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Rural opportunities

Breakout session 6



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Commission

Agenda

- | | | |
|---------------|------------------------|---------|
| 13:00 – 13:10 | Welcome | Part I |
| 13:10 – 13:20 | Keynote speech | |
| 13:20 – 13:30 | Presentation | |
| 13:30 – 14:30 | Panel discussion | |
| 14:30 – 15:30 | Co-creative discussion | Part II |

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Keynote speech



*Dr. Emilia Schmitt
University of Cordoba,
Scientific coordinator of the H2020
project MOVING*

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Rural Opportunities: insights from MOVING H2020 project



Dr. Emilia Schmitt - moving.coord@uco.es

Special thanks to MOVING partners and stakeholders without whom this presentation would not be possible

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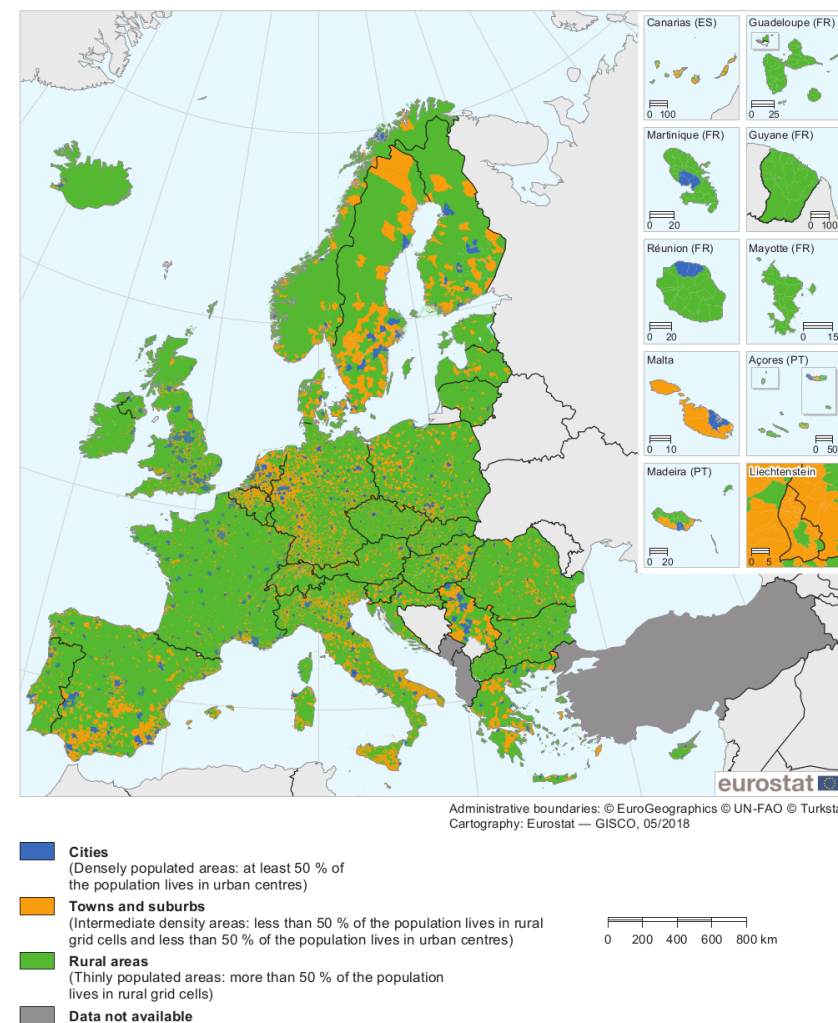
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About rural areas in Europe

- 76,4% of land
- 24,1% of population (and older)
- Lower levels of tertiary education, digital skills and daily access to the internet
- Less (un-)employment, lower GDP per capita
- More difficult access to (health) services
- More space, better access to houses, more nature
- VERY DIVERSE SETTINGS

Degree of urbanisation for local administrative units (LAU)



Note: based on population grid from 2011 and LAU 2016.
Source: Eurostat, JRC and European Commission Directorate-General for Regional Policy

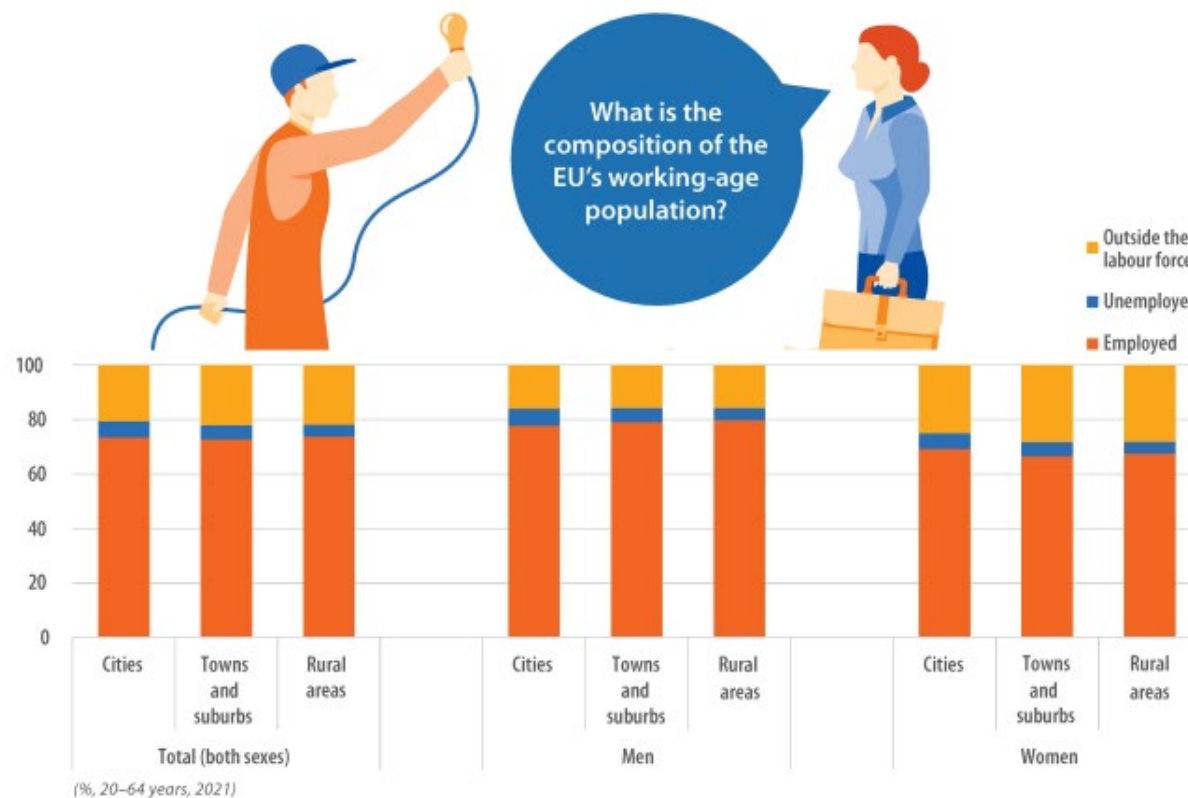
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About rural areas in Europe



About rural areas in Europe



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Positive and negative trends

