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Universidad
de Alcalá

Success Case: Innovation Action (IA) "MOEBIOS"

COOPERATE4EU 2.0



ESTA PRESENTACIÓN ES PARTE DE LA ACTUACIÓN GPE2023-001215-P, FINANCIADO POR MCIN/AEI/10.13039/501100011033.

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PONENTES



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The topic

HORIZON-JU-CBE-2023-IA-04:

Recycling bio-based plastics increasing sorting and recycled content (upcycling).

OUTCOMES:

- Improved circularity and resource efficiency via practical application of the circular (bio)economy concept in the bio-based plastics value chain
- Increased recycled content in new products from bio-based plastics
- Effective sorting and recycling schemes for bio-based plastic materials
- Significant improvement environmental performance across the value chain against specified fossil and/or bio-based benchmarks
- Social acceptance of circular bio-based solutions and products

The topic

HORIZON-JU-CBE-2023-IA-04:

Recycling bio-based plastics increasing sorting and recycled content (upcycling).

SCOPE

- Develop sorting and separation systems for isolating dedicated bio-based plastics from the mixed bio-based and fossil-based plastics streams (when applicable, as an enabler for conversion of the bio-based polymer fraction)
- Develop, upscale and deploy innovative recycling technologies or adapt, optimise and deploy existing ones for bio-based plastics
- Demonstrate integration of the recycling process(es) at relevant scale inside a real waste management plant
- Target as much as possible the same grade for the recycled as the virgin product , or upgrade the resulting stream into higher-value products
- Assess the market uptake potential of recycled bio-based plastic products.
- Assess the integration of the developed sorting and recycling technologies with current waste management practices. Involvement of waste management companies/authorities should be envisaged.
- Integrate a task to perform assessment based on the safe-and-sustainable-by-design (SSbD)

The project

IMproving waste management of BIObased plastics and the upcycling in packaging, textile and agriculture Sectors

CBE JU contribution: 7,013,928.50 €

Duration: 1 June 2024 – 31 May 2028]

Feedstock: Waste streams from Agriculture, Textile and Packaging

Main products: 3 demonstration products (V range packaging, textile fibres and films for agriculture)

Evaluation Score:14/15

- **The overall objective of MoeBIOS is to demonstrate novel recycling processes for bioplastics waste streams (BIOs) along the EoL within 3 value chains, towards new upcycled high-value products**

