



European research and innovation on organic agriculture and agroecology



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Development



Organic Innovation Days
Eisenstadt, 7 November 2018



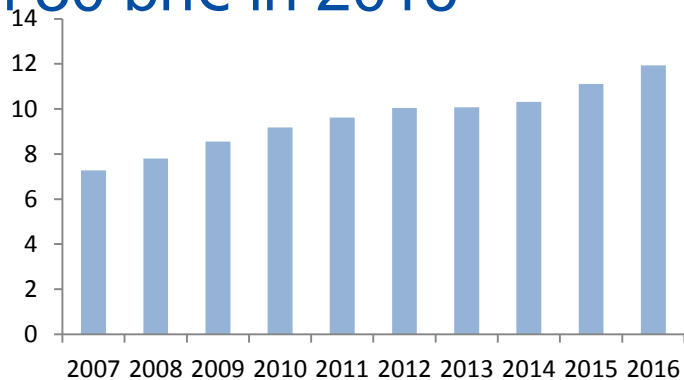
"Organic agriculture combines tradition, innovation and science to benefit the shared environment and promote fair relationships and a good quality of life for all involved"

(IFOAM, 2008)



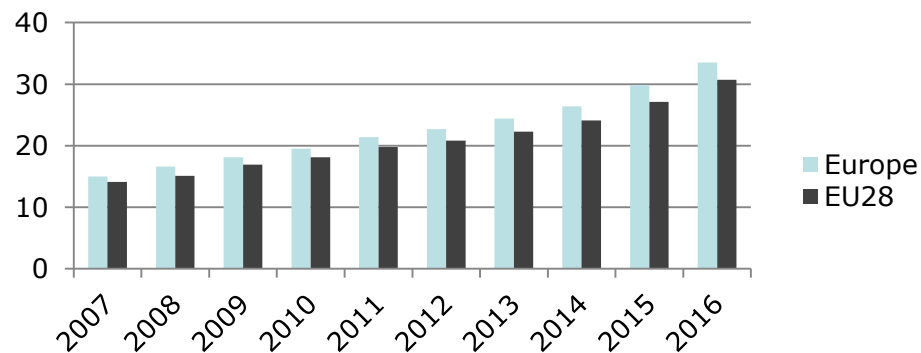
The organic sector – a (European) success story

- Steadily growing sector: area doubled in relation to 2002 and increased by 63% in decade 2007 – 2016
- Currently about 185.000 farms across Europe, trend increasing while consolidation of conventional agricultural holdings in EU-28
- Value of organically grown products doubled in the last decade: more than 30 bn€ in 2016



Organic surface in million ha

European Union
11.9
Million ha (2016)



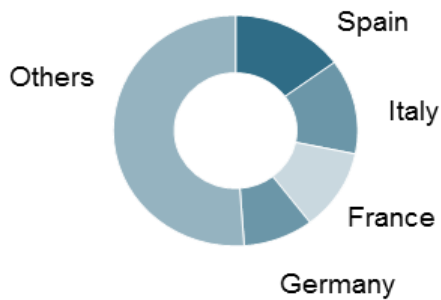
Organic retail evolution



Organic farmland in Europe (2016)



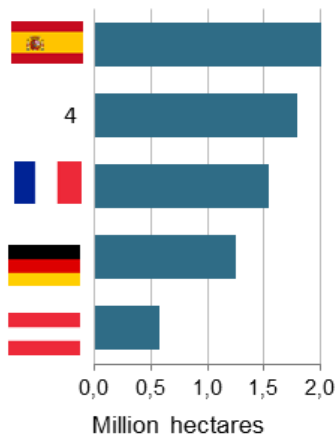
More than half (54%) of EU organic farmland is in 4 countries.



