



Horizon Europe Cluster 6 Work Programme 2021-2022

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18 March 2021

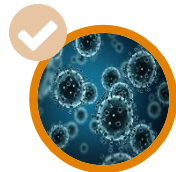
R&I are key enablers...



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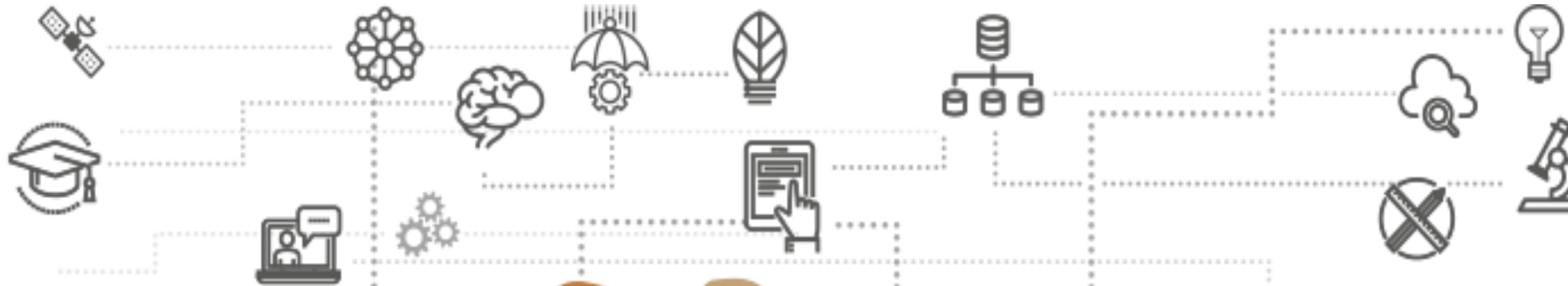
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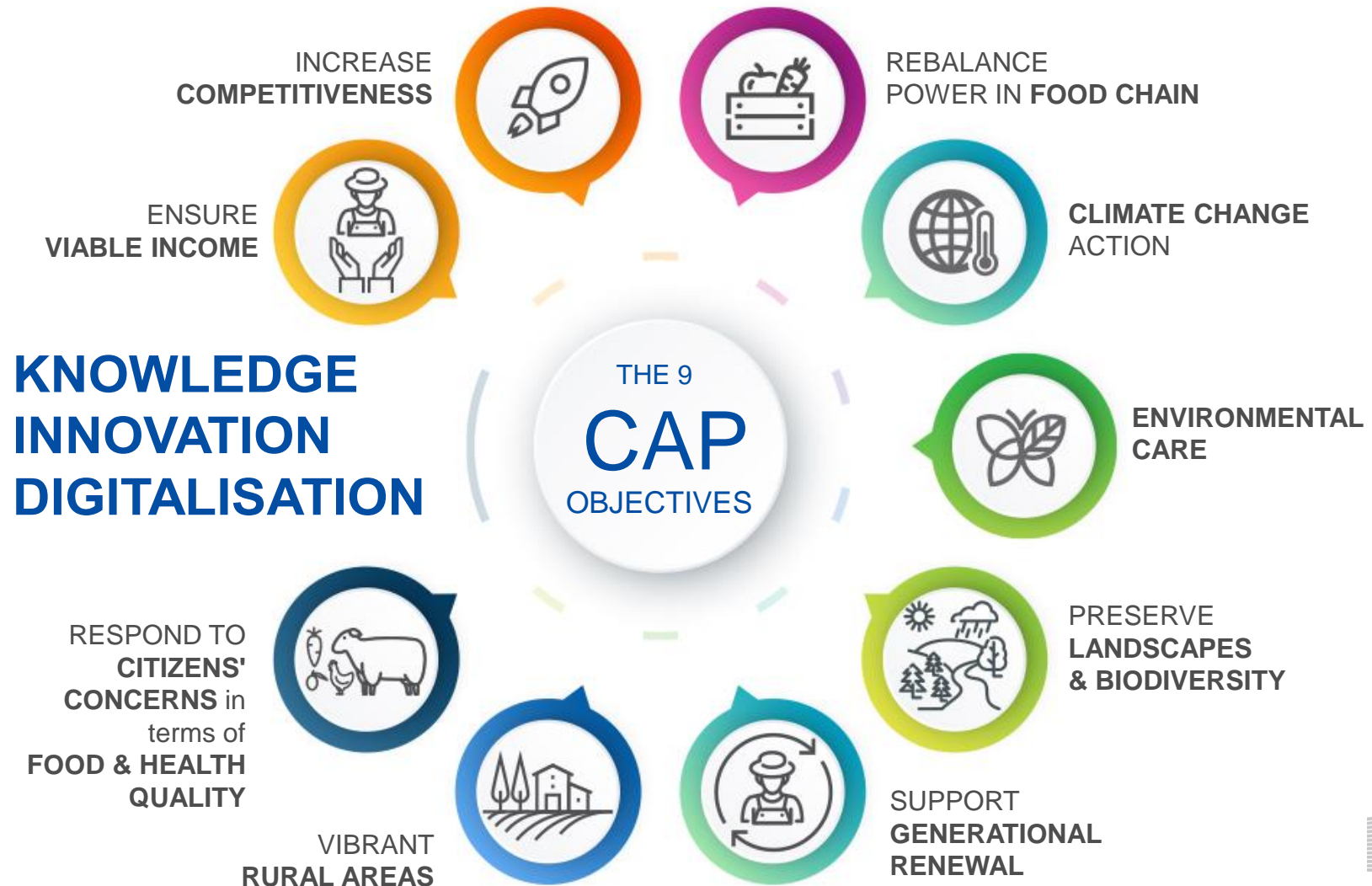
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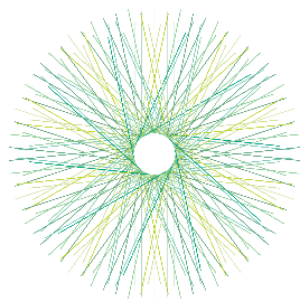
...cross-cutting objective in the future CAP



