



The SCAR Foresight Process

Overview and prospects of SCAR Foresight

SCAR Foresight Group

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SCAR SWG AKIS 4

5th Meeting

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Foresight – Forward Looking Activities

The term “**Foresight**” describes **activities** such as:

- **Critical thinking** concerning long-term developments
- **Creating recommendations** for research and policy – R&D priority setting
- **Shaping the future**, especially by supporting/influencing public policy

**Foresight is an instrument for
strategic planning and public policy building**



Foresight – Forward Looking Activities

Foresight encompasses an approach that combines three **components**:

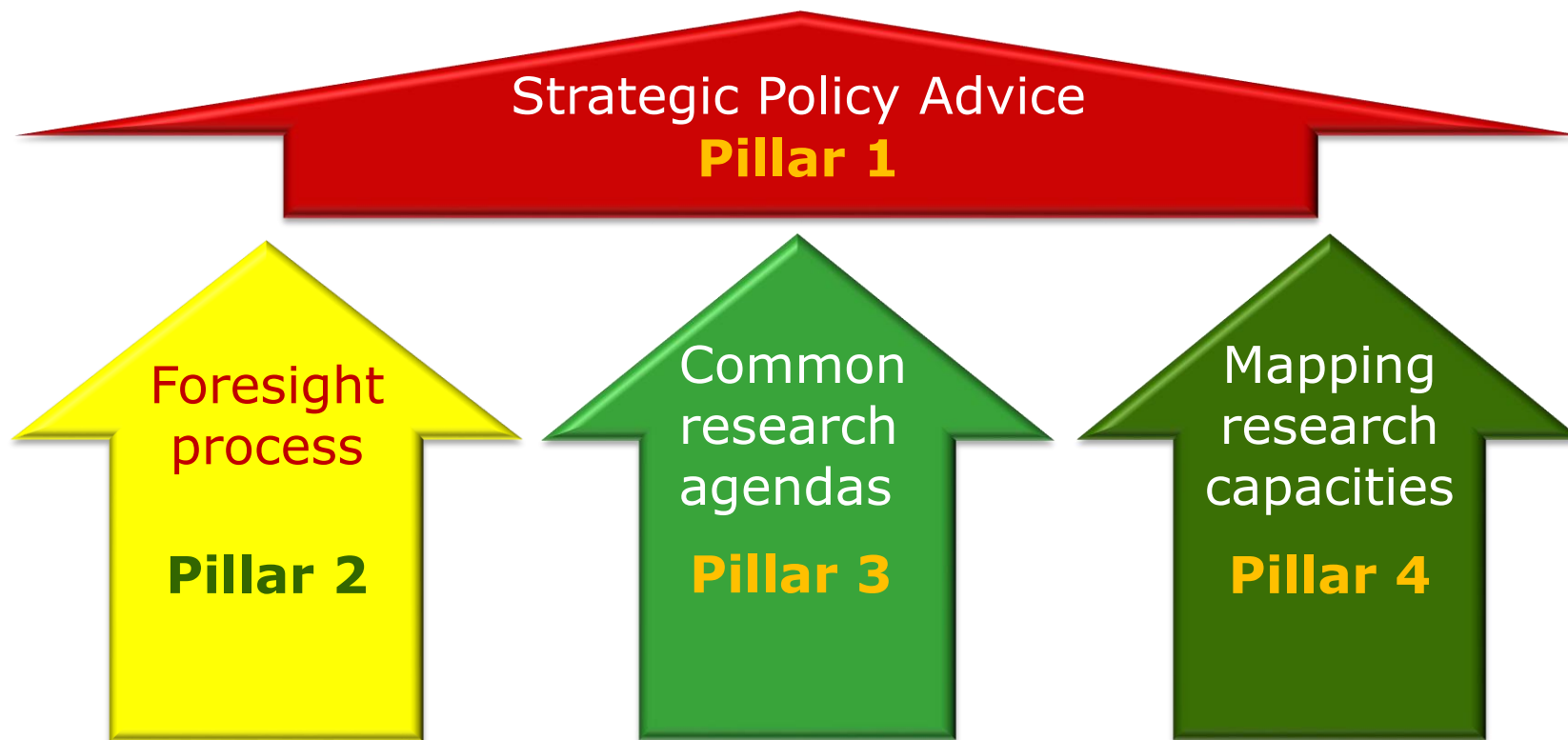
- **Future** (forecasting & forward thinking)
- **Planning** (strategic analyses & priority setting)
- **Transmission / implementation of results** (common research & networking)

