



Synergies between EU funds for agricultural innovation

Now and beyond 2020

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#FutureofCAP



Overview

- *Recalling the synergies today*
 - *Framework*
 - *In practice*
- *And tomorrow?*
 - *Horizon Europe*
 - *Future CAP & link with ESIF*



Agricultural and rural research and innovation under Horizon 2020 & CAP today

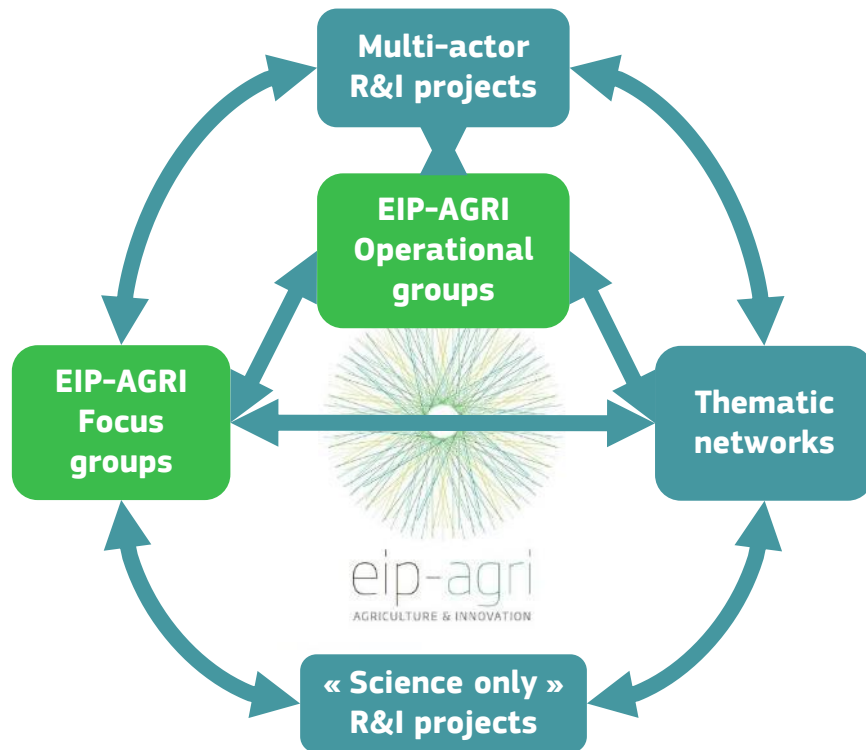


#AgriResearchEU



Agriculture and
Rural Development

Today: CAP and Horizon working in synergy



CAP

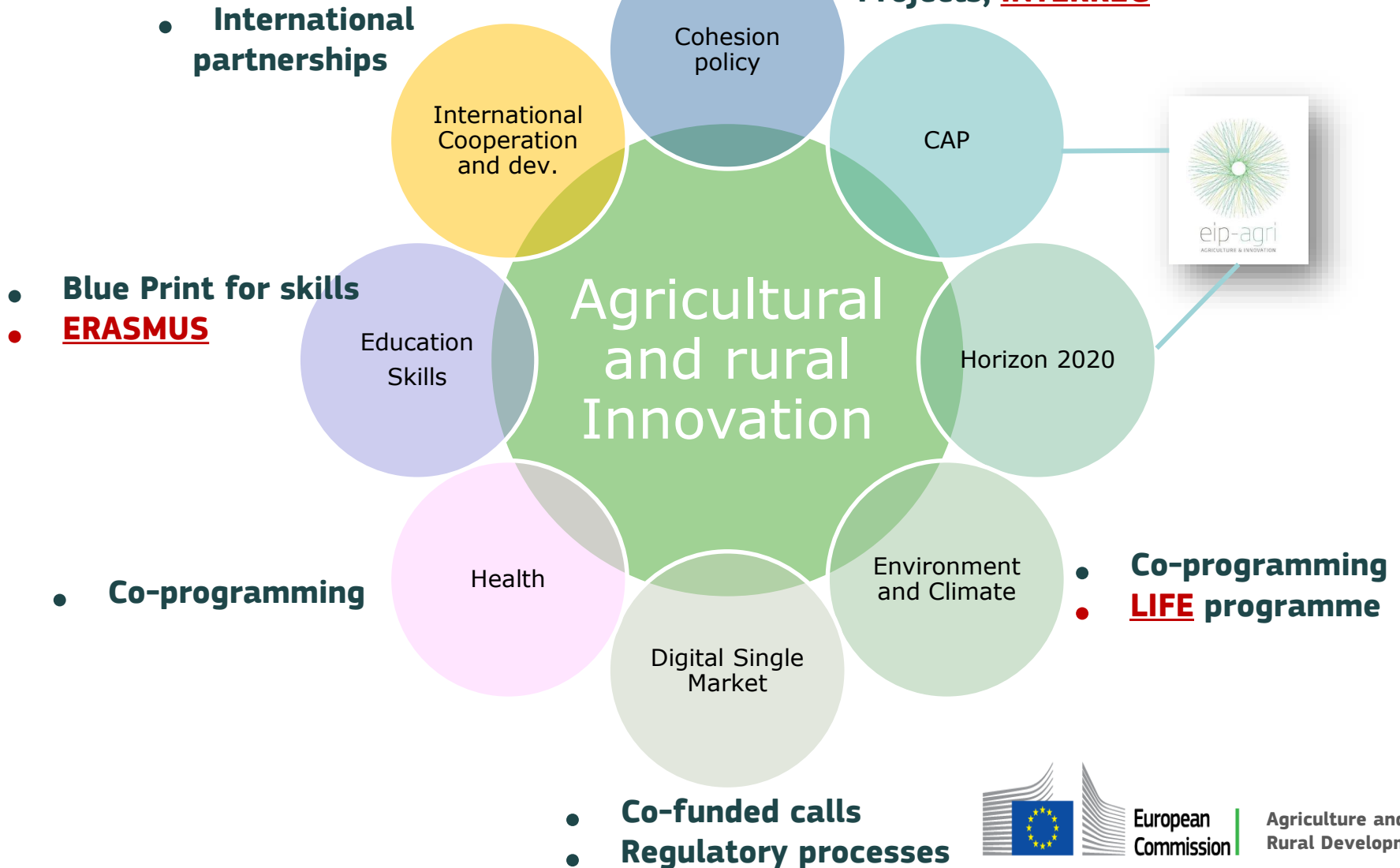
Horizon 2020

- ✓ Horizon 2020 Multi-actor projects
 - Engage with EIP-AGRI operational groups
 - Can help create them... or the other way round?
- ✓ EIP-AGRI Operational groups
 - Solve specific problems on the ground
 - Inspire wider European activities
- ✓ EIP-AGRI Focus groups
 - Enrich programming
 - Build multi-actor communities for Horizon 2020
 - Inspire projects (OGs or Horizon 2020)
- ✓ Horizon 2020 Thematic networks
 - Translate knowledge into practice
 - Boost impact of all activities
- ✓ EIP-AGRI networking activities
 - Enhance knowledge exchange

Beyond the CAP and Horizon...



