



Research alliances & their impact on the EU research agenda – EPSO & Plant ETP

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ETPs – State of Play

- Established 2003 as **bottom up industry-led stakeholder fora**
- Concentrate efforts and address fragmentation
- Currently **36** ETPs

- Strategic Research Agendas important **input towards FP7** research topics
- Consulted when preparing **research and innovation policy** initiatives (e.g. Innovation Union)

- In addition ETPs:
 - Coordinate and align priorities for individual sectors with a view to developing a future vision

ETPs – State of Play

- In addition ETPs:
 - Work across sectors addressing common issues (e.g. grand challenges) – **advantage to involve universities**
 - Build capacity to enable stakeholders to participate in EU activities
 - Gave rise to JTIs, PPPs, European Industrial Initiatives (SET Plan)
- **Weaknesses** in the current system:
 - Presence of SMEs and end-users remains low
 - Risk of duplication and fragmentation due to the large number of ETPs
 - Inconsistent EC procedures for monitoring and funding

ETPs – list by sector

Energy	ICT	Bio-based economy	Production and processes	Transport
European Biofuels TP - Biofuels	Embedding computing systems - ARTEMIS	Plants for the Future - Plants	European Construction TP - ECTP	European Space TP - ESTP
Zero Emission Fossil Fuel Power Plants - ZEP	European Nanoelectronics Initiative Advisory Council - ENIAC	Farm Animal Breeding and Reproduction TP - FABRE TP	Advanced Engineering Materials and Technologies – EuMaT	European Rail Research Advisory Council - ERRAC
ETP for Wind Energy - TP Wind	Integral Satcom Initiative - ISI	ETP for Global Animal Health - GAH	ETP on Sustainable Mineral Resources - ETP SMR	Waterborne ETP
Sustainable Nuclear TP - SNETP	Converged fixed and Wireless Communication Network - Net!Works	Nanotechnology for Medical Applications- Nano Medicine	Future Manufacturing Technologies - Manufuture	Advisory Council for Aeronautics Research in Europe - ACARE
ETP for Electricity Network of the Future - Smart Grids	ETP where New Media Content and Networks meet - NEM	Forest-Based Sector TP - Forest-based	Future Textiles and Clothing - FTC	European Road Transport Research Advisory Council- ERTRAC
Photovoltaics	Networked European Software and Services Initiative - NESSI	Food for Life - Food	Water Supply and Sanitation TP - WSSTP	
	Photonics 21		European Steel TP - ESTEP	
	Robotics - EUROP		Industrial Safety ETP	

Source: Charlotte Andersdotter (EC), Jan'2013, modified

ETPs – Next steps

- Rationale for ETPs remains valid: to close the gap with global innovation leaders and to drive jobs and growth
- Innovation Union and Horizon 2020 will considerably strengthen the innovation dimension of EU support
- Commission's proposals for Horizon 2020 specifies **ETPs** amongst those whose **research and innovation agendas will be taken account of**
- EC is currently developing a strategy for future structured dialogue with ETPs

EPSO aims to advance plant science in Europe

Independent academic organisation

Mission:

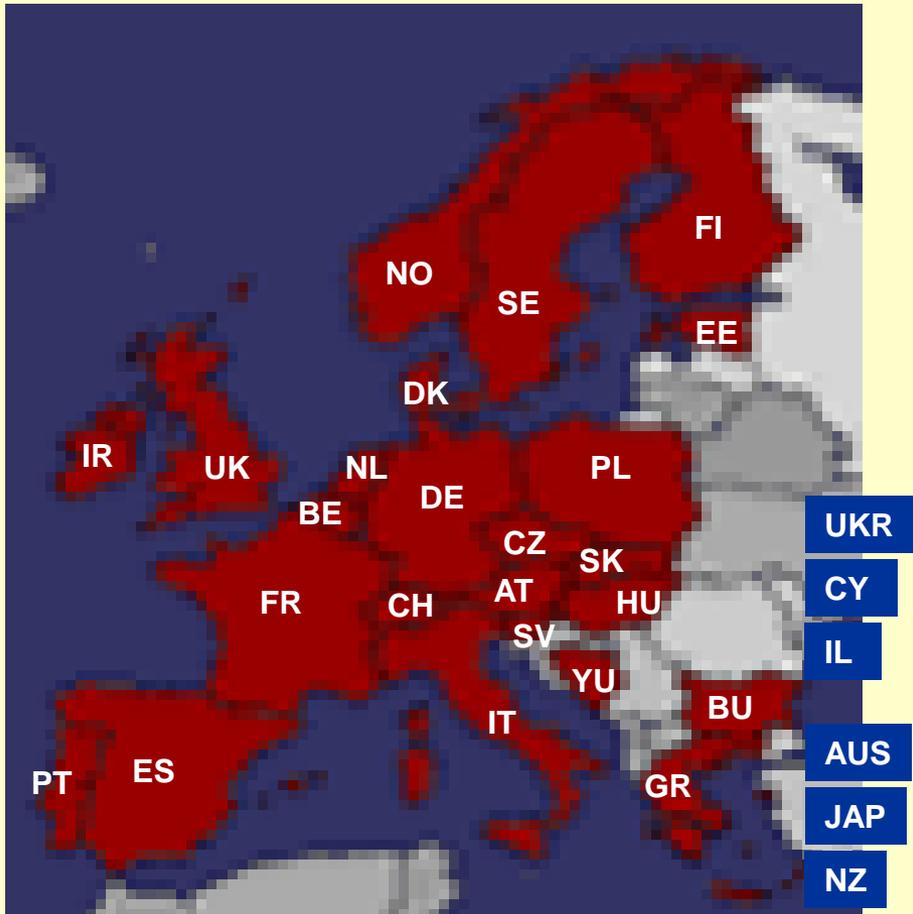
- Promote plant science and support plant scientists
- Discuss future plant science programmes across Europe
- Provide authoritative source of independent information on plant science
- Promote training of plant scientists to meet the 21st century challenges in breeding, agriculture, horticulture, forestry, plant ecology and sectors related to plant science

**CREATING A FUTURE FOR
PLANT RESEARCH IN EUROPE**



EPSO members & partners:

Members mainly institutional, only
academia: 228 universities, res.
institutes = 28 000 people, 30 countries
+ 3100 Personal members



Observers:

NGOs, industry

Links: academic &
governmental
organisations, e.g.:

- ISE, GPC, National sc. societies
- COST, ERA-Nets, Joint Programming Initiatives
- FAO

EPSO @ work: addressing grand challenges

Advice on science policy from national to European levels

Achievements:

- Research opportunities for the plant sector in **FP6 & FP7**
- Observer in **ERA-CAPS**, links with ERA-PG, Plant KBBE
- Major stakeholder of the **Technology Platform** “Plants for the Future”
- Foster creation of and encourage proposals to the ERC (via ISE)
- Coordinated **strategic** bioeconomy project of **9 ETPs – white paper**
- Founding member of Global Plant Council
- Developing long term partnerships with developing countries & FAO
- Initiated and coordinate International Fascination of Plants Day