From strategy to action: working in close synergy

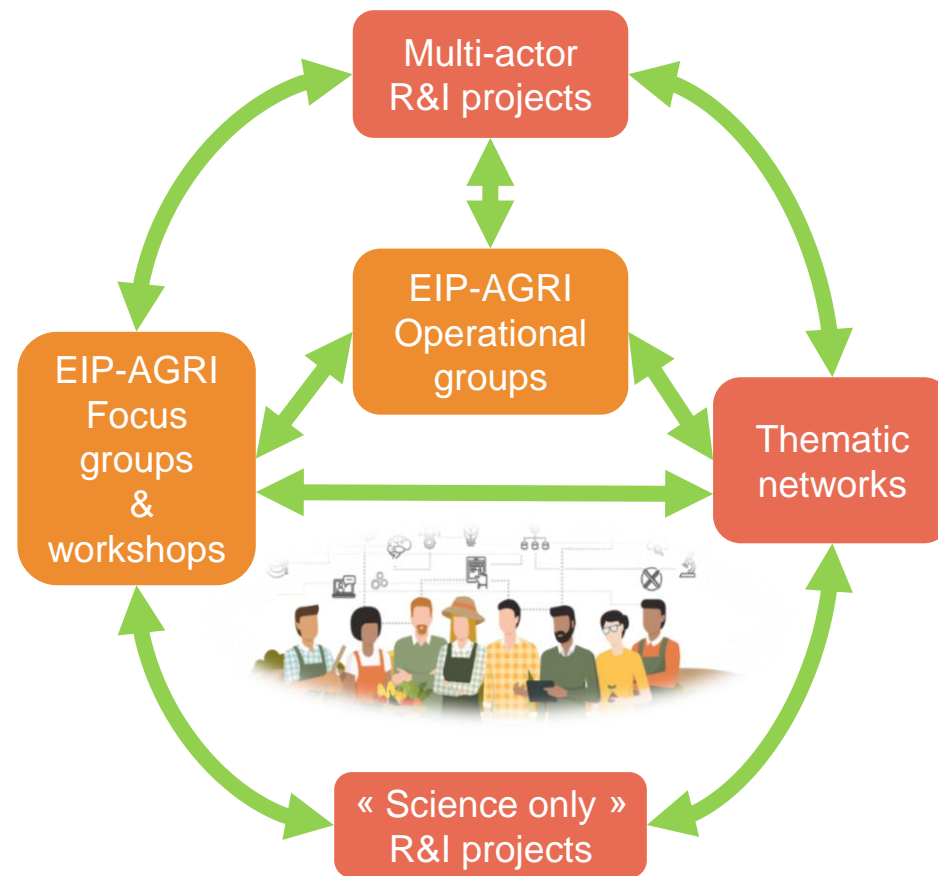


CAP



eip-agri
AGRICULTURE & INNOVATION

Horizon 2020



2014

2016

Today

From strategy to action: achievements so far



- ✓ **315 projects** – EUR 1,9 billion under Horizon 2020
- ✓ **190 H2020 multi-actor projects** (EUR 1 billion), including **29 thematic networks**; 50% newcomers
- ✓ 27 Member States implementing the EIP; over **2000** out of 3200 **OGs** already running
- ✓ A growing and thriving **network** and increasing volume of practice-oriented knowledge and innovations



