

Investing in Bio-based activities – Role of Bio-based Industries Joint Undertaking



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EU BIOECONOMY– Why?

Bio-based industries part of Bioeconomy weighing :

- Annual turnover of 2 Trillions Euros
- 22 Million Jobs (10% EU employment)

→ **Europe** was facing **inter-related challenges**:



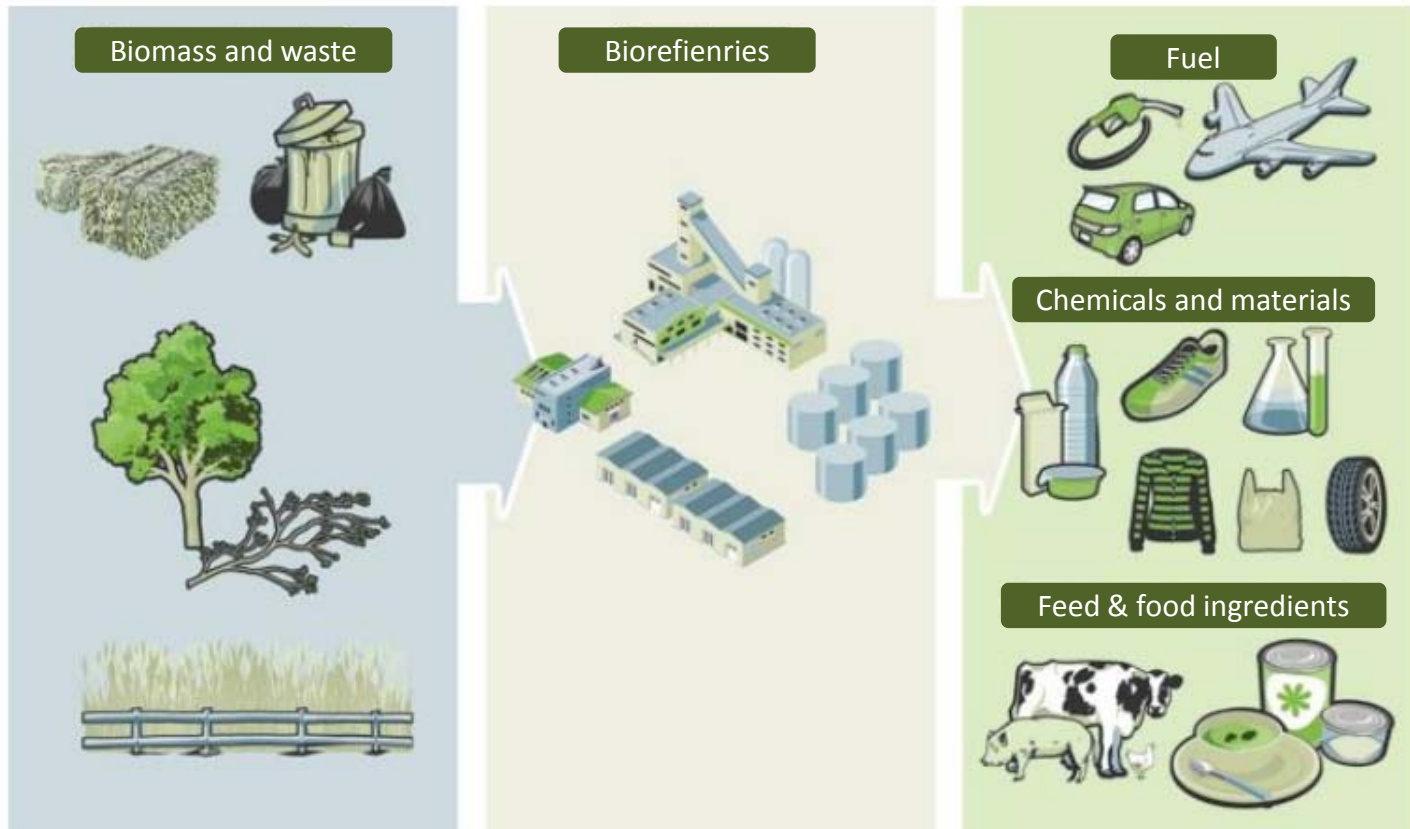
1. **Food security**
2. **Energy security**
3. **Climate change**
4. **Re-industrialisation of Europe**
5. **Reducing dependence on fossil resources**