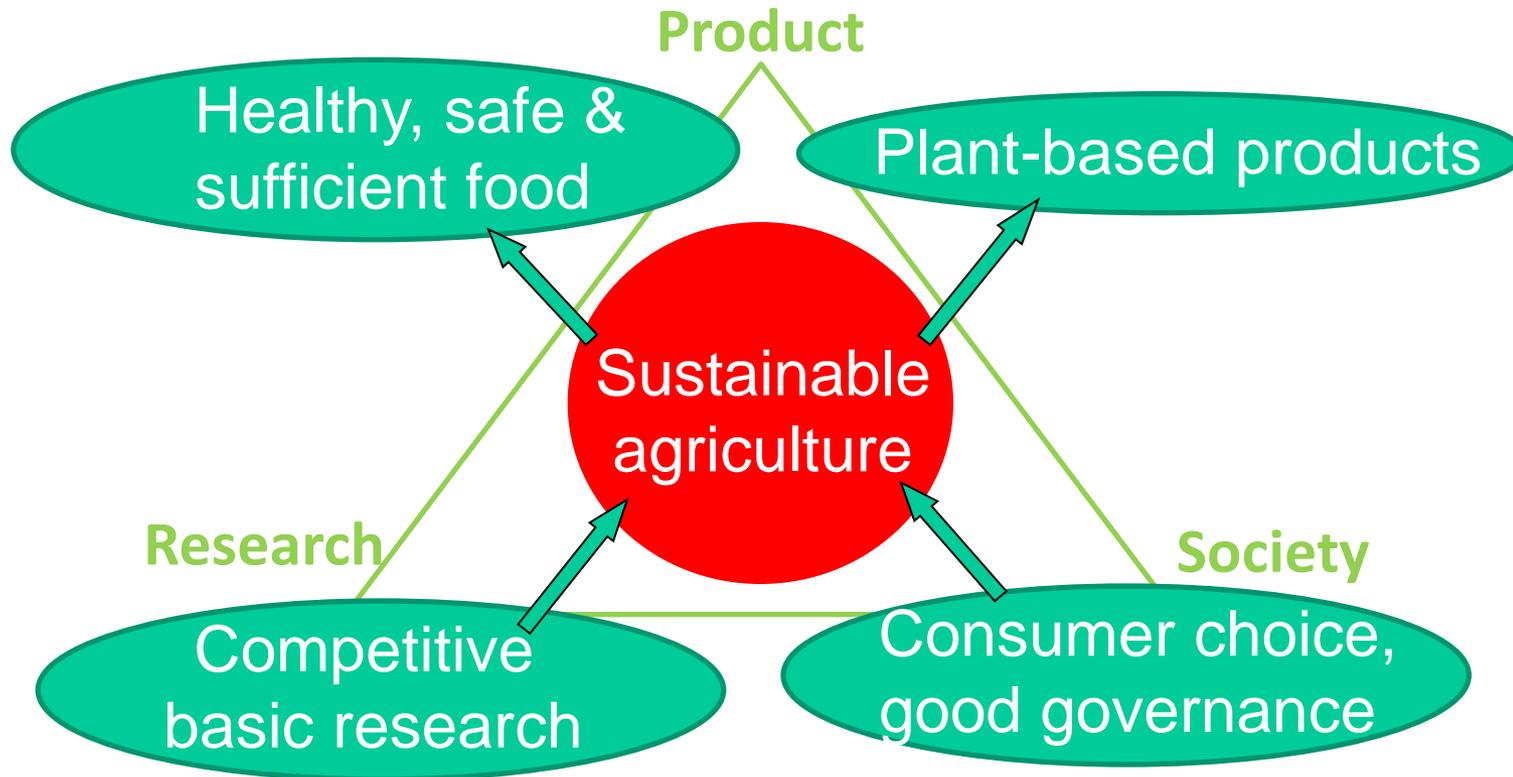
Now: Addressing grand challenges like food – water – energy security, sustainable agriculture

- Input to **Horizon 2020**, Joint Programming, Eur. Innov. Partnership, Global collaborations, research infrastructure, CAP, education
- Several working groups develop new science activities and policy papers



EPSO – 1 of 3 stakeholders in the ETP “Plants for the Future”

Partnership of industry, **academia** (EPSO) and farming communities
Develop Action Plans for **Research**, Innovation and Education
Contribute to addressing societal challenges - priorities by Plant ETP:



ETPs & Bioeconomy activities at European level

EC: Eur Innov Partnership: Agric. Product. & sust.; Horizon 2020 & Bioeconomy strategy; CAP renewal

