



Bio-based Industries Joint Undertaking BBI JU

**Investing € 3.7billion to Bring Bio-based Products to Market:
Ensuring Europe Competes in the Global Bioeconomy Race**

SCALING-UP 2017 Ottawa, 28 November 2017



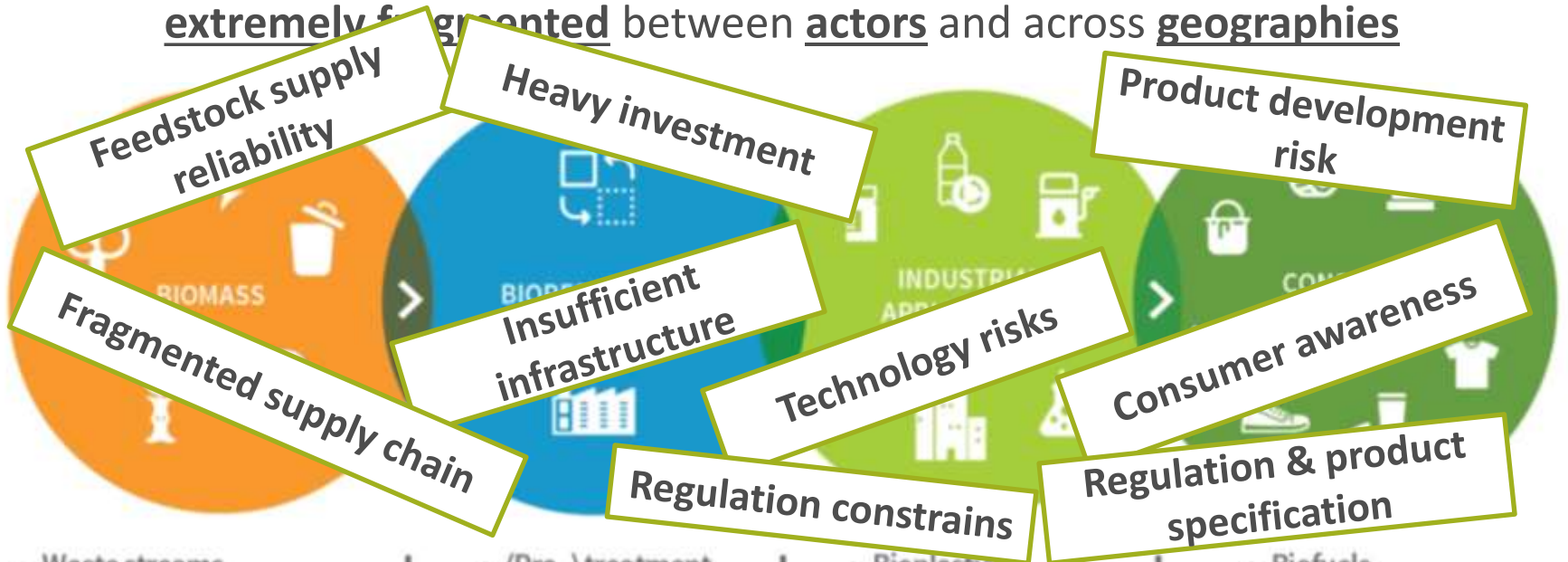
Philippe Mengal

BBI JU Executive Director



EU Bio-based industries (BBI) value chains in 3 segments

EU BBI value chains represent 3.3 million jobs and € 674 bn turnover but extremely fragmented between actors and across geographies



- Waste streams
- Multiple organic waste
- By-products & by-streams
- Forestry side-streams
- Dedicated agricultural crops and residues
- Aquatic biomass
- Food processing residues
- Process and waste water
- CO₂

- (Pre-) treatment
- Transformation

- Bioplastics
- Building blocks
- Biopolymers
- Surfactants
- Active ingredients
- Biomaterials
- Biolubricants

- Biofuels
- Textiles
- Packaging
- Solvents
- Furniture
- Cosmetics
- Construction elements
- Pharmaceuticals
- Clothing
- Car components