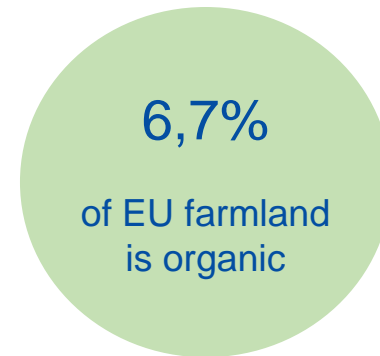
Distribution of organic agricultural land by country



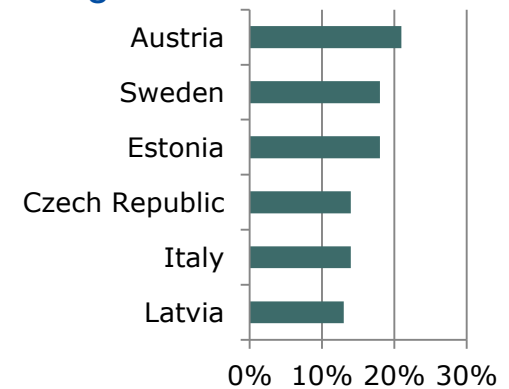
Largest area of organic farmland in Spain, Italy and France.



Top 5 countries with the largest areas of organic agricultural land



Nine countries have 10% or more of their agricultural land under organic management



Top 5 countries , where more than 10 percent of the farmland is organic

The World of Organic Agriculture 2016

Organic Farmland 2016

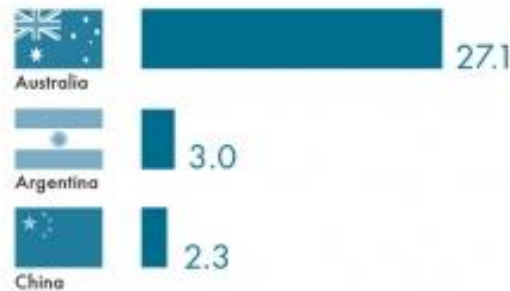


57.8 m ha Organic farmland in million hectares

178 Countries with organic farming

+15% From 2015

Top 3 countries (land in million of hectares)



Organic Producers 2016

The number of organic producers is increasing

2.7 million Organic farmers

+12.8% From 2015

Number of producers: Top 3 countries



Organic Market 2016

The global market is growing and consumer demand is increasing

More than 80 bn € Global organic food market in billion euros

Top 3 countries (market in billion euros)



21.8% Organic market growth

9.7% Market share

274 € Highest per capita spending is in Switzerland



Challenges for the organic sector in Europe

- Despite continuous growth significant potential to move beyond current share of 6% EU farmland and 2% of the food and drink industry
- Increases in area devoted to organic farming slowing down and in some Member States the area is even declining
- Organic production is lagging behind growth of organic market
- Consumer demand to be met by imports - need for equivalence in standards
- Organic production and consumption unevenly distributed across the EU
- What about research capacity?



The European context for organic farming, research and innovation

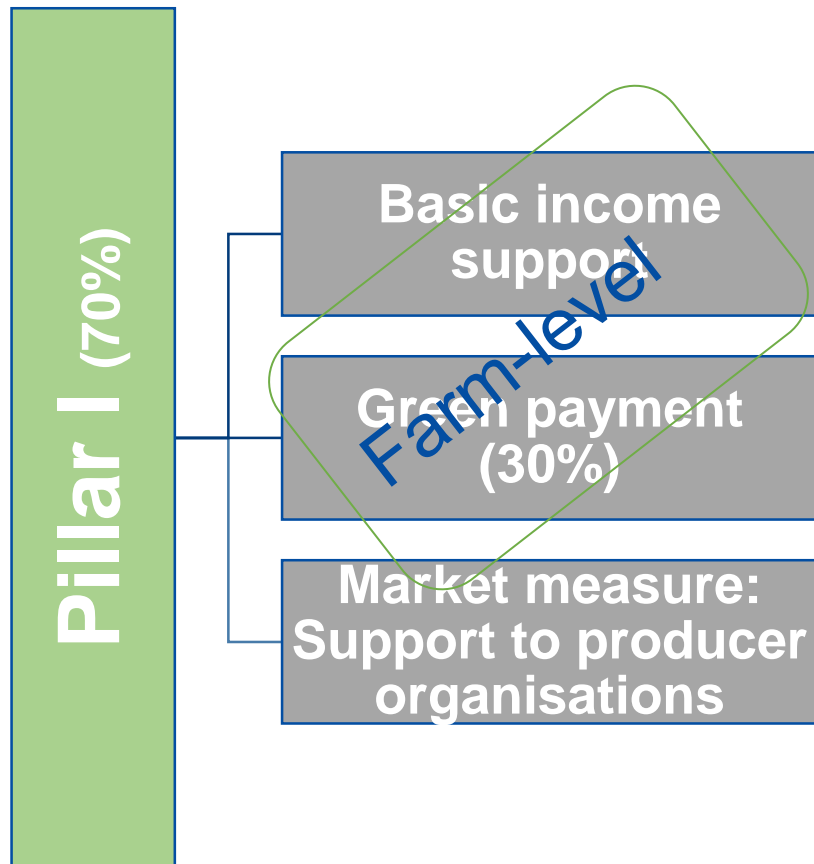
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- ❑ EU Organic Regulation
 - ❑ Common Agricultural Policy (CAP) and Common Fisheries Policy for organic aquatic production)
 - ❑ European Research Framework Programme (Horizon 2020)
 - ❑ European Innovation Partnership EIP AGRI