- From west-east divide to center-periphery divide

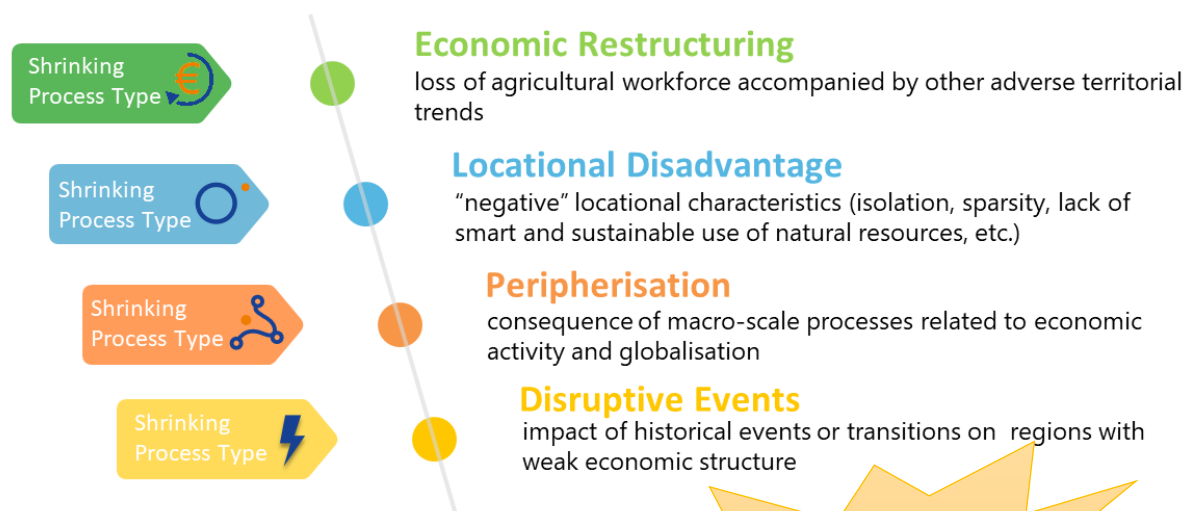
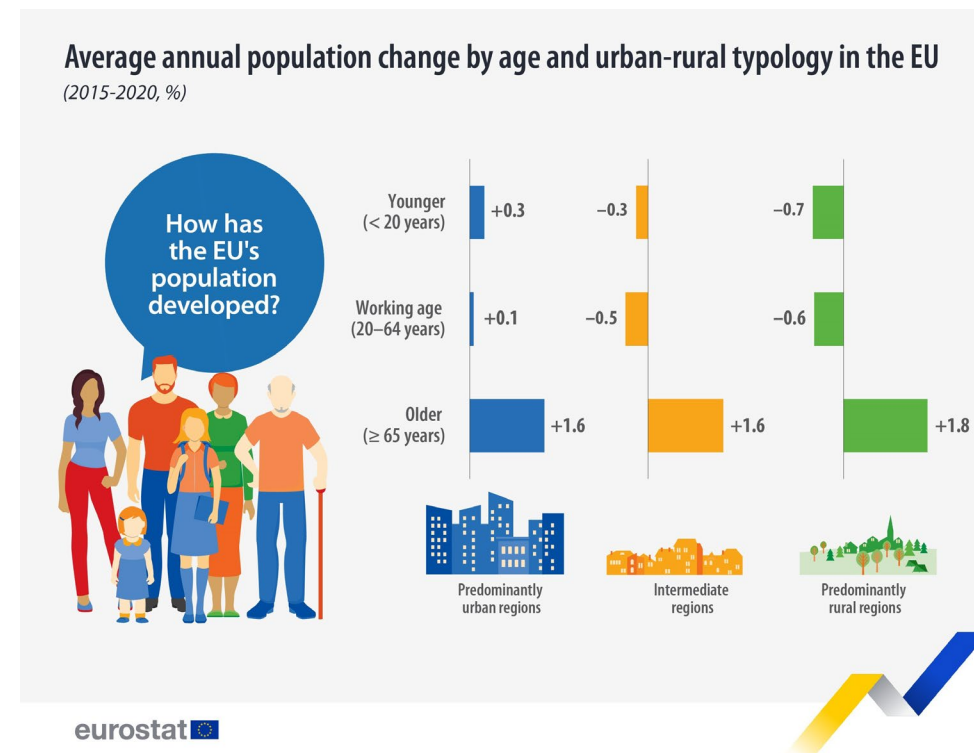


Figure from ESPON

Covid-19



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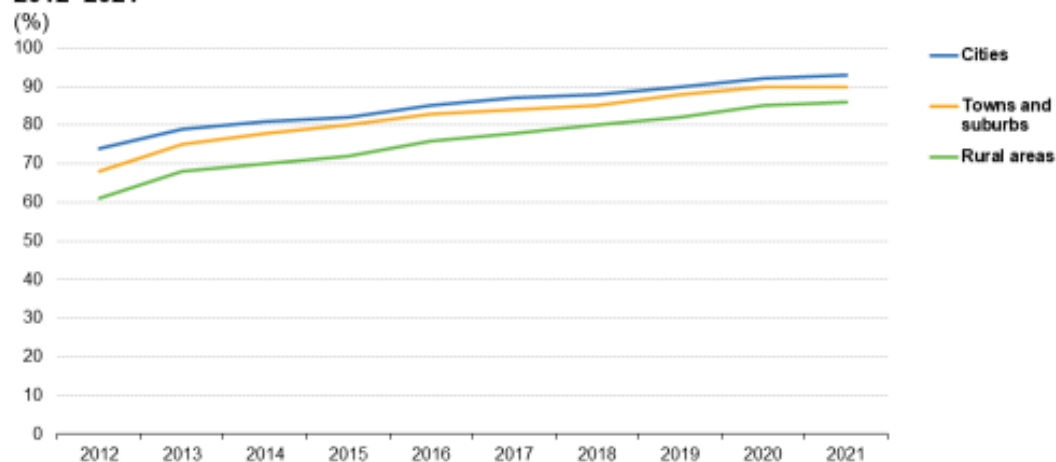
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Positive and negative trends

- Future of connected towns and suburbs, with more space for nature

Households with broadband internet by degree of urbanisation, EU, 2012–2021



Note: 2020, estimates. 2021: break in series.
Source: Eurostat (online data code: isoc_ci_it_h)

eurostat

The new EU-wide Biodiversity Strategy will:

- Establish protected areas for at least:



30%
of land in
Europe



30%
of sea in
Europe

With stricter protection of remaining EU primary and old-growth forests legally binding nature restoration targets in 2021.

- Restore degraded ecosystems at land and sea across the whole of Europe by:



Increasing organic farming and biodiversity-rich landscape features on agricultural land



Halting and reversing the decline of pollinators



Restoring at least 25 000 km of EU rivers to a free-flowing state



Reducing the use and risk of pesticides by 50% by 2030



Planting 3 billion trees by 2030

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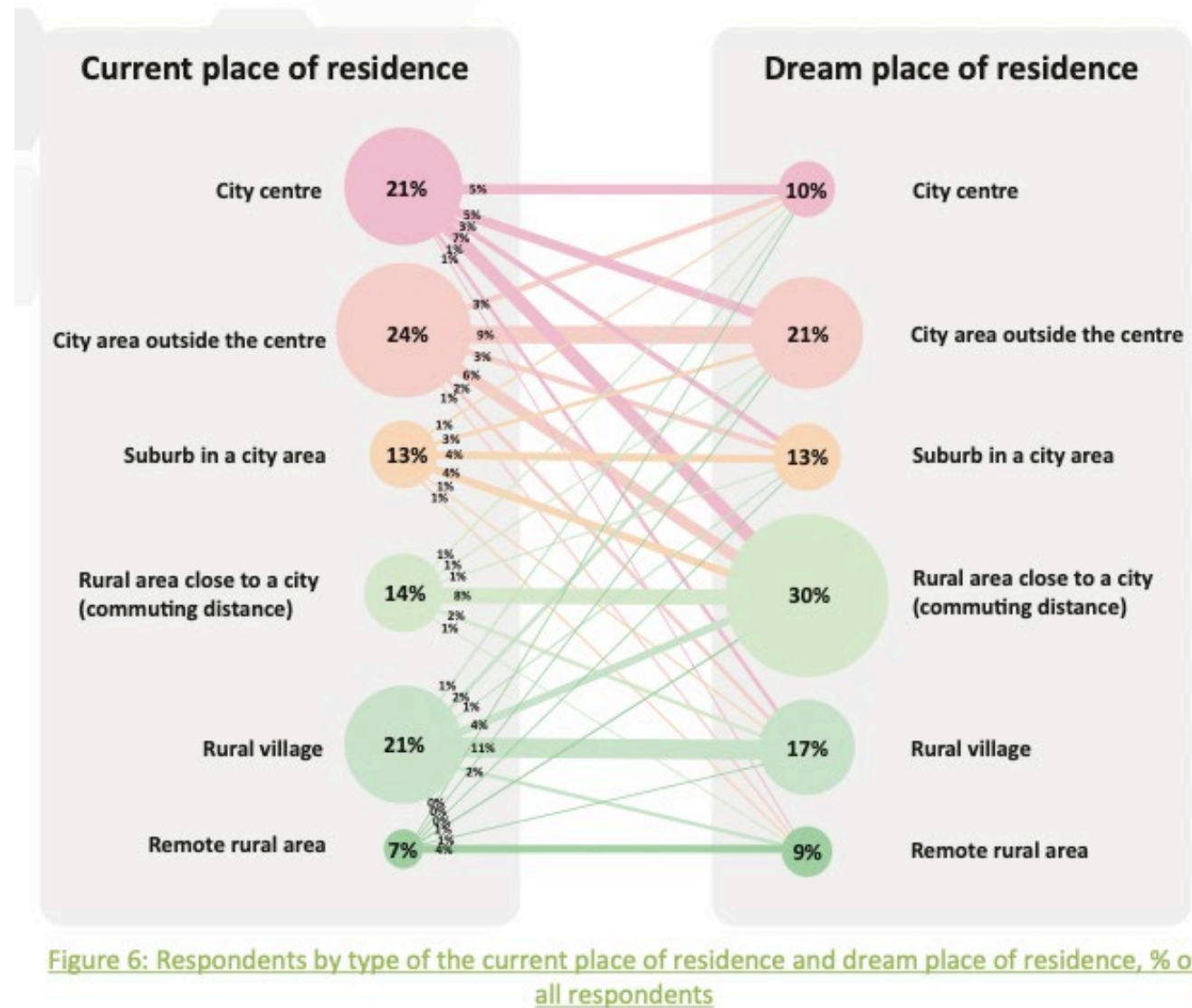


