



Bio-based Industries
Joint Undertaking

BBI JU – Towards circular society and industry

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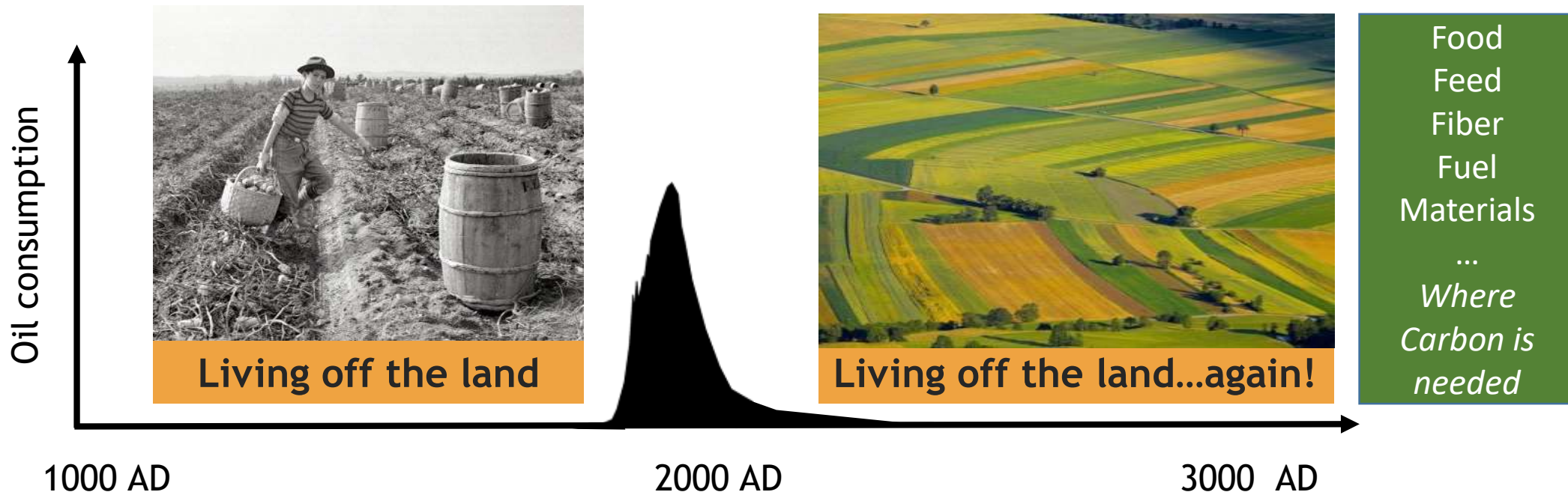
 @philippemengal