2014

2016

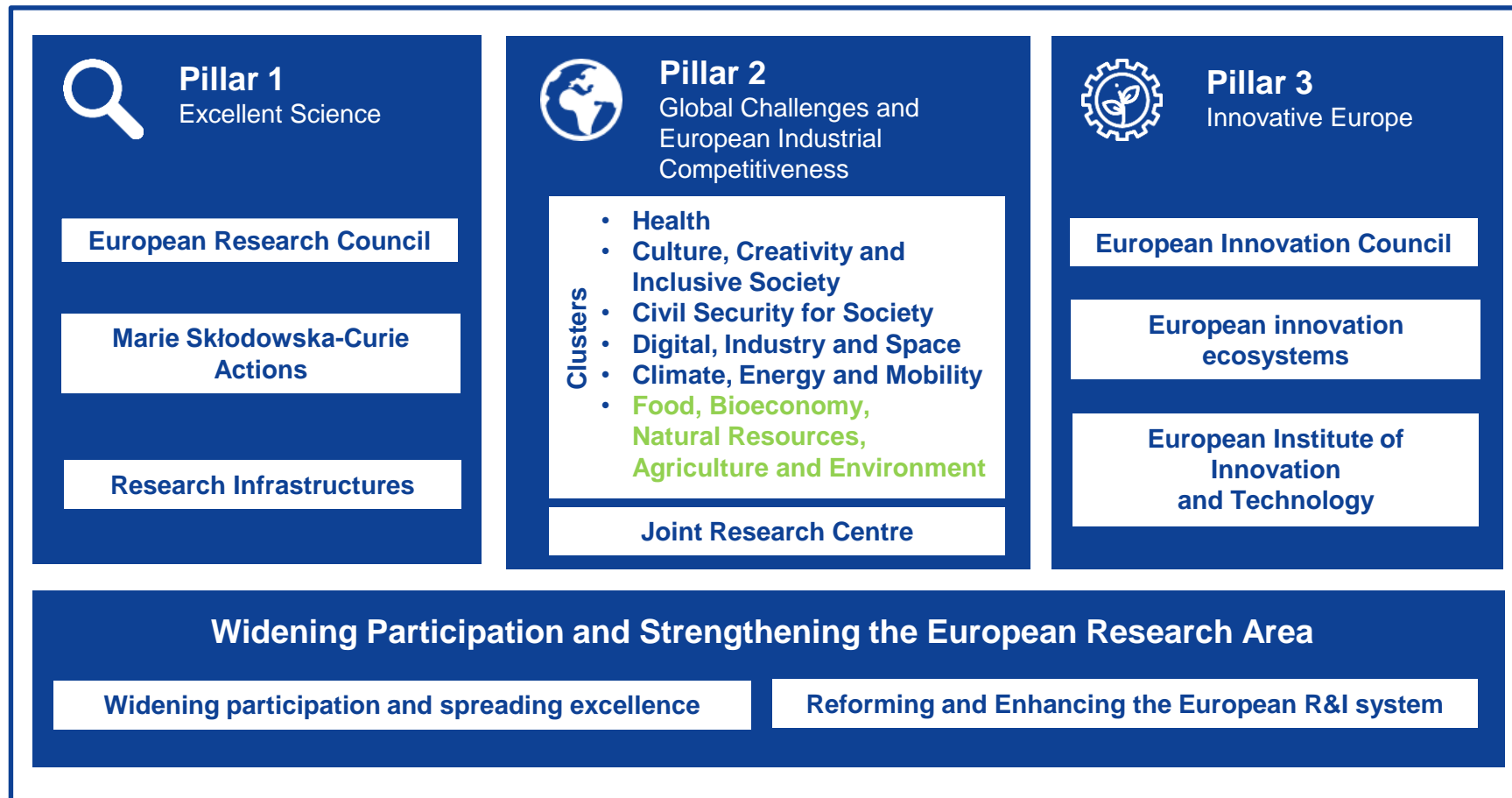
Today

Time to step up the efforts!



...by 2030 = 9 years = 9 growing seasons...