Proposal:
KIC Food4future

MSs: Joint Programming Initiatives; ERA-Nets



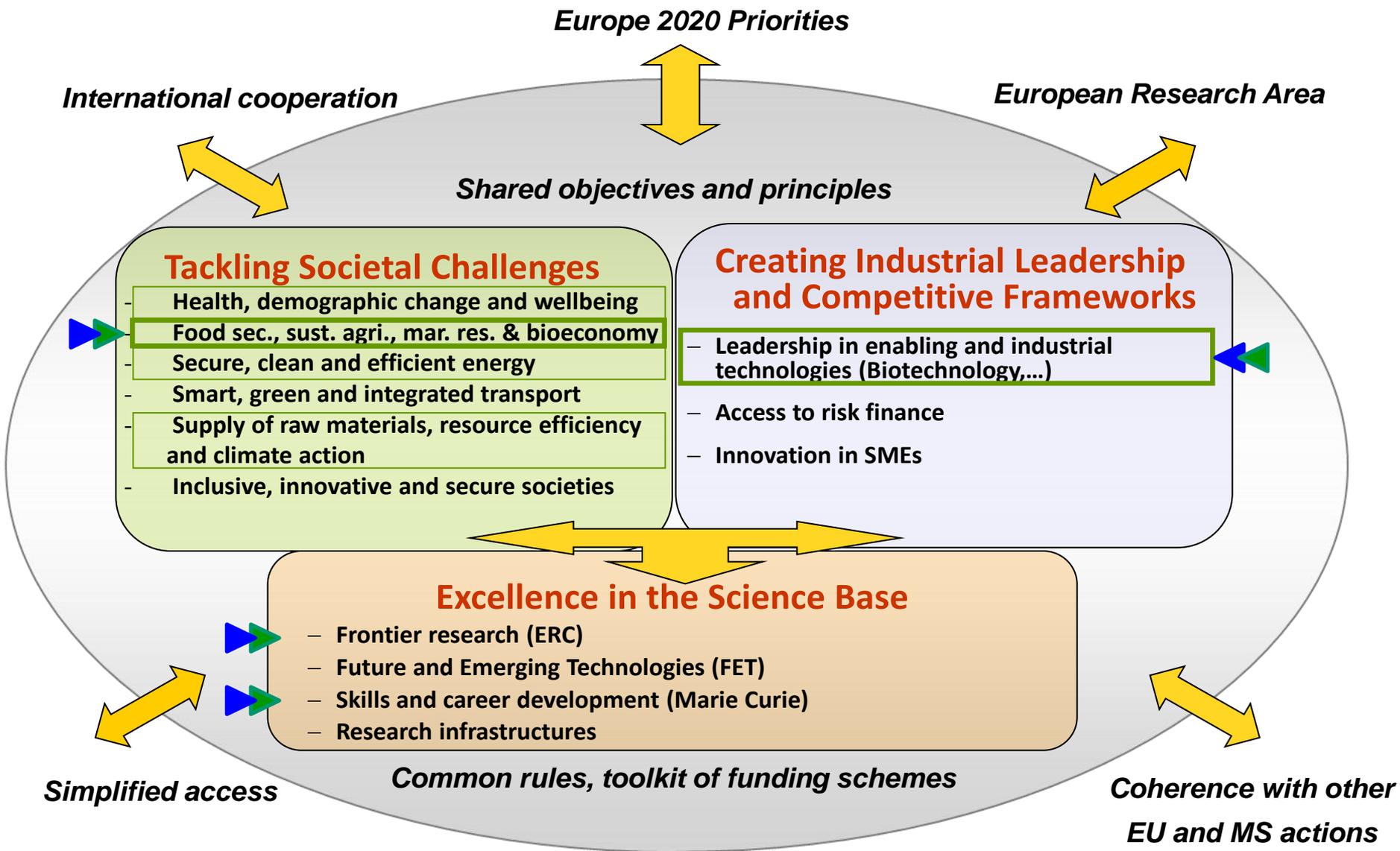
Proposal:
PPP on R&I for
bio-based industries

*To Oct'11: StarColibri:
Biorefineries – Vision &
Research Roadmap*

To Mar'11: BECOTEPS: Bioeconomy – Vision & Research Roadmap

ETPs complement the top-down by a bottom-up approach
– bringing in industry, farmers and academia – making it happen

Horizon 2020: Framework Programme for R&I



Source: N Sivenas (EC), July'2012, modified

EPSO – conclusions for you

Research alliances are important for universities to have a voice at national, European and global level

Give input towards **EU research agendas**, e.g. of

- Horizon 2020, European Innovation Partnerships, Joint Programming Initiatives, etc.
- Always consider input to innovation and to education agendas too

Involvement in **ETPs** is one way

- On sectorial basis via your faculties, departments, personal contacts
- Become member of Steering Councils, Working Groups etc.

Other research alliances are equally important

- Local (e.g. BioScience Center in NRW)
- European (e.g. EPSO, Initiative for Science in Europe)
- Global (e.g. FAO, Global Plant Council)

Thank you for your attention

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