**SCAR has always supported Foresight and related processes as a core instrument to inform, to advise and to facilitate policy
Research & innovation plays a key issue**



SCAR: main initiatives

European Research Area in the Bioeconomy





1st Foresight (2007)



Towards Future Challenges of Agricultural Research in Europe: key messages for research and priority settings



The future of agriculture in a 20 years perspective based on a **challenge approach** allowing the **identification of innovation needs** based on **scenarios**



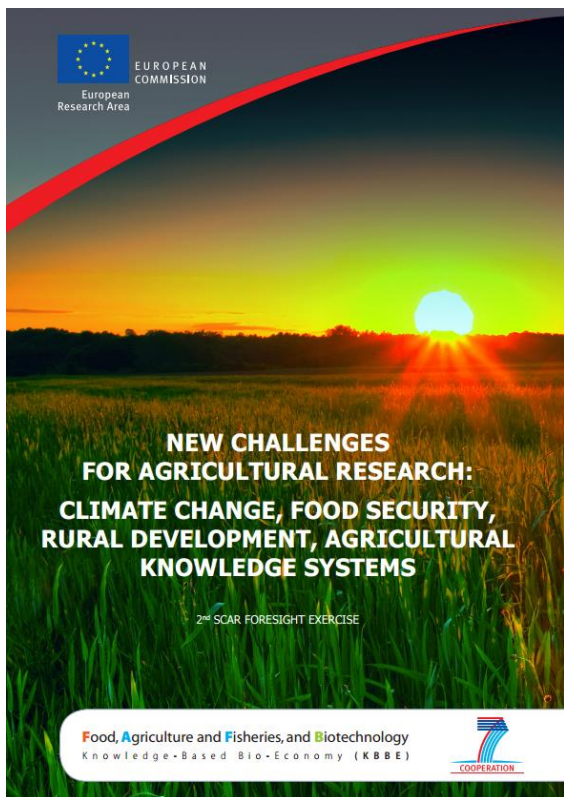
Climate
Environment
Trade
Energy

Demography
Food
KIS
Research

CWG Agriculture & Climate Change



2nd Foresight (2009)



https://ec.europa.eu/research/scar/pdf/scar_2nd-foresight_2009.pdf

Focused on **resilience and crisis**

- Complexity
- Underestimation of Climate Change impact
- Vulnerability of the food system
- The challenge of sustainable development
- Inadequacy of AKS



Agriculture,
Food Security
and Climate Change

FACCEJPI

<https://www.facejpi.com/>

SWG AKIS

2012



http://ec.europa.eu/research/bioeconomy/pdf/ki3211999enc_002.pdf



SCAR SWG AKIS inspires novel approaches



Multi-Actor Approach in
Societal Challenge 2 (SC2)
since the WP 2014-2015

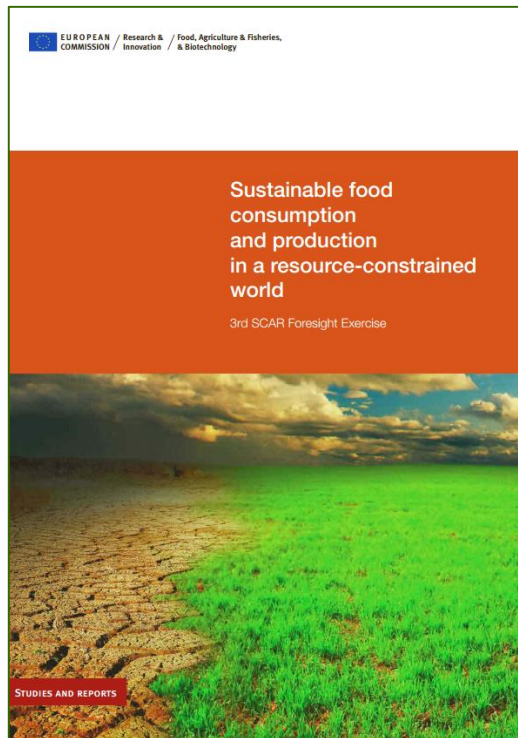
Rural Renaissance:
*Fostering innovation and
business opportunities,
in SC2 WP 2016-2017*



European Innovation
Partnership 'Agricultural
Productivity and
Sustainability'



3rd Foresight (2011)



https://ec.europa.eu/research/scar/pdf/scar_3rd-foresight_2011.pdf

Environmental and resource issues (**resource scarcities**) that might become important in a 30-40 years perspective to provide enough food, feed, fibre and fuel in our century.