BBI JU was part of EU Bioeconomy strategy in 2012

European public-private partnership (iPPP) was needed to:

- **De-risk** investments;
- **Organize** the value chains;
- Reach **critical mass** of this “emerging” sector

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

- 1. Demonstrating new technologies** to fill the gap
- 2. Developing business models** integrating all economic actors along the value chain
- 3. Set-up flagship biorefinery plants** deploying business models & technologies to keep investment in EU



About BBI JU

- Public-Private Partnership (PPP) between European Commission & BIC supporting R&I for bio-based industries
- BBI JU Budget: € 3.7 billion (25% EU - 75% BIC)
→ Fund R&I projects from technology development to full scale
- EU body - operates under Horizon 2020 rules

BBI JU Mission

Implement under Horizon 2020 rules, the Strategic Innovation and Research Agenda (SIRA) developed by the European Bio-based industry (BIC)



Expected impact for Europe by 2030

- Replace 30% of oil-based chemicals & materials
- Diversify and grow farmers' revenues
- Create 700,000 jobs – 80% in rural areas
- Reduce EU's dependency on import of fossil raw materials, protein and P - K
- Develop potential of agr-food “waste” & forestry residues
- Shift to bio-based economy → average 50% GHG emission reduction



How are the BBI JU objectives implemented?

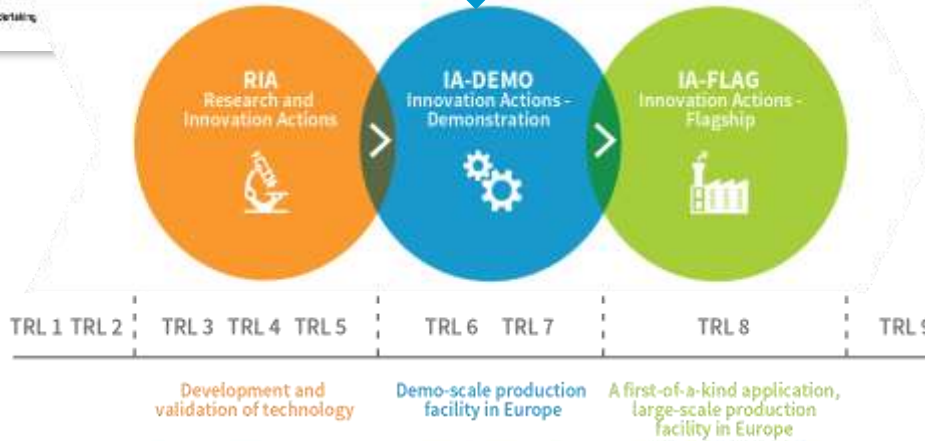


Strategic level: SIRA
Strategic Innovation and Research Agenda
guiding document developed by BIC



Operational Level
Annual Work Plan

Drafting – Approval – Supporting



CSA Coordination and Support Actions - no link to TRLs*



BBI JU Flagships & Demo plants on-going projects

- **Flagships**
- **Demo plants**



OPTISOHEM:
3 DEMO plants will be involved in the projects. The locations are not confirmed yet. Two possible locations: **Germany** and **Belgium**

→ More information on the projects: www.bbi-europe.eu



BBI JU achievements

- BBI is achieving its objectives with two main effects*:
 1. Structuring effect
 2. Mobilizing effect
- Increasing mobilisation in BBI calls
- Optimal Value Chains coverage
- Demonstration and Flagships
- New types of collaboration
- High % of SME participation
- Growing BBI JU awareness (also outside EU)
- The industry invest massively 2014: €2bn → 2017: €5bn
- Europe back on the map


(*) More information: BBI JU interim evaluation report




Thank you

- 1st BBI JU Stakeholder Forum
7 December 2017, The Square, Brussels,
Belgium
- BBI JU Open InfoDay, Brussels 17 April 2018


Contact us

 info@bbi.europa.eu

 www.bbi-europe.eu

Follow us

 Bio-based Industries Joint Undertaking

 @BBI2020