

BRIDGE – Biobased and Renewable Industries for Development and Growth in Europe

Realising the biobased economy potential in Europe

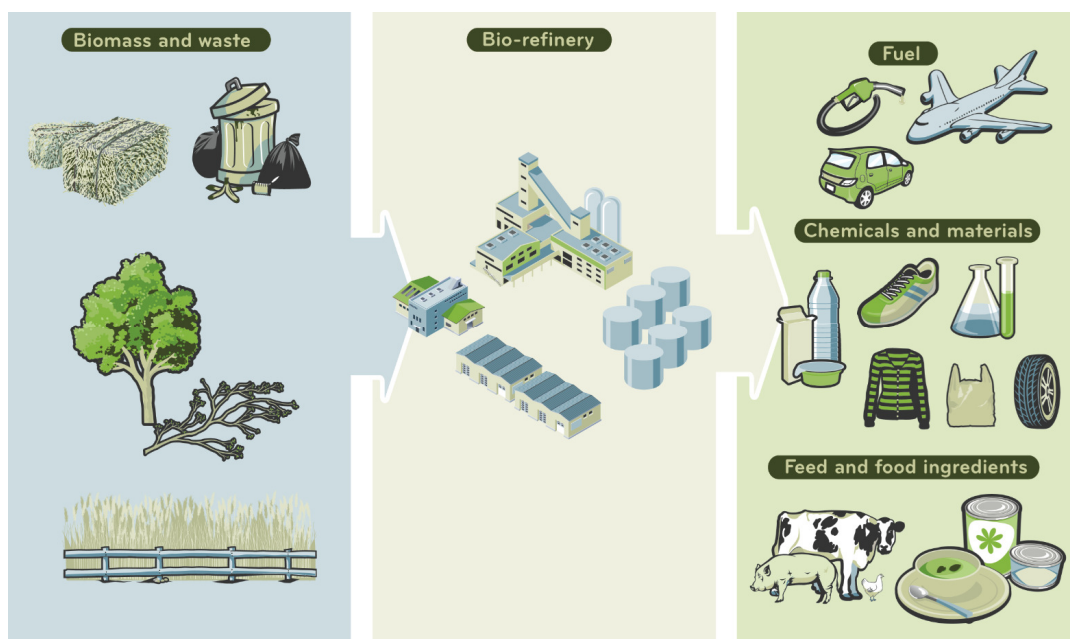
4 July 2013
Budapest

A PUBLIC-PRIVATE PARTNERSHIP ON BIOBASED INDUSTRIES

Kåre Riis Nielsen, European Affairs Director, Novozymes



Biobased Economy concept



What's in it for Europe?



Growth

- A global biobased market estimated at €200 billion by 2020*



Jobs

- Create over 1 million jobs between 2010 and 2030 mainly in rural areas**



Energy and Products

- Reduce dependence on imports with locally sourced and produced goods and products***



Climate

- BRIDGE derived biobased products can achieve an average GHG emissions reduction potential of least 50% compared to fossil alternatives****

Sources:

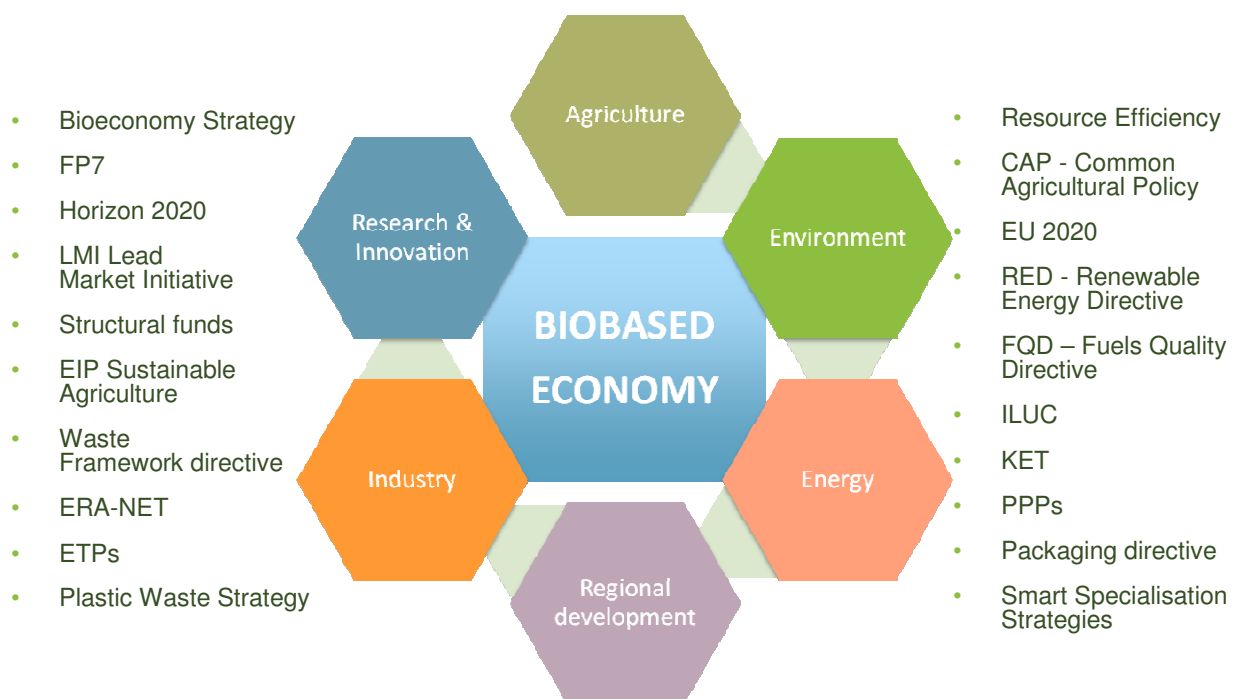
* McKinsey / World Economic Forum

** Bloomberg New Energy Finance

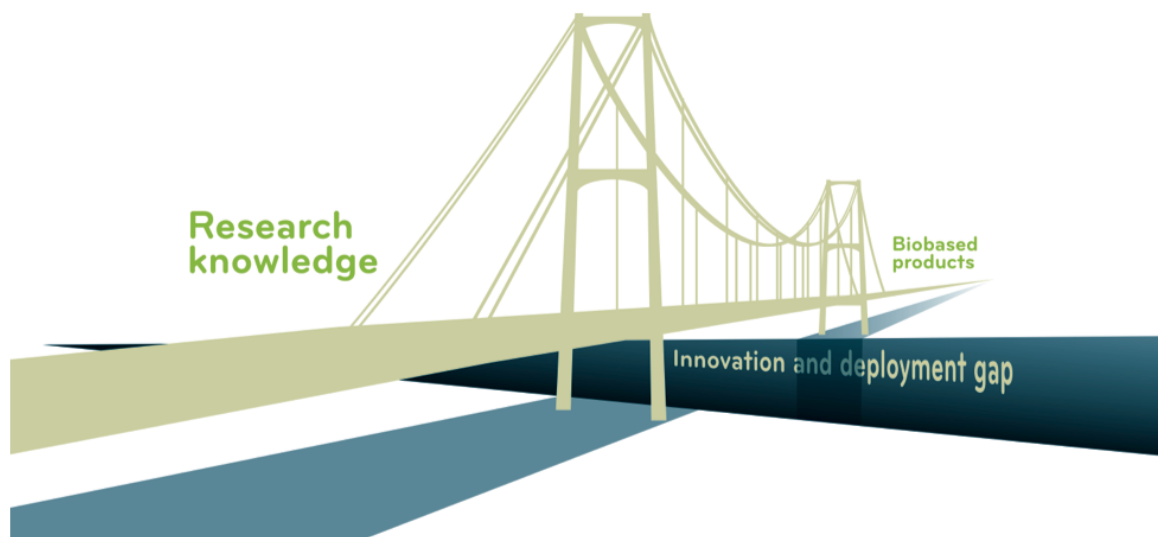
*** European Commission

**** BRIDGE 2020 Strategic Innovation and Research Agenda (SIRA)

Relevant EU Policies



Main EU challenge:
Overcoming the innovation & deployment gap

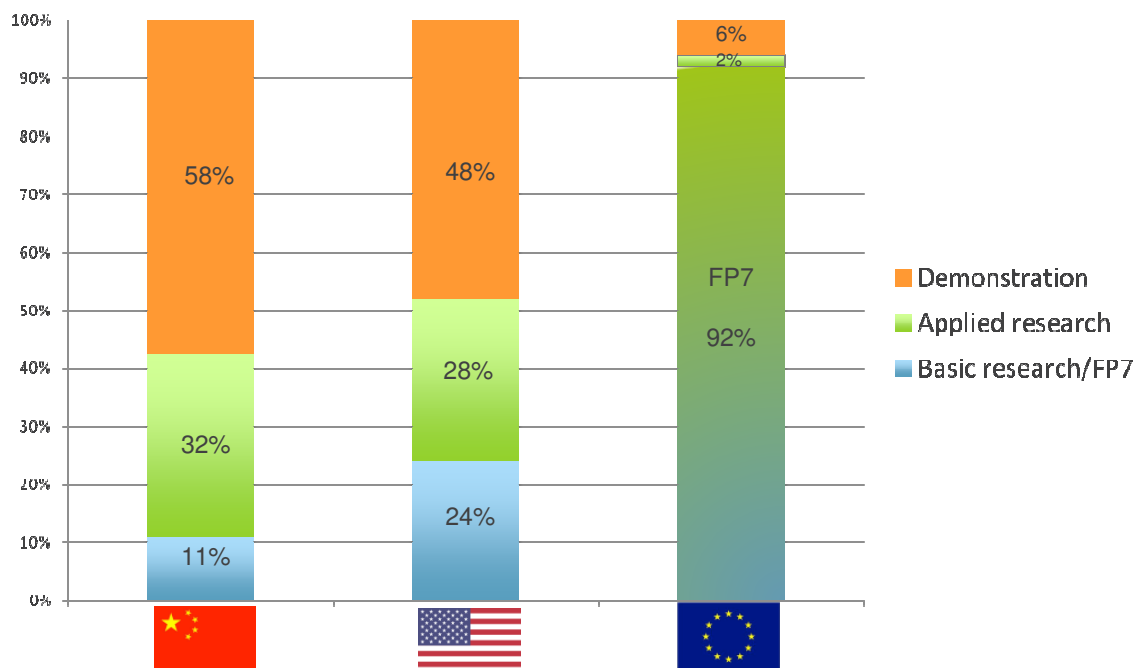


Europe's ability to commercialise / produce high value products lies in its ability to reach demonstration scale of advanced biorefineries to mature technologies

EU support for demonstration?



International benchmark on the share of basic, applied and development activities



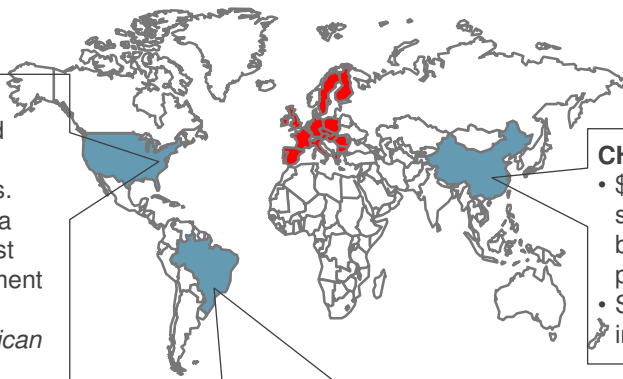
Source: Key Science and Engineering Indicators, National Scientific Board, 2010 Digest, NSF, <http://cordis.europa.eu/erawatch>, OECD "Research & Development Statistics"

Competing in the global race



US

- About \$50 billion invested over the last decade on biofuels and biochemicals.
- In 2012, President Obama committed to further invest and support the development of the bioeconomy as *"a major engine for American innovation and economic growth"*