- Two narratives were identified, **Productivity** and **Sufficiency**, and response to challenges examined through these “lenses”.
- **3 SWGs:**
 - **Forest Research and Innovation**
 - **Sustainable Bioresources for a Growing Bioeconomy**
 - **Fisheries & Aquaculture**

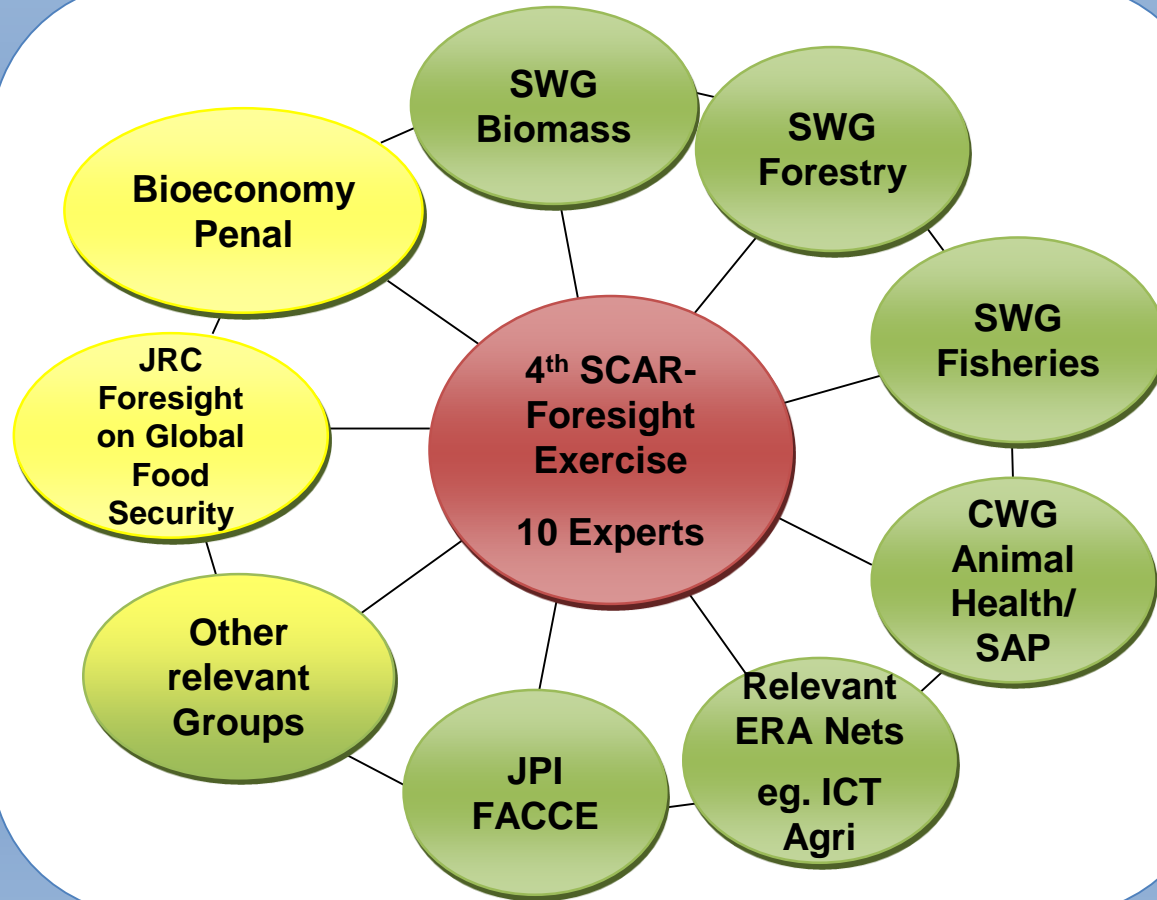
4th SCAR Foresight Exercise with oversight function

