



GLOBAL
BIOECONOMY
SUMMIT 2015

European Commission Workshop: Global Investment in the Bioeconomy

Chairs: **Szilvia Nemeth & Lino Paula**, European Commission

A Bioeconomy for Europe

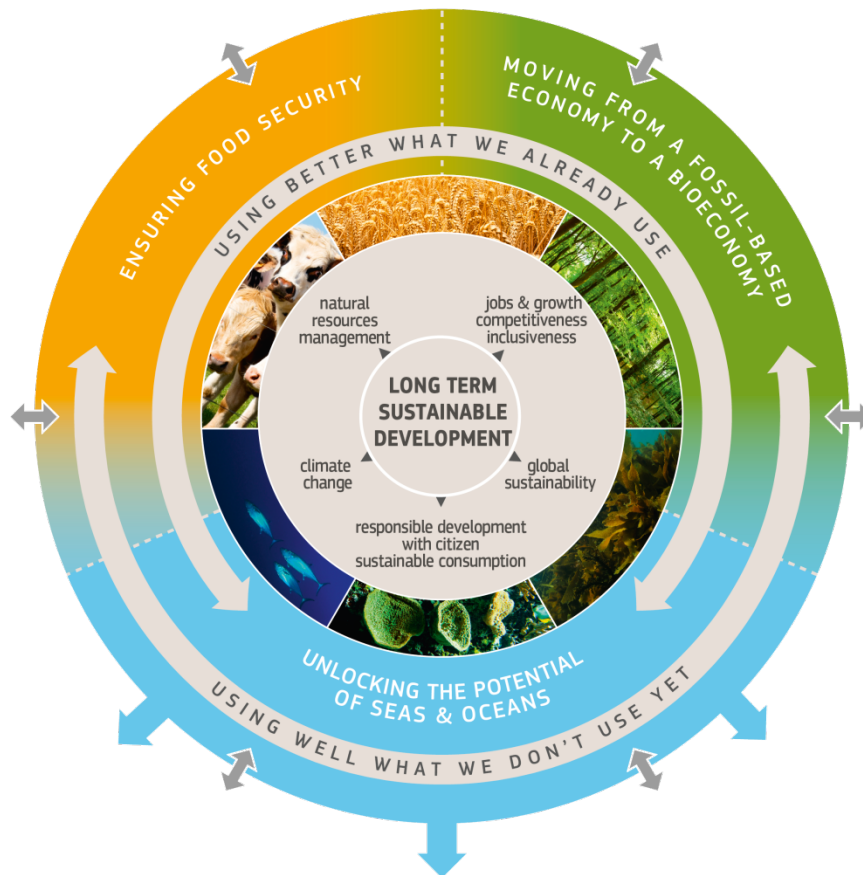
Using resources from land and sea
for a post-petroleum economy

OUTLINE

1. Commission priorities for the bioeconomy

- a) 3 Os
- b) Investment in the Bioeconomy
- c) Review EU Bioeconomy Strategy and Action Plan