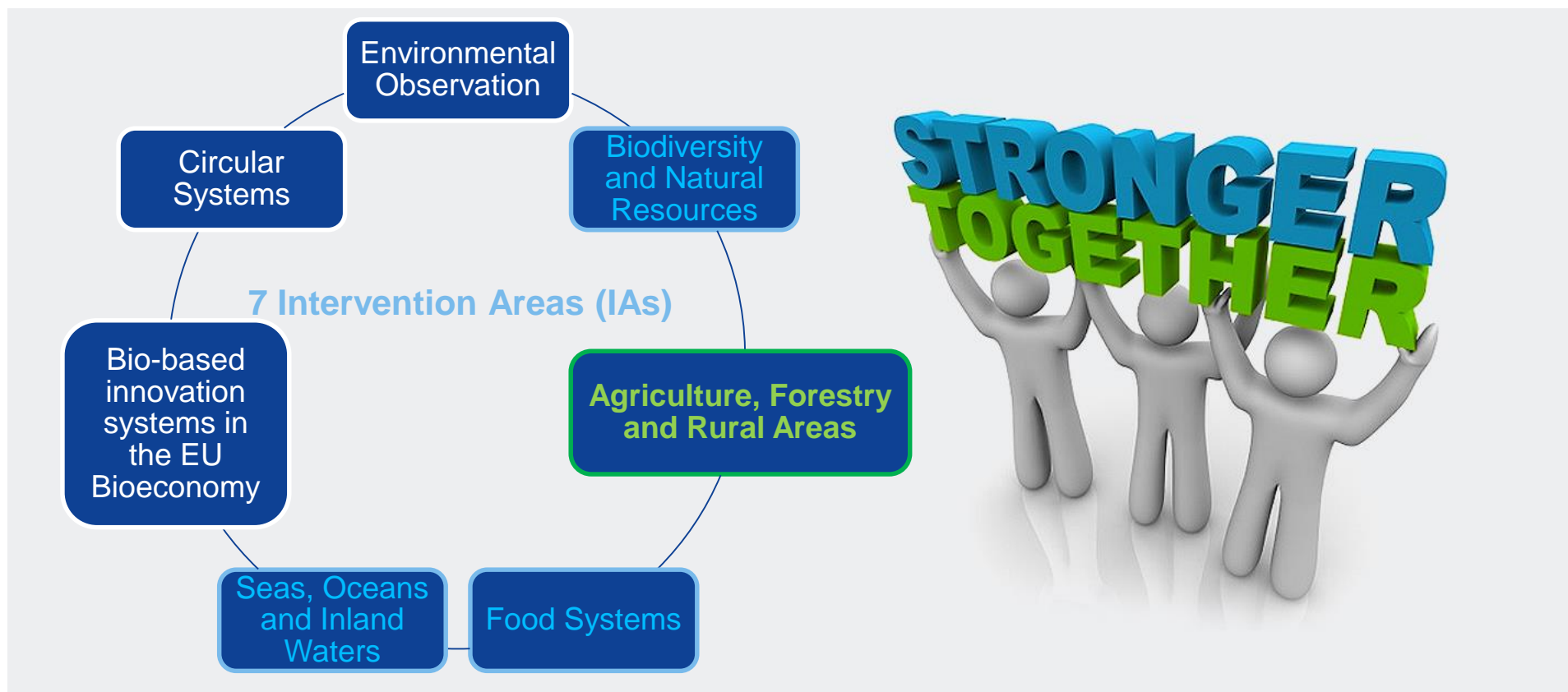
Horizon Europe: structure & resources



EUR 9 billion under Horizon Europe
for Cluster 6 “Food, Bioeconomy, Natural