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Positive and negative trends

- Youth dreams about living in rural areas

Figure from Project Ruralization (2021)



Transition from...

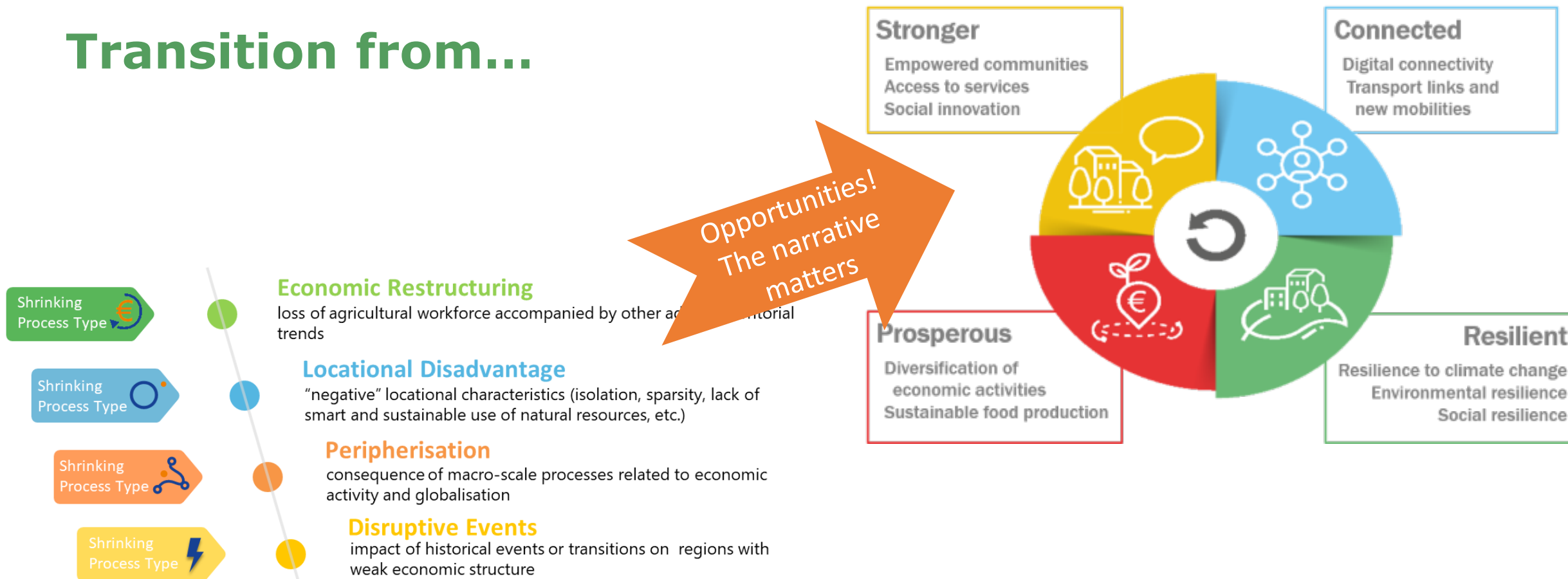


Figure from ESPON

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What is MOVING H2020 project?

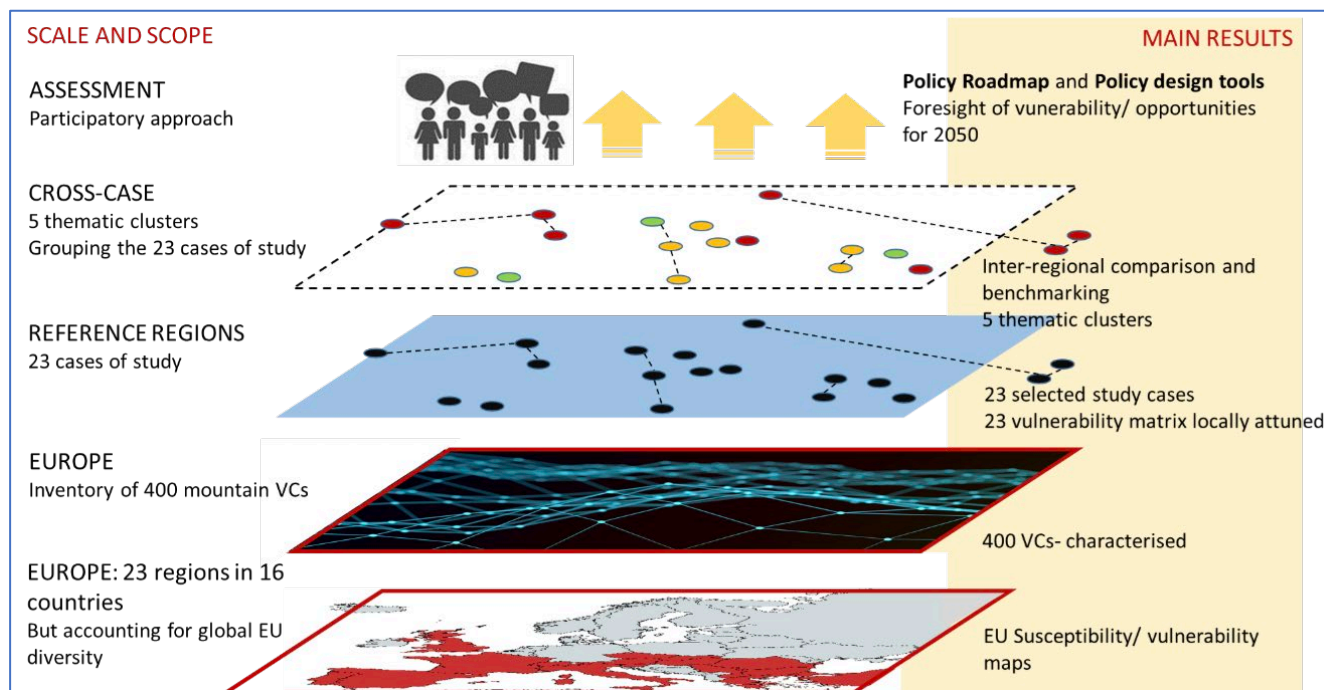
- MOVING (MOuntain Valorisation through INterconnectedness and Green growth)
- four-year project (2020-2024)
- coordinated by Prof. MM Delgado-Serrano, University of Córdoba, Spain

To **build capacities and co-develop** - in a bottom-up participatory process with value chain actors, stakeholders and policy makers - relevant **policy** frameworks across Europe for the establishment of new or **upgraded/upscaled Value Chains** that contribute to **resilience and sustainability of mountain areas**.