Grand Challenges of 21th century

EU-Bioeconomy Strategy

Food Security

Horizon 2020



EU-Strategy 2020

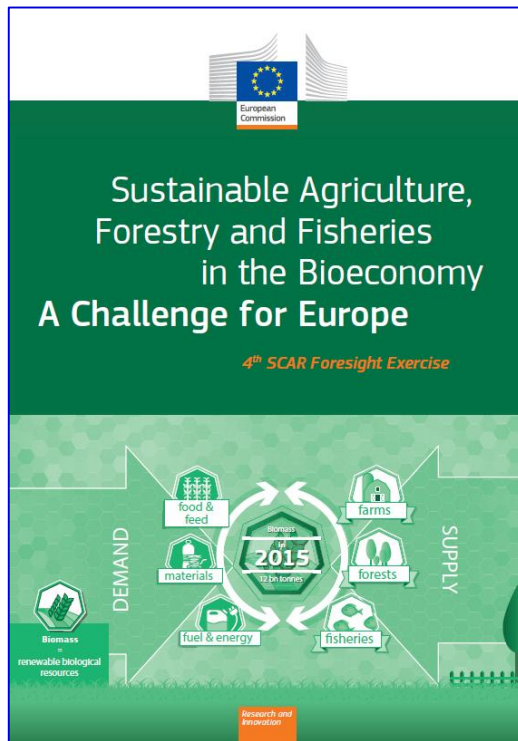
Climate Change

CAP Reform

Resource Scarcities



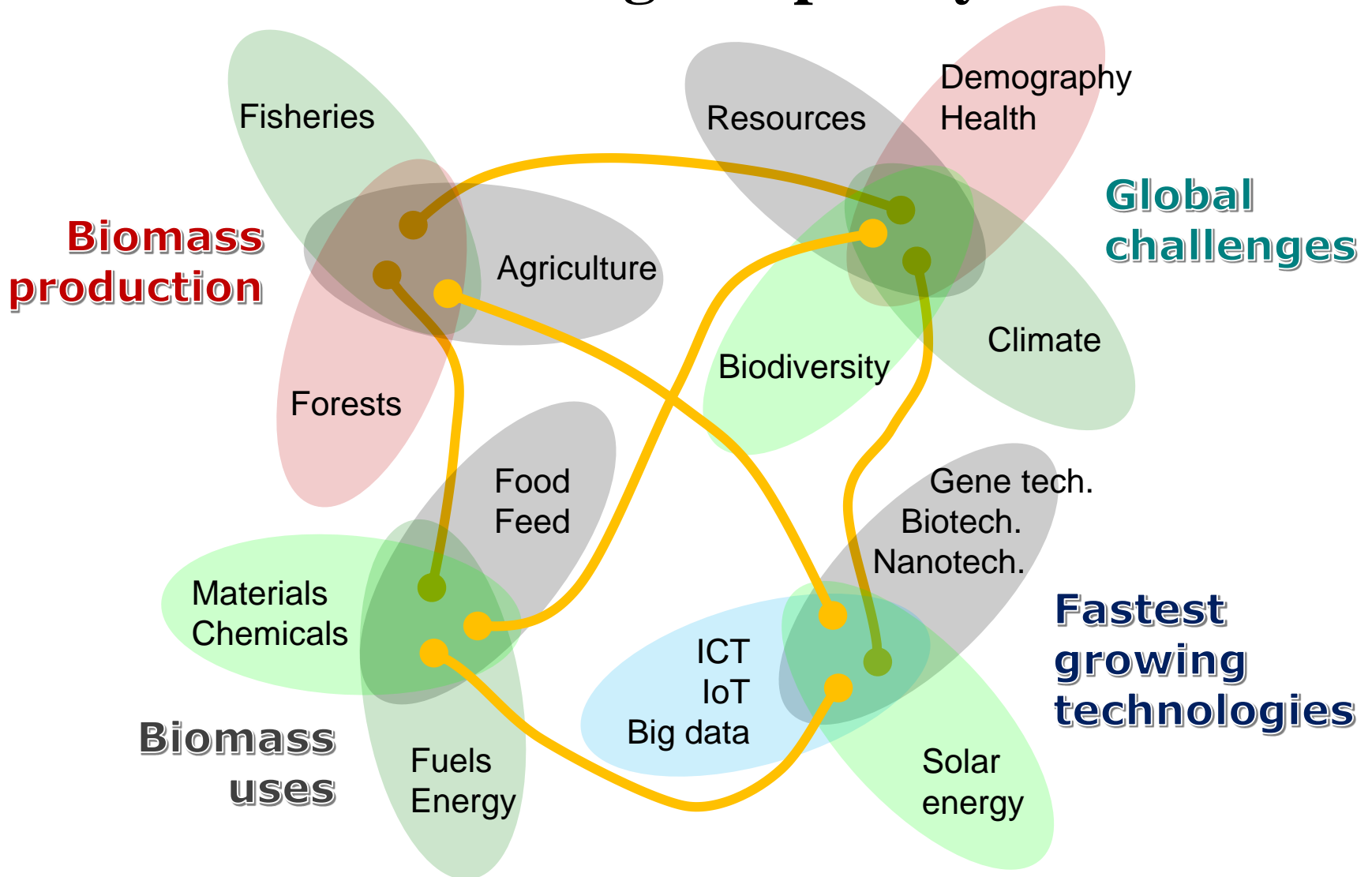
4th Foresight (2015), the first in the Bioeconomy