Resources, Agriculture and Environment”

Cluster 6: structure & co-creation

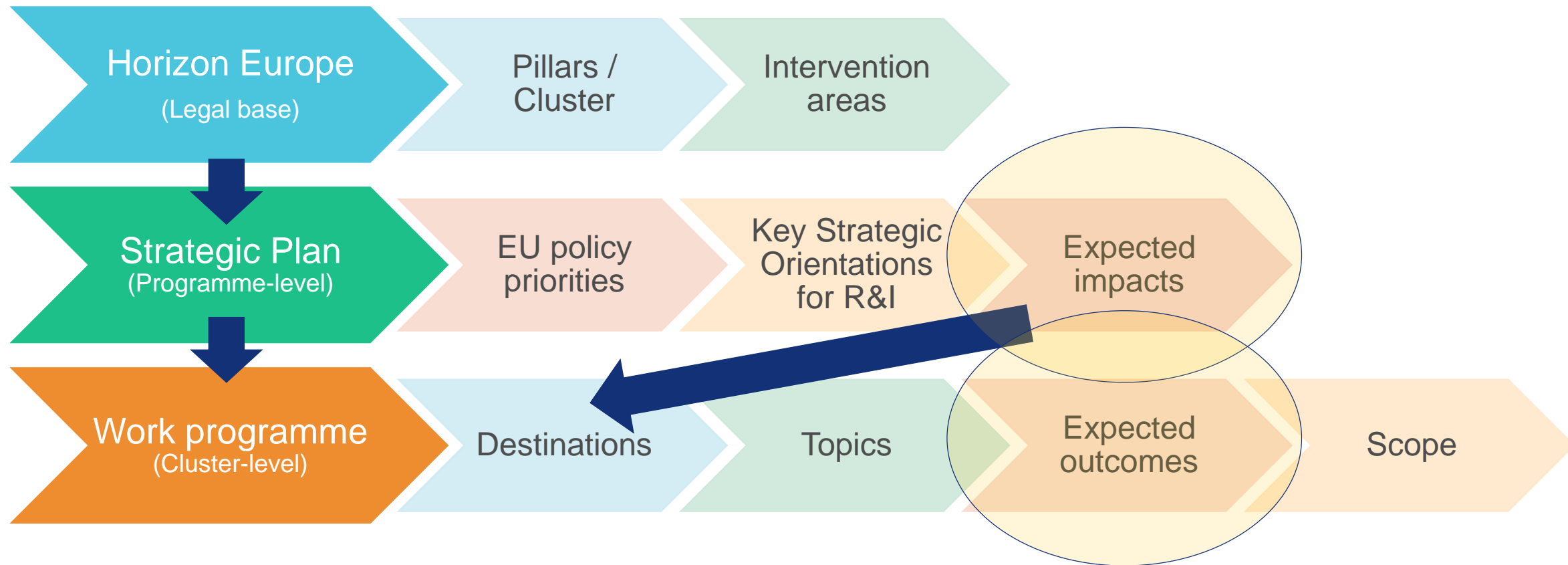
We work with...



