



Strategic Innovation and Research Agenda



A PUBLIC-PRIVATE PARTNERSHIP ON BIOBASED INDUSTRIES  
Ward Mosmuller – Budapest – 03 July 2013



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## Focus of the Biobased PPP



- Creating value chains via cooperation across sectors:  
→ **5 main innovative biobased value chains**
- Demonstration activities to prove viability of the value chain  
→ **overcome investment barriers**
- Technological challenges identified  
→ **in demonstration projects**  
→ **as the basis for R&D projects**

# SIRA

Strategic Innovation & Research Agenda

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## About the SIRA



### Strategic Innovation & Research Agenda

**SIRA = translation of ambitions into actions / projects**

→ tangible & ambitious results

### AIM

- to have competitive biobased products in the market in 2020,
- each step of the value chains needs to be competitive!
  - feedstock supply
  - processing
  - products & market

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## Four types of projects (1)



**The SIRA includes a balanced combination of projects:**

- 1.R&D Projects
- 2.Demonstration Projects
- 3.Flagship projects
- 4.Supporting projects

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## Four types of projects (2)

### 1. R&D PROJECTS

- Filling the gaps in technological innovations:
- Development of specific technologies and concepts
- Supportive to realise the value chains
- Proof of principles in pilot installations

### 2. DEMONSTRATION PROJECTS

- Integrate & deploy technologies and R&D results into actual value chains
- Bring technologies close to commercial scale
- Upscaling in demonstration activities

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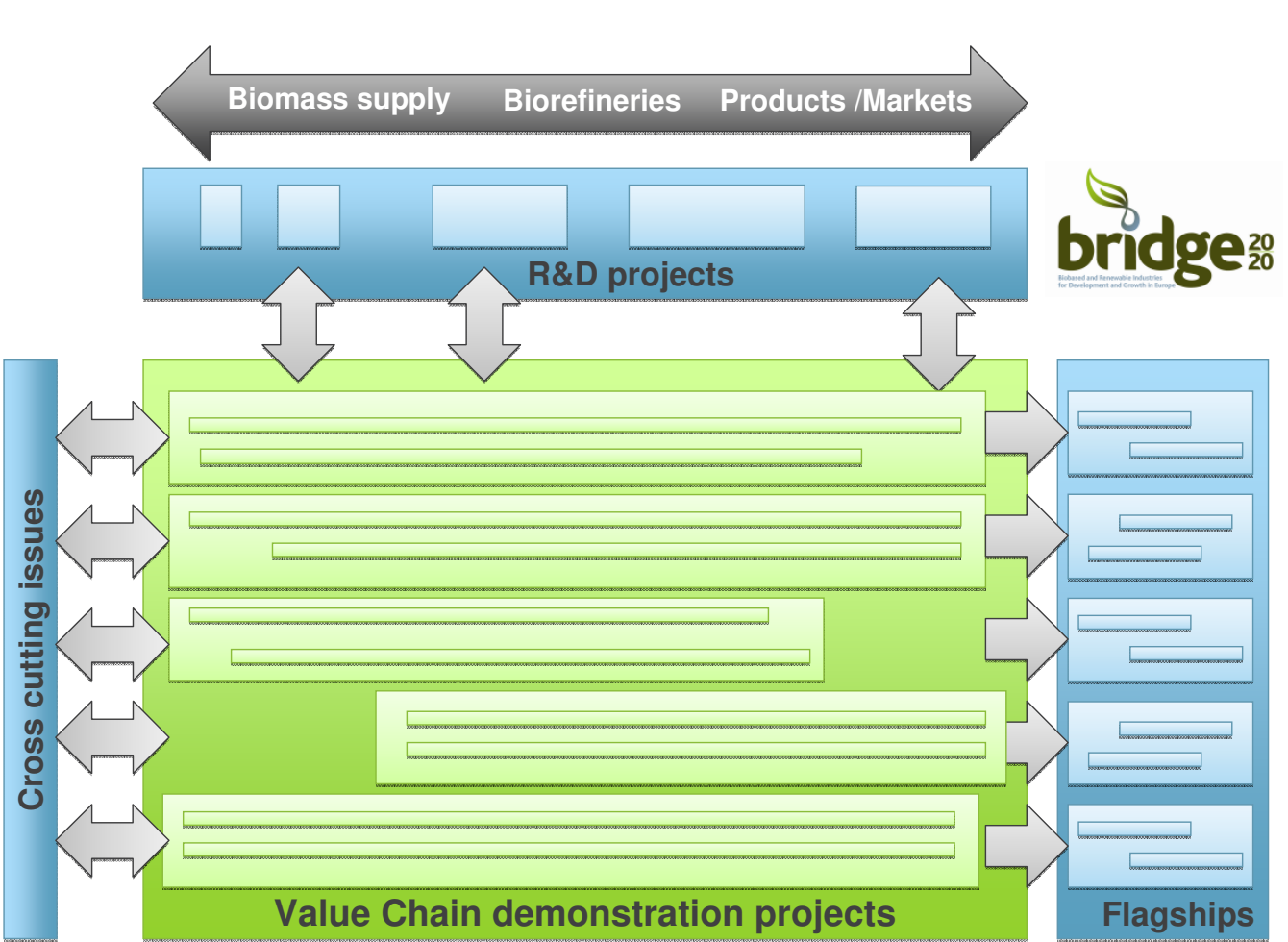
## Four types of projects (3)