→ **Bioeconomy strategy** Adopted on 13 February 2012



BioBased Industries value chains

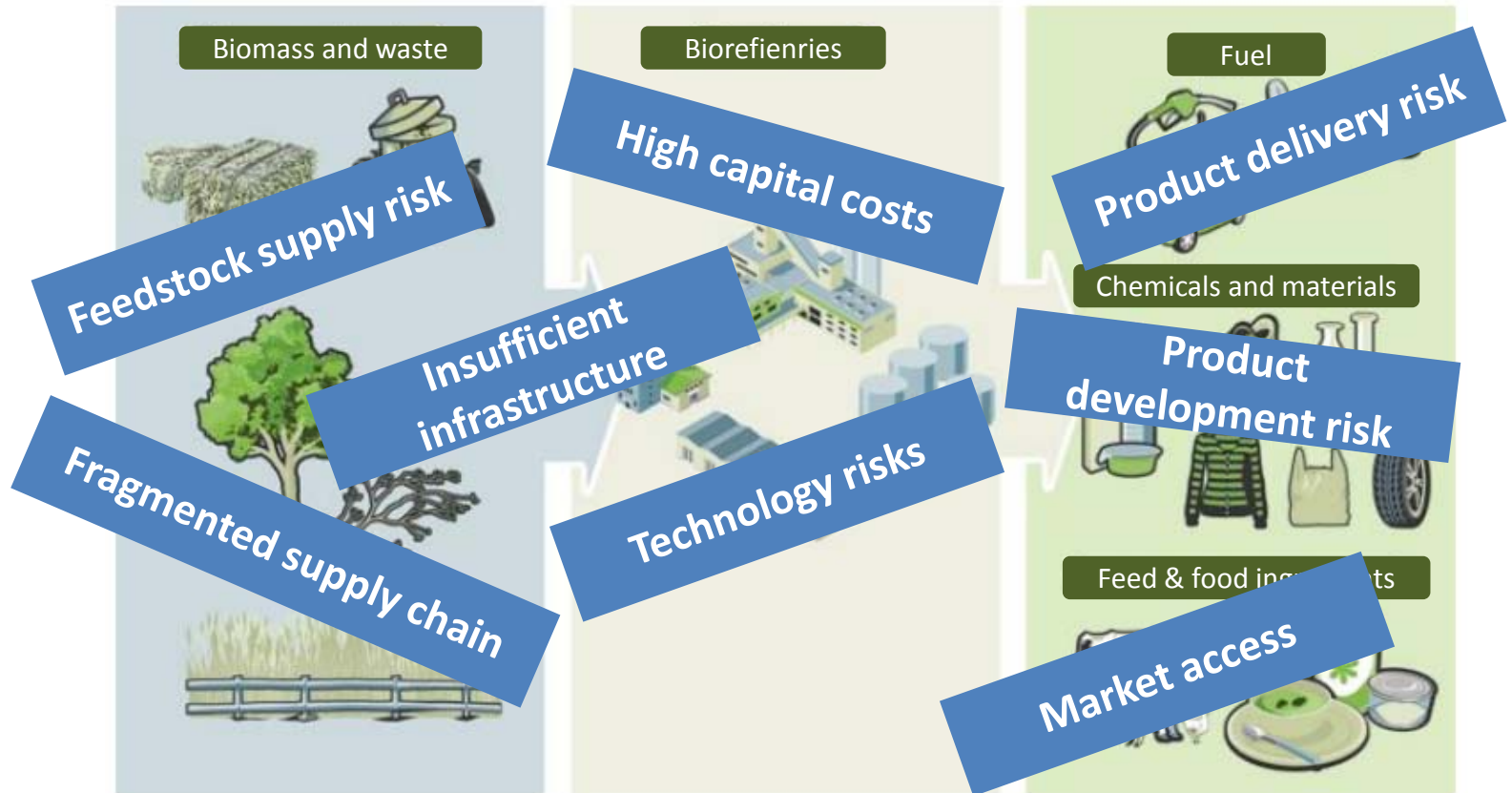
Bio-based industries value chains cover all three segments: biomass supply, biorefineries and final products applications.