Bioeconomy: already a reality today Growth must be sustainable and circular

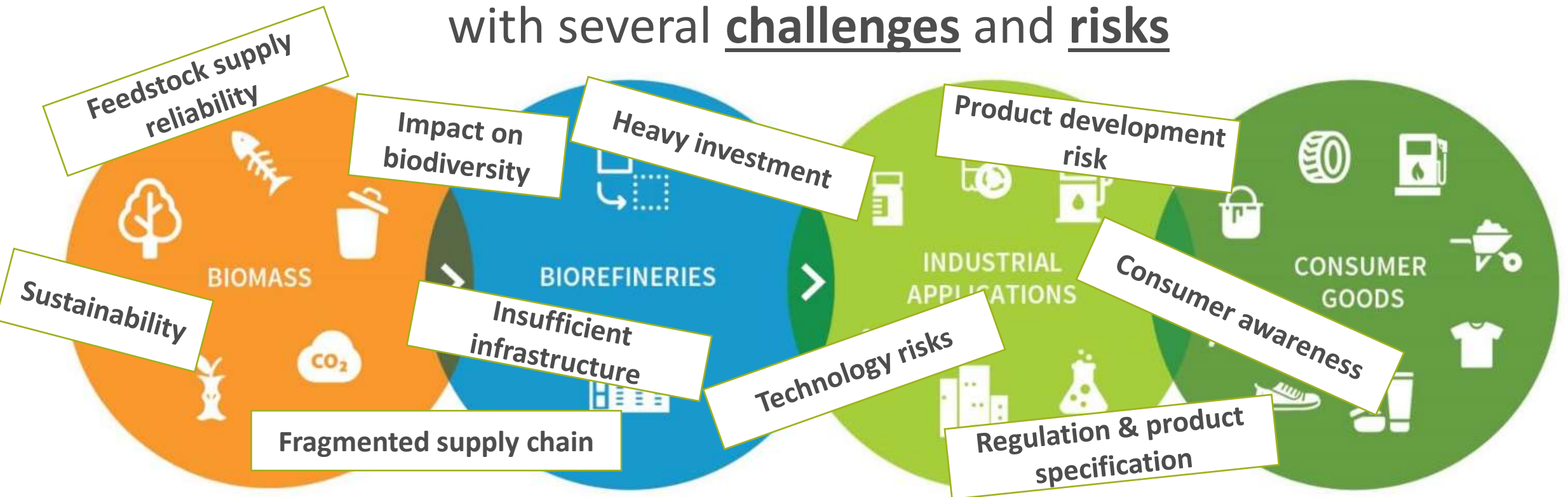
Boom of the industrial
revolution

Fossil economy is just a brief
moment in our history



Bio-based industries value chains in EU 750 trillion Euros – 3.6 million direct jobs*

Bio-based industries value chains are faced with several challenges and risks





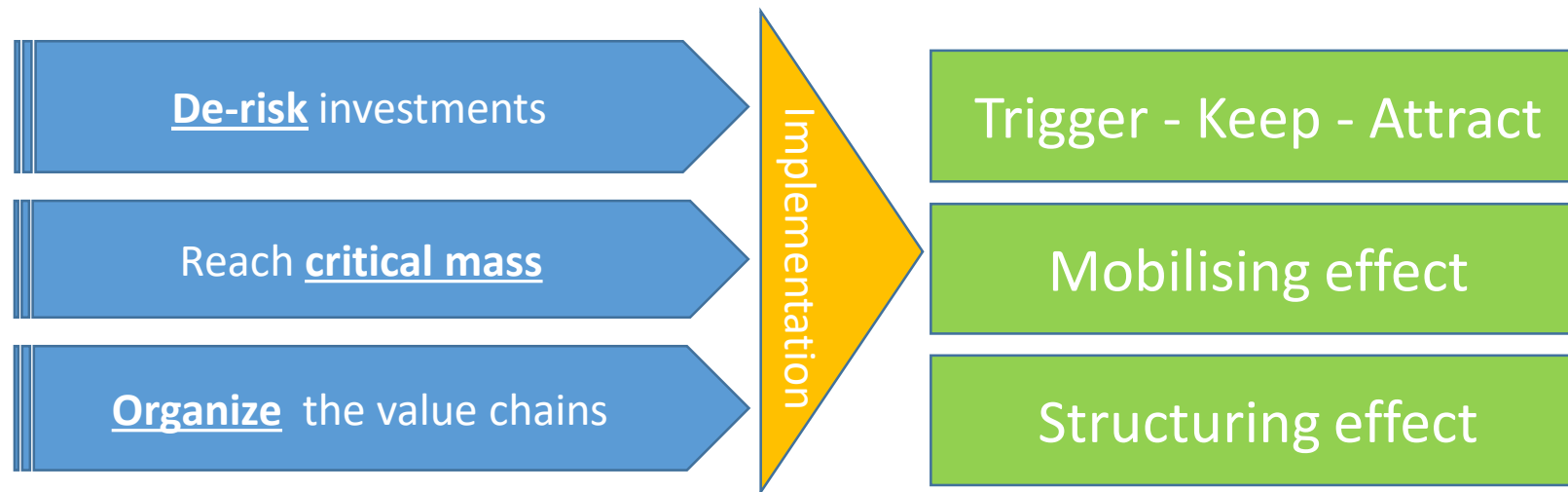
BBI JU was part of EU Bioeconomy strategy in 2012

Public-Private Partnership (PPP) between European Commission & BIC (Bio-based Industries Consortium)



- BBI JU Budget: € 3.7 bn (25% EU - 75% BIC)
- Support R&I programme in Bio-based industries

BBI JU = European public-private partnership aims at:



BBI JU objectives

Develop sustainable and competitive bio-based industries in Europe, based on advanced biorefineries that source their biomass sustainably.