### 3. FLAGSHIP PROJECTS

- Optimise technology for biomass conversion
- Ensure price-competitiveness
  - building new operations
  - upgrading existing/abandoned industrial sites to be converted into biorefinery operations
- Each value chain area will lead to at least one flagship project.

### 4. SUPPORTING PROJECTS

- Research solving cross-cutting issues arising from the Value Chain demonstration projects.





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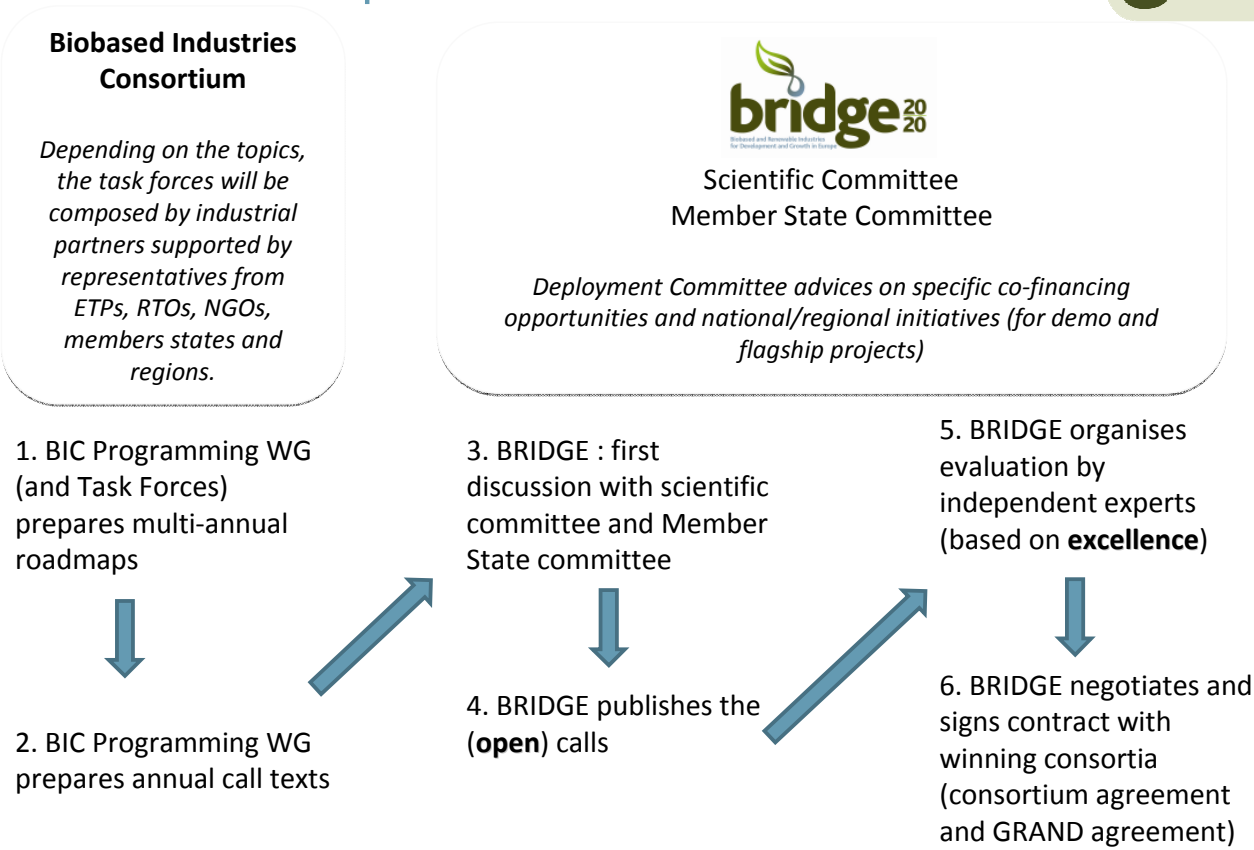
## 1. Value Chains