CHINA

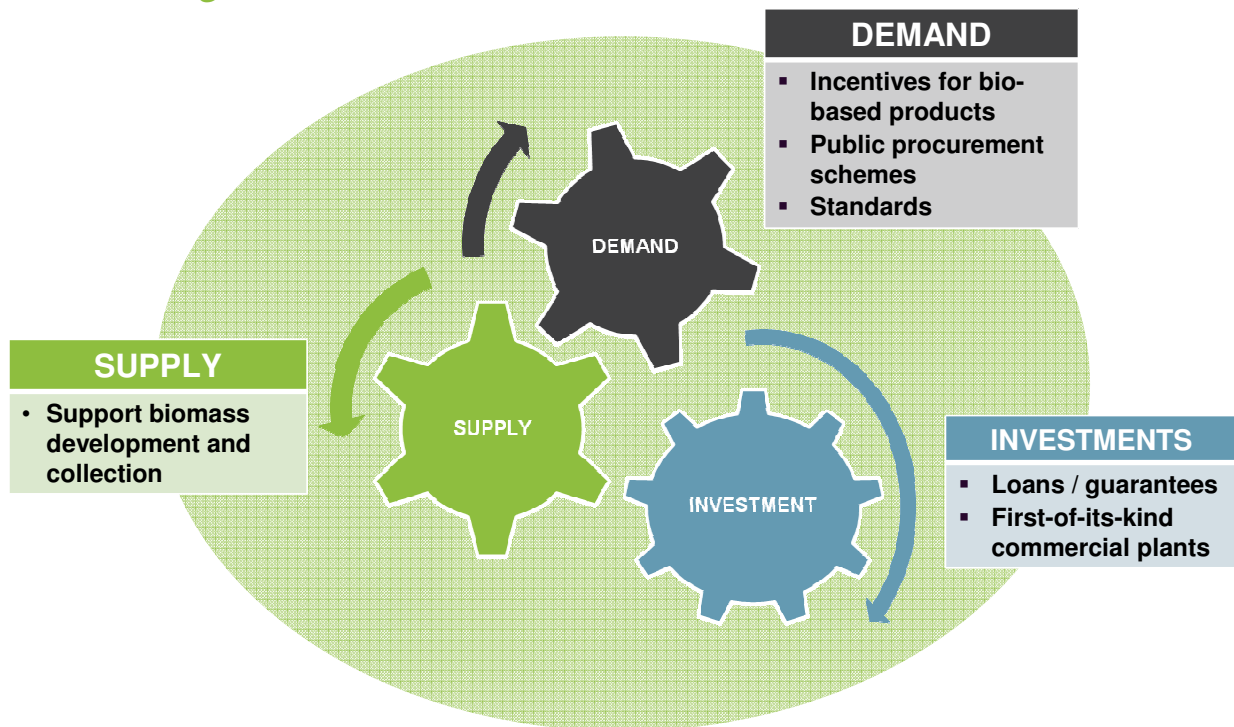
- \$308,5 billion investment on science & technology with biotechnology as a major priority over 2011-2015
- Substitute 20% of crude oil imports by 2020

BRAZIL

- Aims to be N°1 Global Bioeconomy
- R\$ 3,3 billion support for 2nd generation bioethanol, biochemicals and biomass gasification technologies

Role of policy

ensuring a coherent framework





Investing in new and sustainable
ways to organise our economy

About BRIDGE

Biobased and Renewables Industries for Development and Growth in Europe



- A Public-Private Partnership (PPP) between the Biobased Industries and the EU
- A **joint** commitment of €3.8 billion over 2014-2020
 - €1 billion (EU)
 - €2.8 billion (Biobased Industries)
- Multi-annual funding programmes for biobased projects
- Enabling rural development and re-industrialisation in Europe

Vision



An **economy** that:

- sources domestic renewable raw materials
- produces food, feed, chemicals, materials and fuels locally
- creates jobs in a broad range of sectors in Europe, triggering rural growth across regions
- places sustainability, smart and efficient use of resources at the heart of industrial, business and social activities

Focus



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

OBJECTIVES



1. Accelerate **innovation**
2. Boost **market uptake**
3. Facilitate **financing** for first movers
4. Raise public **awareness** of biobased products

BRIDGE benefits for Europe



Create value by using resources more efficiently by maximising the potential of **waste**, agriculture and forestry **residues**

Diversify and grow **farmers' incomes**: up to 40% additional margins with existing residues

Bring existing value chains to new levels and build new value chains, thus **revitalising industry in rural environment**

Realise a new generation of biobased materials and composites produced in **biorefineries**

Create a competitive biobased infrastructure in Europe, boosting **job creation**, 80% of which will be in rural and underdeveloped areas

Replace at least **30% of oil-based chemicals** and materials with biobased and biodegradable ones (2030 target)

Meet **25%** of Europe's transport energy needs with **advanced biofuels** (2030 target)



NEXT STEPS

Next steps - indicative timeline



10 July 2013	European Commission officially proposes package of JTIs, including “BRIDGE” - the Biobased PPP •CEOs with Commission President Barroso and Commissioner Geoghegan-Quinn
July-Oct 2013	EP opinion / Council decision
January 2014	Start of BRIDGE, the Biobased PPP
Q1-Q2 2014	Publication of first calls for proposals
Mid-2014	Joint Undertaking (JU) operational (office & staff) (until then, the JU will be operated by the Commission)



FOUNDING PARTNERS





Forest-Based Sector
Technology Platform



copa*cogeca
european farmers european agri-cooperatives



europaean
bioplastics





www.bridge2020.eu