How ? By implementing SIRA

1. Demonstrating new technologies

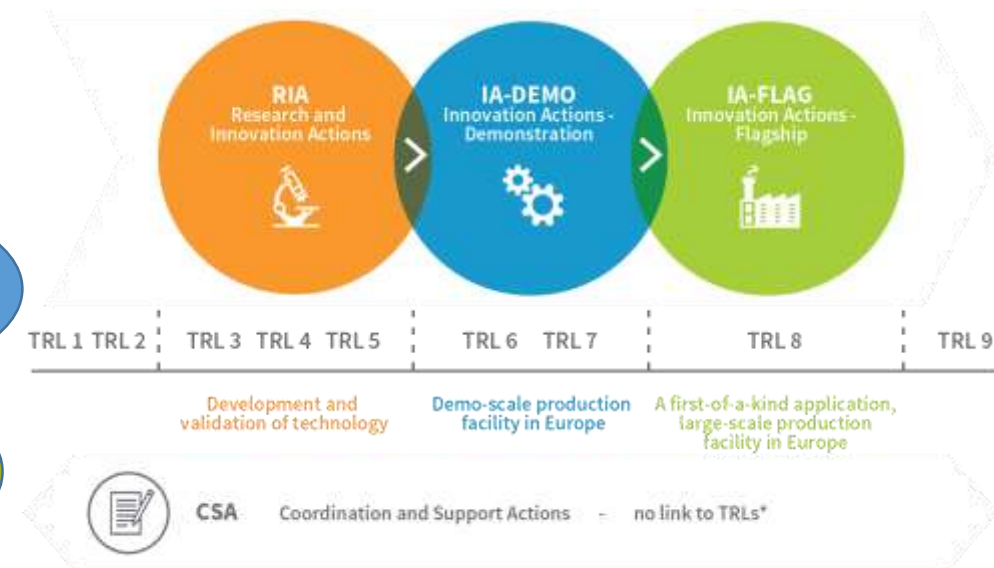
RIA

2. Developing business models

Demo

3. Set-up flagship biorefinery plants

FLAG



*TRL = Technology Readiness Levels

Expected impact for Europe by 2030*

2014 - A flavour of Green Deal



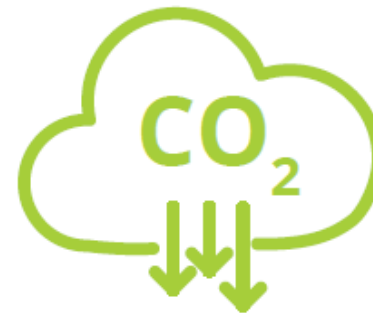
- Replacing 25% of oil-based chemicals by 2030
- 10 times more bio-based materials



- Creating up to 700,000 green jobs by 2030 especially in rural and coastal areas
- Diversify and grow farmers revenues