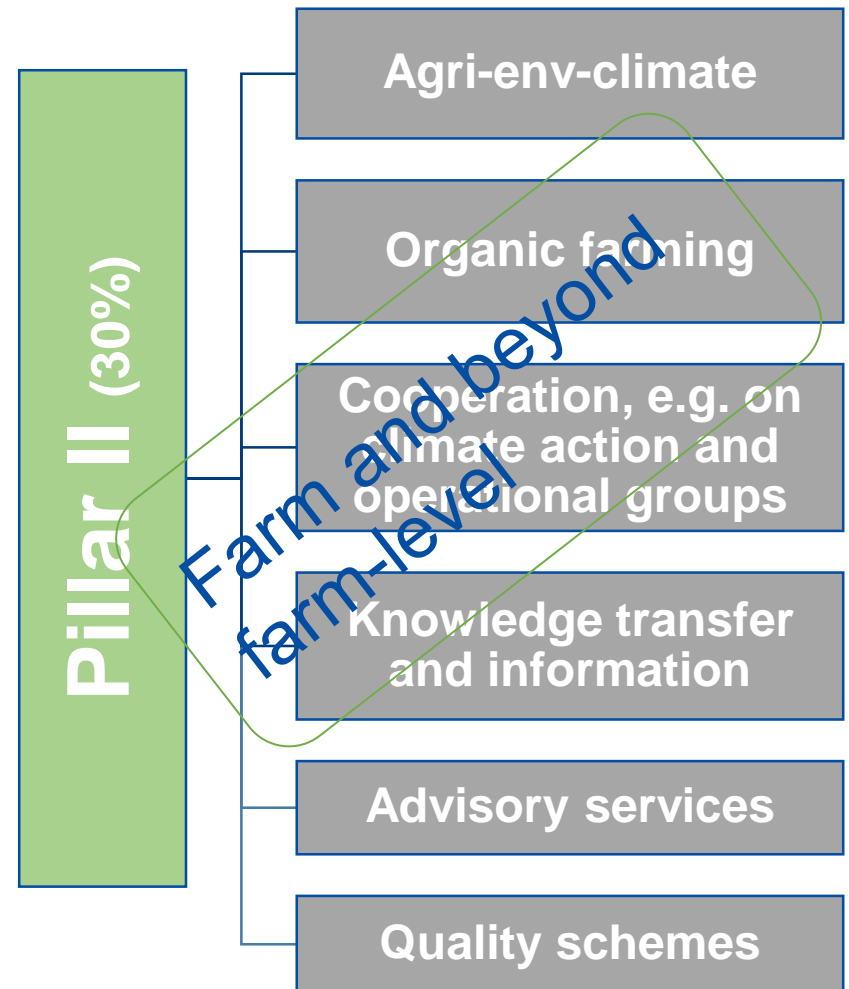


The Common Agricultural Policy(CAP)*

Direct Payments (EAGGF)



Rural Development Programmes (ERDF)



* Focus on elements relevant to organic farming

Significant level of subsidiarity!

