

European Technology Platform “Plants for the Future”

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Contribution to society

European Technology Platform “Plants for the Future”

Vision and Strategic Research Agenda (SRA) identify four challenges for society to which this Technology Platform can contribute:

- 1: Healthy, safe and sufficient food supply
- 2: Sustainable agriculture, forestry and landscape
- 3: Green products
- 4: Competitiveness, consumer choice and good governance



Major stakeholders

European Technology Platform “Plants for the Future”

- **Industry** **EuropaBio, ESA**
- **Academia** **EPSO**
- **Farmers** **CopaCogeca**



Stakeholder Proposal for a **Strategic Research Agenda**

Challenge 1: Healthy, safe and sufficient food supply

Goals:

- Production of safe, high quality, sufficient and sustainable **food**
(storage compounds; nutritional, sensory & processing characters; less deleterious to quality)
- **Foods for specific consumer groups and needs**
(carotenoids, polyunsaturated fatty acids, allergenicity, cancer prevention)
- Production of safe, high quality, sufficient and sustainable **feed**
(less mycotoxins & heavy metals; optimize macro-& micronutrients, **protein source, digestibility, appetite**)



Stakeholder Proposal for a **Strategic Research Agenda**

Challenge 2: Sustainable agriculture, forestry and landscape

Goals:

- Securing sustainability of agriculture by improving **plants productivity and quality** potential
(Yield stability, tolerance to non-biotic factors)
- Reduce and optimize the **environmental impact** of agriculture
(better use of **water** / reduced use of crop protection chemicals)
- Enhance **biodiversity**
(use natural diversity for crops, **domesticate new species**)
- Viable and pleasant **landscape**
(ornamentals, landscape management)



Stakeholder Proposal for a **Strategic Research Agenda**

Challenge 3: Green Products

Goals:

- Develop advanced plant-based **raw materials and pharmaceuticals**
(new & improved functionalities; recombinant and natural pharmaceuticals; enabling technologies)
- Plants as **energy** production systems
(bio-fuels; economically competitive energy production; enabling technologies for biomass production)
- Convert plants into **production factories**
(production & extraction)



Stakeholder Proposal for a **Strategic Research Agenda**

Challenge 4: Competitiveness, consumer choice and good governance

Goals:

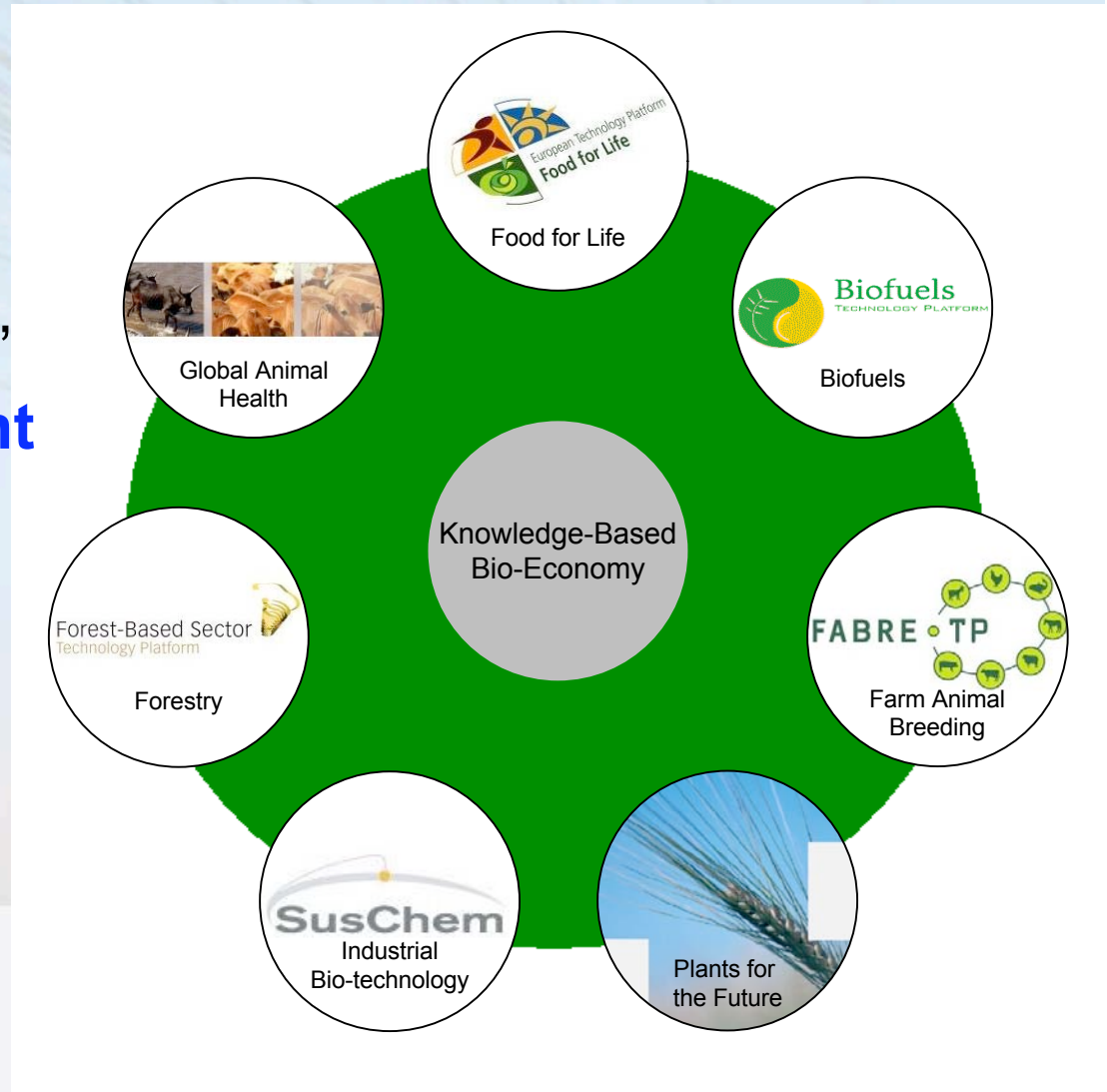
- **Vibrant basic research**
(genome sequences & biodiversity inventory; systems biology; genomics tools; genetic systems for crop improvement)
- **Human resources, infrastructure and networking**
([Virtual Institute of Plant Science](#))
- **Public / consumer involvement**
([knowledge, trust, fun](#))
- **Ethics, safety, legal and financial environment**
(choice; co-existence; supportive environment)



European Knowledge-Based BioEconomy

European Technology Platform “Plants for the Future”

- TP “Plants for the Future” is a **strategic component** of the European KBBE





Thank you for your attention



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