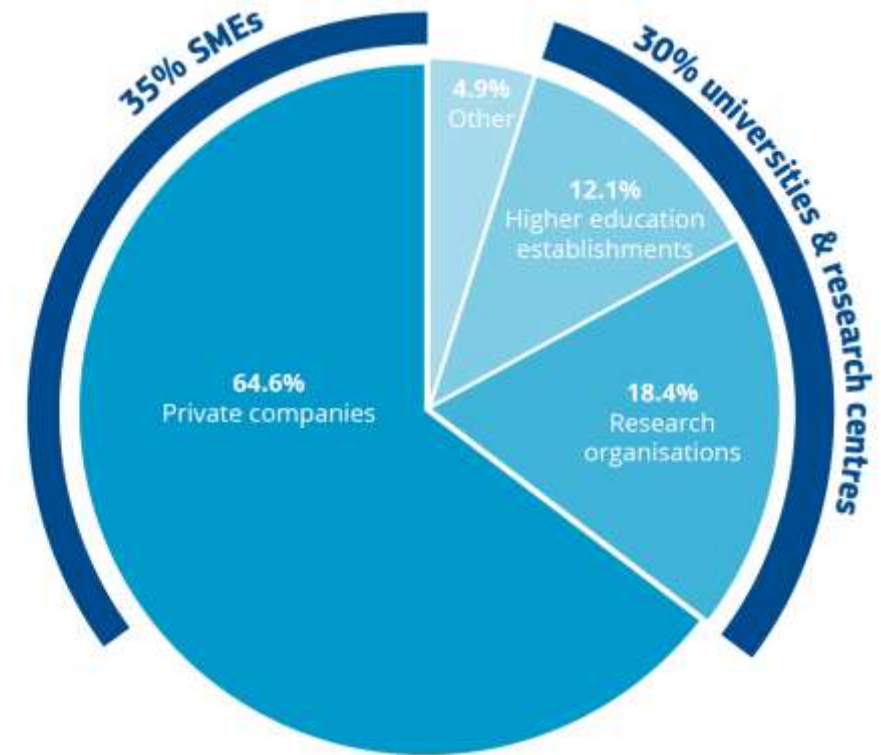
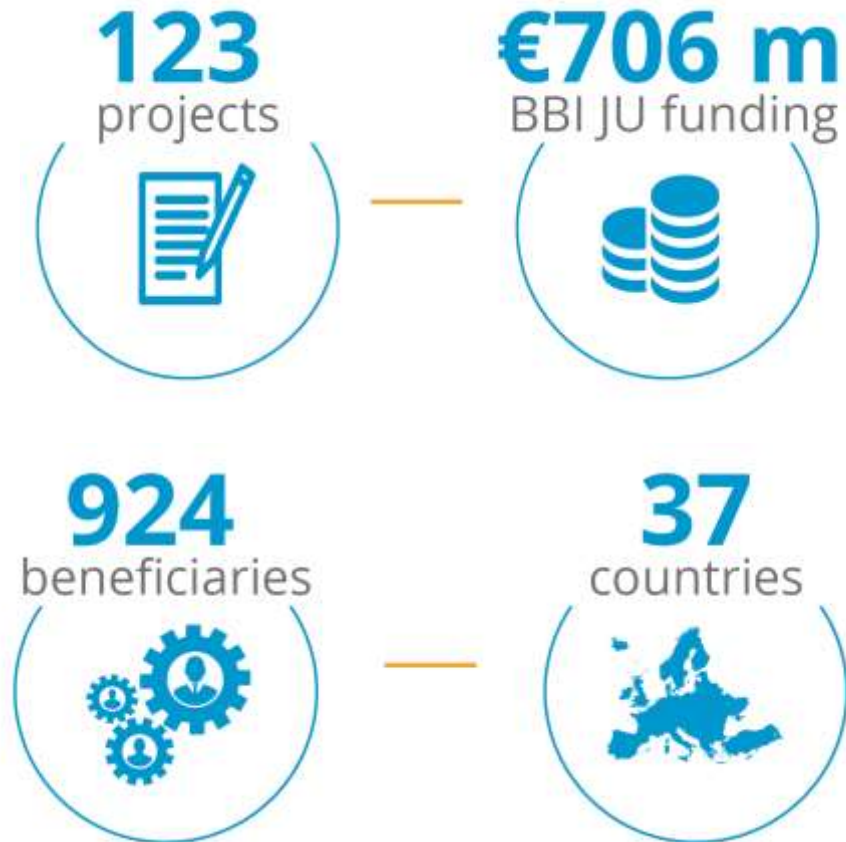


Reducing EU's dependency on the import of strategic raw materials, such as protein (by 50%), phosphorus and potassium (by 25%)



