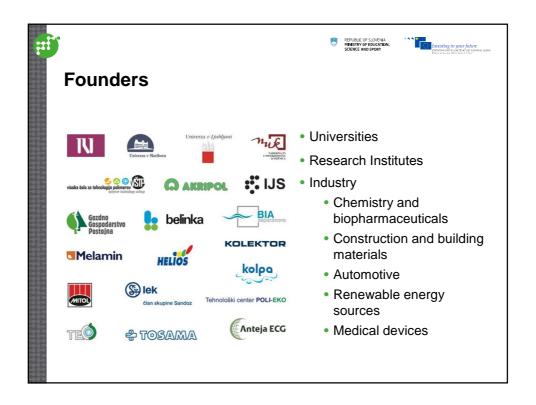


- Independent private non-profit center of excellence
- Unique collaboration between academia and industry
- Focused on innovation in the filed of advanced polymer materials and technology
- Founded in 2010
- HQ Ljubljana, Slovenia









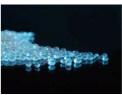




# **Advance material applications**

- 1. Nanomaterials, polymer composites and nanocomposites with significantly improved or new properties
- 2. Coatings and adhesives
- 3. Health (implants, wound healing, drug delivery systems)
- 4. Photovoltaic (plastic solar cells, color selective coatings)
- 5. Agriculture (micro irrigation, microencapsulated fertilizers, pesticides)
- 6. Microelectronics, nanoelectronics and optoelectronics, sensors, energy storage









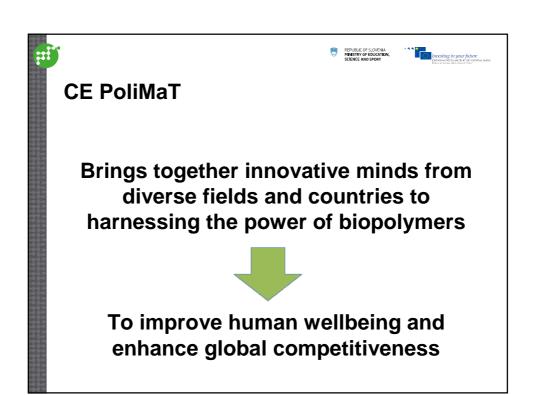


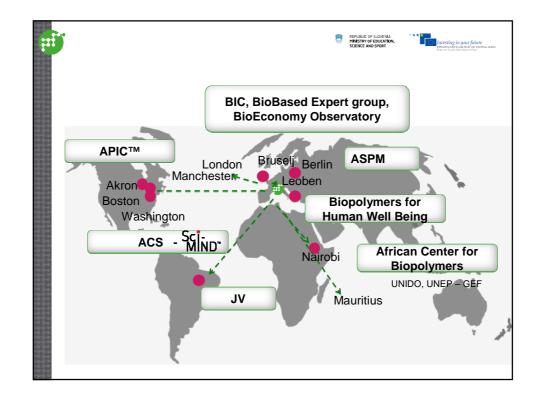
# Support new firm development

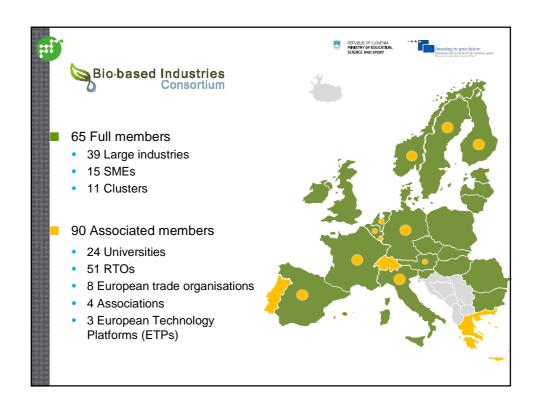
- Development of prototypes for potential commercial use
- · Protection of intellectual property
- Market research to establish the commercial potential
- Feasibility studies and preparation of business plans
- Management and advisory support
- Assistance in identifying funding for the each stage of the commercialization process















Sources:

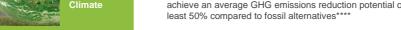
\* The Future of Industrial Biorefineries, World Economic Forum, 2010

\* The Future of Industrial Biorefineries, World Economic Forum, 2010

\*\* Next generation ethanol and biochemicals: what's in it for Europe?, Bloomberg New Energy Finance, 2010

\*\*\* Innovating for sustainable growth: a bioeconomy strategy for Europe, European Commission, 2012

\*\*\*\* Strategic Innovation and Research Agenda (SIRA), Biobased Industries Consortium, 2012

