



# Livestock systems: insight in EU funded R&I policy framework and landscape

***ATF-FEFAC-Horizon 2020 projects stakeholder event  
18 November 2021***

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European Commission*



Agriculture  
and Rural  
Development



# Sustainable livestock systems: challenges ...and opportunities



Reducing  
emissions,  
excretion



Breeding,  
Genetics

Alternative  
source  
of proteins



Feeding  
techniques

Microbial ecosystems



Antimicrobials

Grazing



Legume production

Animal Health  
& Welfare



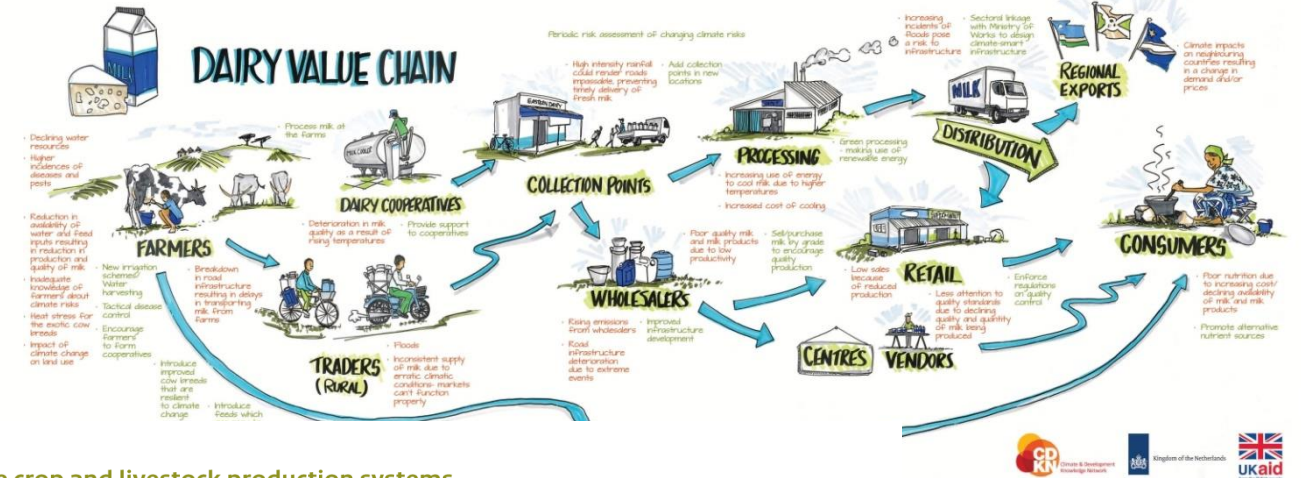
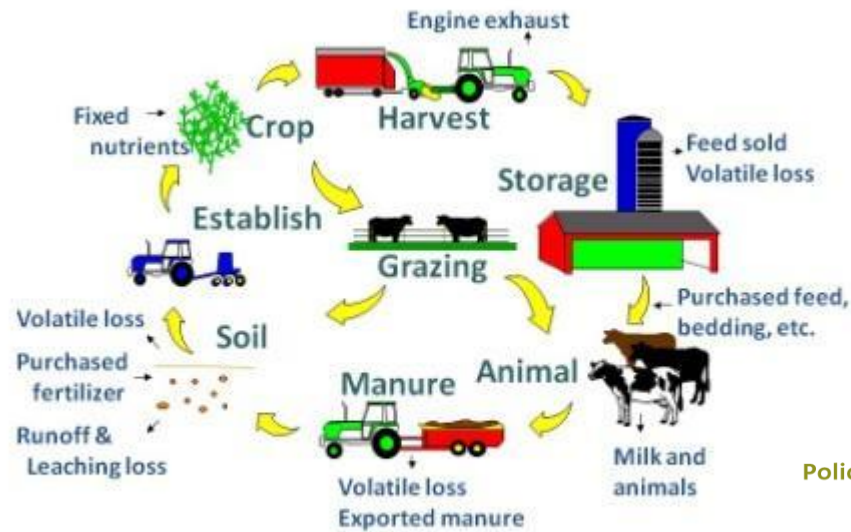
Manure  
management and  
storage