RIS3, Capacity building,
Projects, **INTERREG**



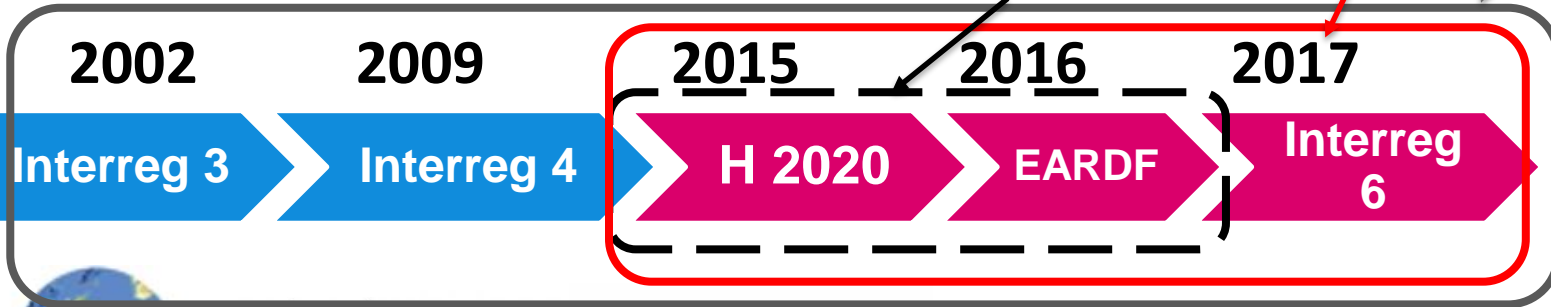
Synergies timeline

SUCCESSIVE PROJECTS

PARALLEL PROJECTS

Connected PROJECTS

CASE 1 : Dairy Cattle



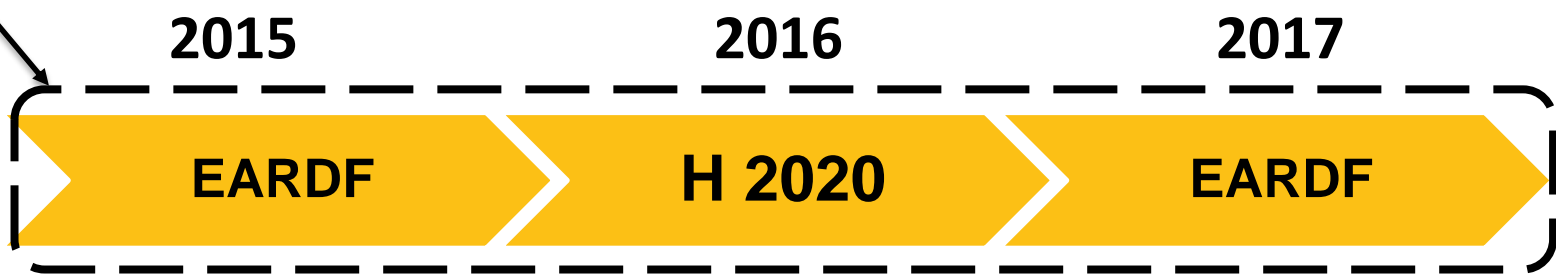
EuroDairy Operational Groups

“Dairy 4 Future”



Connected PROJECTS

CASE 2 : Sheep



“Live Lambs” Operational Group



Opportunities...

- ✓ Using several programmes to advance work
 - Subsequently
 - Or simulatenously
- ✓ Each programme its focus and specific advantage
 - Building capacities, strengthening regional development (ERDF)
 - Sharing best practices at policy level, regional dev. (INTERREG)
