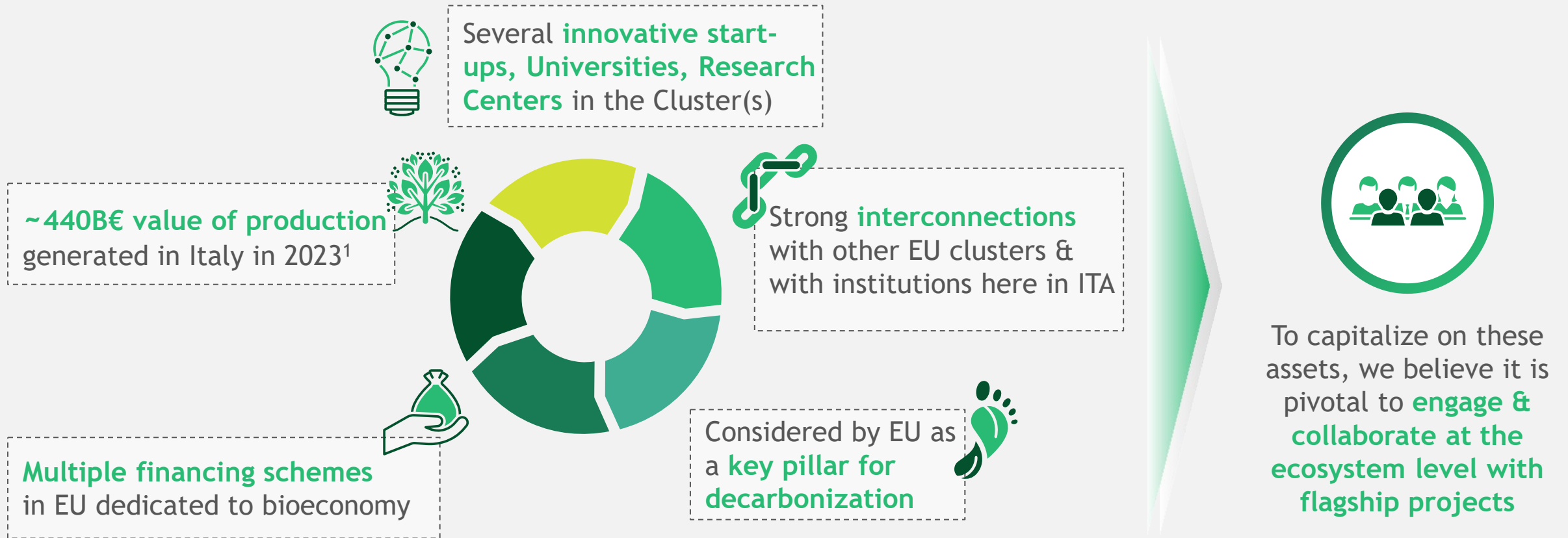




BCG introduction for Spring Cluster

ROME, JUNE 2024

Bioeconomy - a growing pillar, ready for a leading role and full scale up



1. Source: "La Bioeconomia in Europa" report, Research Department ISP

4 EU/ITA funding schemes mapped; CBE-JU and LIFE w/ dedicated opportunities for Bioeconomy & Circularity



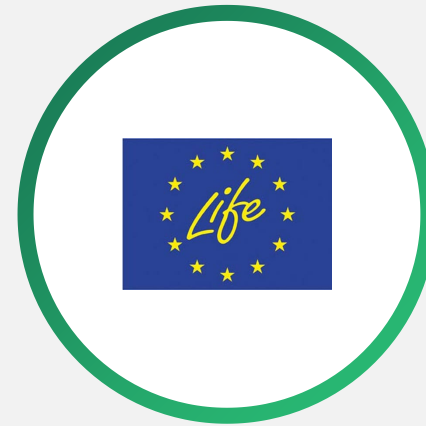
Innovation Fund

Calls for proposal for 2024, closed in Mid-April
Potential grant for a Spring project: **tbd**



Circular Bio-based Europe

Call for proposal, focused on Bioeconomy and Circularity;
Potential grant for a Spring project: **3-7 M€**



LIFE

Call for proposal, focused on Bioeconomy and Circularity;
Potential grant for a Spring project: **2-3 M€**



PNRR

7B€ funding expected on Green Business and Circular Economy
Potential grant for a Spring project: **tbd**

Overall value chain engagement needed

Single tech financing

Value chain creation

4 EU/ITA funding schemes mapped; CBE-JU and LIFE w/ dedicated opportunities for Bioeconomy & Circularity



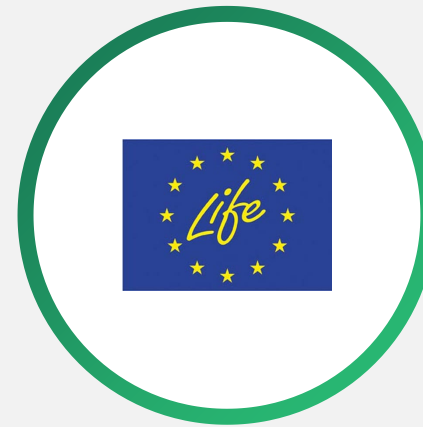
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Circular Bio-based Europe offer 200+ M€ funding opportunities on 15+ project streams with TRL ranging from 3 to 8; program deadline mid-sept '24

