



# ***Bio-based Industries Joint Technology Initiative***

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## EUROPEAN BIOECONOMY STRATEGY

### Innovation Union

#### DG Research & Innovation\*

- Horizon 2020

#### DG Agriculture & Rural Development\*

- Common Agricultural Policy (CAP)
- EIP Sustainable and Productive Agriculture

#### DG Maritime Affairs & Fisheries\*

- Common Fisheries Policy (CFP)

#### DG Environment\*

- Roadmap Resource Efficient Europe
- Waste Directive
- Biodiversity Strategy

#### DG Enterprise\*

- LMI for Bio-based Products
- Key Enabling Technologies

### Resource Efficient Europe

#### DG Energy

- Renewable Energy Directive
- „iLUC Proposal“

#### DG Regional Policy

- Smart Specialisation Strategy

#### DG Climate Action

- Roadmap Low Carbon Economy by 2050

#### Joint Research Centre

#### DG Trade

#### DG Education & Culture

\* Co-signatories of the European Bioeconomy Strategy

BIOECONOMY - INTERNATIONAL LEVEL

(OECD, US, China, Latin America, etc)

BIOECONOMY - NATIONAL & REGIONAL LEVEL (NL, DE, SE, FIN, FR, BE, DK, etc)

Wetenschappelijke en Technologische Commissie  
voor de Biobased Economy

Kennis- en innovatieagenda voor de biobased economy

Naar groene chemie  
en

## Innovating for Sustainable Growth

A Bioeconomy  
for Europe

Forskningsrådet

BIONÆR

Research Programme on Sustainable Innovation in Food  
and Bio-based Industries

Swedish Research and Innovation  
Strategy for a Bio-based Economy

Distributed  
Bio-Based  
– Driving Sustainable

Päivi Luoma, Juha Vanhanen and  
September 2011

SITRA

Towards 2030

Teagasc's Role in Transforming Ireland's  
Agri-Food Sector and the Wider Bioeconomy

Foresight Report

May 2008

Prioritäten in der  
Bioökonomie-Forschung

Empfehlungen des BioÖkonomieRats

BioÖkonomieRat



# The Bioeconomy Strategy and Action Plan

## STRATEGY

### TACKLING SOCIETAL CHALLENGES

- Ensuring food security
- Managing natural resources sustainably
- Reducing dependence on non-renewable resources
- Mitigating and adapting to climate change
- Creating jobs and maintaining European competitiveness

### DEVELOPING A BIOECONOMY

- Coherent policy
- Investment in knowledge, innovation and skills
- Participative governance and informed dialogue with society
- New infrastructures and instruments

## ACTION PLAN

INVESTMENTS IN  
RESEARCH,  
INNOVATION  
AND SKILLS



REINFORCED POLICY  
INTERACTION AND  
STAKEHOLDER  
ENGAGEMENT



ENHANCEMENT OF  
MARKETS AND  
COMPETITIVENESS  
IN BIOECONOMY  
SECTORS



# Horizon 2020: What's new

- **A single programme** bringing together three separate programmes/initiatives\*
- **Coupling research to innovation** – from research to retail, all forms of innovation
- **Focus on societal challenges** facing EU society, e.g. health, clean energy and transport
- **Simplified access**, for all companies, universities, institutes in all EU countries and beyond.

**\*The 7th Research Framework Programme (FP7), innovation aspects of Competitiveness and Innovation Framework Programme (CIP), EU contribution to the European Institute of Innovation and Technology (EIT)**



# Criteria for selection of public-private partnerships under Horizon 2020

- » the added value of action at Union level;
- » the scale of impact on industrial competitiveness, sustainable growth and socio-economic issues;
- » the long-term commitment from all partners based on a shared vision and clearly defined objectives;
- » the scale of the resources involved and the ability to leverage additional investments in research and innovation;
- » a clear definition of roles for each of the partners and agreed key performance indicators over the period chosen.