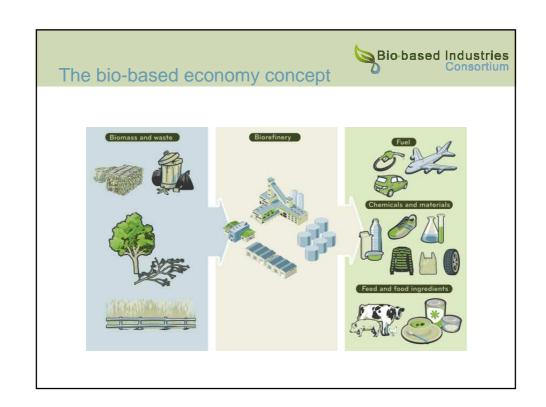


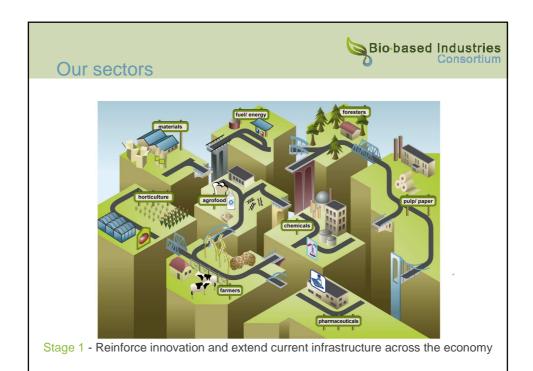
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Bio-based Industries
Consortium EU support for demonstration? International benchmark on the share of basic, applied and development activities 100% 80% 48% 58% 70% ■ Demonstration 50% Applied research 40% 28% Basic research/FP7 32% 24% 10% 11%

Source: Key Science and Engineering Indicators, National Scientific Board, 2010 Digest, NSF, <a href="http://cordis.europa.eur/erawatch">http://cordis.europa.eur/erawatch</a>, OECD "Research & Development Statistics" atch, OECD "Research & Development Statistics"











## The PPP community



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

# Bio-based Industries Consortium

### Focus on Five Value Chains

- Value Chain 1: From lignocellulosic feedstock to advanced biofuels, bio-based 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 and chemicals biorefineries: realising sustainable bio-energy production, by backwards integration with biorefinery operations isolating higher added value components



## Different types of projects

#### A balanced combination of projects:

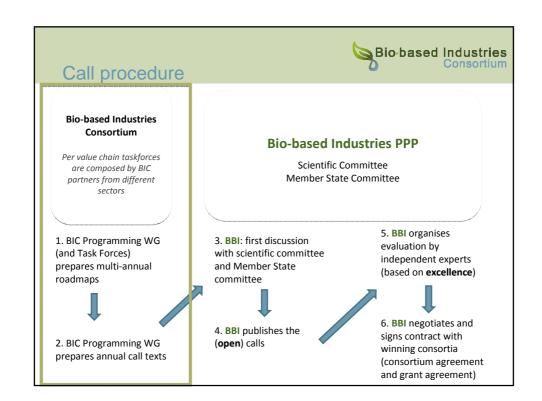
•R&D PROJECTS focused on filling the gaps in technological innovations: dedicated projects on the development of specific technologies and concepts needed to realise the value chains, and proving the principles in pilot installations

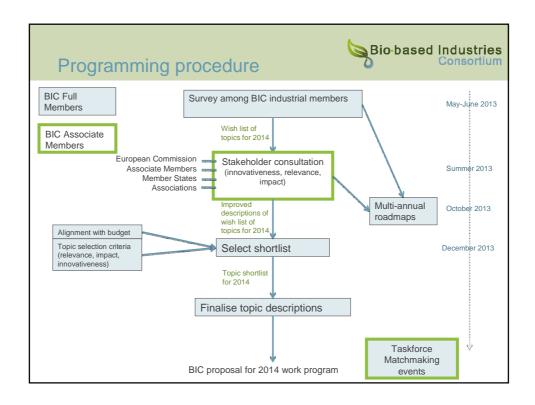
#### **•DEMONSTRATION PROJECTS**

- To integrate and deploy technologies and R&D results into actual value chains
- To bring technology close to commercial scale through upscaling in demonstration activities

#### •FLAGSHIP PROJECTS

- To optimise technology for biomass conversion and ensure pricecompetitiveness: both by building new operations and upgrading existing and abandoned industrial sites to be converted into biorefinery operations
- Each value chain area will lead to at least one flagship project.
- •SUPPORTING PROJECTS mainly include Research activities, focused on solving cross-cutting issues arising from the Value Chain demonstration projects.





# **BIC Full membership**



Full Membership is open to industrial and commercial companies, or any other kind of legal entity representing industrial and commercial companies, which are active in the field of bio-based industries

- The application consists of:
  - · Organisation profile
  - A signed commitment form
  - For SME-clusters, mandate letters of the representing SMEs are included
- •Annual fee (2013)
  - Category A-member (bigger industries): 30k Euro
  - Category B-member (SMEs and SME clusters): 5k Euro

### Bio-based Industries Consortium

# **BIC Associate Membership**

Associate members are legal entities representing industries or having core research activities/expertise within the field of biomass, agriculture, forestry, biotechnology and bio-based industries but are not companies active in the field of bio-based industries

- •The application consists of:
  - · Organisation profile
  - A signed commitment form
- •Annual fee (2013)
  - Category DEF-members: 1k Euro







# How to join the CE PoliMat cluster for BBI?

- · Sign the mandate letter
- Info point: <a href="maja.berden-zrimec@polimat.si">maja.berden-zrimec@polimat.si</a>

### Benefits:

- Access to programming document
- Information on on-going and planned activities
- Support by joining the project consortiums.







Polymer Materials and Technologies

In the field of polymer materials and technology, CE PoliMaT ensures the transformation of research excellence into products and services in high-tech niche markets, as well as supports job creation and the transition to a low-carbon society.

# Thank you!

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