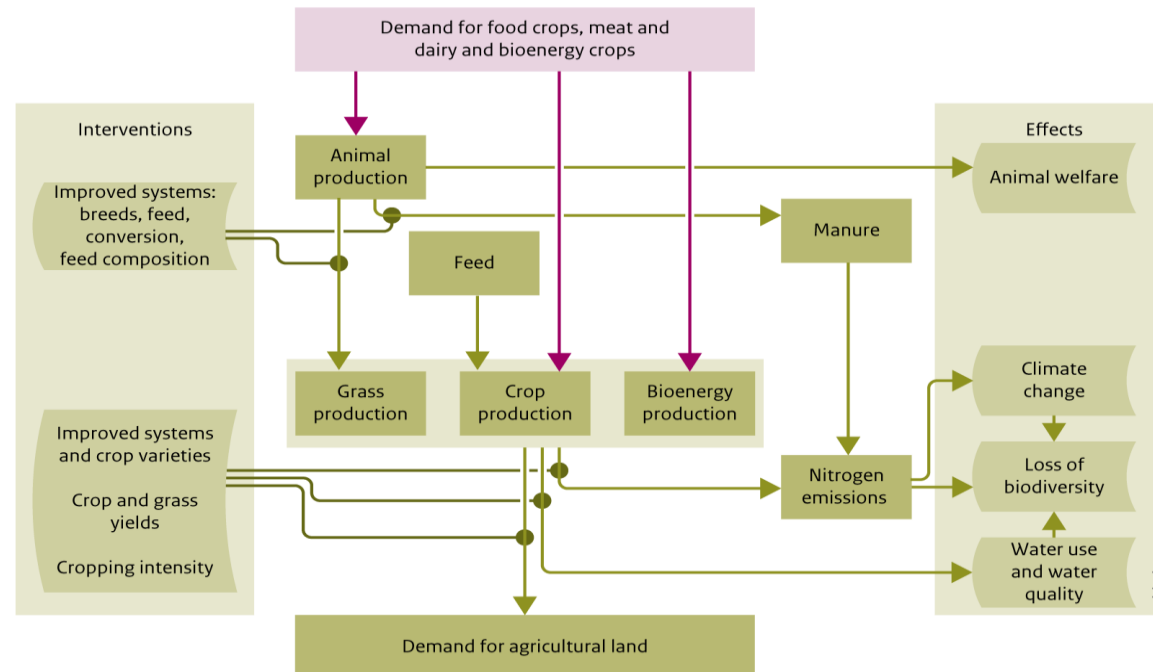
European  
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# Complexity of livestock systems



## Policy interventions in the crop and livestock production systems



Source: PBL 2014

# Policy framework



Knowledge & innovation



# Key EU targets & objectives to be achieved by 2030

**-50%** chemical pesticides

**-20%** chemical fertilizers

**10%** agricultural land under high-diversity landscape

**25%** share of organic production

protect soil fertility, reduce soil erosion and increase soil organic matter

Reduce GHG emissions by at least **55%**

...and many others

Time to step up the efforts...

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





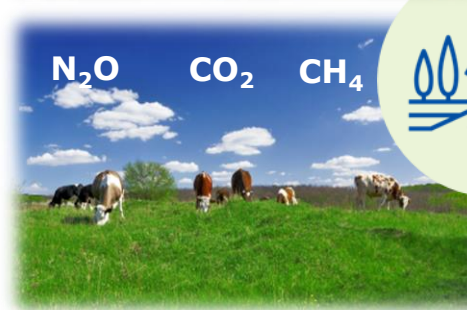
# Some specific EU R&I policies / legislative actions

Methane Strategy  
(October 2020)



Proposal for a revision of the  
feed additives Regulation to  
reduce the environmental  
impact of livestock farming  
(2021)

Organic Action Plan (March 2021)



Action plan for integrated  
nutrient management to reduce  
the pollution from fertilisers  
(2021)

Zero Pollution Action Plan  
(May 2021)

Legislative initiatives to enhance  
cooperation of primary producers  
(support position in food chain)  
(2021-22)



Proposal for a revision of the  
existing animal welfare  
legislation, including on  
transport and slaughter (2023)

Revision of Sustainable Use of Pesticides Directive and  
enhancement of IPM (2022)

+ others . . .