- Launched in 2014 to explore the interactions between the **primary sector** and the **Bioeconomy**.
- Emphasis on the future (2050).
- Explores **what might happen** by developing the paradigm of the bioeconomy with the fundamental constraint of sustainability.
- Analyses **dilemmas**, possible conflicts, opportunities and threats **based on scenarios**
- Identifies guiding **principles**



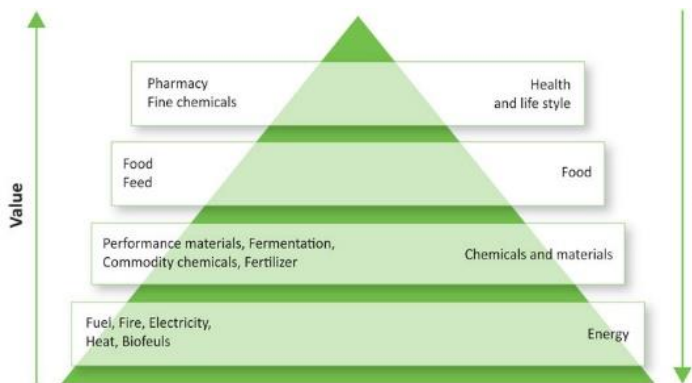
Growing complexity





4th SCAR Foresight – 5 key principles for a sustainable Bioeconomy

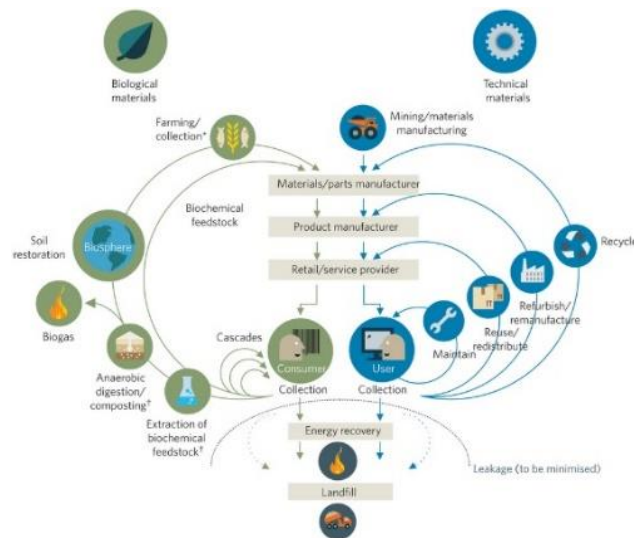
- Food first
- Sustainable yields
- Circularity
- Cascading approach
- Diversity



<http://www.betaprocess.eu/the-value-pyramid.php>



<http://www.forestsandfish.com/sustainable/>



<http://www.ellenmacarthurfoundation.org/circular-economy>



The way forward: Research

- **Transdisciplinarity:** needs to be built into **educational systems**
- «*Ride the wave*» of the **fastest growing fields:** ICT, Gene-Bio-Nano-technologies, Solar energy, ...
- Innovation in the **AKIS** is needed; OPEN science (access, data)
- Innovation is **not only technology** (social models, businesses, markets, behaviours) **SSH fundamental.**
- Engagement with **Society**, participatory approach, dialogue