- **Value Chain 1: From lignocellulosic feedstock to advanced biofuels, biobased chemicals and biomaterials:** realising the feedstock and technology base for the next generation of fuels, chemicals and materials
- **Value Chain 2: The next generation forest-based value chains:** utilisation of the full potential of forestry biomass by improved mobilisation and realisation of new added value products and markets
- **Value Chain 3: The next generation agro-based value chains:** realising the highest sustainability and added value by improved agricultural production, and new added value products and markets
- **Value Chain 4: Emergence of new value chains from (organic) waste:** from waste problems to economic opportunities by realising sustainable technologies to convert waste into valuable products
- **Value Chain 5: The integrated energy, pulp & chemicals biorefineries:** realising sustainable bio-energy production, by backwards integration with biorefinery operations isolating higher added value components

# Call procedure

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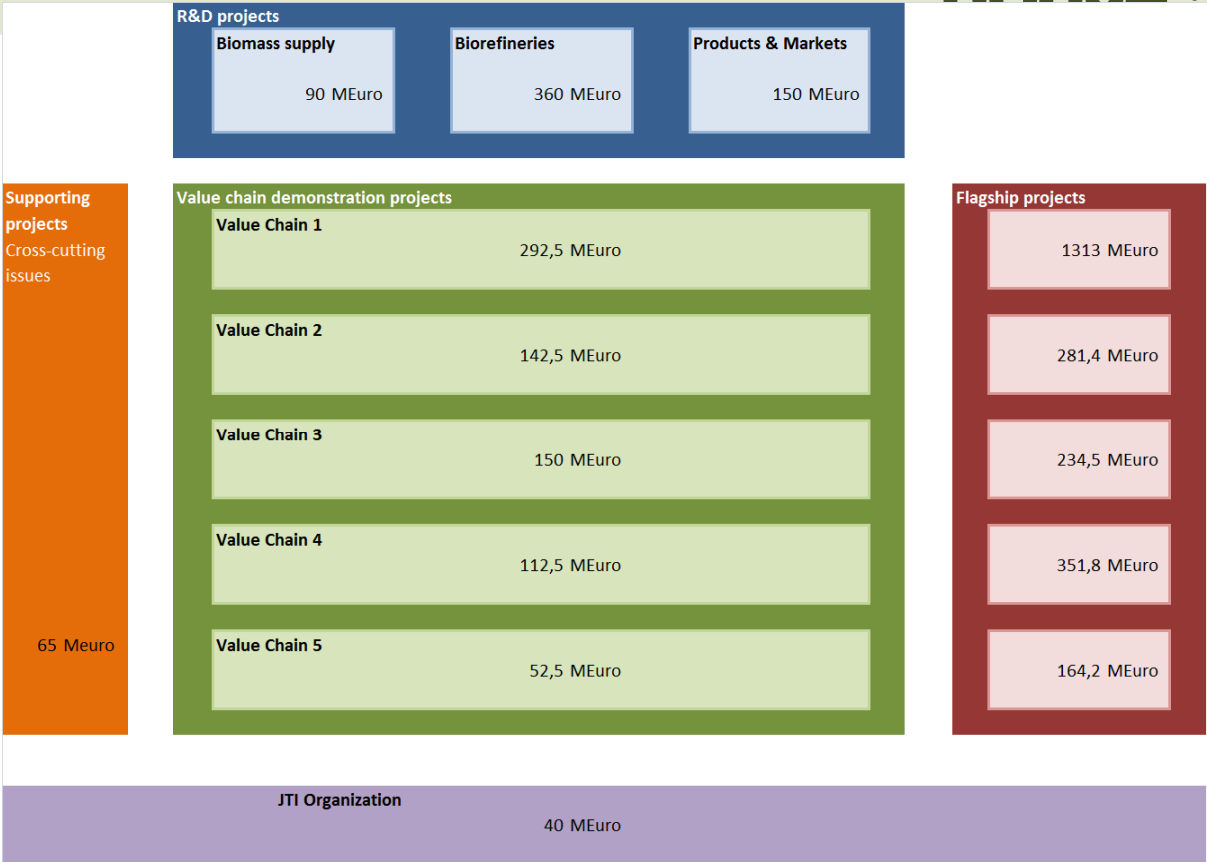
# BRIDGE: call procedure





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Biobased Industries PPP – budget distribution



