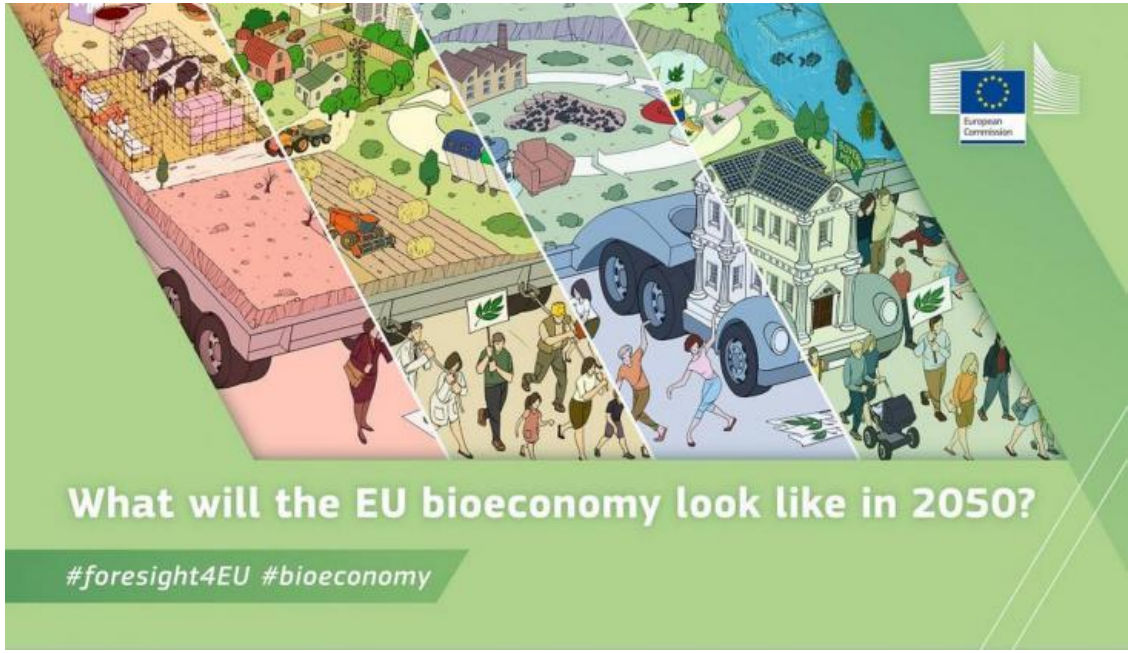
...with stakeholder input..

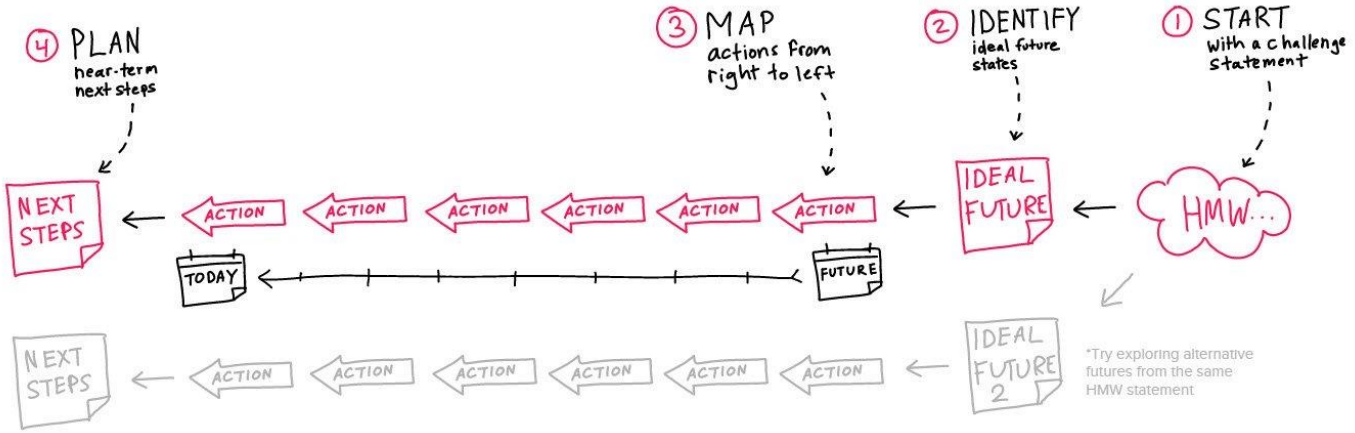
..build scenarios for Ireland's bioeconomy..