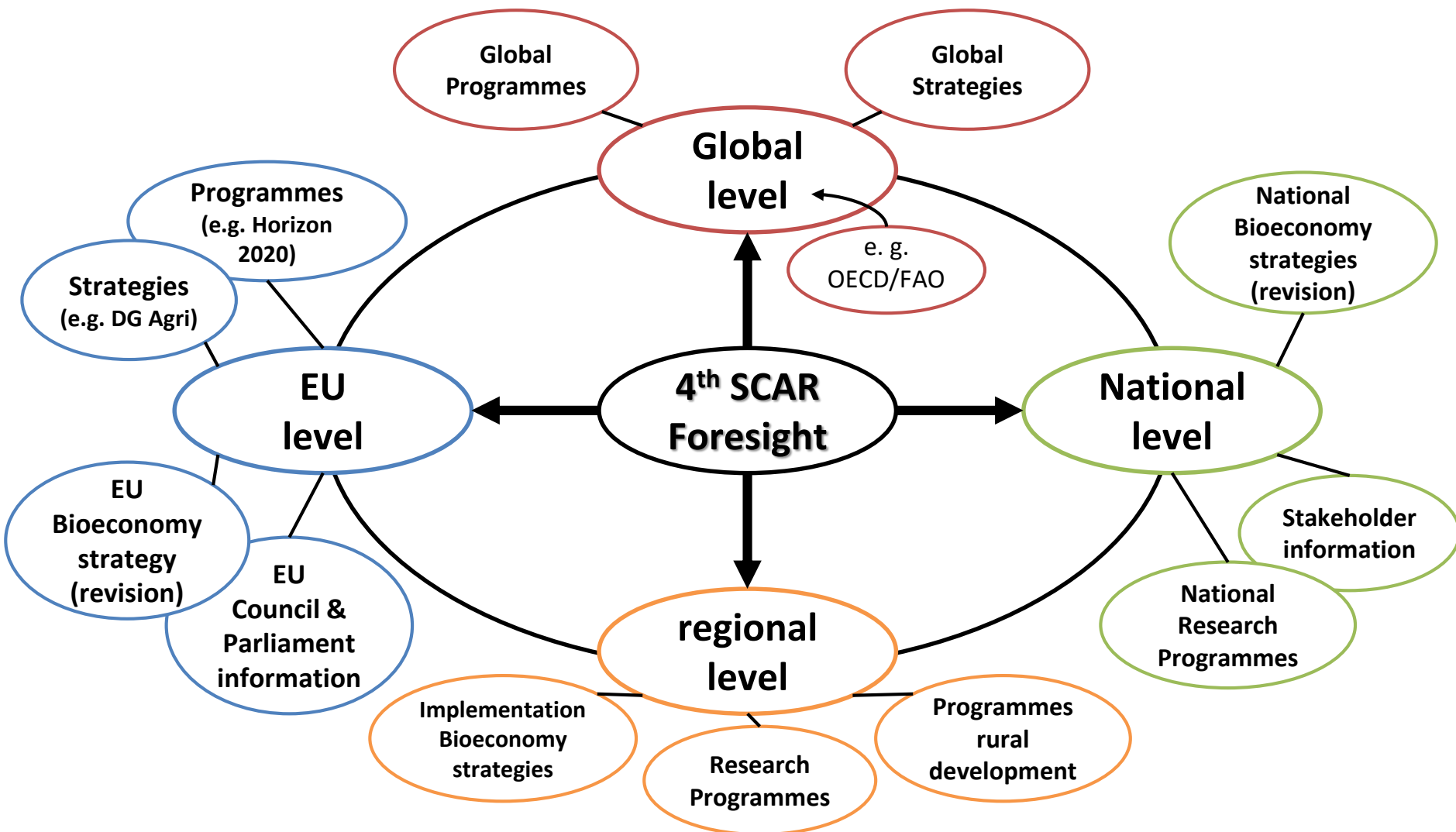


The way forward: Policies

- Complexity require **coordinated policies**.
Governance is crucial.
- Member States and Regions develop/consolidate
BE strategies.
- Policies should coherently help the transition:
synergies instead of **trade-offs**.
- Strong **coordination** between **Ministries** will increase
impact.