Reducing greenhouse gas emissions by 50%

BBI JU portfolio Call 2014 – 2019

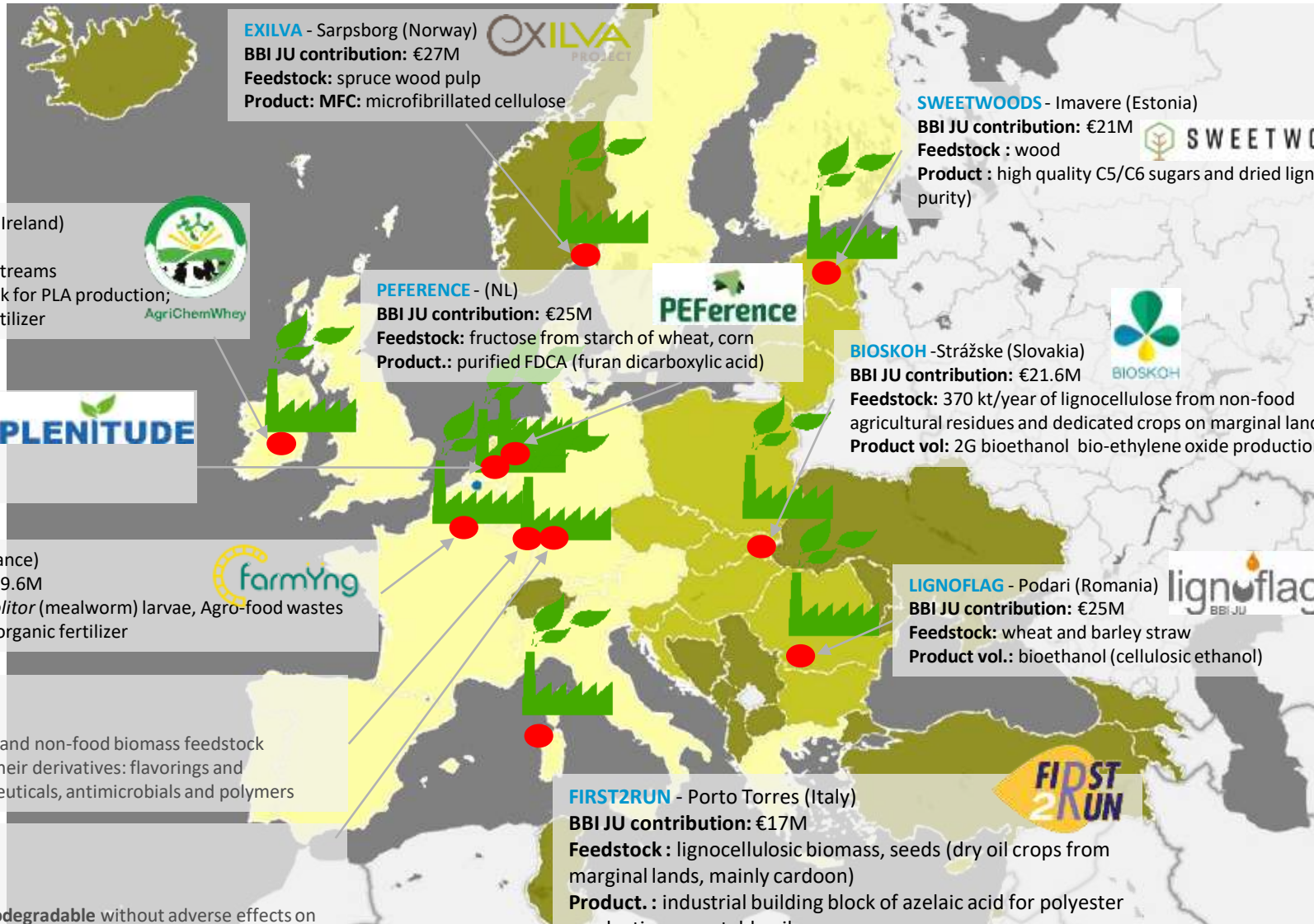


Funding per type of organisation



BBI JU Flagships biorefineries

Sustainable and circular



- EU13
- EU15
- AC
- FLAG

11 FLAGSHIPS

3.500 direct jobs

> 10.000 indirect jobs

Total Grant: € 228 million

€1.3 billion private investment

High replicability potential

BBI JU projects sustainable feedstock



**EXPLOITING
AGRICULTURAL
WASTE**

91%

of projects using agricultural feedstock only use waste and by-products, and 7% use crops grown in marginal lands.



**BOOSTING
SUSTAINABLE
FORESTS**

96%

of projects using forest-based feedstock use wood residues, cellulose and pulp, and paper industry sidestreams. Only 4% cut wood, exclusively from sustainably managed forests.



**DEVELOPING
CIRCULAR BLUE
BIOECONOMY**

100%

of aquatic feedstock used in projects are algae and by-products of fish and seafood, which helps make the fishing industry more circular.