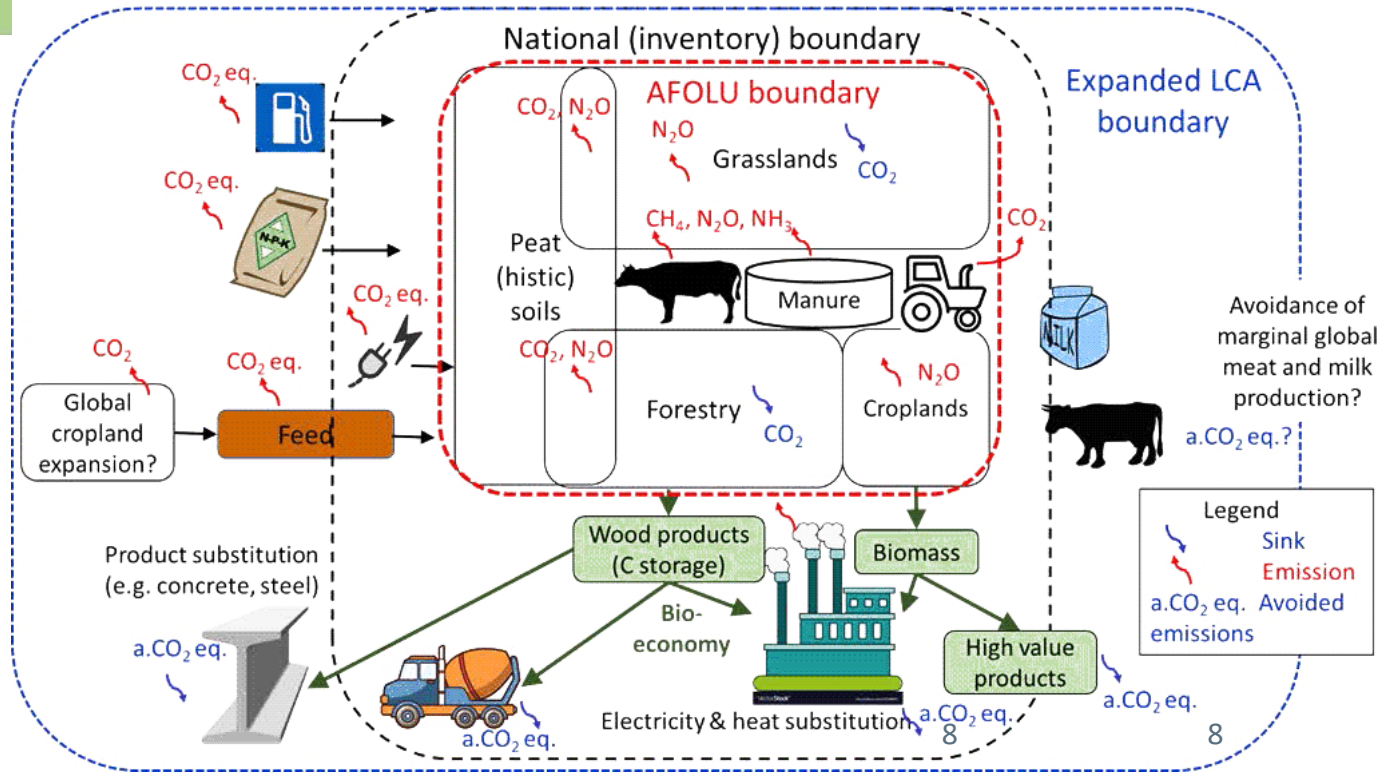




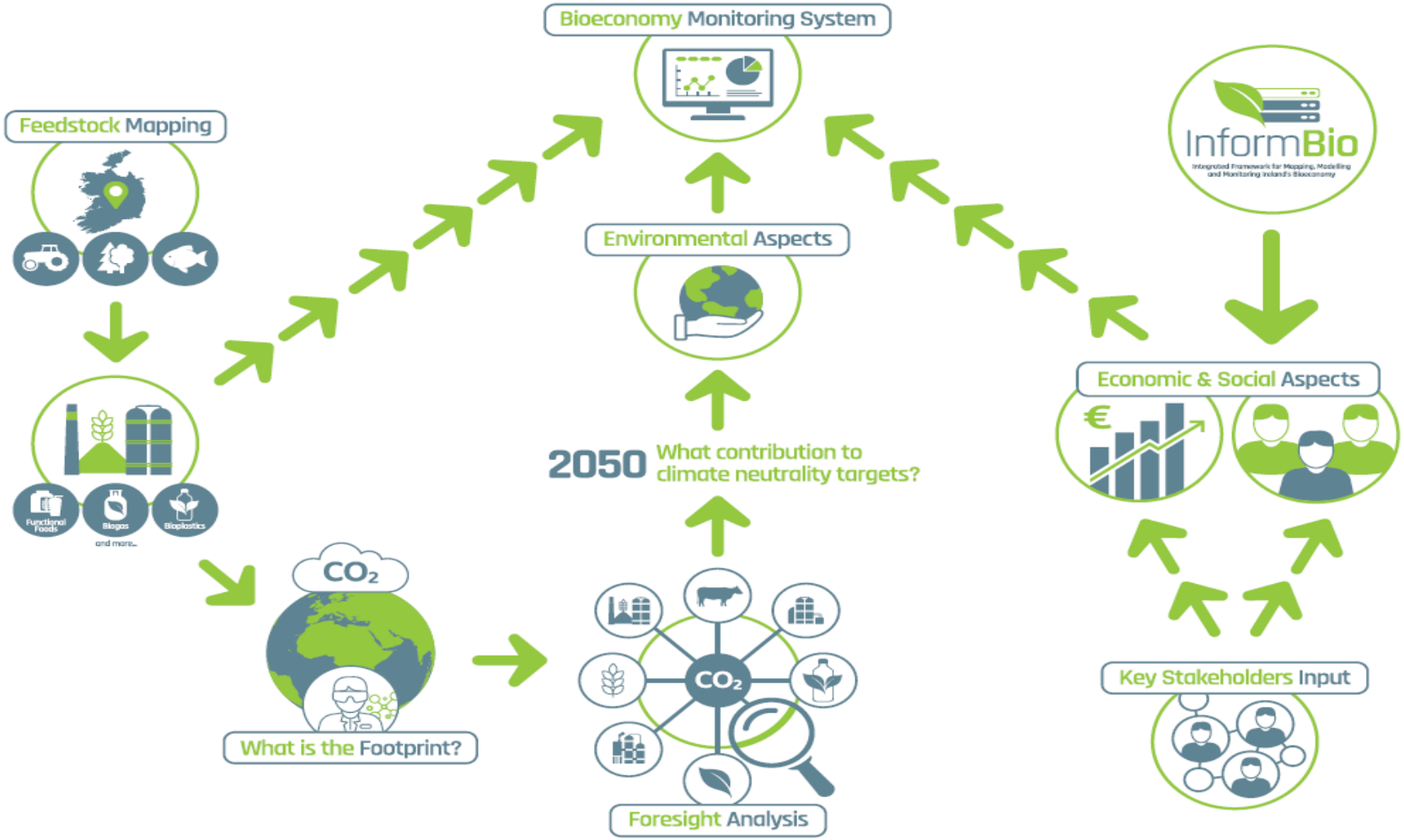




..model scenarios to inform a bioeconomy roadmap to contribute to climate neutrality!