2. Future of international cooperation in the EU Bioeconomy Strategy



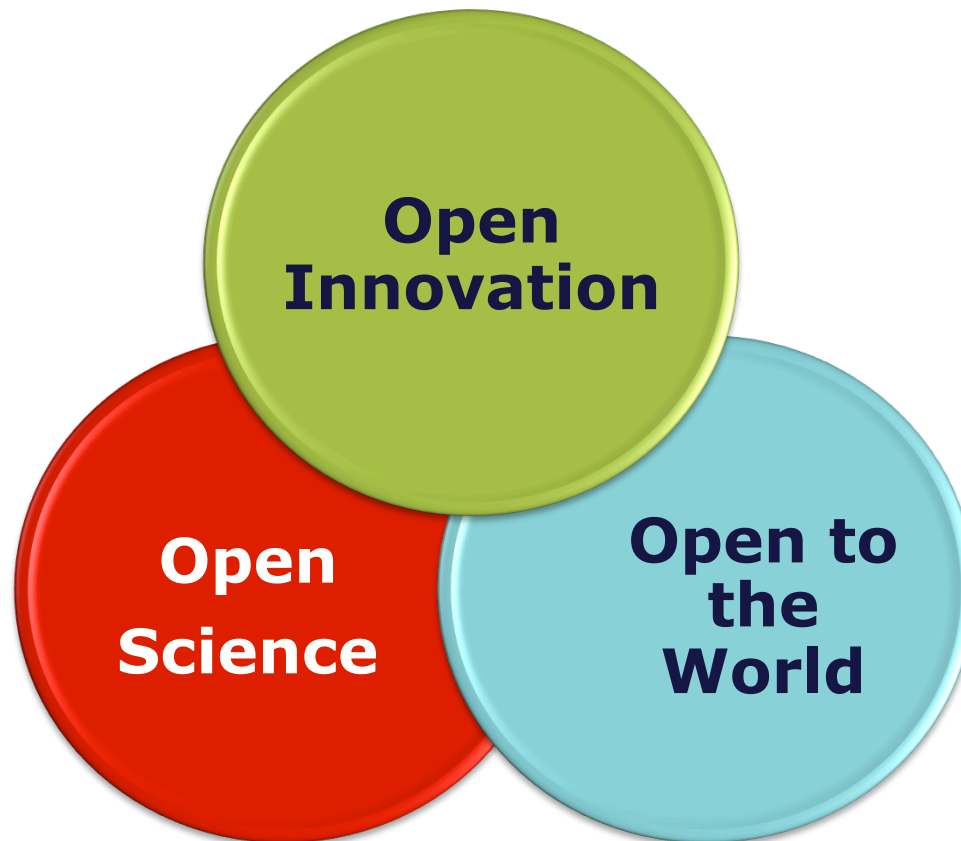
Delivering on

- *jobs, growth and investment,*
- *a resilient Energy Union and Climate Change Policy,*
- *a deeper and fairer Internal Market, with a strengthened Industrial Base*

by investing in the European Bioeconomy through

- *Open Innovation,*
- *Open Science,*
- *Open to the World.*

Commissioner Moedeas - three priorities – 3 Os



Investment in the Bioeconomy

Societal Challenge 2: Food Security, Sustainable Agriculture and Forestry, Marine and Maritime and Inland Water Research and the Bioeconomy



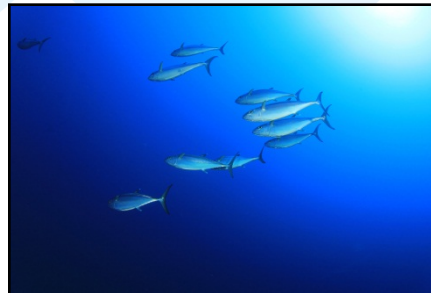
**Agriculture
and
forestry**

**Agri-food
sector for a
safe and
healthy diet**

**Aquatic
living
resources**

**Bio-based
industries
and
bioeconomy**

**Marine
and
maritime
research**



Societal Challenge 2

Four Calls 2016-17

**Sustainable
food security**

**Blue
Growth**

**Rural
Renaissance**

**Bio-based
innovation
for
sustainable
goods and
services**



Bio-based Industries Joint Undertaking (BBI – JU)

Public Private Partnership supporting R&I
for bio-based industries:

- Partners: European Commission and Biobased Industries Consortium (BIC)
- Budget: € 3.705 billion (about 75% from industry)
- Objectives: At least 5 new bio-based value chains for Europe based on 2nd generation/advanced biorefineries – **implementation through open calls**



www.bbi-europe.eu



FEEDBACK FROM BIOECONOMY INVESTMENT SUMMIT (Brussels, 9-10 November 2015) – 'From niche to norm'

Predictable and more consistent policy environment needed for creating stable investment climate (legal barriers must be removed, regulation must be clear and consistent)

Regions and local investment decisions are crucial: the Bioeconomy is not only an opportunity for high-tech or big companies, but also for traditional sectors to reinvent themselves

More education, societal awareness and dialogue is needed to create a stronger interest in bioeconomy investment, careers and 'societal pull'

Demonstrate the benefits of the Bioeconomy: assess efficiency of Bio-based solutions through life-cycle analysis, build pilot-plants, uptake in rural areas

Review EU Bioeconomy Strategy and Action Plan



Review EU Bioeconomy Strategy and Action Plan

- Expert Group established early 2016: to assist the Commission in reviewing the actions carried out under the Bioeconomy Action Plan
- Inputs from high level conferences
(**SCAR**, **Bioeconomy Investment summit**, **Global Bioeconomy Summit**, **Bioeconomy Stakeholders' conference 12/13-4-16**)
- Renewed Bioeconomy stakeholder panel; Manifesto
- Link to Circular Economy package

2. Future of international cooperation in the EU Bioeconomy Strategy

Horizon 2020 ***Open to the World!***



General opening

Horizon 2020 is fully open to participation of entities from across the globe



Targeted opening

Many topics in the WPs are flagged as being specifically relevant for international cooperation, identifying upfront the targeted area and partner country or region