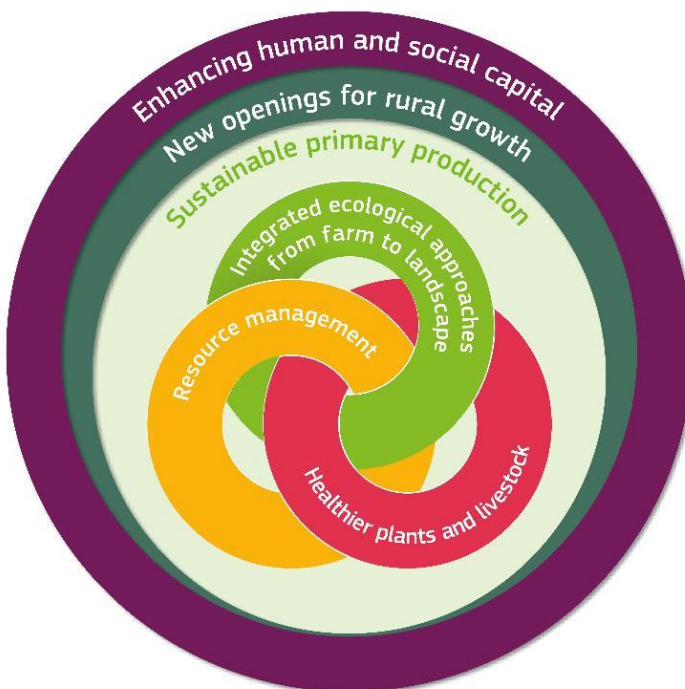
European  
Commission

European Commission

Designing the path  
A strategic approach to EU agricultural  
**research  
& innovation**

Brussels, Charlemagne building  
26-28 January 2016

#EU\_AgriResearch



## Also:



[https://ec.europa.eu/agriculture/research-innovation/documents-links\\_en](https://ec.europa.eu/agriculture/research-innovation/documents-links_en)



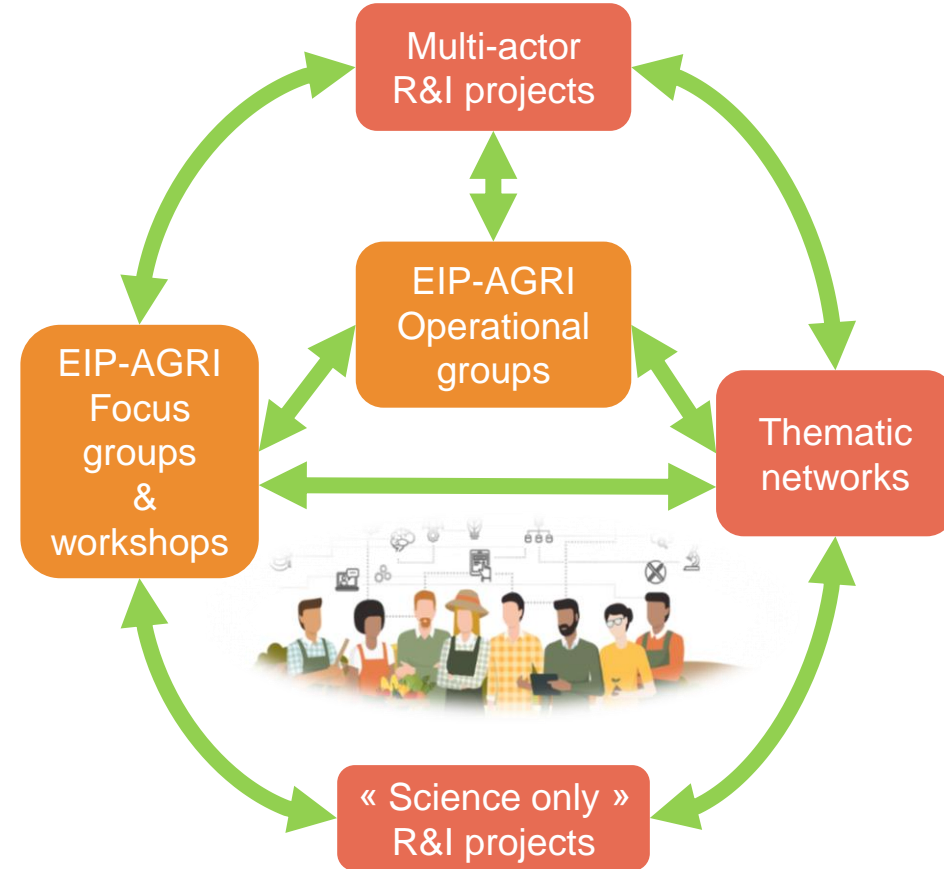
# From strategy to action: working in close synergy