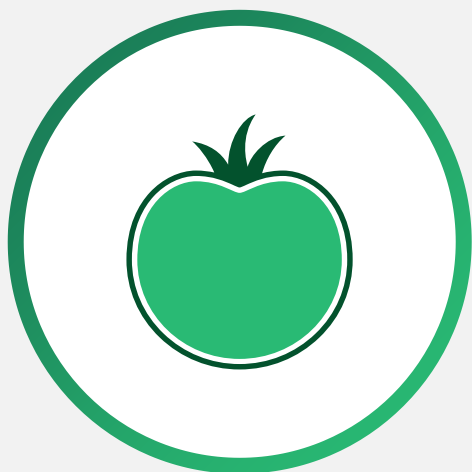


The CBE JU 2024 is a **218M€** call for project proposals with **deadline on 18 September 2024**, part of **Horizon Europe** and PPP between EU and the Bio-based Industries Consortium (BIC)

Innovation actions - flagship (IA-flagship)	Innovation actions (IA)	Research and innovation actions (RIA)	Coordination and support actions (CSA)
<ol style="list-style-type: none"> 1. Bio-based value chains for valorization of sustainable oil crops-20M€ 2. Bio-based dedicated platform chemicals via cost-effective, sustainable and resource-efficient conversion of biomass-20M€ 3. Bio-based value chains for valorization of sustainable natural fibre feedstock-20M€ 	<ol style="list-style-type: none"> 1. Bio-based materials and products for biodegradable in-soil applications-15M€ 2. Sustainable microalgae as feedstock for innovative, added-value applications-15M€ 3. Enlarging the portfolio of commercially produced SSbD¹ solvents-15M€ 4. Circular and SSbD bio-based construction & building materials with functional properties-15M€ 5. Selective and sustainable (co)-production of lignin-derived aromatics-15M€ 6. Innovative bio-based adhesives and binders for circular products meeting market requirements-15M€ 7. Innovative conversion of biogenic gaseous carbon into bio-based chemicals, ingredients, material-15M€ 	<ol style="list-style-type: none"> 1. Valorization of polluted/contaminated wood from industrial and post-consumer waste streams-7M€ 2. Biotech routes to obtain bio-based chemicals/materials replacing animal-derived ones-7M€ 3. Sustainable, bio-based alternatives for crop protection-10M€ 4. SSbD bio-based coating materials for applications under demanding and/or extreme conditions-7M€ 5. Innovative bio-based food/feed ingredients-7M€ 	<ol style="list-style-type: none"> 1. New forms of cooperation in agriculture and the forest-based sector-4M€ 2. Mobilize inclusive participation in bio-based systems and supporting the CBE JU widening strategy and its action plan-3M€ 3. Supporting the CBE JU Deployment Group on Primary Producers-3M€
<p>60 M€</p>	<p>105 M€</p>	<p>38 M€</p>	<p>10 M€</p>
<p>TRL: 6-8</p>	<p>TRL: 6-8</p>	<p>TRL: 3-5</p>	<p>TRL: 1-8</p>

1. Safe and Sustainable by design
Source: Circular Bio-based Europe

Illustrative & Outside-in: 3 opportunities for discussion, in line with EU funding schemes requirements



Tomato-industry
waste utilization to
produce bio-coating



Design the value
chain for "fortified
flours"



Compostable/
recyclable diapers

example next

Compostable/recyclable diapers | Market leaders starting to evaluate diapers' recycling plants; compostable solutions still a niche area of analysis





Selected examples, not exhaustive

Market leaders are starting to evaluate diapers' recycling plants as they are concerned of bio-based solutions' performances


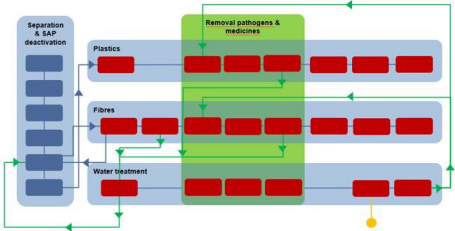
New technologies for diapers' recycling emerging in Europe