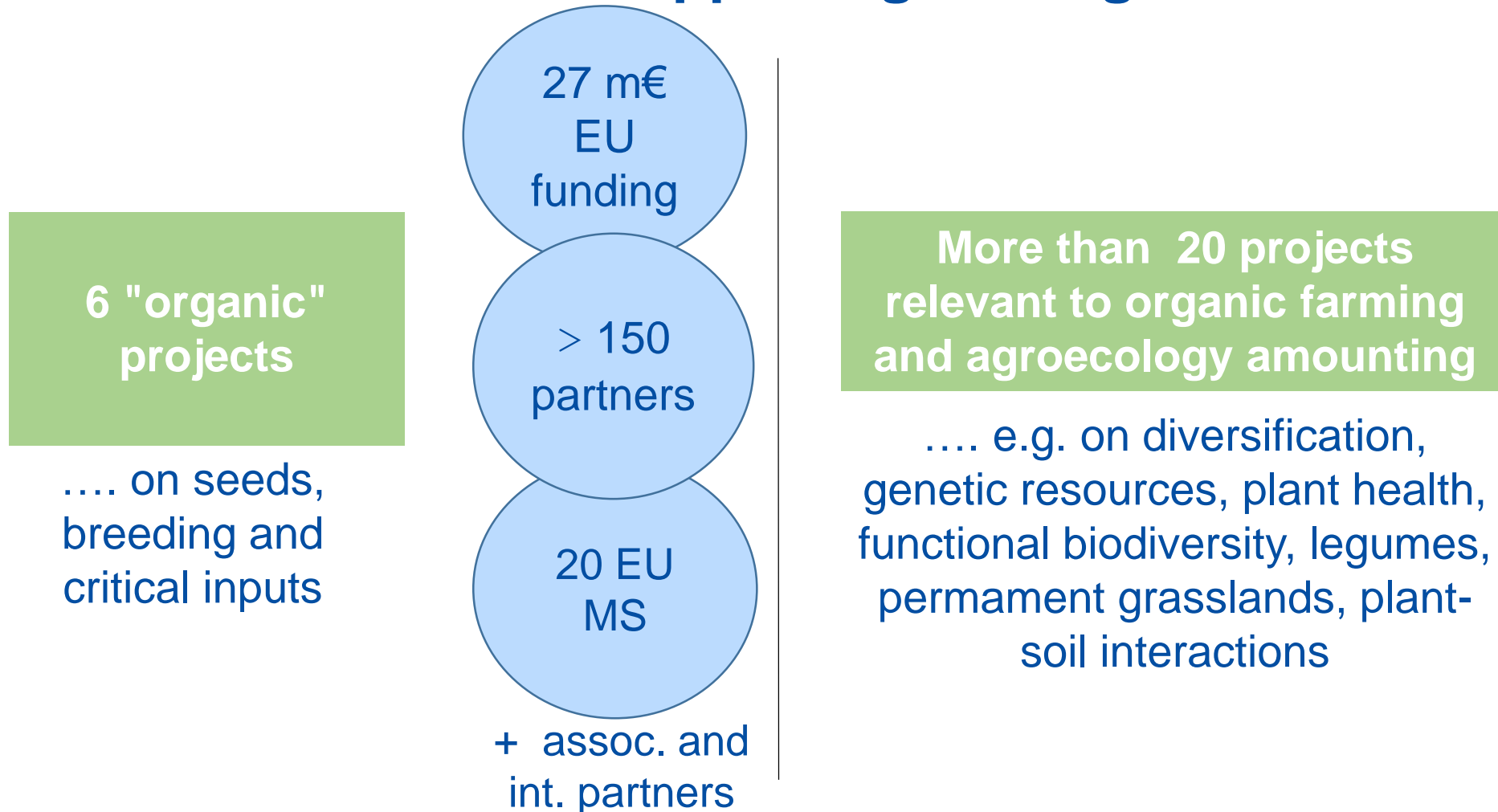


The EU Research Programme Horizon 2020

- Agricultural research mainly funded under Societal Challenge 2 (Agriculture, forestry, food, aquatic production, bioeconomy)
- No specific heading on organic food and farming
- Research on organic agriculture addressed in specific topics
- Research topics for the organic sector arise from a) needs following new organic regulation, b) ETP Organics research agenda, c) AGRI research strategy
- General approach to request research which addresses both conventional and organic farming ("mainstreaming" of needs of the organic sector)
- Organic research also benefiting from major support to research on agro-ecological approaches and crop diversification



Research under SC2 supporting the organic sector



A dynamic web of activities and approaches!