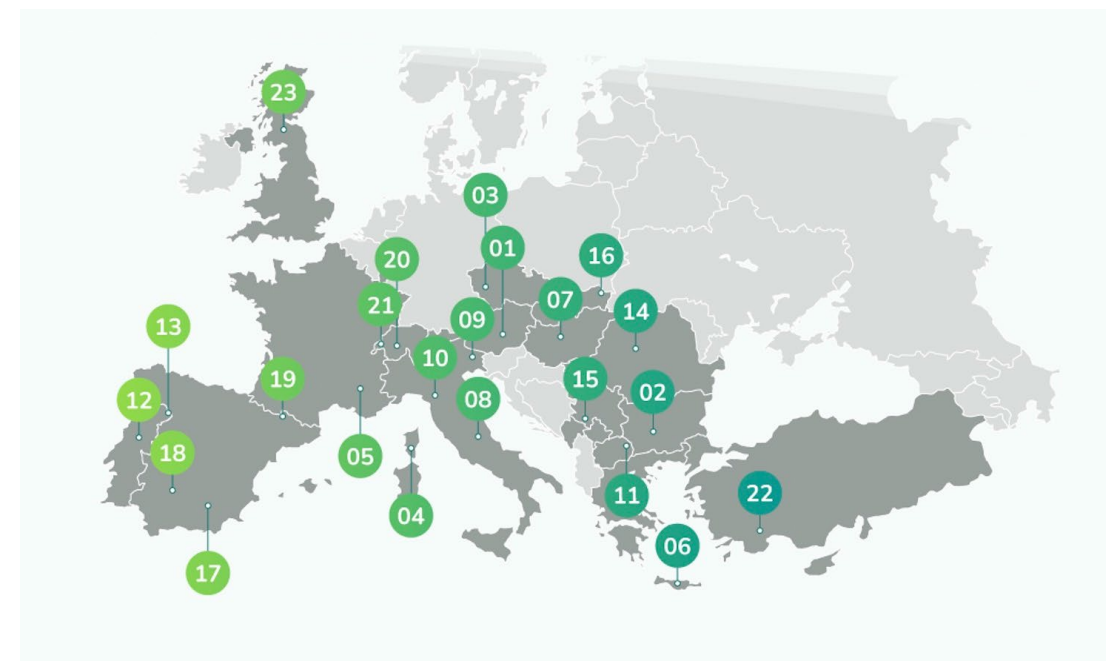


Activities in MOVING

Multi actor and multi-scale Science-Citizen-Policy Interface



- 23 partners, 16 countries
- 500+ actors involved



A few results in MOVING: portrait of rural opportunities

Inventory of mountain value chains

- 291 from 454 « innovative »
- Reframing of innovation for mountain areas
- Social and product innovations based on diversity and origin
- Connected to natural and social capital



In-depth case studies

- (re-) emerging products and processes
- Emergence from informal economy
- protected denominations
- (re-)Circular economy
- crucial role of women and youth
- Synergies between sectors

Vulnerability and adaptive capacity

- Drivers of vulnerability identified
- 160 adaptive mechanisms at regional level
- 340 adaptation measures from the value chains' perspective



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Other examples of contributions from MOVING to LTVRA

- Forums and workshops
- Two summer schools
- Youth engagement activities
- Repertoire of strategic options
- Foresight exercises
- Facilitation of cross-regional exchanges
- participatory building of a policy roadmap
- Survey on Mountain quality term
- PDO schemes

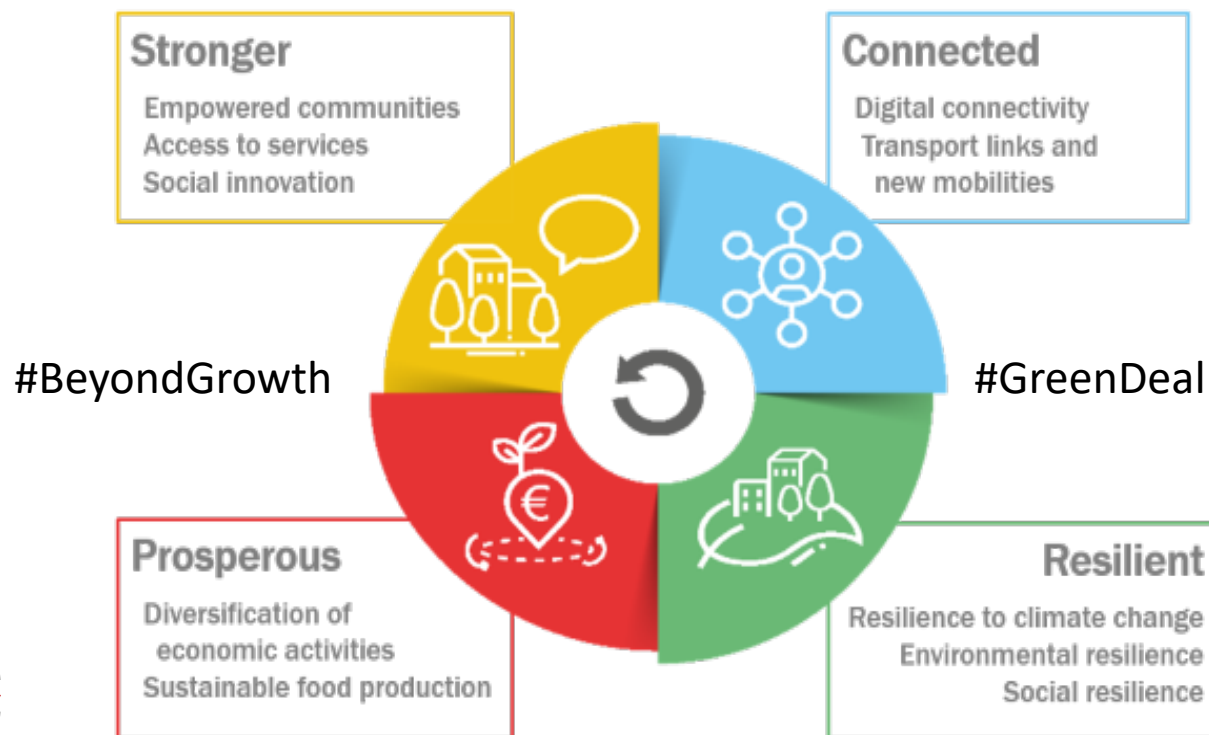


Opportunities in, for and from rural areas

Re-enabling



Re-valoring



Re-connecting



Re-wilding



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Overview of European R&I activities to support rural areas and communities



