



Fuels-C: Accelerating Advanced Biofuels from Biogenic Residues for a Cleaner Transport Future

V. Westphalen¹, B. Uku¹, E. Serra^{1*}

¹Isle Utilities, Temple Chambers 3-7, Temple Avenue, London EC4Y 0DA, United Kingdom

victoria.westphalen@isleutilities.com

Introduction

Fuels-C is developing an integrated platform of cost- and energy-efficient technologies to convert sustainable biogenic residues and biogenic CO₂ into advanced liquid and gaseous biofuels.

The project uses organic waste, wastewater, sewage sludge, and CO₂ streams from wastewater treatment plants as feedstocks, avoiding competition with food and feed production while supporting circular economy objectives.

Technology Platform

The Fuels-C platform combines multiple conversion pathways to maximise resource recovery and fuel production efficiency.

The produced fuels can be used as sustainable drop-in fuels for maritime and road transport and may also support fuel cell applications for electricity generation.

ISLE'S ROLE

As Exploitation and Innovation Manager, Isle leads activities related to:

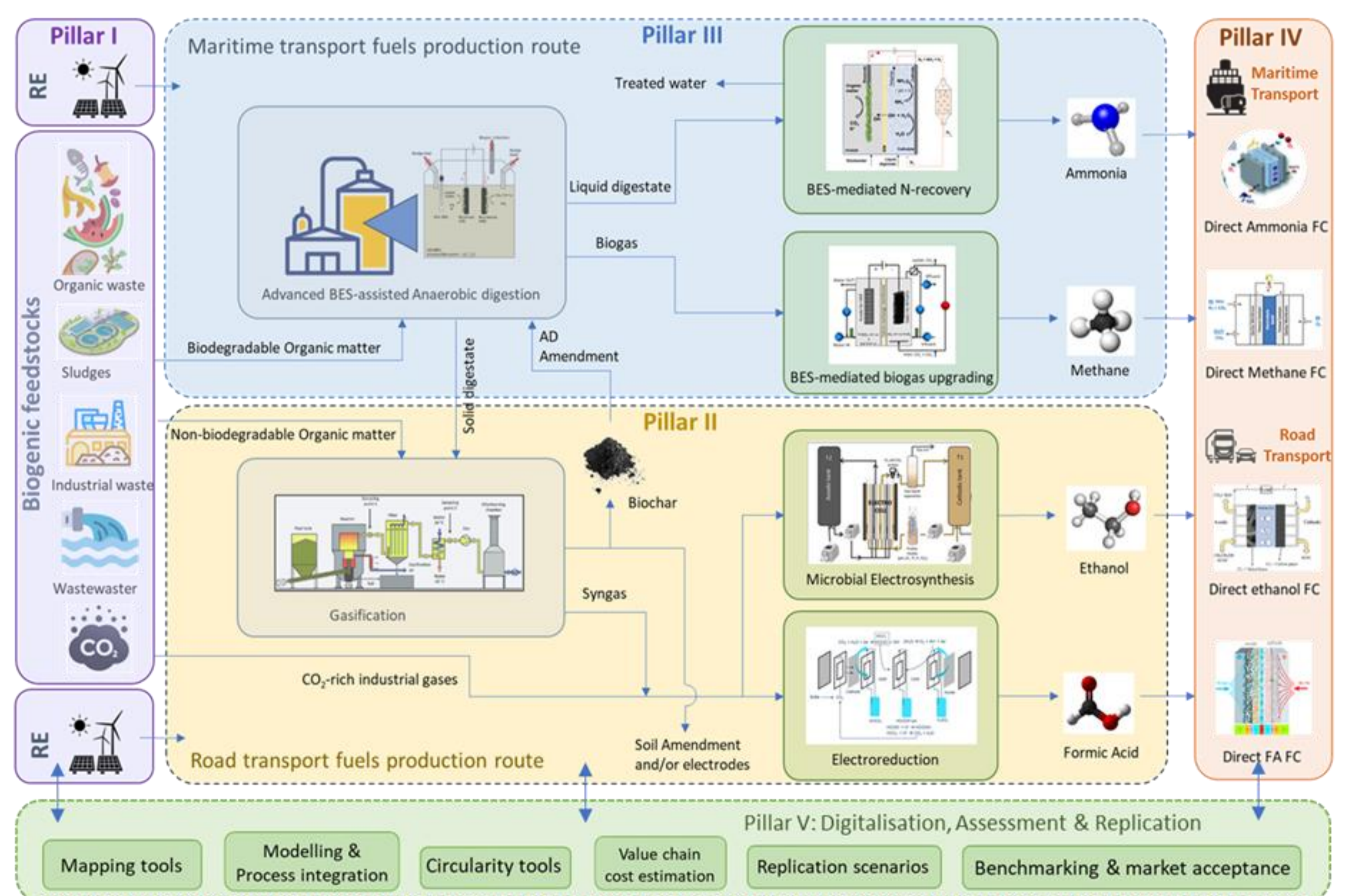
- Intellectual Property Rights (IPR) Management
- Exploitation Strategy Development
- Market Intelligence and Competitor Analysis
- Knowledge Transfer
- Innovation and Commercialisation Pathways

These activities support the long-term scalability and real-world implementation of Fuels-C technologies.

Project Objectives

- Accelerate decarbonisation of hard-to-electrify transport sectors
- Increase availability of sustainable advanced biofuels
- Validate integrated technologies at TRL5
- Promote circular waste-to-energy solutions
- Support future market uptake of renewable fuels

By combining innovative conversion pathways with strategic exploitation, market intelligence, and knowledge transfer activities, the project supports scalable and sustainable solutions for transport decarbonisation while advancing circular economy principles.



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Fuels-C Project



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