# **Policy Background for the**

- **Horizon 2020 proposal (November 2011)**
- **Bioeconomy communication (February 2012)**
- **Industrial Policy communication (October 2012)**



## Preparatory steps: Industry

- **Vision paper (July 2012): Accelerating innovation and market uptake of bio-based products.**

<http://bridge2020.eu/wp-content/uploads/2013/05/BRIDGE-Vision.pdf>

- **Strategic Research and Innovation agenda (March 2013): Biobased and renewable industries for development and growth in Europe.**

[http://bridge2020.eu/wp-content/uploads/2013/06/BRIDGE\\_SIRA\\_Full\\_download.pdf](http://bridge2020.eu/wp-content/uploads/2013/06/BRIDGE_SIRA_Full_download.pdf)

- **Creation of the Biobased Industries Consortium:**

[info@bridge2020.eu](mailto:info@bridge2020.eu)





# **Preparatory steps: Commission**

## **Proposal for a Council regulation on the Bio-Based Industries Joint Undertaking**

- **Public consultation: September-December 2012**
- **Stakeholder conference: 9 January 2013**
- **Impact assessment**
- **In coordination with preparations for IMI2, Cleansky2, FCH2 and Electronic components and systems**



# General principles

- **Clear and ambitious objectives, contributing directly to competitiveness and EU policy goals**
- **Governance to ensure openness to new participants, the allocation of funding on the basis of excellence, and efficient links with national activities**
- **Simple implementation structures and rules for participants**
- **Strong commitments from industry, including substantial financial commitments**



# Objectives

## Integrated value chains

### **Feedstock**

**Fostering a sustainable biomass supply and building new value chains**

### **Biorefineries**

**Optimising efficient processing through R&D and upscaling in large-scale demo/flagship biorefineries**

### **Markets, products and policies**

**Developing markets for biobased products and optimising policy frameworks**



European  
Commission

# PPP on Bio-based Industries

Supported by:

## European Technology Platforms

Biofuels

Suschem

Plants for the Future,

Forest-based Sector

FoodforLife

## European sector organisations

COPA COGECA

CEPI

EuropaBio

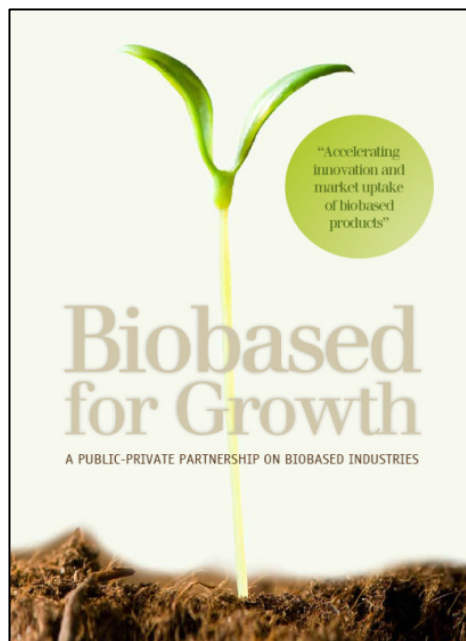
ERRMA

CEFIC

European Seed Association

European Bioplastics,

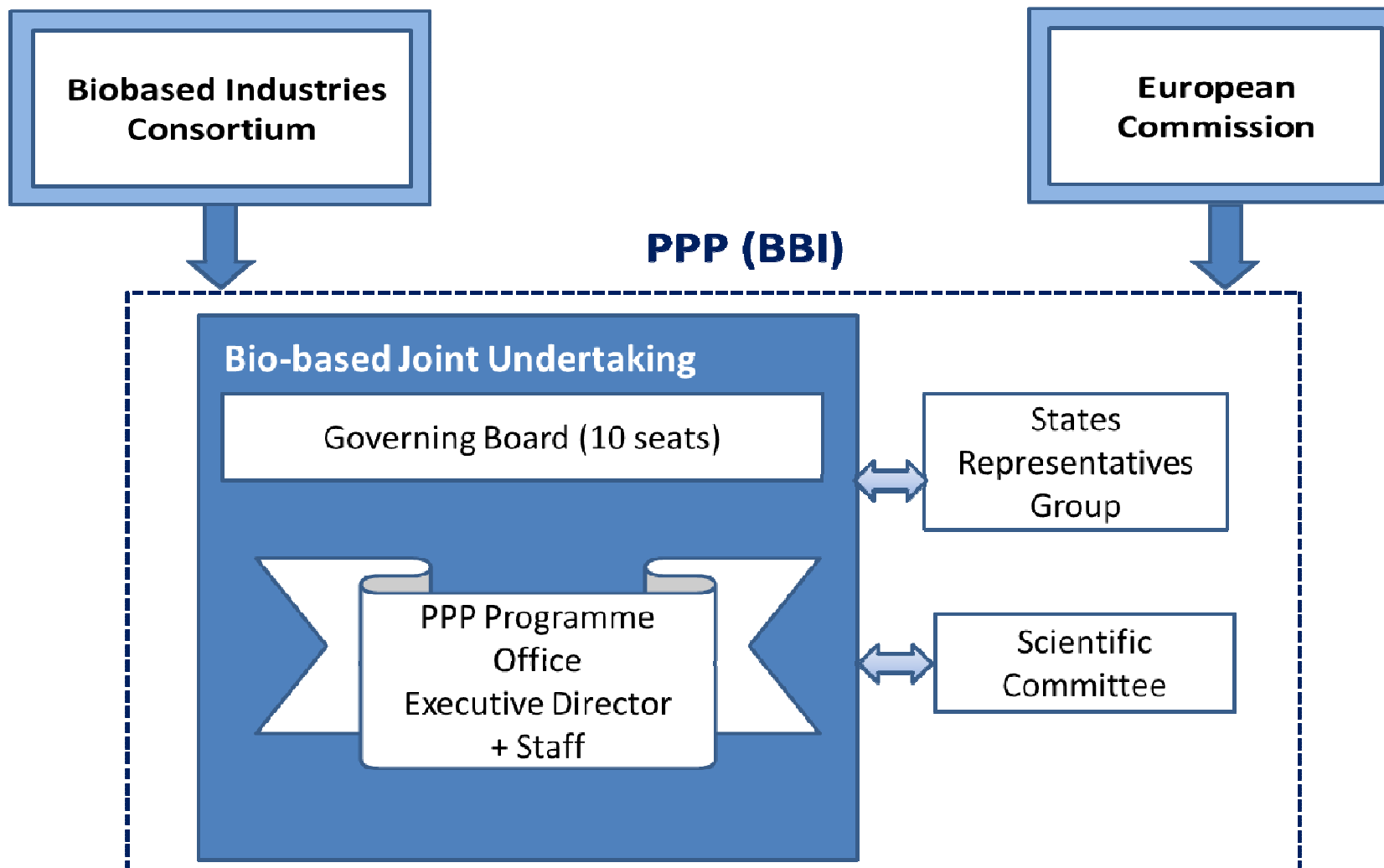
FoodDrinkEurope



## Industry Group



## Governance: structure





# Openness

- **Not a closed club: BIC open to new members**
- **Consultation of research community and other stakeholders for drafting of work programme**
- **SME friendly measures**
- **Roadshow in MS**



# **Calls for proposals**

- **Overall principle: implementation according to Horizon 2020 rules**
- **Open competition for any research and innovation organisation**
- **Evaluation with independent experts**
- **Proposals funded on the basis of excellence**



# Budget

- **Overall budget € 3800 million**
- **EU contribution: € 1000 million**
- **Industry contribution: € 2800 million**

**Leverage: 2,8 € private investment for every 1 € public investment**





## Next steps

- **(Adoption MFF)**
- **Adoption Commission proposal for a Council regulation (10 July 2013)**
- **Decision making process at Council (and EP)**
- **Adoption Horizon 2020**
- **Adoption Council regulation**