Part 2: Monitoring Framework



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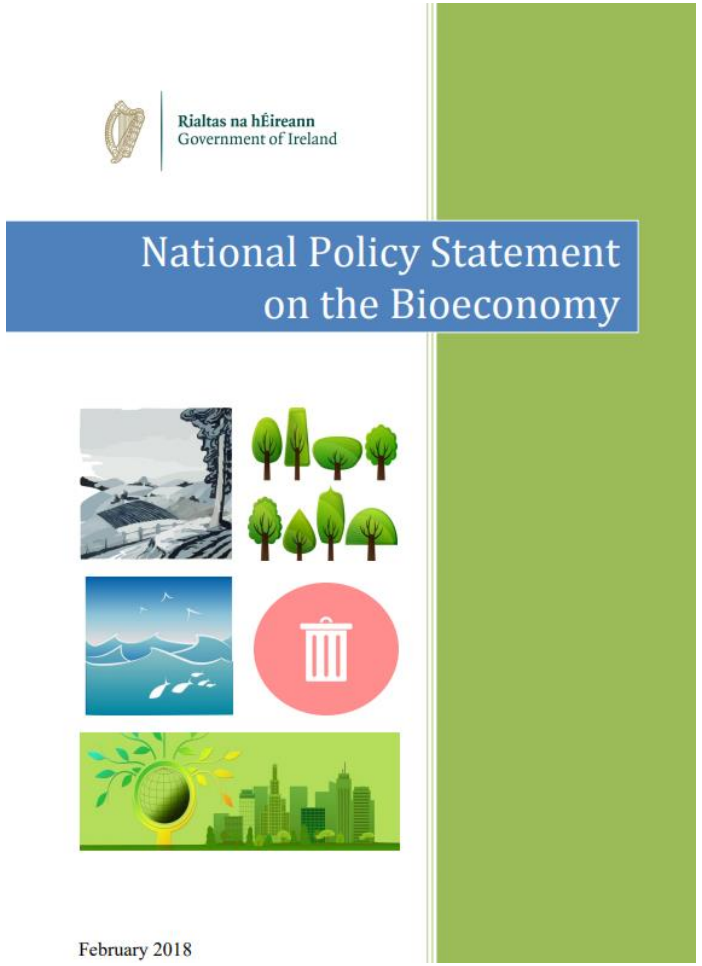
Why monitor?

Because bioeconomy is complex and must be closely monitored with reliable data and robust analysis to **provide a holistic view of all the dimensions of sustainability and to highlight eventual trade-offs** among them.

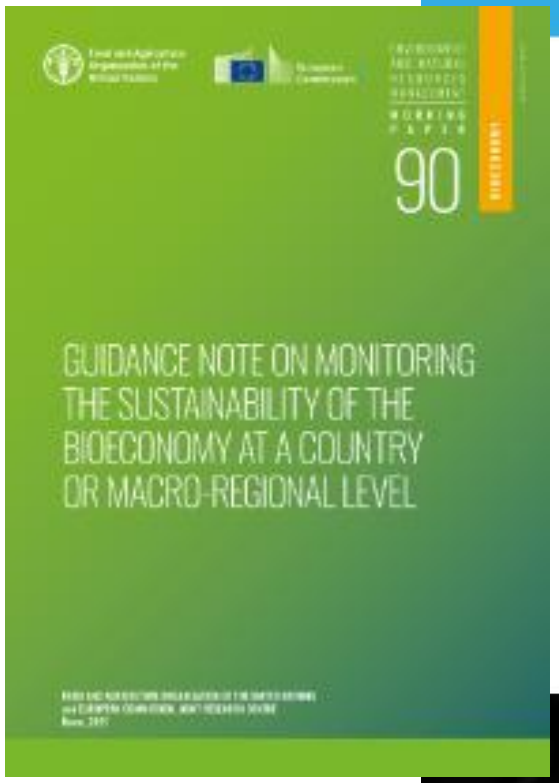
Further, monitoring is essential to **identify areas in need of policy intervention** as well as to assess the **coherence and the impacts of existing legislation**

(JRC, 2020)



Who is monitoring what?..

- Design a prototype monitoring system to benchmark Ireland's bioeconomy
- Review Existing Systems



biomonitor

SYM BIO

WAGENINGEN UNIVERSITY & RESEARCH

Luke NATURAL RESOURCES INSTITUTE FINLAND

THÜNEN

Developing the Irish Framework..