 - Local eco-innovation: LIFE
 - Local agri-innovation: CAP,
 - Creating and sharing excellent knowledge: Horizon
 - Improving skills: ERASMUS, ESF

...and challenges

- ✓ ≠ management modes
 - EU
 - Shared
- ✓ ≠ objectives, rules, timing
- ✓ ≠ project sizes and geo. scale (reg/nat/eur)
- ✓ Challenges around inter-regional cooperation in shared management policies
- ✓ Access to information
- ✓ And... *changing conditions!*



Agricultural and rural research and innovation under post-2020 policies



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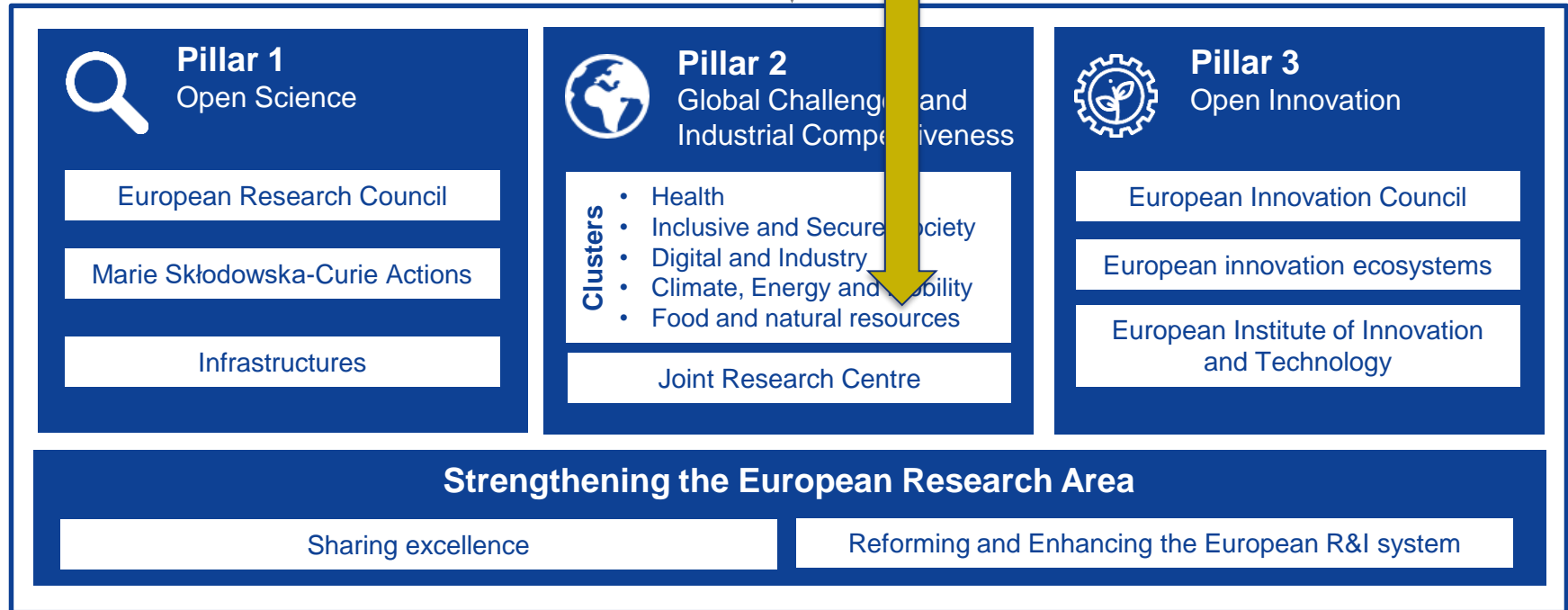
European
Commission