International cooperation actions in WP

- General openness to third countries
- Actions related to major initiatives or actions relevant for certain regions/countries ← results of strategic policy dialogues (e.g. topics related to Africa dialogue, China FAB initiative, Transatlantic Ocean Research Alliance etc.)
- International cooperation relevant topics in calls
- Participation in network of programme managers (ERANETs, and JPI activities)

Future actions in international cooperation

- Review of Bioeconomy Strategy and Action Plan: international cooperation dimension
- Next Strategic Programming process
- Continuous dialogue with international partner countries in existing fora and continue strategic policy dialogues
- Better alignment of research agendas in Europe (EU+MS)
- Better use of multilateral cooperation through launch of a specific International Forum on Bioeconomy (IBF)

Internationalisation of the Bioeconomy:

- Global challenges should be tackled by global approaches – multilateral cooperation
- Regular strategic cooperation and sharing experience with partner countries having an international stake in building the Bioeconomy
- From participation in individual projects to programme level cooperation with strategic partners
- Needs for policy related discussion (development of common indicators etc.) with international partners and organisations; knowledge sharing and launching common R&I actions

International Bioeconomy Forum:

Could be...

- An informal multilateral network for those actively engaged in building a Bioeconomy (not necessarily global...)
- A framework for reinforced, strategic programme level R&I cooperation
- A room for policy related discussions (e.g. data, indicators, investment)
- A platform financing concrete actions by the participating partners – flexibility in participation depending on interest in a certain action
- A body that creates concrete targets and objectives - delivery should be monitored and evaluated regularly

For making such a network functional, the existing needs must be seen...

Thank you for your attention!

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Find out more:

www.ec.europa.eu/research/horizon2020
<https://ec.europa.eu/research/bioeconomy/>



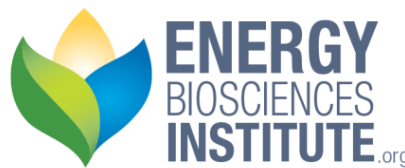
INTERNATIONALISATION OF THE BIOECONOMY

Jim Philp, Policy Analyst



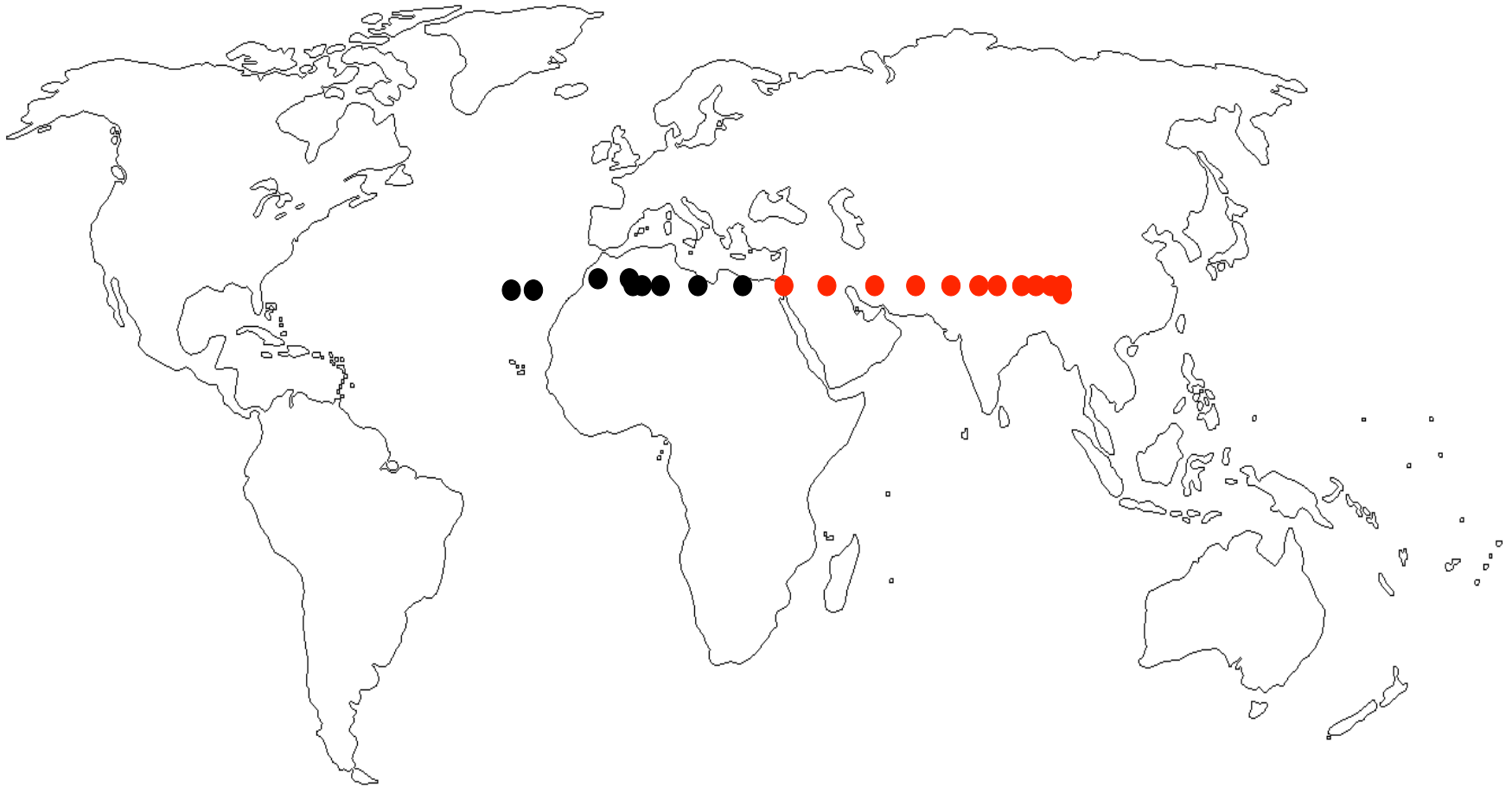
Where do companies invest ?