...and across clusters



Horizon Europe: intervention logic



Expected impacts shape the WP destinations

Strategic Plan

Work Programme

Impact 1 Climate neutrality and adaptation to climate change

Destination: Land, oceans and water for climate action

Impact 2 Preservation of biodiversity and ecosystems

Destination: Biodiversity and ecosystem services

Impact 3 Sustainable use of natural resources: water, soil and air

Destination: Circular economy and bioeconomy sectors, climate change mitigation and zero pollution

Impact 4 Food and nutrition security, sustainable food systems and rural development

Destination: Sustainable and environmentally-friendly food production to consumption

Impact 5: Balance of rural, coastal and maritime territories

Destination: Inclusive, healthy and green rural, coastal and maritime territories

Impact 6: Innovative governance models enabling digital, environmental and social sustainability, environmental observation and digital solutions

Destination: Innovative governance, environmental observations and digital solutions in support of the Green Deal

Agriculture, Forestry and Rural Areas



Key R&I priorities for agriculture, forestry and rural areas



Destination 1 Biodiversity and ecosystem services

- Fostering **breeding** of **organic** crops, legumes and root-base traits
- Protection and sustainable management of **forest genetic resources**



Destination 2 Sustainable food systems from farm to fork

- Unlocking the potential of **agroecological approaches**
- Developing **vaccines** and **diagnostics** for priority animal diseases; enhancing **animal welfare**
- **Digital technologies** as enablers for small farms



Destination 3 Circular and bioeconomy

- Mainstreaming inclusive **small-scale bio-based solutions** in rural areas
- Harnessing the **digital revolution** in the **forest-based** sector



Key R&I priorities for agriculture, forestry and rural areas



Destination 4 Clean environment and zero pollution

- Optimization of **nutrient budget** in agriculture and enhancing **nature-based solutions** for nutrient management



Destination 5 Land, oceans and water for climate action

- **Demonstration** network on **climate-smart farming**
- **Unlocking the potential of agroecological approaches**, including **agroforestry**, to climate action
- **Observatories** on climate change impacts on and **enhancing resilience** of agriculture and of forestry



Destination 6 Resilient, inclusive, healthy and green rural communities

- Strengthening **evidence for tailored policies** enhancing rural communities' contribution to ecological, digital and social transitions
- **Smart solutions for smart rural communities**



Key R&I priorities for agriculture, forestry and rural areas

Destination 7 Governance, environmental observations and digital solutions in support of the Green Deal



- Innovative tools and methods to support effective **CAP Strategic Plans**
- EU agriculture within a **safe and just operating space**

- **Risks and benefits of digitalisation** as enabler for sustainable agriculture

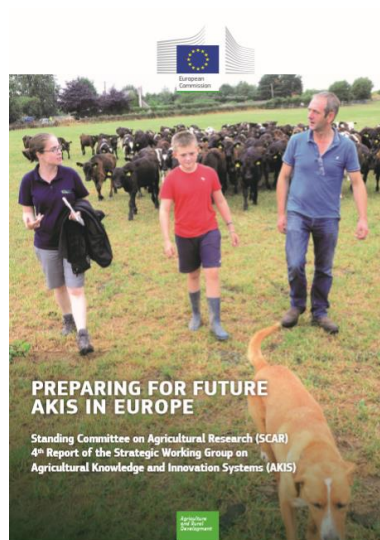


- An EU-wide interactive **knowledge reservoir**
- Thematic & advisory **networks**

Boosting implementation



- **Multi-actor approach:** strengthened and streamlined throughout the whole Cluster 6



- In their CAP Strategic Plans, Member States will need to scale up support for **EIP-AGRI** and **AKIS**, and strengthen resources to develop and maintain appropriate **advisory services** needed to achieve the Green Deal objectives and targets.

Leaving space for new approaches

Adaptation to climate change,
including societal transformation

Agriculture, Forestry
and Rural Areas

Soil health and
food



**Mission
areas**



Cancer

Climate-neutral
and smart cities



Healthy oceans,
seas, coastal
and inland waters

Encouraging synergies within the EU and globally



- Next Work Programme 2023-2024: **large-scale R&I partnerships** with the Member States and Associated Countries
 - Animal health and welfare
 - Agriculture of data
 - Agro-ecology living labs and research infrastructure
- Circular Bio-based Europe (CBE) → primary producers

-
- EU-Africa R&I Partnership on Food and Nutrition Security and Sustainable Agriculture (FNSSA) and EU-China FAB
 - International research consortia (IRC):
 - Star Idaz on animal health
 - a new IRC in the area of soil and carbon
 - Cooperation with the Global Research Alliance on Agriculture Greenhouse Gases (GRA)