Environmental impact (Call 2014 – 2018)

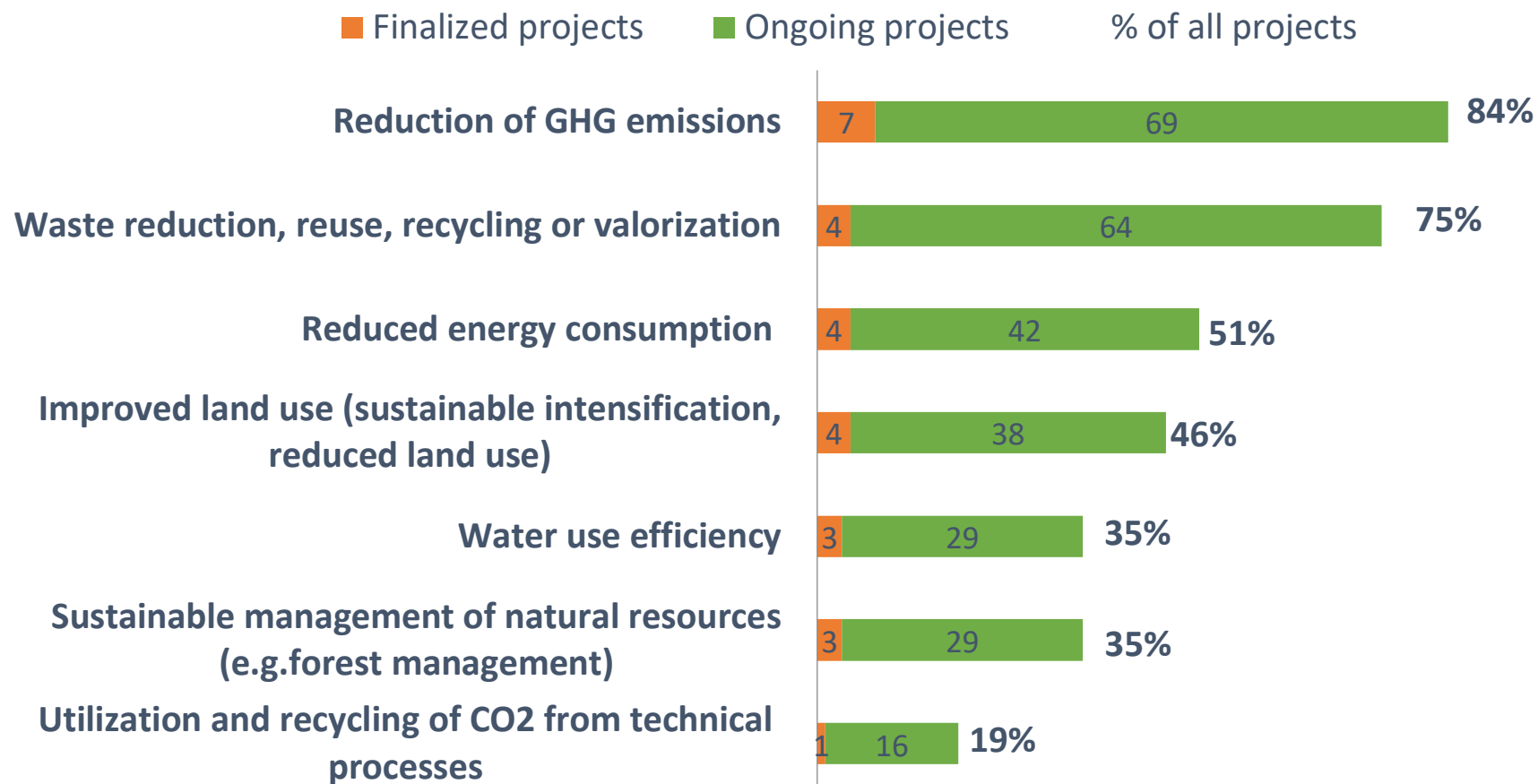
BBI JU projects foster the development of sustainable bio-based industries with reduced environmental impact



REDUCING EMISSIONS



ENHANCING SUSTAINABILITY AND CIRCULARITY






Thank you!

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