Arianna Pasa

***Research Programme Officer,
Research and innovation unit
European Commission, DG Agriculture and
rural development***

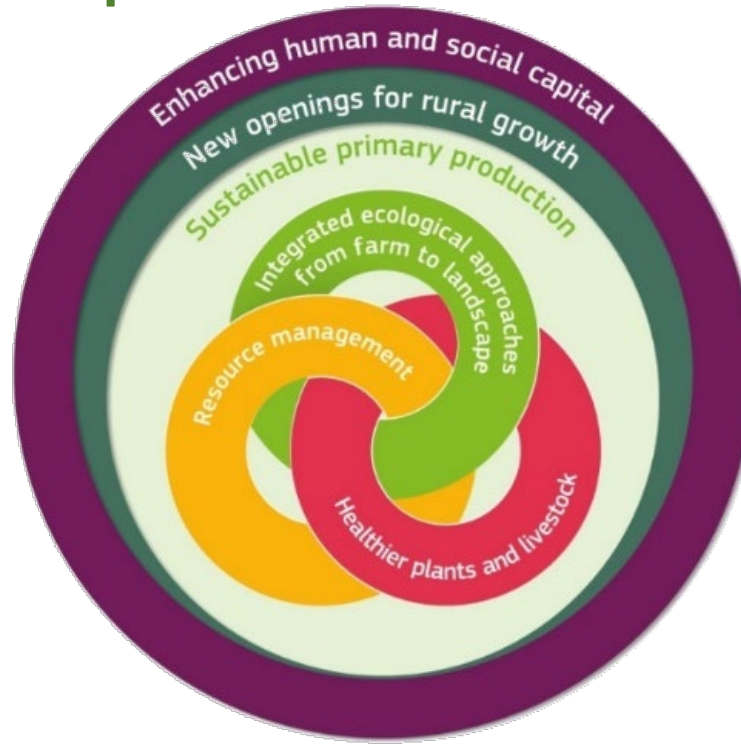
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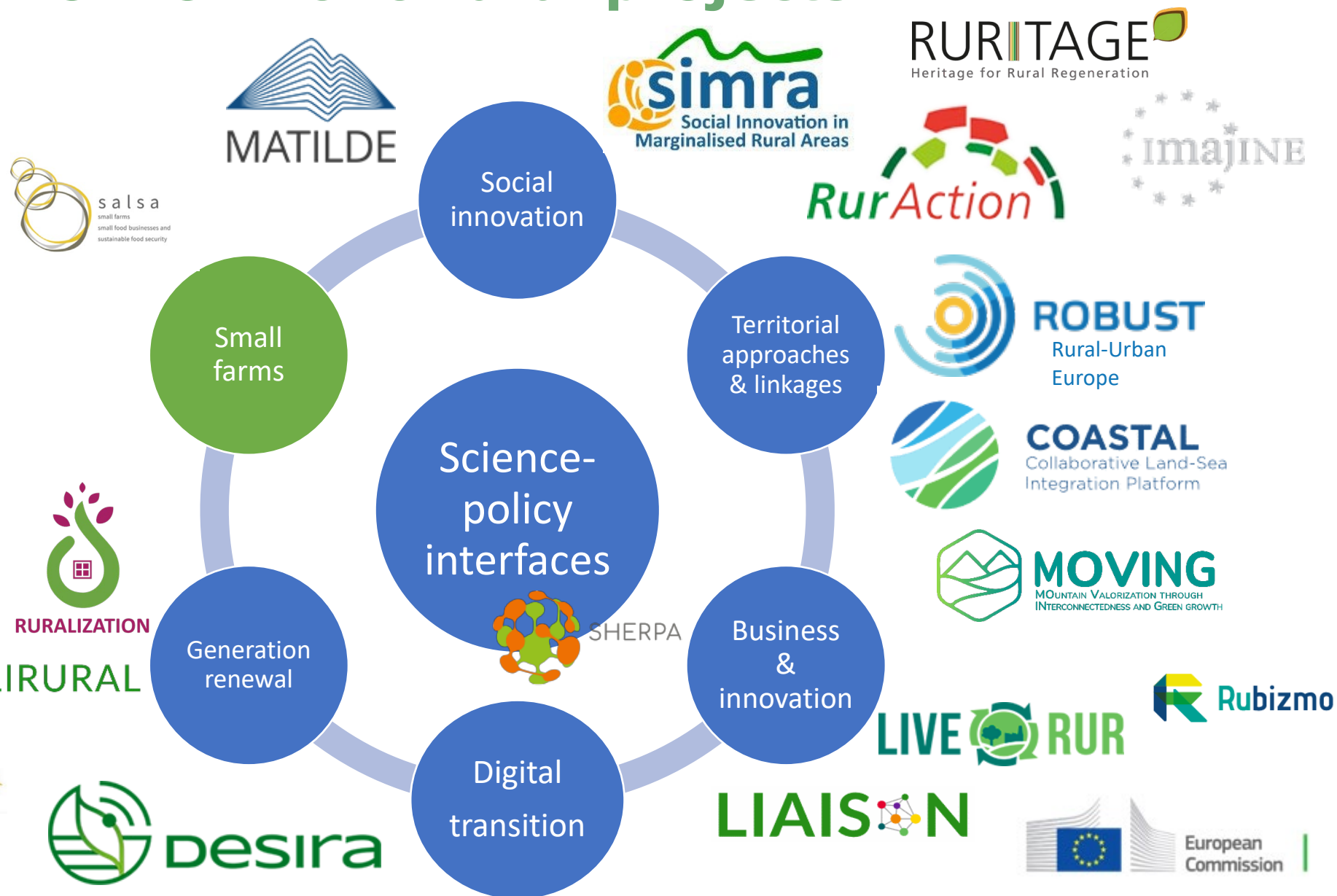
Strategic approach to agricultural R&I - 2018

Five strategic priorities



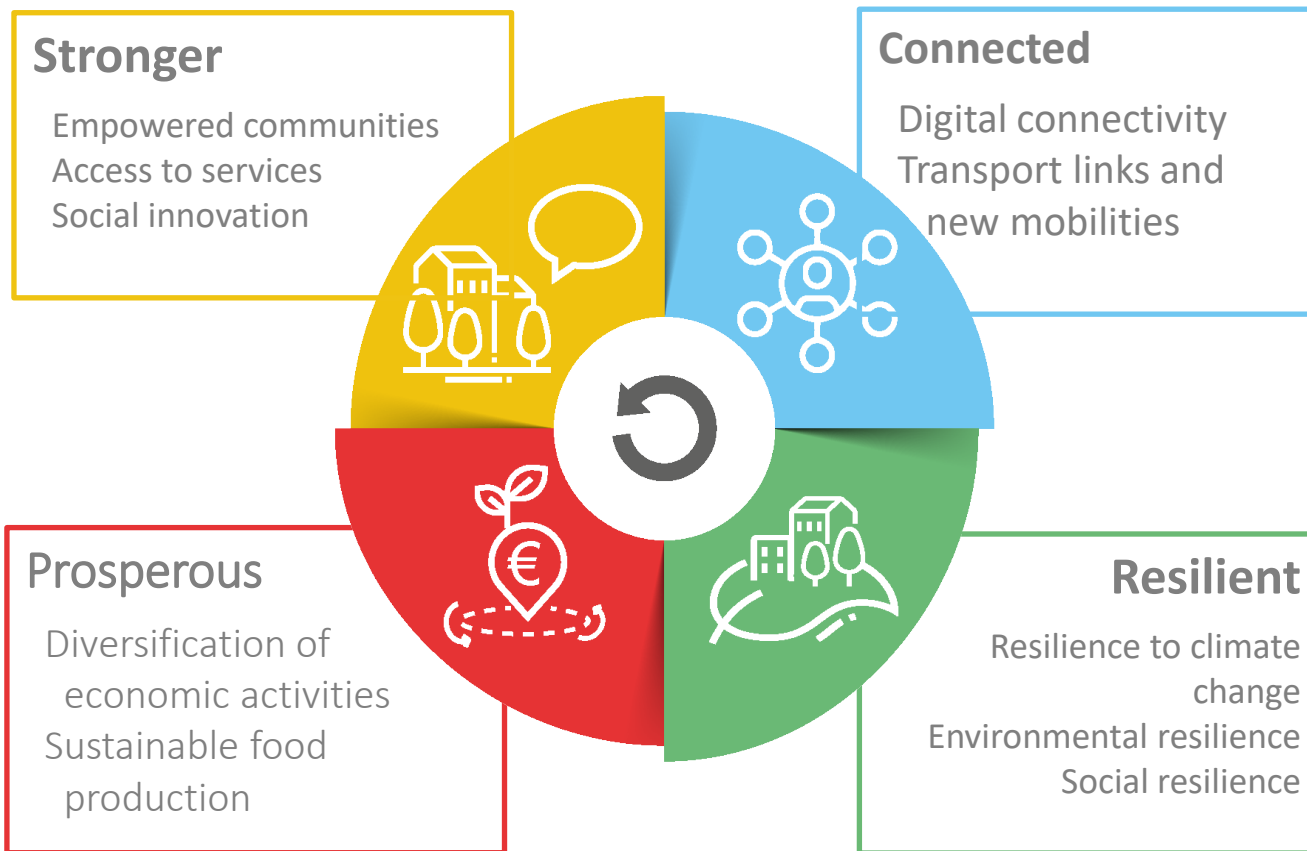
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Some Horizon 2020 rural projects