Agree Conceptual Framework

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Select Indicators

↓

Build the System

↓

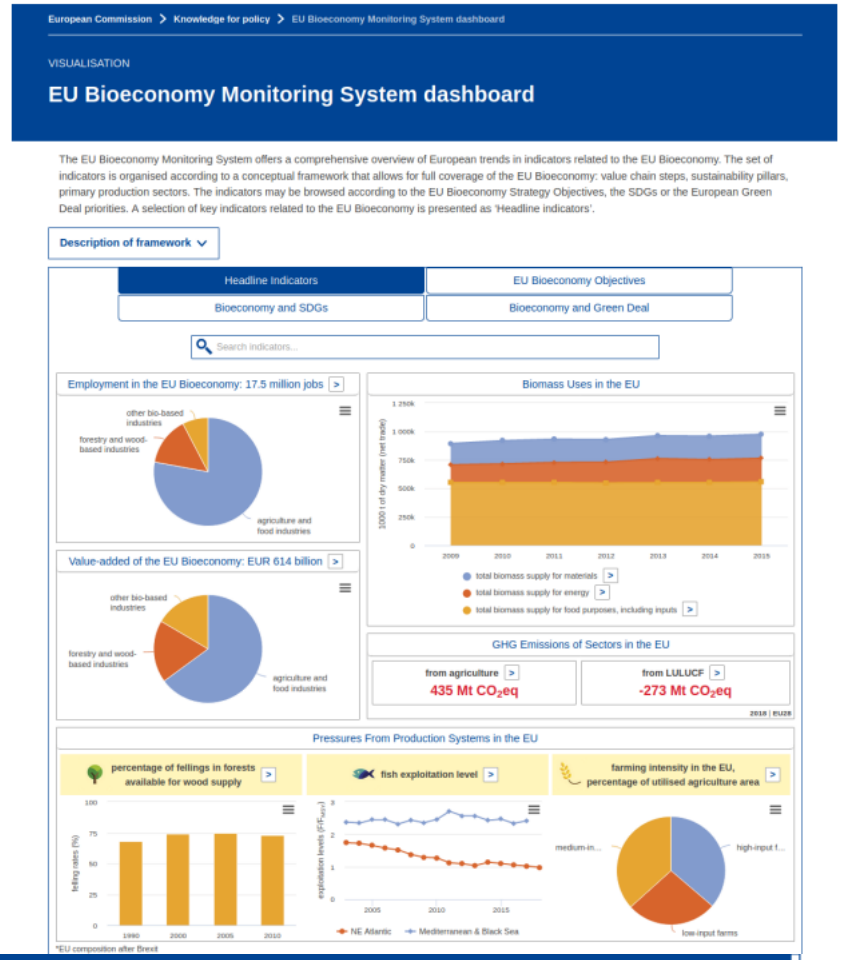
Map available Data

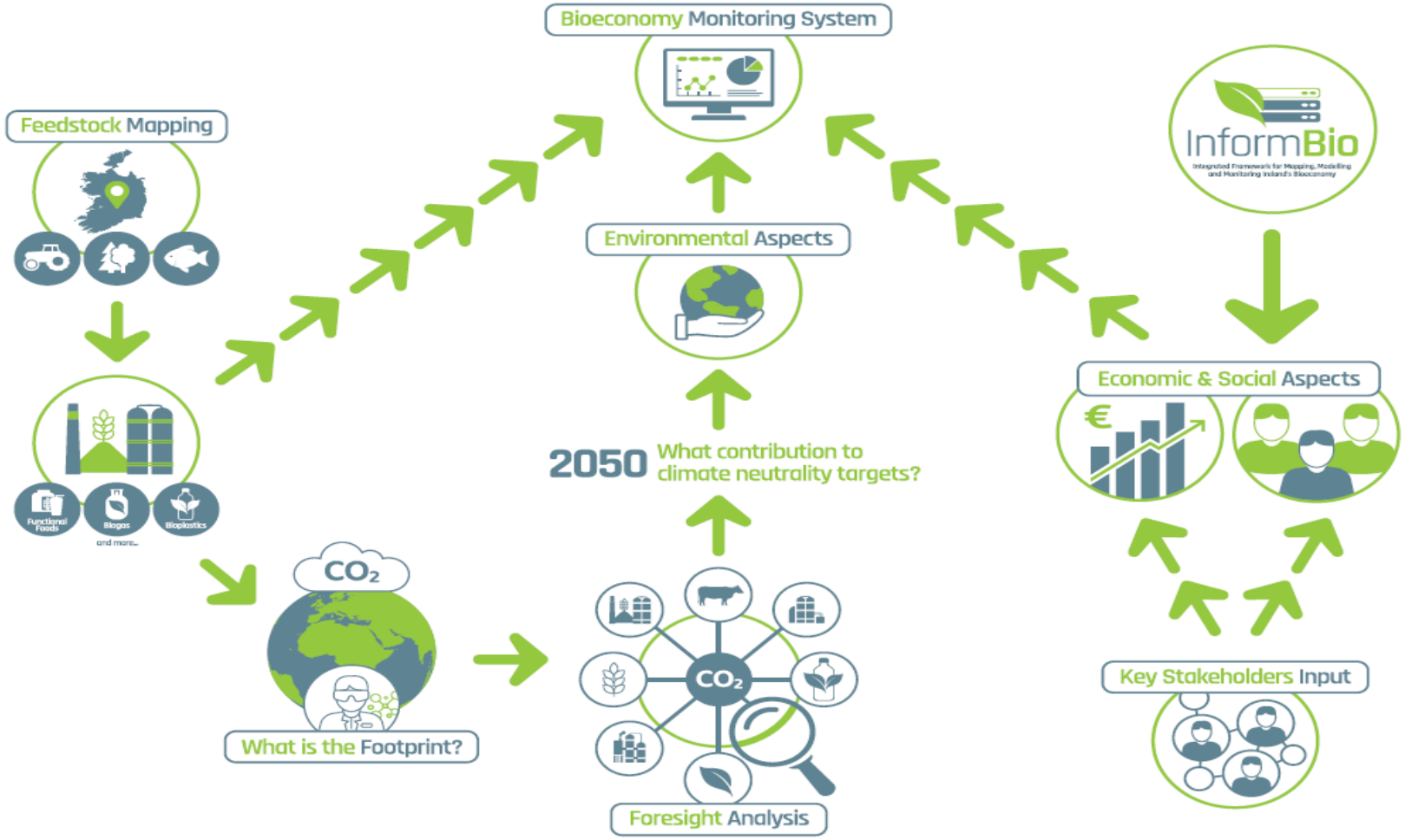
↓

Gap Analysis and Recommendations

↓

Final Prototype Framework




Bioeconomy Monitoring System
Feedstock Mapping
InformBio
Environmental Aspects
Economic & Social Aspects
2050 What contribution to climate neutrality targets?
CO2
What is the Footprint?
CO2
Foresight Analysis
Key Stakeholders Input

Join our Networks…

Thematic Network for Bioeconomy Monitoring Activities – to be further developed during implementation phase

An Phríomh-Oifig Staidrimh
Central Statistics Office

biomonitor
Monitoring the Bioeconomy

Joint Research Centre
JRC

Department of Agriculture, Food and the Marine
An Roinn Talmhaíochta, Bia agus Mara

teagasc
Agriculture and Food Development Authority

biorbic

Thematic Network for Biobased Value Chain and Foresight Analysis – to be further developed during implementation phase

fdt
consulting engineers and project managers

Irish Bioeconomy Foundation
Growing the Irish Bioeconomy together

Prifysgol Bangor University

coillte

biorbic

Carbery

Údarás na Gaeltachta

irbea
irish bioenergy association

THÜNEN

glanbia

Páirc na Mara

The James Hutton Institute

Our multi-disciplinary team..

MTU

GAILLIMH 18 45 GALWAY

Teagasc
Agriculture and Food Development Authority

An Phríomh-Oifig Staidrimh
Central Statistics Office

Speakers include:

Dr. Sarah Mubareka (EU JRC, Bioeconomy Monitoring Group)

Dr. Maria-Teresa Borzacchiello (EU JRC, Bioeconomy Foresight Team)

Prof. Justus Wesseler (Coordinator, Biomonitor Project)

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https://informbioproject.ie/