Indicative timeline

Strategic Plan 2021 - 2024

- Mid-March 2021: adoption

Work Programme
2021-2022

- Until 26 March 2021: inter-service consultations
- Beginning of May 2021: adoption
- End of May 2021: Cluster 6 Info Days
- June 2021: R&I Days



Thank you



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Alternative slides on R&I priorities

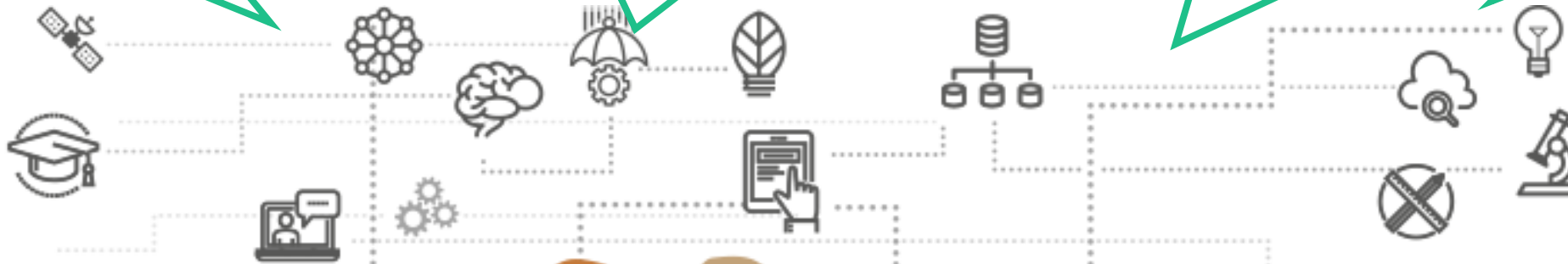
Key R&I priorities for agriculture, forestry and rural areas

Managing land, **soil, water and nutrients** in sustainable ways

Achieving **climate neutrality and adapting to climate change**
(Destination 5)

Maximising the use of the wide range of **ecosystem services and reversing biodiversity loss**
(Destination 1)

Increasing **EU-grown plant proteins**



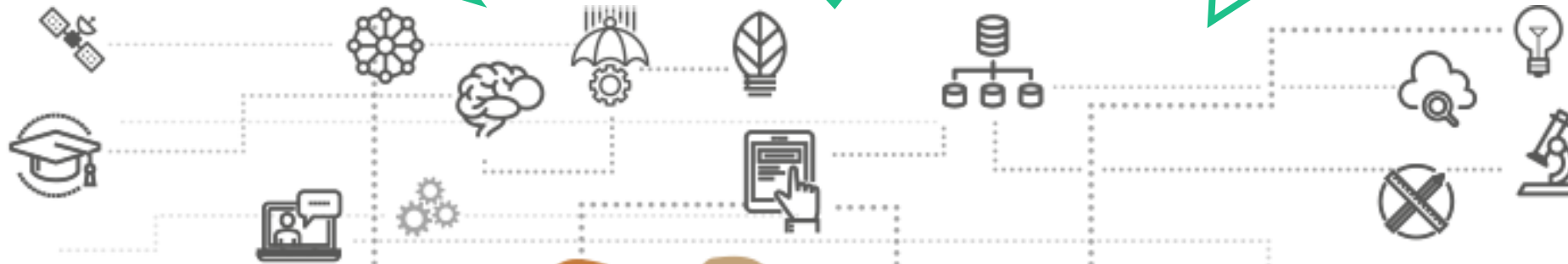
Key R&I priorities for agriculture, forestry and rural areas

Reducing their dependency on **pesticides, antimicrobials** and excess **fertilization**

Improving **plant and animal health and welfare**

Unlocking the potential of **agroecology** and fostering **organic farming**

Boosting **digital and data technologies** will be also key enablers



Key R&I priorities for agriculture, forestry and rural areas

Community-led innovations
for smart rural communities

Supporting development of
enabling **policy, business
models** and **market conditions**

Fostering **Agriculture Knowledge
and Innovation Systems (AKIS)**
(Destination 7)