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## PPP principles

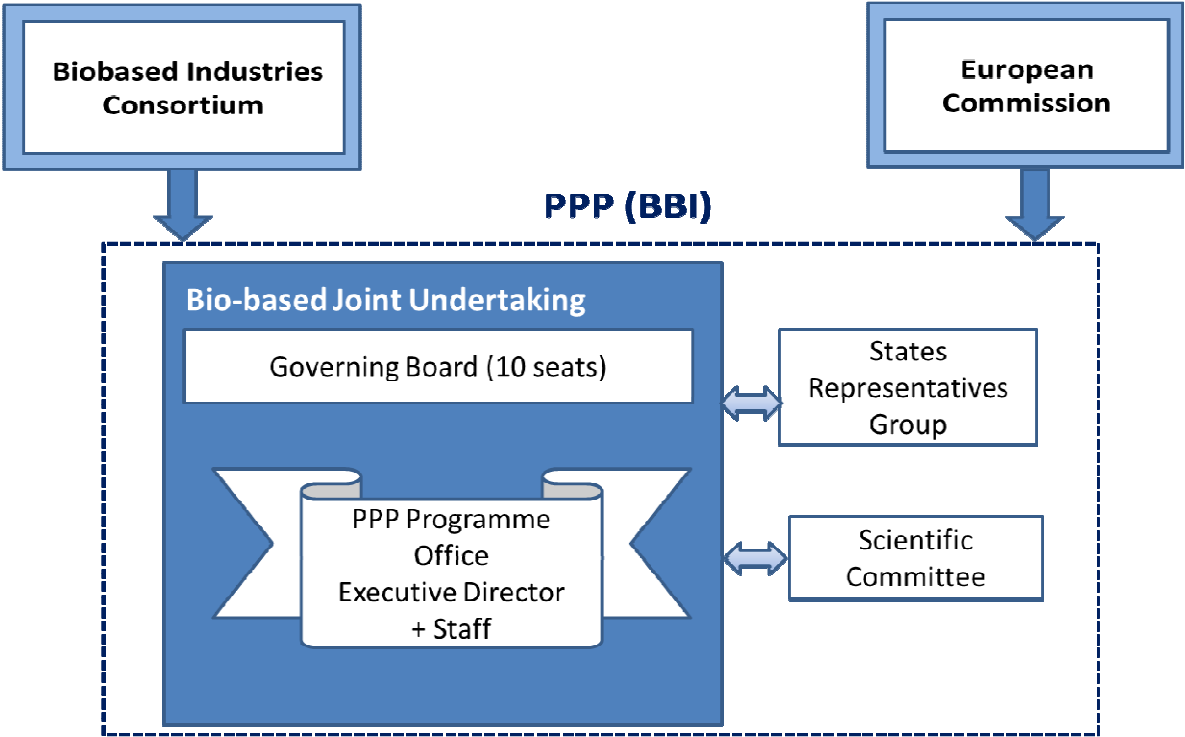


- **OPENNESS:** Applications for financial support will be made following open competitive calls for proposals
- External and independent evaluation of the projects on the basis of **EXCELLENCE**
- Strong participation of **ACADEMIA, RESEARCH ORGANISATIONS & SMEs**
  - EU Funding in R&D projects only to academia, RTOs and SMEs
  - Additional industry funding will go to academia, RTOs and SMEs through their participation in industry-driven demonstration activities
- **MEMBER STATES** will play a key role in the deployment of projects

# GOVERNANCE

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# Governance Structure



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## Rationale for a JTI



- **Clear framework** that brings clarity for activities and investments
- **Long term stability and predictability** that secures the joint commitment on both the public and private side
- **One pan-European structure** to unite scattered national partners and initiatives that will work together to build the value chains
- **Joint financial commitment** necessary to deliver on clear objectives within a **jointly defined programme** that would be too risky for individual sectors/companies to carry out on their own
- Opportunity to **leverage further investments**, including additional private funding
- **Flexible structure** for evolving needs and speed of the developments
- **Industry driven** and therefore result and market-oriented