BioBased Industries value chains

Bio-based industries and their value chains are facing complex and substantial technology and innovation challenges.





Why BBI JU?

European public-private partnership needed to **de-risk, organize & reach critical mass** of emerging BBI

Height reasons for BBI JU:

1. Helping pooling resources from public and private sectors, to create a common platform
2. Joint approach, across sectors and geographies
3. Reach critical mass in a focused and coherent way in terms of scale of activity, excellence, potential for innovation.
4. Joint financial commitment and a jointly defined programme
5. The ability to leverage additional investments.
6. Allow industry to get organized along bioeconomy value chains
7. Clear framework that brings clarity for activities & investments
8. Long term stability and predictability



About Bio-based Industries JU

Public Private Partnership between **European Commission & BIC** supporting **R&I for bio-based industries** launched in 2014

BBI JU Budget: €3.705 billion (about 75% from industry)

- Independent body since October 26th, 2015
- Horizon 2020 rules for participation
- Principles of **openness, transparency and excellence**



BBI JU Objectives :

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

- 1. Demonstrating new technologies** using European biomasses: new chemical building blocks, new materials, and new consumer products from European biomass;
- 2. Developing business models** integrating economic actors along the value chain
- 3. Setting-up flagship biorefinery plants** deploying technologies & business models for bio-based materials, chemicals & fuels, demonstrating cost & performance



BBi JU - Governance

Public partner
Represented by
EC



European
Commission



Bio-based Industries
Consortium

Private partner
Represented by BIC
75% of investment
in BBi JU

Become BIC
member



Governing Board
(10 seats)

Executive Director

Programming Office Staff

BIC - Main tasks :

- Define the BBi's SIRA

...ent & drafting of
Plans & Call for

...stakeholders across
, research

...versities, regions
...ns for) "Access to

finance" in Europe



BBi JU focus



Feedstock

- Foster sustainable biomass supply and build new value chains



Biorefineries

- Optimise efficient processing through R&D and scaling-up to large-scale demo/flagship biorefineries



Markets, products and policies

- Develop markets for bio-based products and optimise policy frameworks



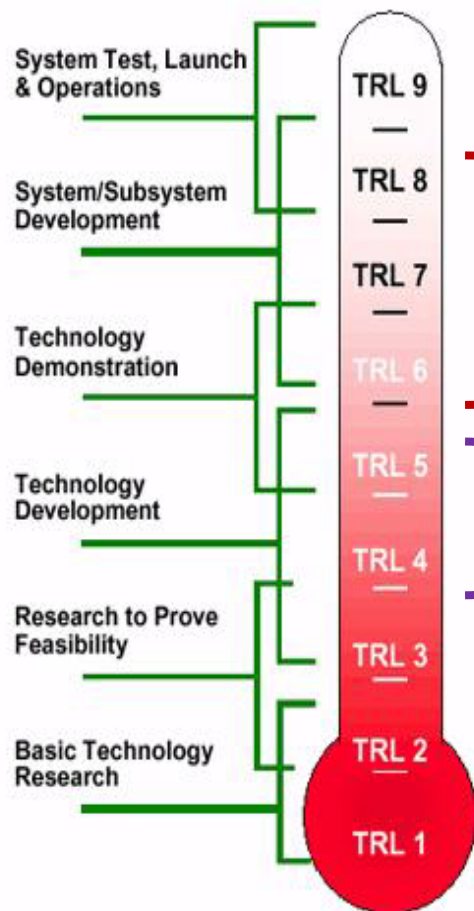
Expected impact for Europe by 2030 :

1. Develop the potential of agriculture waste and forestry residues.
2. Replace 30% oil based chemicals & materials
3. Diversify & grow farmers income
4. Create 1 million jobs – 80% in rural area
5. Reduce dependency on import of fossil raw materials
6. Shift to bio-based → average 50% GHG emission reduction



Actions funded by BBI JU

Call still open
Closed December 3rd



1. Innovation Actions (IA), consisting of:

- DEMO projects (TRL 6-7)

VALCHEM

- Flagship projects (TRL 8)

FIRST2RUN

2. Research & Innovation Actions (RIA, TRL 4-5)

NEWFERT

3. Coordination & Support actions (CSA)

cross-sectorial challenges, supporting VCs, networking...



Thank you