CAP



Horizon 2020



2014

2016

Today



# H2020 projects presented

*(grouping according to distinctive focus)*

- sustainability and resilience of livestock systems



- Mixed farming, agroforestry, grasslands



- (alternative) proteins



- Animal nutrition & feeding



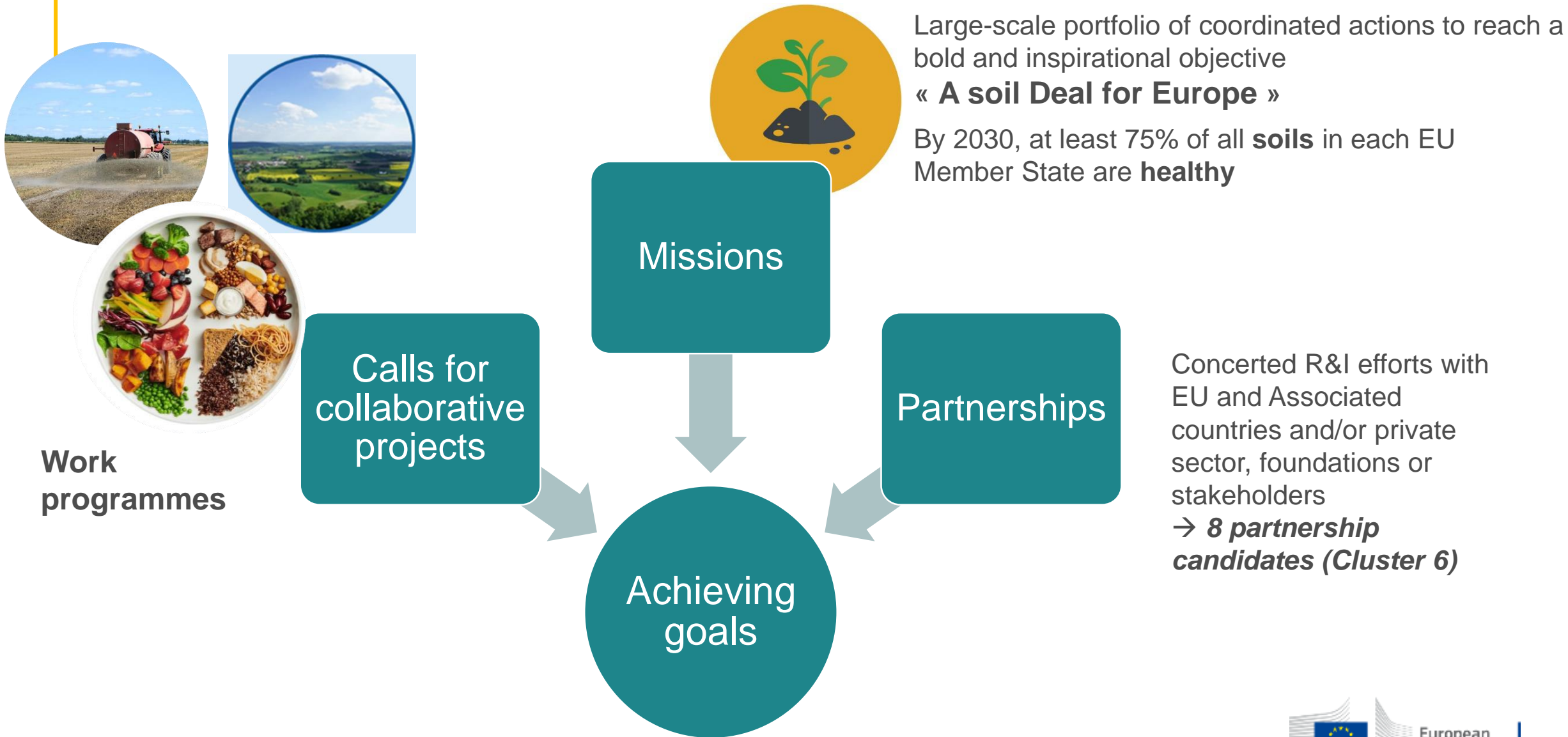
- Animal genomics and breeding



- Microbiome



# Horizon Europe: Various instruments to power the transition





# EU-funded agroecological research: from Horizon 2020 to Horizon Europe



2016

Ecological approaches from farm to landscape one of five priorities!



Transnational R&I (multi-actor) projects and thematic networks + 250 mio €

Cordis results pack on agroecology

## 13 principles of agroecology (HLPE, 2019)



Partnership “Accelerating farming systems transition: agroecology living labs and research infrastructures”

- Agroecology is a **holistic** approach with potential to **transform agricultural systems**, and enhance sustainability performance (social, economic, environmental, climate, healthier diets) of agri-food chains (*Farm to fork and Biodiversity strategies*)
- More reliance on **nature and ecosystem services** and **less on synthetic inputs** and more **diversity (crops and livestock)** -> **redesign** of farming systems -> increased **complexity**
- **Context-specific**
- **Scale** matters: farm, landscape, territorial levels
- Strong potential for **innovation**, including **digitalisation** and **social innovation**