PRESENT

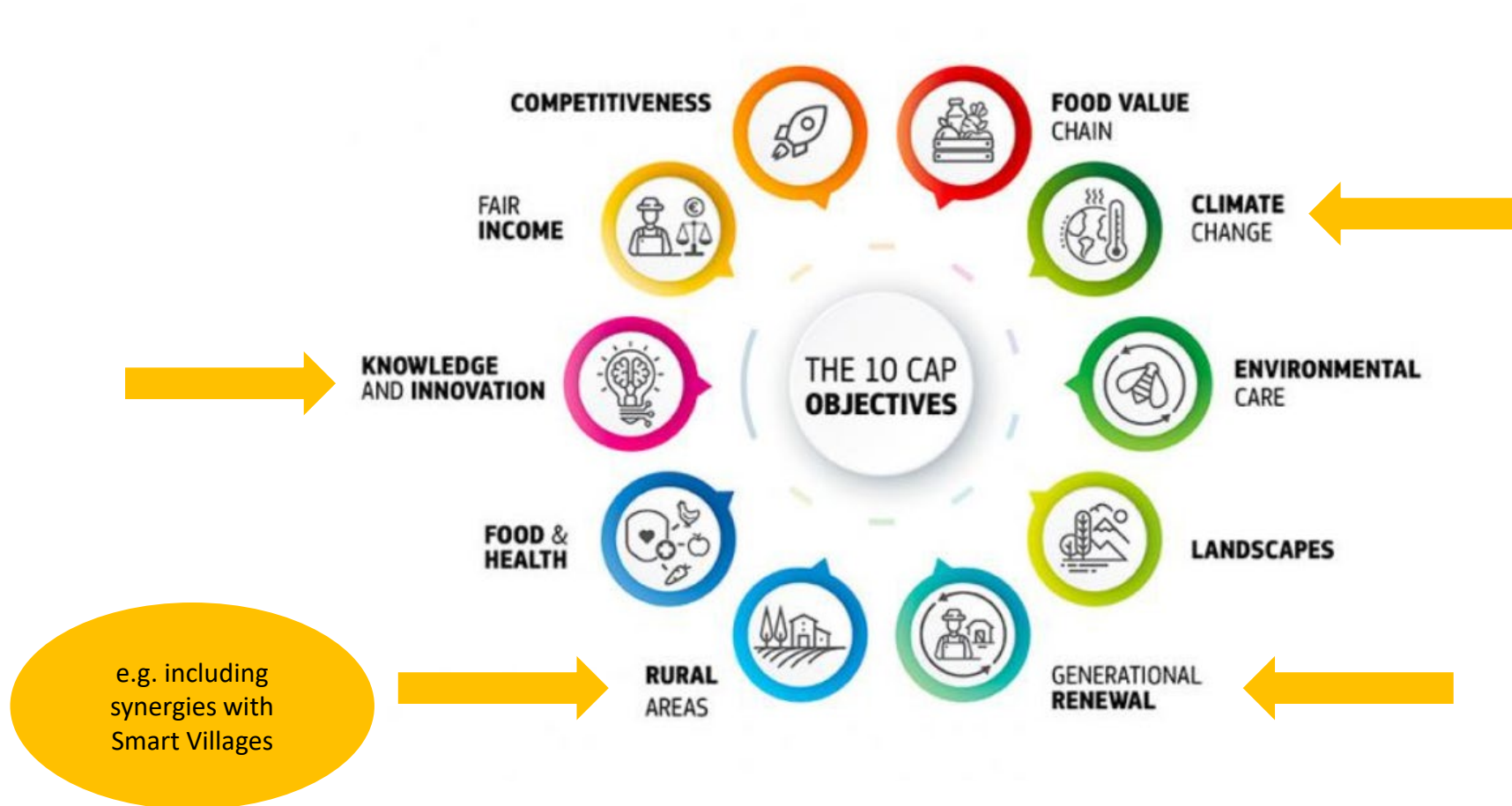
Policy framework R&I is contributing to the implementation of the Long-term Vision for EU's rural areas



Rural Action Plan flagships:

- ✓ Rural revitalisation platform
- ✓ **Research and innovation** for rural communities
- ✓ **Sustainable multimodal mobility** best practices for rural areas
- ✓ Rural **digital futures**
- ✓ Support rural municipalities in **energy** transition and fighting climate change
- ✓ Climate action in **peatland** through **carbon farming**
- ✓ EU mission: **A soil deal for Europe**
- ✓ **Social resilience** and **Women in rural areas**
- ✓ **Entrepreneurship** and **social economy** in rural areas.

Policy framework – R&I is contributing to advance the CAP objectives



Horizon Europe - from expected impacts to destinations



Strategic Plan 2021-2024

Work Programme 2021-2022 Work Programme 2023-2024

Impact 1 Climate neutrality and adaptation to climate change

• **Destination 5:** Land, oceans and water for climate action

Impact 2 Preservation and restoration of biodiversity and ecosystems

• **Destination 1:** Biodiversity and ecosystem services

Impact 3 Sustainable and circular management of natural resources; tackling pollution; bioeconomy

• **Destination 3:** Circular economy and bioeconomy sectors
• **Destination 4:** Clean environment and zero pollution

Impact 4 Food and nutrition security for all from sustainable food systems from farm to fork

• **Destination 2:** Fair, healthy and environmentally-friendly food systems from primary production to consumption

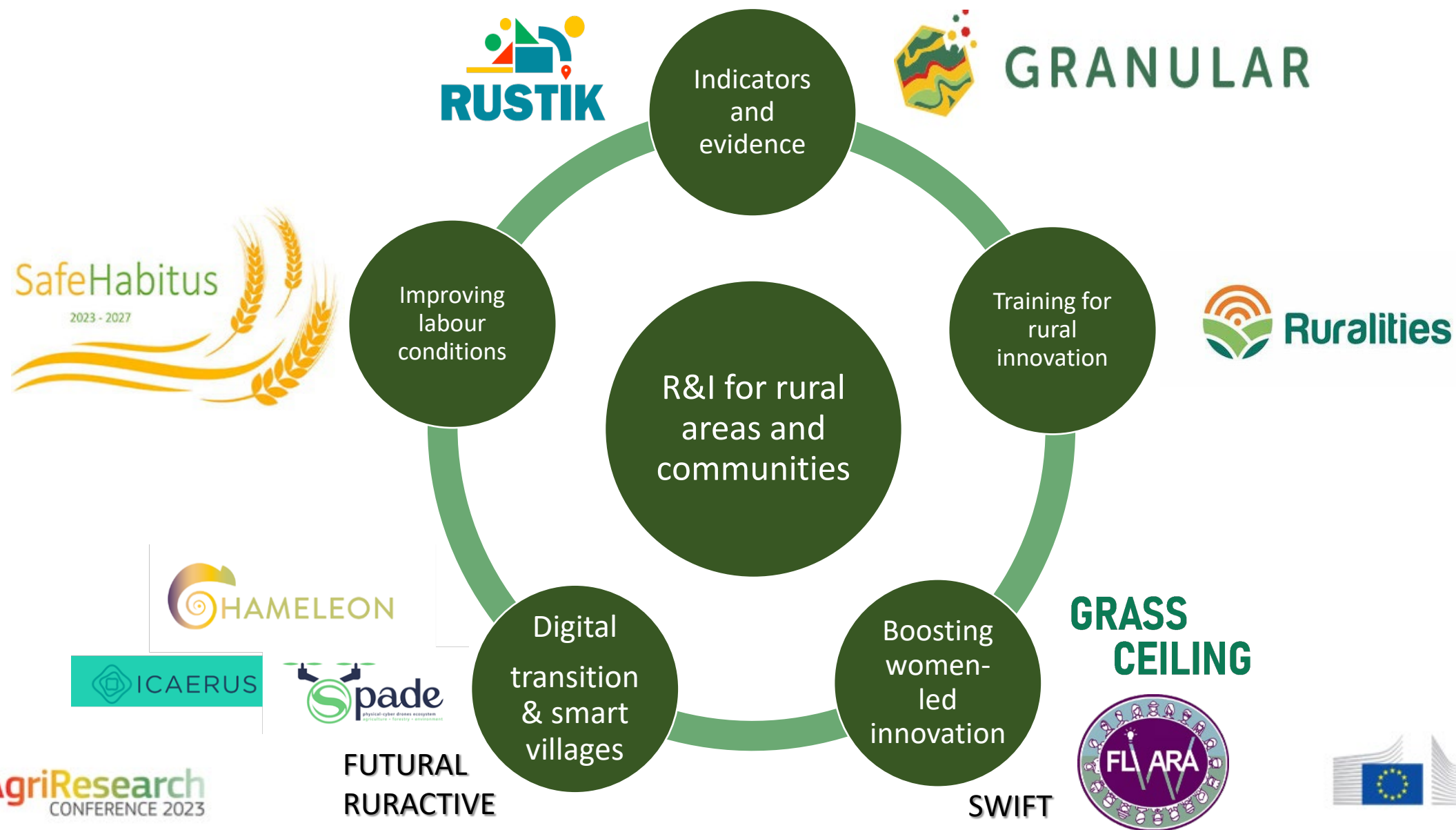
Impact 5 Balanced development of rural, coastal and urban areas