Crop diversity projects joining forces

DiverIMPACTS, DIVERFARMING, DIVERSify, ReMIX, TRUE, LEG-VALUE, IWM PRAISE forming a cluster to work closely together and deliver

- **Crop diversification solutions**, e.g. new varieties, crop protection solutions, machinery
- A **network of field experiments** across biogeographical regions to demonstrate benefits of crop diversification
- **New products or products with enhanced value** for the food/feed or industrial sectors (e.g. hemp for isolation boards in the building sector, pulses for the food sector)
- **New business models along value chains**
- Knowledge-intensive **services to farmers** to help manage and monitor their transition to more diversified cropping systems.
- **Multi-criteria assessment tools** to monitor performance of diversified cropping systems
- **Learning-for-innovation** platform, networking, case studies, experiences across Europe
- **Policy recommendations** for crop diversification



Examples of upcoming calls in 2019 and 2020

SF1-01-2019: Capitalising on native biodiversity in farmland landscape

SFS-01-2020: From agrobiodiversity to dynamic value chains

SFS-04-2019: Integration of plant protection in a global health approach

SFS-04-2020: Biocidal and plant protection products

LC-SFS-19-2019: Efficiency and resilience of mixed farming and agroforestry systems

CE-SFS-24-2019: Innovative and citizen-driven food system approaches in cities

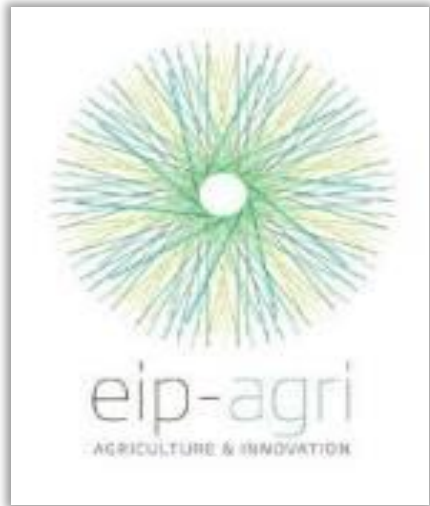
SFS-35-2019: African Farming Systems, sustainable intensification

RUR-15-2019-2020: Thematic networks





EIP AGRI: Bridging research and practice



European level



- Multi-actor projects (MAA)
- Thematic networks

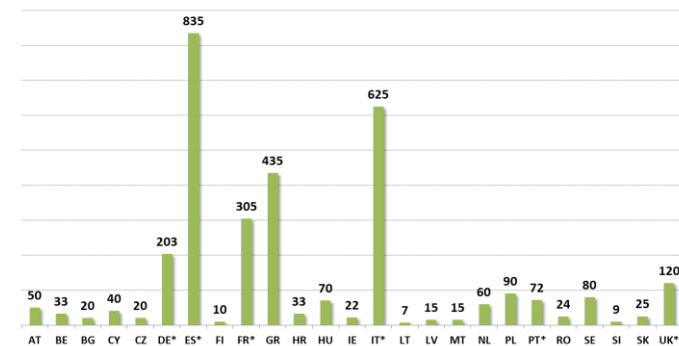
By 2020: 1bn allocated to 180 MAA projects
50% newcomers