Implementation / Dissemination of SCAR Foresight-results/recommendation



CASA

Workpackage 2

Added value and improved quality for greater impact

Workpackage 2 – WP Leader AU

Contributors: BLE, DLO, Juelich,

MIPAAF, MOH



casa
Common Agricultural
and wider bioeconomy
reSearch Agenda



EUROPEAN UNION

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WP2: Task 2.5

Support to the implementation / dissemination of the 4th Foresight and its recommendations

In close cooperation with the Foresight Group and WP3 Task 3.6

- Mapping of the present state of implementation / dissemination of the 4th Foresight Exercise
- Mapping of the need for further support of implementation / dissemination of the 4th Foresight Exercise
 - Focus:
 - » on policies, research, development, and innovation
 - » within agriculture, forestry, fisheries, and aquaculture
 - » at national, EU and global level

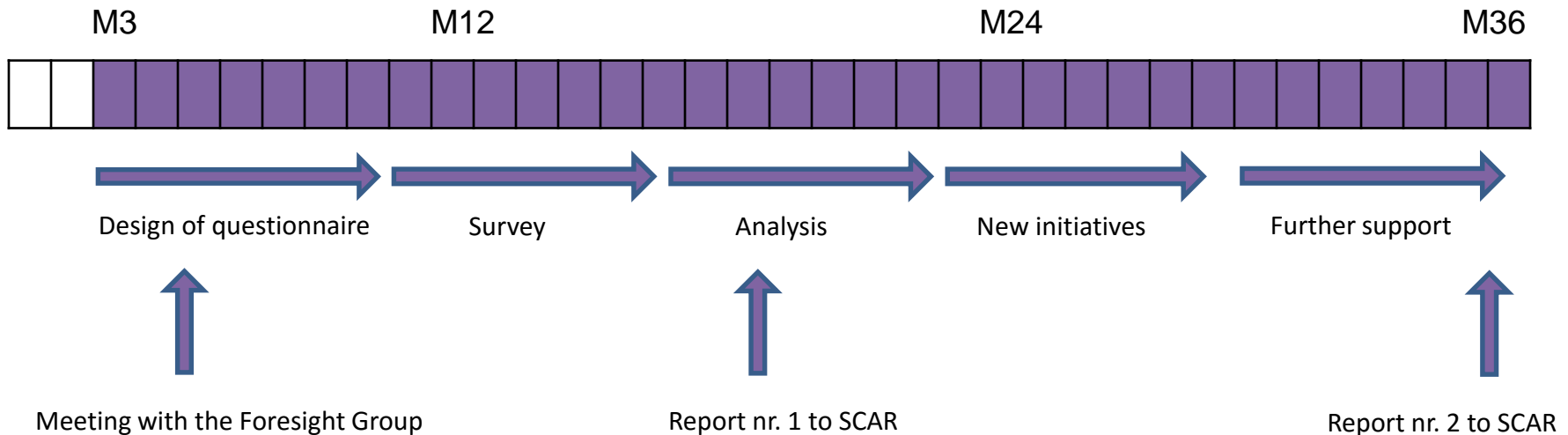


WP2: Task 2.5

Support to the implementation / dissemination of the 4th Foresight and its recommendations

- Participants: AU, BLE, MIPAAF, MOH
- Time interval: M3-M36

Timeline





Task 3.6 – Creating a structure for future SCAR Foresight Process

- Expected outcome: **Developing guidelines** for
 1. **A process for implementation of SCAR Foresight results** to increase their use – **directly linked to task 2.5**
 2. **A structure for the continuation of the Foresight process** – to illustrate pathways for a new Foresight study (trend analysis, monitoring of relevant political developments, priority setting of emerging issues,...) – **starting soon**

Your Input is needed – SCAR SWGs / CWGs



CASA Case Studies within the Foresight process

- 1. CASE Study – Review of EU Bioeconomy (involvement of SCAR experts)**
- 2. Case Study – Meta Analysis of Foresight Studies of the last three years (relevant documents) – a pre-study for the next SCAR Foresight**

Call text for the 5th SCAR Foresight is in place - WP (Challenge 2) for 2020



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Towards the 5th SCAR Foresight



Some ideas (to ignite a discussion) (1)

1. **Winners and losers** in the Bioeconomy (or in a Circular Bioeconomy)
2. What will be the effect of the **Bioeconomy** (or of a Circular Bioeconomy) on **GDP**?
3. **Business concentration** upstream and downstream of the farmer
4. Scientific, economic and political power of **multinationals**: what role for public research?
5. **What farms for the future?**



Some ideas (to ignite a discussion) (2)

6. Rural-urban relationships

7. What research logic for the future?

- Driven by expected economic impact
- From an ideal Society backwards (reverse engineering)
- Trial & Error
- 5th SCAR Foresight beyond Bioeconomy ?

Your Input is needed – SCAR SWGs / CWGs



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Thank you for your attention



**SCAR Foresight
Vision for the future**