• **Destination 6: Resilient, inclusive, healthy and green rural, coastal and urban communities**

Impact 6 Innovative governance models enabling sustainability, environmental observation

• **Destination 7: Innovative governance, environmental observations and digital solutions in support of the Green Deal**

Horizon Europe rural projects under cluster 6



Work Programme 2023 - 2024 (52M € - 6 topics – 9 expected projects)

Communities

	R&I priorities 2023/2024	Type of Action	Budget	Projects
2023	✓ Enhancing social inclusion in rural areas: focus on people in a vulnerable situation and social economy	RIA	10	2
	✓ Improving rural future through better territorial governance and rural-urban synergies	RIA	11	1
	✓ International benchmarking of rural and territorial policies and delivery mechanisms	CSA	3	1
2024	✓ Innovating for climate-neutral rural communities by 2050 (two-stage)	IA	10	2
	✓ Societal perceptions and benefits of rural life and jobs : will COVID generate a long-lasting shift?	RIA	6	1
	✓ New business and production models for farmers and rural communities (two-stage)	RIA	12	2



Rural observatory





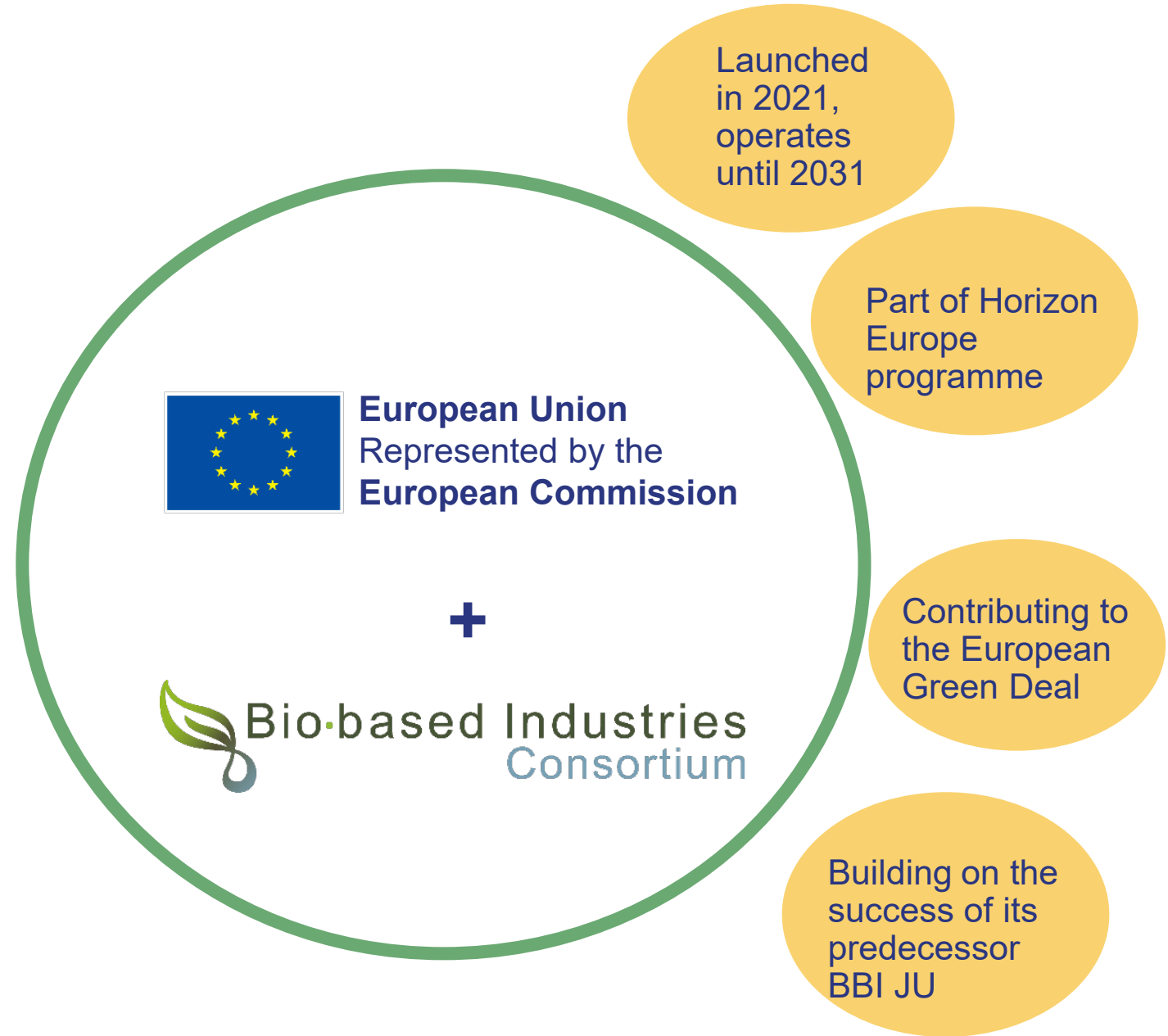
Deadlines	Call(s)
Just closed Deadline: 12 April 2023	HORIZON-CL6- 2023 -COMMUNITIES-01
Opening: 17 Oct 2023 Deadline: 22 Feb 2024	HORIZON-CL6- 2024 -COMMUNITIES-01
Opening: 17 Oct 2023 Deadline(s): 22 Feb 2024 (First Stage), 17 Sep 2024 (Second Stage)	HORIZON-CL6- 2024 -COMMUNITIES-02 (two stage)