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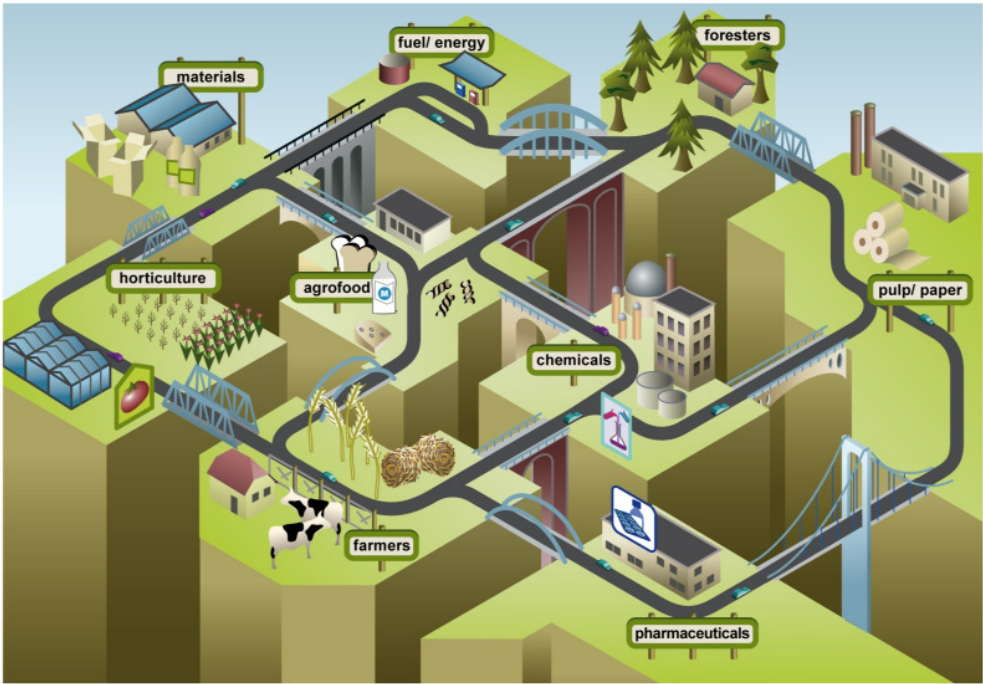
# Our sectors



Stage 1 - Reinforce innovation and extend current infrastructure across the economy

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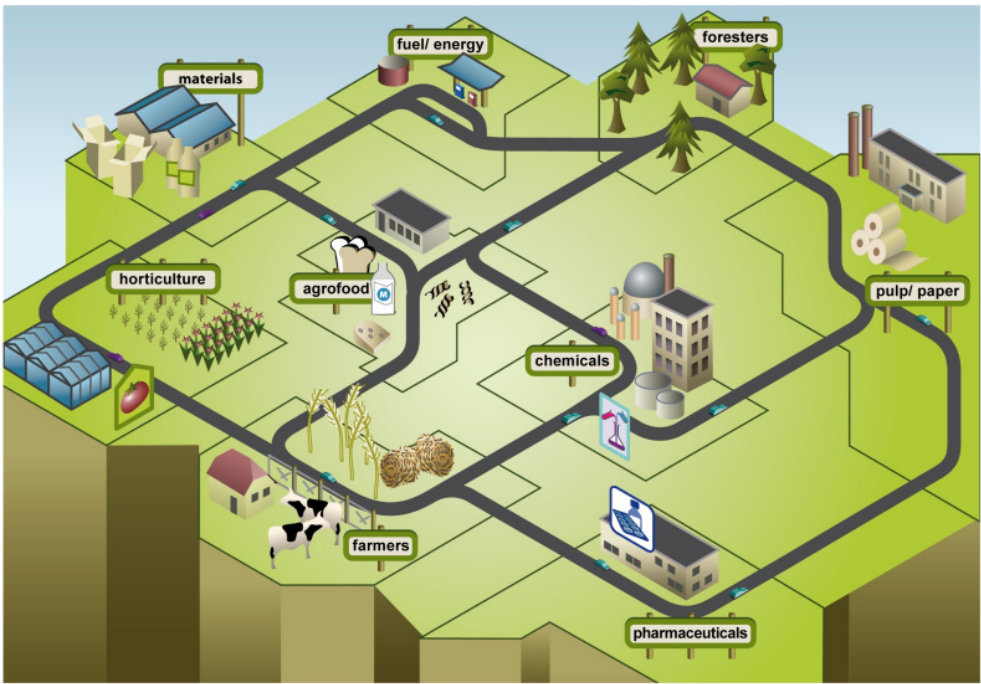
# The BRIDGES




Stage 2 - Build and strengthen value chains across industry sectors

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# The BRIDGE community



Stage 3 - Realise a connected biobased economy from field to end consumer



# Join us!

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### 3. R&D topics

- **Foster a sustainable biomass supply to feed both existing and new value chains**
  - Increase biomass production by improving agricultural practices and taking advantage of local biodiversity (complementary to the European Innovation Partnership on “Agricultural Productivity and Sustainability”)
  - Mobilising an increasing supply (harvesting collection, storage)
- **Optimise efficient processing through R&D and pilot biorefineries**
  - Primary conversion processes
  - Secondary conversion processes
- **Developing innovative products and accelerating market pull for biobased products**
  - New materials & products
  - New application and market development