Agriculture and
Rural Development

Horizon Europe

We are here

Specific objectives of the Programme

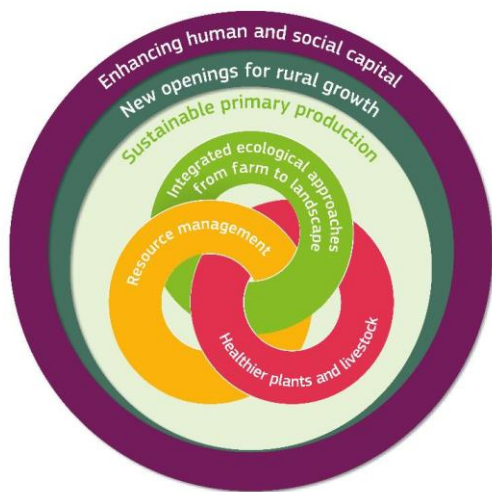


Clusters in 'Global Challenges and Industrial Competitiveness'

Clusters	Areas of intervention	
Health	<ul style="list-style-type: none"> * Health throughout the life course * Non-communicable and rare diseases * Tools, technologies and digital solutions for health and care 	<ul style="list-style-type: none"> * Environmental and social health determinants * Infectious diseases * Health care systems
Inclusive and Secure Societies	<ul style="list-style-type: none"> * Democracy * Social and economic transformations * Protection and Security 	<ul style="list-style-type: none"> * Cultural heritage * Disaster-resilient societies * Cybersecurity
Digital and Industry	<ul style="list-style-type: none"> * Manufacturing technologies * Advanced materials * Next generation internet * Circular industries * Space 	<ul style="list-style-type: none"> * Key digital technologies * Artificial intelligence and robotics * Advanced computing and Big Data * Low carbon and clean industry
Climate, Energy and Mobility	<ul style="list-style-type: none"> * Climate science and solutions * Energy systems and grids * Communities and cities * Industrial competitiveness in transport * Smart mobility 	<ul style="list-style-type: none"> * Energy supply * Buildings and industrial facilities in energy transition * Clean transport and mobility * Energy storage
Food and Natural Resources	<ul style="list-style-type: none"> * Environmental observation * Agriculture, forestry and rural areas * Food systems * Circular systems 	<ul style="list-style-type: none"> * Biodiversity and natural capital * Sea and oceans * Bio-based innovation systems

Crucial for synergies: long-term strategic planning!

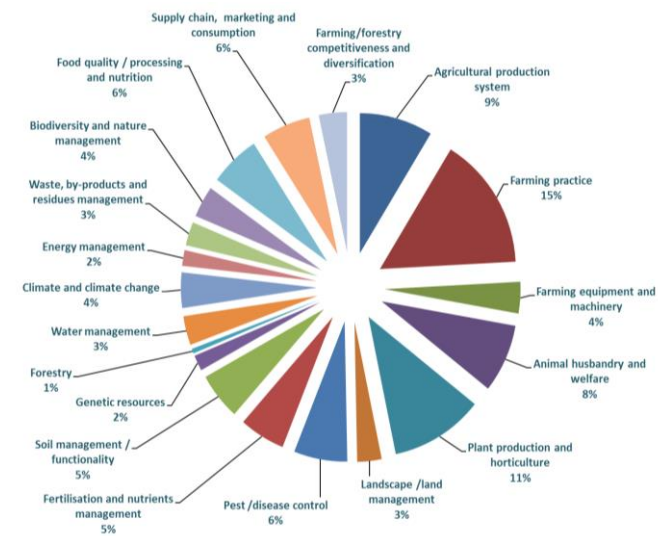
- ✓ **Continuity**
- ✓ **Consistency**
- ✓ **Impact**
- ✓ Helping **communities to structure** and **progress** on their innovation journey (and monitor/measure impact)
- ✓ Effective science-policy interface