Circular Bio-based Europe Joint Undertaking

€2 billion public-private initiative

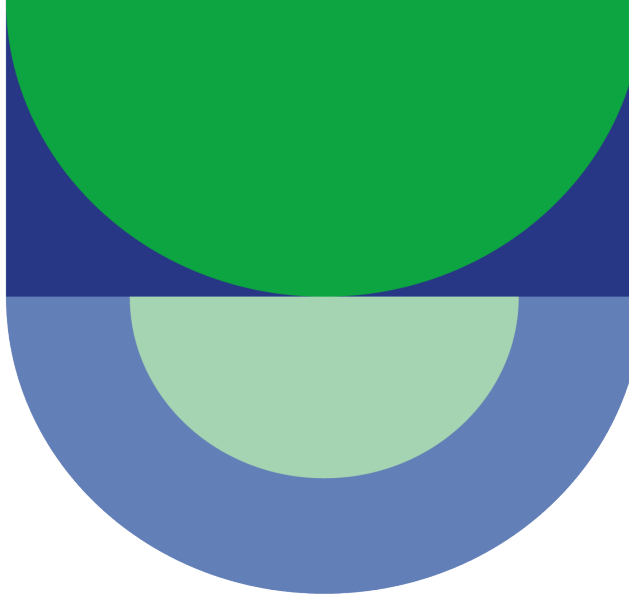


**Advancing a
competitive
bioeconomy for a
sustainable future**



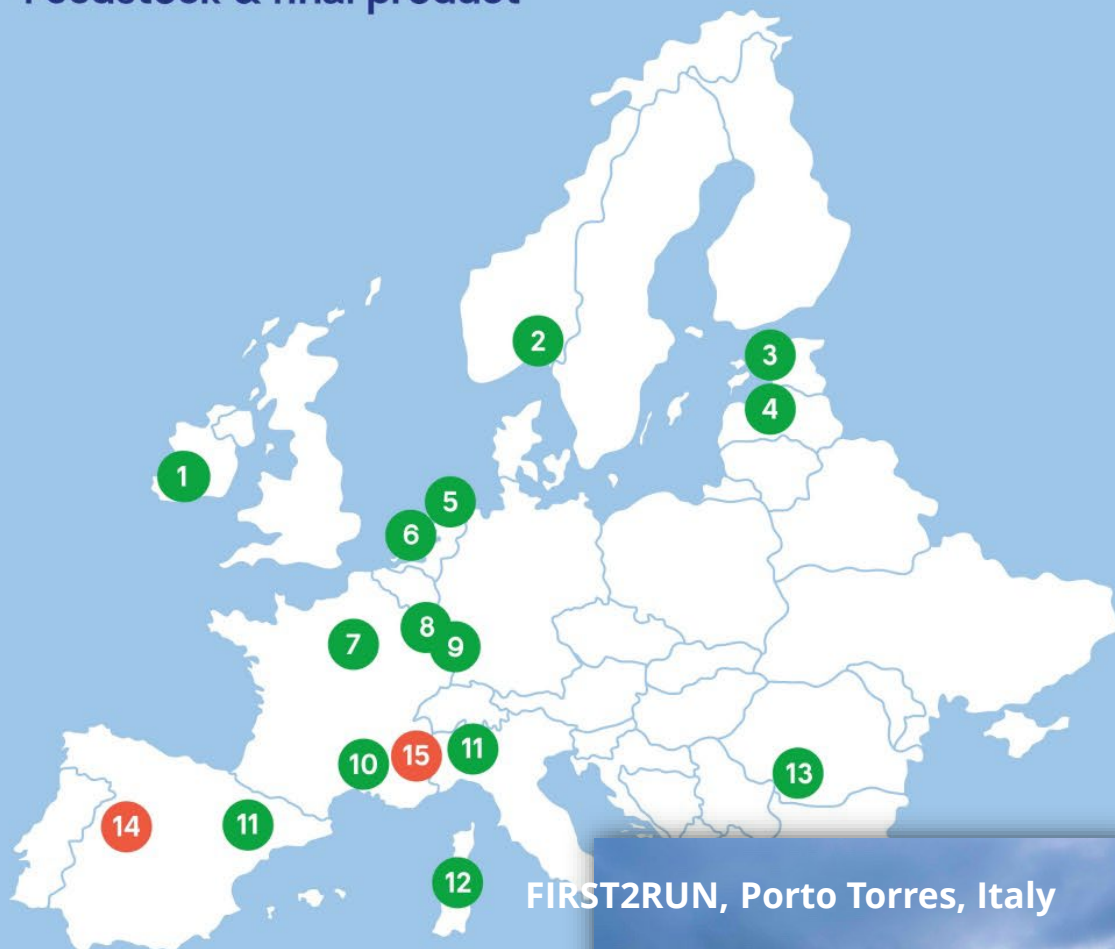


- ✓ **CBE is funding projects** (following an open call for proposals) to deliver bio-based solutions – materials and products - made from waste and biomass in an innovative, sustainable and circular way.
- ✓ **Among the CBE priorities:** secure a sustainable supply of biomass while at the same time creates new opportunities in rural areas delivering jobs, economic growth and development.
- ✓ **Several funded projects such us:** Flagship First2Run (biorefinery sourced by non-food oil crops grown in marginal lands); B-FERST (Fertilisers demo plant supporting sustainable agricultural practices)



CBE JU flagship projects

Feedstock & final product



FIRST2RUN, Porto Torres, Italy



- | | |
|---|--|
| <p>1 AgriChemWhey
Dairy sidestreams
↳ Lactid adic, minerals for food and fertilisers</p> | <p>2 EXILVA
Cellulose
↳ MFC - MicroFibrillated Cellulose</p> |
| <p>3 SWEETWOODS
Lignin & hardwood residues
↳ High-quality C5/C6 sugars & dried lignin</p> | <p>4 VIOBOND
Forest-based
↳ Bio-based resins</p> |
| <p>5 PLENITUDE
Residues of cereal crops
↳ Mycoproteins</p> | <p>6 PEFerence
Crop residues
↳ FDCA for bioplastics</p> |
| <p>7 FARMYNG
Mealworms & agri-food sidestreams
↳ Proteins for animal feed & organic fertiliser</p> | <p>8 AFTERBIOCHEM
Sidestreams from sugar beet
↳ Flavourings, fragrances, hygiene products, pharmaceuticals, antimicrobials & polymers</p> |
| <p>9 ReSolute
Sidestreams from pulp & paper industry
↳ Biodegradable, harmless & bio-based solvent: Cyrene</p> | <p>10 SCALE
Microalgae
↳ Nutritional ingredients for food, feed and cosmetics</p> |
| <p>11 CIRCULAR BIOCARBON
Municipal solid waste
↳ High-value products from fertilisers to 5G technology</p> | <p>12 FIRST2RUN
Underutilised oil crops
↳ Building blocks for polyester production & vegetable oils</p> |
| <p>13 LIGNOFLAG
Crop residues
↳ 2G bioethanol biofuel - building block</p> | <p>14 SUSTAINEXT
Crops & agro-industrial side-streams
↳ Ingredients for food, feed, cosmetics & fertilisers</p> |
| <p>15 SYLPLANT
Agri-based & wood based
↳ Alternative protein sources for food & feed ingredients</p> | |



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Panel discussion



Spyros Fountas



*Marta Guadalupe
Rivera Ferre*



Petri Kahila



*Wallis Vandebrock
Goelen*

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Co-creative discussion



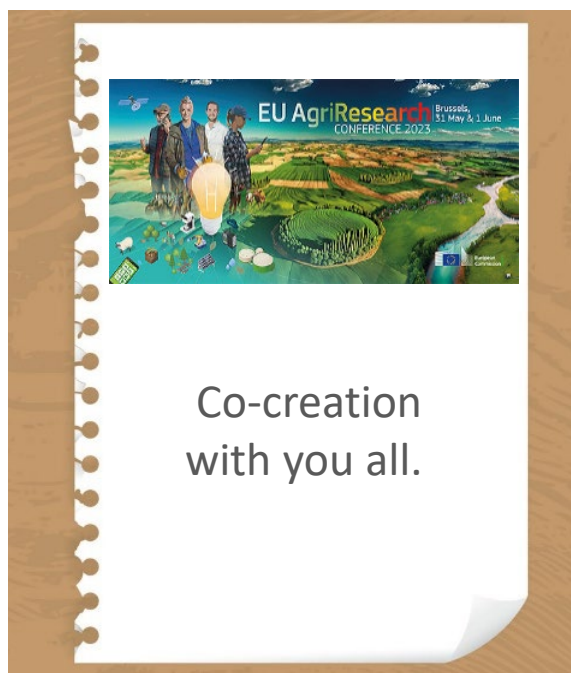
Participants, have your say!

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Your ideas are essential for Horizon Europe and beyond

HE Cluster 6 Food, Bioeconomy, Natural Resources, Agriculture and Environment and the Mission 'A Soil Deal for Europe'



Strategic Plan 25-27

Work Programme(s)
2025 to 2027

Next EU R&I Programme and CAP
after 2027

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Let's co-create replies to two questions



1: **What** are the research and innovation **needs** to address the challenges of rural areas and communities?

2: **How** should those **needs** be **delivered** through research and innovation?

Meaning of 'what'

- **What** are the research and innovation **needs or gaps** to address the challenges of rural areas and communities?
- What are the questions that research and innovation should address to support rural areas and communities?

Please, when replying write your name, email address and profession behind the post-it

Meaning of 'how'

How should those needs be delivered through research and innovation?

Consider in your reply the following elements, *for example*:

- Basic research, innovation?
- Standardisation, communication and networking, align research agendas?
- If technological developments expected, what level of maturity? Experimental proof of concept, validation/testing in the lab or related real environment, prototyping...
- Involve other actors beyond researchers/innovators? Which ones?
- International collaboration is key and if so with which regions?
- Other major initiatives to be aware of for consideration and/or collaboration?
- New ideas?

Co-creation

Question 1: What are the research needs in this area?



1 idea per 1 sticky note
CAPITAL LETTERS

Individually provide at
least with 2 needs



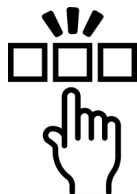
Present 1 key idea
& discuss together with the group



Each person 3 dots

Vote with a dot on
the priority idea

Question 2: How should those needs be delivered through research and innovation?



Choose 1 need from the
previous question



Individually develop at
least 1 idea



Group discussion with the ideas with most
votes

Debrief R&I priorities from the co-creation

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