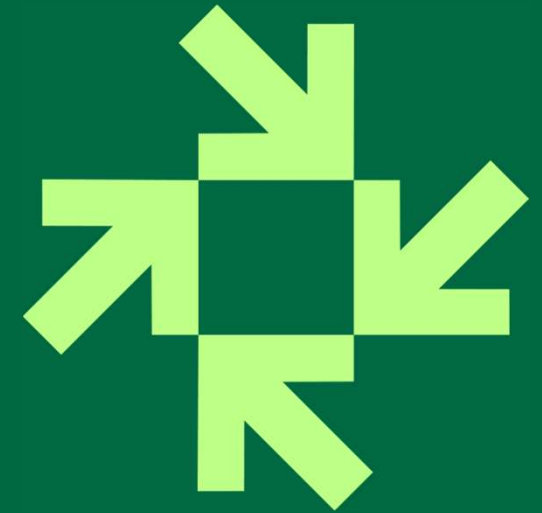


WP7: Society and business impact assessment



Toon van Harmelen (TNO)



The project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement 101059909.

WP7: Society and business impact assessment

Objectives:

- To **evaluate the societal and business performance** (economic, environmental, and circular) of collection, sorting, transport and mechanical and (thermo)chemical recycling of plastic waste and biobased streams
- **to support technological and policy development** as well as upscaling and implementation of optimal organised circular plastic business cases and value chains in the ARRRA region and Europe.


WP 7 model framework in place

MEASURES: Governance & policy measures (WP1)
 Social preferences & acceptance, Policy measures (regulation, financial, information, etc.)

DRIVERS: Scenarios

- GDP
- Population
- Plastic demand & waste
- Prices (energy & polymers)

GIS Geographical Information System



Localised waste forecasting & logistics optimisation costs
BUSINESS PERSPECTIVE

RQ model Recycling Quality model (WP2 & 3)




Recyclate/ pyoil properties Quality factor per technology & application Polymer properties

PRISM Plastic Recycling Impact Scenario Model



System optimization costs / environmental impacts / circularity;
SOCIETY PERSPECTIVE

CIMS Chemelot Integrated Model System



Site optimization costs / CO2
BUSINESS PERSPECTIVE

OPTIONS: Technology data & insights from all other WPs

DELIVERABLES:

1. Quick scan D7.2 (M14)
2. Business outlook D7.4 (M24)
3. Full assessment D7.7 (M48)

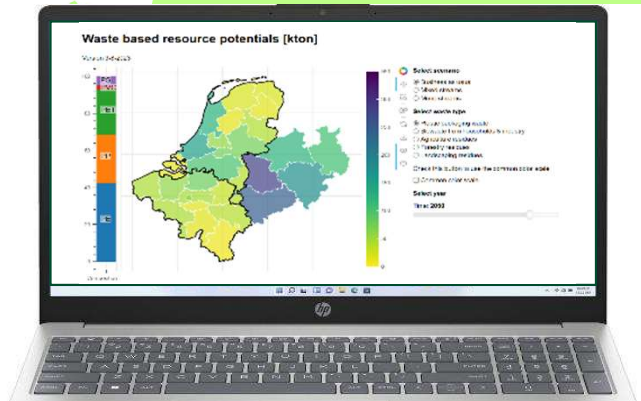
WP 7 SOCIETY AND BUSINESS IMPACT ASSESSMENT

Deliverables

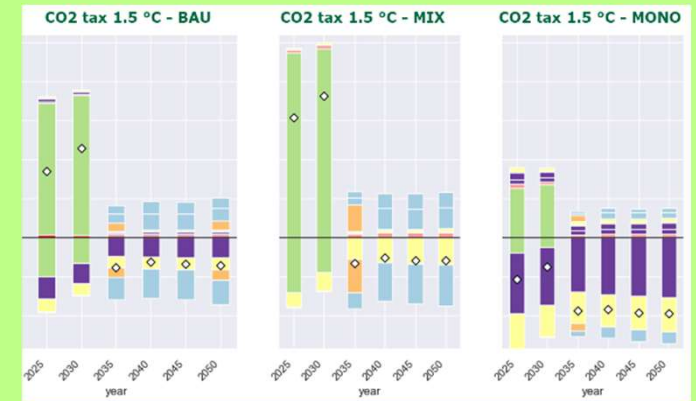


- D7.1 Scenarios generation - sp determination c qualities of cur plastic and bio the tri-lateral A**
 - D7.2 Quick sca environmental plastics recycli**
Scenario analysis effective plastic ri the ARRRR cluster CIMS models
 - D7.3 Report o updated**
 - D7.4 First outlook on cases of plastics recyc**
- TRR: Plastic waste si ARRRR region**
Current and future qualities of region waste and biowasi

Geo waste tool



Integrated model results



Brightlands Chemelot Campus

Other WPs



The project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement 101059909.