- Companies can and do invest wherever conditions are right
- Three key factors
 - Most attractive finance packages
 - Price of feedstocks (biomass)
 - ABOVE ALL: stable, long-term policy
- Some critical European companies chose to invest abroad: we should understand why





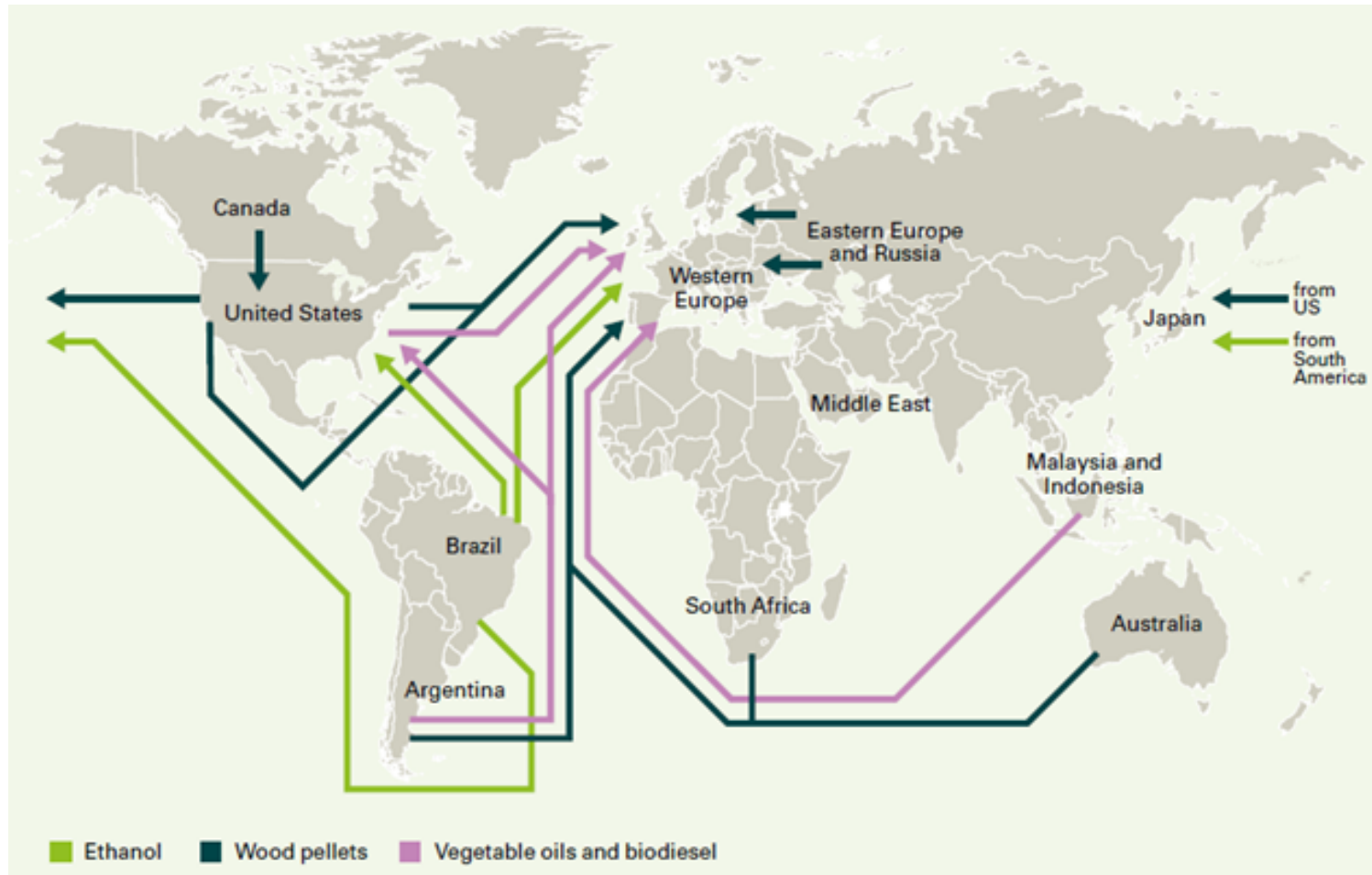
The economic centre of gravity is moving towards Asia