Strategic priorities

Soils 26 projects EUR 197 million Soil functions; Soil water resources; Soil-improving cropping systems; Carbon sequestration	Water, nutrients and waste 26 projects EUR 182 million Water management; nutrient recycling; Fertilization; waste valorisation; bioeconomy	Plant health 29 projects EUR 161 million Alternatives to pesticides; Ecosystem services; Emerging diseases; Integrated pest management	Animal health 21 projects EUR 179 million Host-pathogen interaction; Microbiology; One Health; anti-microbial resistance; international cooperation
Genetic resources and breeding 33 projects EUR 189 million Biodiversity strategies; Genebanks; Landraces and value chains; Diversifying agriculture and forestry	Animal production systems 22 projects EUR 132 million Animal welfare; Feeding sustainability; Efficiency; Economic performance; Resource use		
Ecological approaches and mixed farming 36 projects - EUR 213 million Agroecology; Organic Farming; Biodiversity; Ecosystem Services; Landscape; Agriculture; Agroforestry; pollination; biocontrol; diversification; mixed farming; permanent grassland			
Understanding dynamics and modernising policies 23 projects EUR 107 million Food and nutrition security policies; Social innovation; Business models; Rural-urban relations; Generational renewal; Foresights; Modelling	Public goods from agriculture and forestry 24 projects EUR 159 million Biodiversity; Carbon sequestration; Drinking water; Governance and business models; Land management	Sustainable, circular and innovative value chains 54 projects EUR 367 million Integrated business logistics; food chain sustainability; food safety / quality / authenticity; short food chains	
Taking advantage of the digital revolution 17 projects - EUR 163 million Internet of things; Precision agriculture; Robotics; Services in rural areas			
Human and social capital and innovation systems 53 projects - EUR 151 million Agricultural knowledge and innovation systems (AKIS); Education and training; Advice; On-farm Demonstrators; Networks; Knowledge exchange			

Structured portfolio



European Commission

Agriculture and Rural Development

1. CAP Plan Regulation

Objectives (1)

General objectives

- *Agriculture and food*
- *Environment and climate*
- *Rural areas*
- ***Cross-cutting objective: knowledge, innovation and digitalisation***
- *Indicators*

Objectives (2)

Specific objectives

- (a) *support viable farm income and resilience across the Union to enhance food security;*
- (b) *enhance market orientation and increase competitiveness, including greater focus on research, technology and digitalisation;*
- (c) *improve the farmers' position in the value chain;*
- (d) *contribute to climate change mitigation and adaptation, as well as sustainable energy;*
- (e) *foster sustainable development and efficient management of natural resources such as water, soil and air;*
- (f) *contribute to the protection of biodiversity, enhance ecosystem services and preserve habitats and landscapes;*
- (g) *attract young farmers and facilitate business development in rural areas;*
- (h) *promote employment, growth, social inclusion and local development in rural areas, including bio-economy and sustainable forestry;*
- (i) *improve the response of EU agriculture to societal demands on food and health, including safe, nutritious and sustainable food, food waste, as well as animal welfare.*

Conditionality rules

Climate & environment

- Birds and Habitats Directives
- **Water Framework Directive**
- Nitrates Directive

GAEC Standards on:

- climate change
- water
- soil
- biodiversity and landscapes

Public, animal and plant health

- Animal Identification & Registration
- Pesticides authorisation Regulation
- **Directive on the sustainable use of pesticides**
- Hormones ban Directive
- General Food Law
- Notification of diseases

Animal welfare

Directives for the protection of:

- Calves
- Pigs
- Animals kept for farming purposes

Farm advisory services

Conditionality
Antimicrobial resistance
Risk management
Innovation support



Direct payments

- Basic income support for sustainability
- Complementary redistributive income support for sustainability
- Complementary income support for young farmers
- Voluntary scheme for the climate and the environment
- Coupled direct payments

Rural Development

- Payments for environment, climate and other management commitments
- Payments for natural constraints or other region-specific constraints