Regional level

Common Agricultural Policy

- Operational groups (OGs) in Rural Development Programmes

- Participatory innovation
- Networks
- Focus Groups
- Knowledge repository

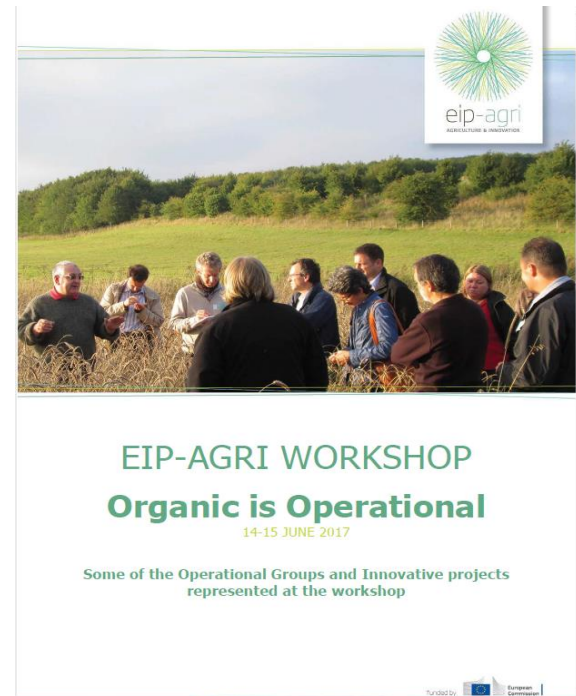
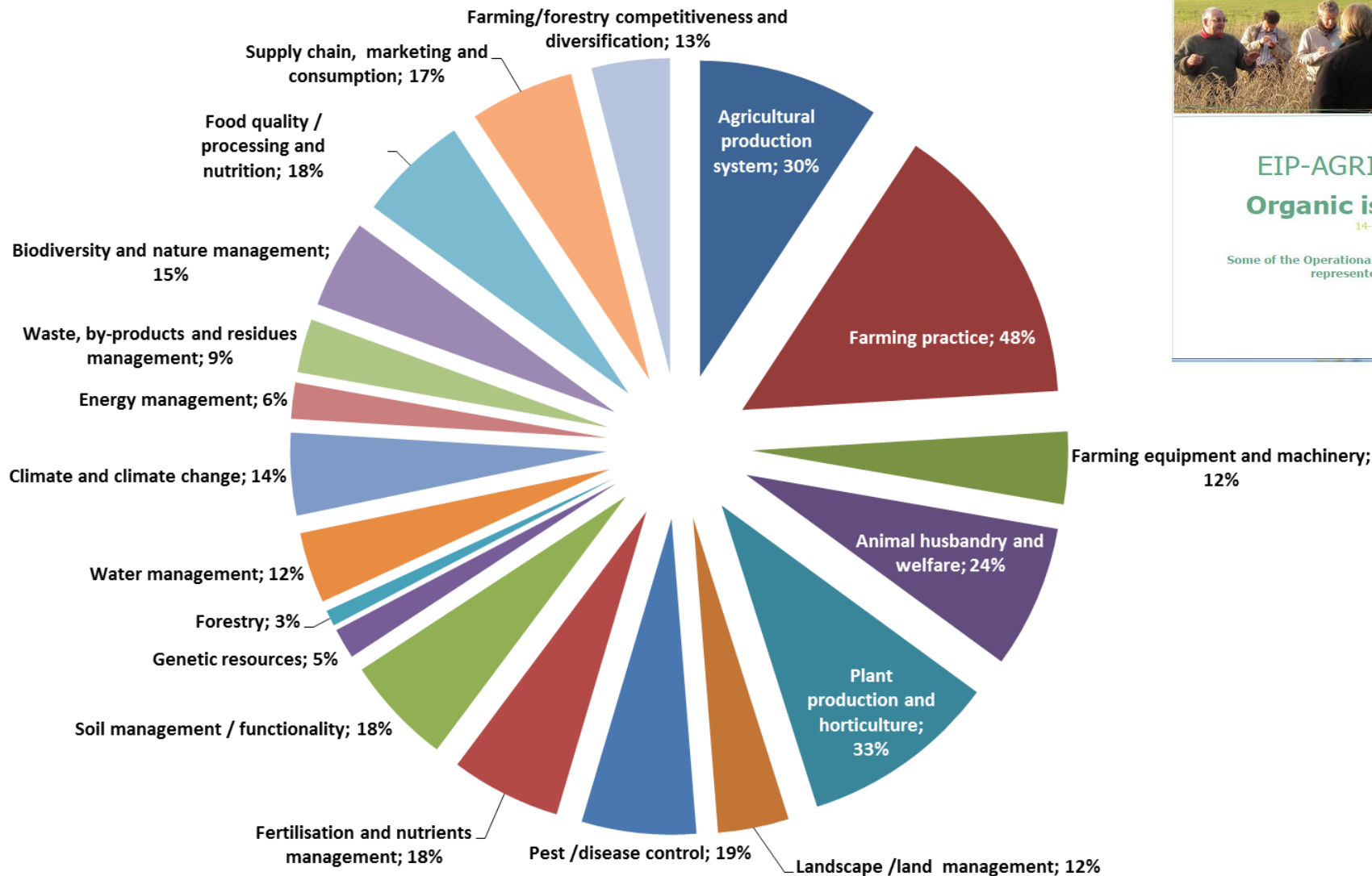