Some private labels & start-ups starting produce bio-based solutions

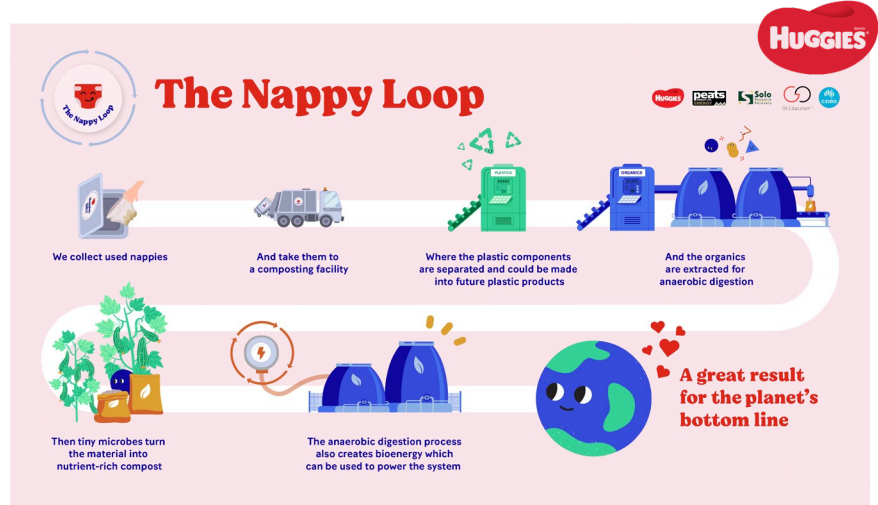
fater Studied 1° diapers' recycling plant in the world
Kimberly-Clark Creation of a pilot proj. in Australia to produce recycled plastics + compost + bioenergy - below

  Diapers recycled in a boiler at 250°C to produce pellets that are used to manufacture plastic panels
 

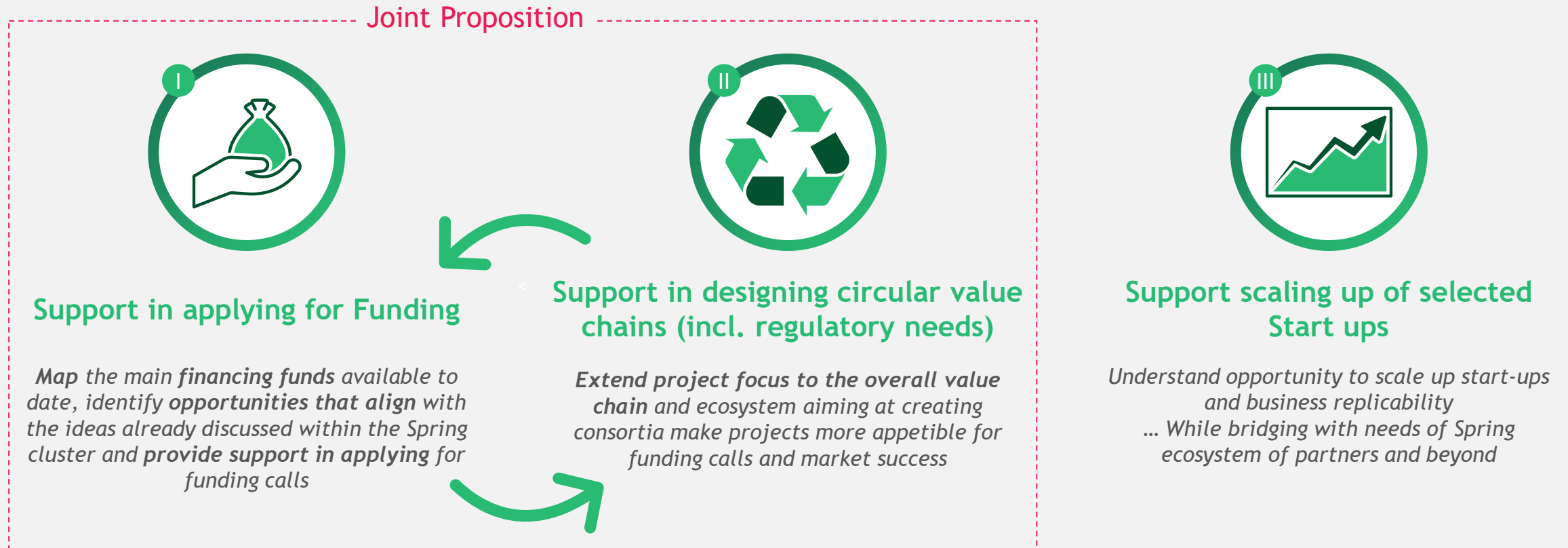
ECO BOOM® Produces 100% compostable bamboo-based diapers

 **Recycling Europe: "we use the latest technologies".**
 Integrated plant for diapers' recycling (1st pilot in H2 2024)
 Clean reclaimed materials: free from pathogens and medicines
 Efficient use of energy and water

drylock TECHNOLOGIES Diapers compostable in standard composting facilities and is made from 80-90% natural, plant-based materials



3 BCG potential roles to support Spring value creation





[bcg.com](https://www.bcg.com)