Farm advisory services

New elements

- All rural development measures
- Information on financial instruments and business plans (included in CAP Plans)
- Clean Air Directive
- National Emission Ceiling Directive
- Animal Health Law
- Plant Health Law
- Practices against anti-microbial resistance
- Risk management
- Innovation support (in link with EIP)
- Development of digital technologies

Elements remaining (more or less) the same

- All SMRs and GAEC under conditionality
- Management requirements of land (for direct payments)
- Water Framework Directive
- Directive on the sustainable use of pesticides



RURAL DEVELOPMENT

- **EAFRD no longer covered by CPR** (coordination, demarcation and complementarity with other Funds to be described in the Strategic Plans)
- **Full alignment with CPR provisions on Fis, LEADER/CLLD, sound economic governance, visibility & publicity**
- Co-financing rates:
 - 70% in less-developed and outermost regions
 - 43% in other regions
 - 65% for areas with natural or specific constraints (ANC)
 - **80% for management commitments**, area-specific disadvantages, non-productive investments, **EIP** and **LEADER**
 - 100% for funds transferred from first pillar
- At least 5% of total EAFRD contribution to be reserved for LEADER and 30% for interventions addressing the three environmental/climate objectives
- Max 4 % of total EAFRD for technical assistance at the initiative of the Member States (first and second pillar)
- **Possibility for budgetary transfers to LIFE and ERASMUS**
- **Possibility for budgetary transfers to MS compartments under InvestEU (Fis)**



RURAL DEVELOPMENT

- Types of interventions:
 - Environmental, climate and other management committees
 - Natural or other area-specific constraints
 - Area-specific disadvantages resulting from certain mandatory requirements
 - **Investments**
 - Installation of young farmers and **rural business start-up**;
 - Risk management tools
 - **Cooperation**
 - **Knowledge exchange and information**
- Selection criteria to be applied to investment measures
- **Possibility of using FIs** (incl. working capital), also in combination with grants
- Possibility for the MS to apply **SCO** (alignment with CPR)

Coordination and Governance

National and European CAP Networks:

- Collection, analysis, dissemination of information/good practices
- Capacity building
- Facilitating exchange of information between stakeholders
- Facilitating networking of LAGs, EIP, etc.
- Preparation of future plans
- Etc.

**Regional
networks are
possible too**

EIP

- To be established by the Commission to stimulate innovation and exchange of knowledge
- Linking research and farming practices
- Connect innovation actors and projects
- Promote transposition of innovative practices
- Informing scientific community about needs on the ground

- Implementation based on EIP Operational Groups

CAP Strategic Plan

- *One plan/Member State*
- *Content (Art 95)*
 - a) *an assessment of needs;*
 - b) *an intervention strategy;*
 - c) *a description of elements common to several interventions;*
 - d) *a description of the direct payments, sectoral and rural development interventions specified in the strategy;*
 - e) *target and financial plans;*
 - f) ***a description of the governance and coordination system;***
 - g) *a description of the elements that ensure modernisation of the CAP;*
 - h) *a description of the elements related to simplification and reduced administrative burden for final beneficiaries.*
- *Key part on **AKIS***
- *Performance review, control based on achieving results.*

In a nutshell:

A stable and stronger core, new coordination mechanisms

Remains

- ✓ A strong attention to **agricultural and rural R&I**... in even greater connection with other policies
- ✓ **EIP and the synergistic and integrated model of working between Horizon EU and the CAP, incl. networks and OGs**
- ✓ **Interactive innovation and the multi-actor approach**
- ✓ "Horizon" quite stable, with novelties around innovation ecosystems
- ✓ **Strategic** approach to EU agricultural R&I
 - Backbone of the action
 - Missions to be jointly defined
- ✓ RIS3 a useful strategy document

Evolves

- ✓ **Greater budget** under Horizon EU
- ✓ **Core to CAP modernisation**
- ✓ Stronger **focus on AKIS**
- ✓ **Policy simplification & modernisation**
 - 27 "CAP plans" instead of 118 RDPs
 - Great flexibility to Member States to organize themselves => *opportunities but needs for coordination*
 - Performance based: results and impacts instead of rules, eligibility, input-based policy
- ✓ **Not in CPR** but alignment and coordination



Thank you for your attention

More information

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

www.eip.agri.eu

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DG agriculture and rural development

Research and innovation – Horizon 2020 sector

European Commission

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European
Commission

Agriculture and
Rural Development

State of public investment in R&I

Public investments in agricultural research and development
 € bio (Eurostat, GBAORD data)