600 OGs running;
about 3.000 by 2020

Sectors covered by OGs

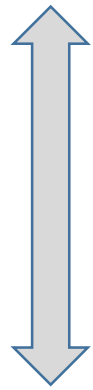
	Resource Management	Food safety / product quality	Pollution	Socio-economic sustainability/ competitiveness	Biodiversity / nature / landscape management	Animal health and welfare	Pest and disease treatment	Climate change	Other: Please describe	Grand Total
Organic farming & agro-ecology	48	25	11	27	16	12	6	3	3	151
Mixed & conventional farming (incl. other)	47	47	10	38	9	34	11	2	14	212
Conservation agriculture	26	9	9	3	10	2	6	4	1	70
Circular agriculture	24	1	3	6	1	1	2			38
Bio-based production	13	8	2	2	1	2	1	1		30
Integrated pest management/ reduced inputs	12	12	6	4	1	3	31	3		72
Agro-forestry	1			5	1		1	5	1	14
Forestry	2	3		1	1		1	2		10
Grand Total	173	105	41	86	40	54	59	20	19	597

Scope of OG projects





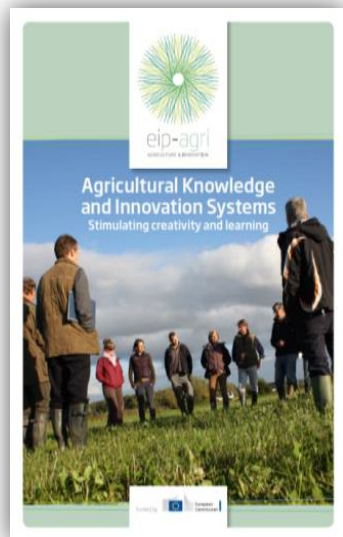
A supportive context for EU organic R&I



- EU Organic Regulation
- Common Agricultural Policy (CAP)
- European Research Framework Programme (Horizon 2020)
- European Innovation Partnership EIP AGRI

- Policies/tools provide a solid framework that can be further developed
- But: current opportunities can be better exploited
- How to develop more evenly EU capacities for research and innovation?
- How to pool resources and share knowledge more efficiently?
- Research processes (HOW) as important as Research questions (WHAT): involvement of end-users in R&I activities is a critical factor
- Agricultural Innovation and Knowledge systems (AKIS) are key!

To know more



- [Organic farming in EU](https://ec.europa.eu/agriculture/organic/organic-farming_en)

https://ec.europa.eu/agriculture/organic/organic-farming_en

- [Horizon Europe Work Programme 2018-2020](http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-food_en.pdf)

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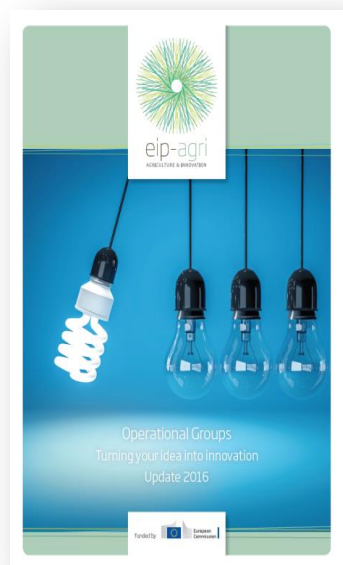
Deadline: 23 Feb 2019

- [Agricultural research and EIP AGRI](https://ec.europa.eu/agriculture/research-innovation_en)

https://ec.europa.eu/agriculture/research-innovation_en

<https://ec.europa.eu/programmes/horizon2020/en/news/final-paper-strategic-approach-eu-agricultural-research-and-innovation>

<https://ec.europa.eu/eip/agriculture/>



- [SCAR: Agricultural knowledge and innovation systems](https://publications.europa.eu/en/publication-detail/-/publication/4d9a1811-c3fb-11e5-8d08-01aa75ed71a1/language-en)

<https://publications.europa.eu/en/publication-detail/-/publication/4d9a1811-c3fb-11e5-8d08-01aa75ed71a1/language-en>