Where will the bioeconomic centre of gravity be ?



All routes lead to OECD countries





“Projects in the frame of ‘Bioeconomy International’ shall significantly contribute to at least one of the following fields of action of the National Research Strategy Bioeconomy 2030”:

- Securing global nutrition
- Shaping agricultural production sustainably
- Producing safe and healthy food products
- Using renewable resources on an industrial scale
- Developing energy sources based on biomass”



Some other themes for international collaboration

- Reconciling food and industrial use of biomass
- Technology and staff transfer: “easy” way to establish international collaboration
- Definitions: necessary for international comparisons e.g. “bio-waste”
- Regulation: many aspects e.g. illegal logging
- Standards: harmonised to prevent international trade barriers

Thank you for your time

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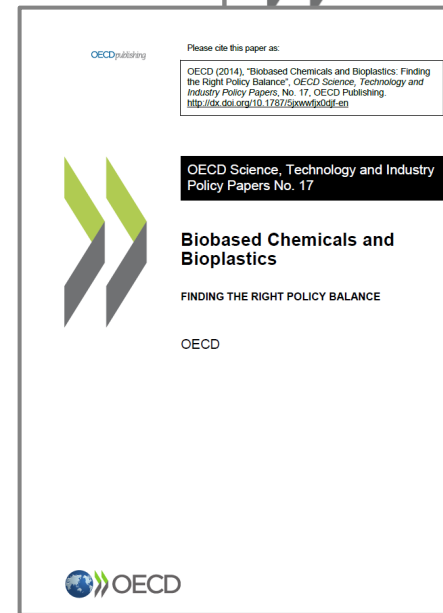
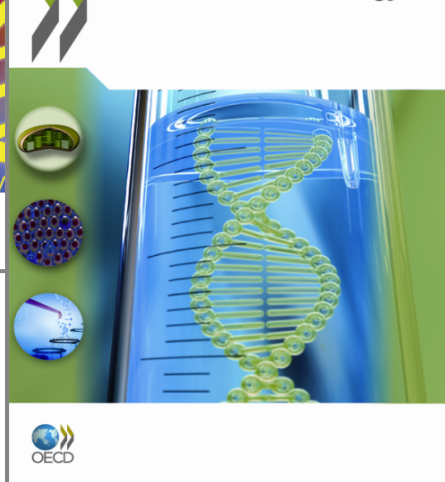
The Bioeconomy to 2030
DESIGNING A POLICY AGENDA



**Emerging Policy Issues
in Synthetic Biology**



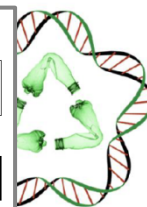
**Future Prospects for
Industrial Biotechnology**



OECD Publishing

OECD Science, Technology and Industry
Policy Papers No. 10

**Policies for Bioplastics
in the Context of a
Bioeconomy**



Marine Biotechnology
ENABLING SOLUTIONS FOR OCEAN
PRODUCTIVITY AND SUSTAINABILITY

OECD Publishing

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OECD Science, Technology and Industry
Policy Papers No. 17

**Biobased Chemicals and
Bioplastics**

FINDING THE RIGHT POLICY BALANCE

OECD

 OECD

A Bioeconomy for Europe

Using resources from land and sea
for a post-petroleum economy



EC Workshop Global Investment in the Bioeconomy

Two rounds of 'World café' discussion:

First round:

Why is a forum for international cooperation needed?

15`group, 10`harvesting

Second round:

What activities can such a forum undertake?

20`group, 15`harvesting