moeBIOS



The Consortium

Project lead: ITENE



4 RTOs
1 Association



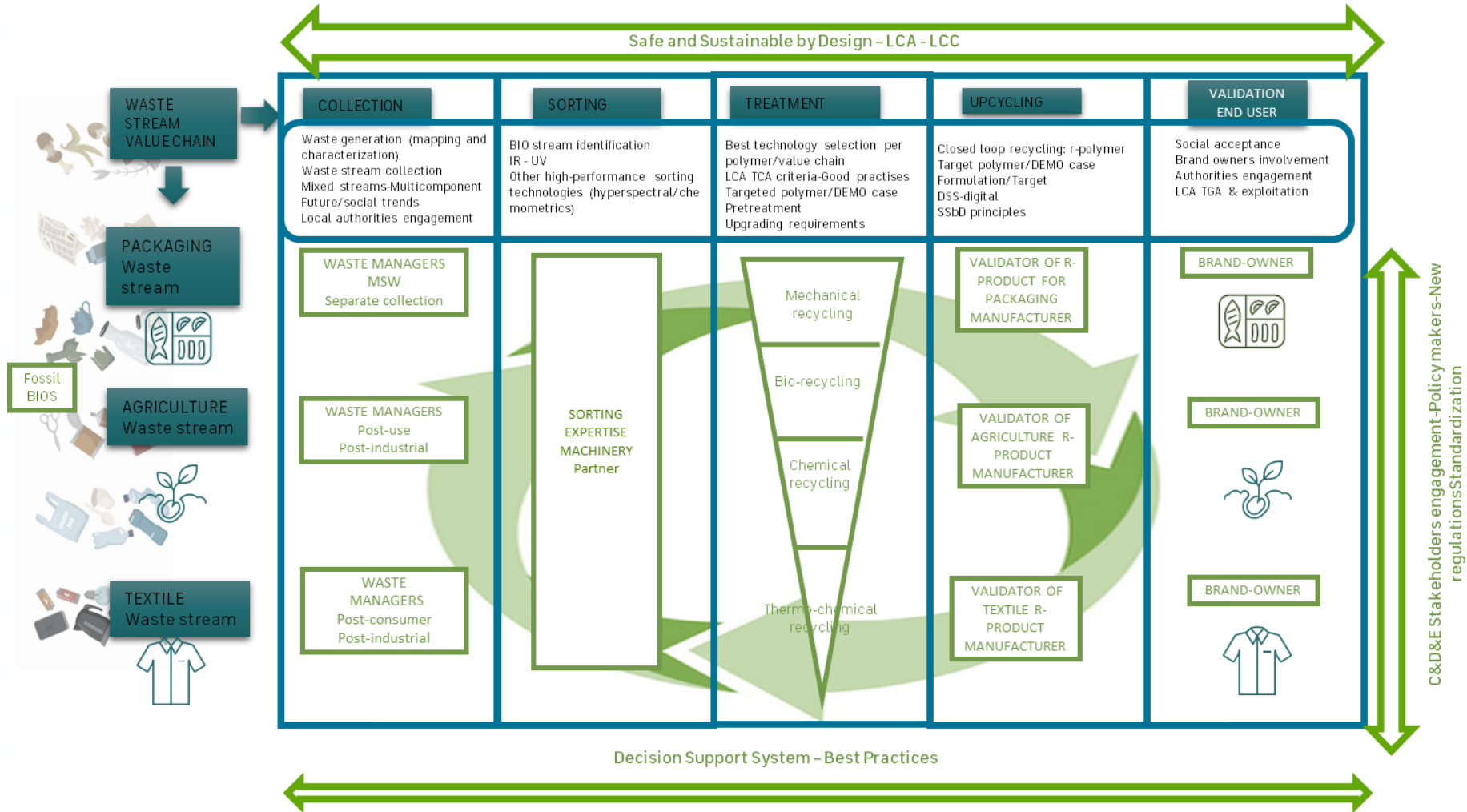
5 SMEs



11 Large Companies



How the challenge is addressed:



- Technology development and implementation along/across the (3) value chains (systemic innovation)
- Integration with current technologies/current recycling lines and models
- Multi-actor and transdisciplinary approach engaging relevant agents

Project preparation plan

1. The coordinator has the main idea and identify for the needed partner profiles

Collection

- Food packaging waste: MSW
- Agriculture wates: post use and post-industrial wastes
- Textile post-consume and post industrial waste

Sorting

- Expert in machinery
- Innovative sorting

Treatment



Upcycling

- RTO, SMEs etc

Upcycling

- End users

Kick off meeting

1. Explaining the call
2. Explaining the particularities of CBE
3. Explaining the project
4. Explaining partners and roles
5. Assigning WP leaders (the core project group)
6. Introducing the plan for submission and deadlines

From here the coordinator will follow the plan for submission

Particularities of CBE

IKOP: in-kind contribution to operational activities

The costs incurred by the private members in implementing indirect actions less the contribution of the JU or any other Union contribution as a reimbursement of those costs.

IKOP calculation

Is the difference of the budget requested and the total cost of those partners that are BIC members

The total budget of the project was	9,745,759.16 €
MOEBIOS contained 9 industrial BIC members that summed	<u>1,718,324.60 €</u>
	18% of IKOP

Initially there were only 3 BIC members. The rest applied for BIC membership as **BIC project members**

REMEMBER BIC MEMBERSHIP IS NOT AN ELEGIBLE COST

Particularities of CBE

Programme (project) contribution

A Programme (project) contribution of 6.5% will have to be paid by the Industry Members participating in an Innovation Action

A first installment of 4% shall be paid at the start of the project. The second installment of 2.5% shall be paid halfway the project (ideally upon receipt of any additional funds released by the CBE JU Programme Office).

NOT ELEGIBLE COST

Main differences with the other pillar II programme

Number of pages increase to 70 from 45

EXCELLENCE

- **Importance on the feedstock origins** food first principle
- **Do not significant harm principles**
- **Assessment of the environmental performance**
 - Identification of the environmental critical issues
 - *Ex-ante* estimation of the environmental sustainability performance (LCA)

IMPACT

- **Present a business model**

OTHER

BIC certificates (to demonstrate the IKOP)

Take into consideration the SIRA

moeBIOS



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