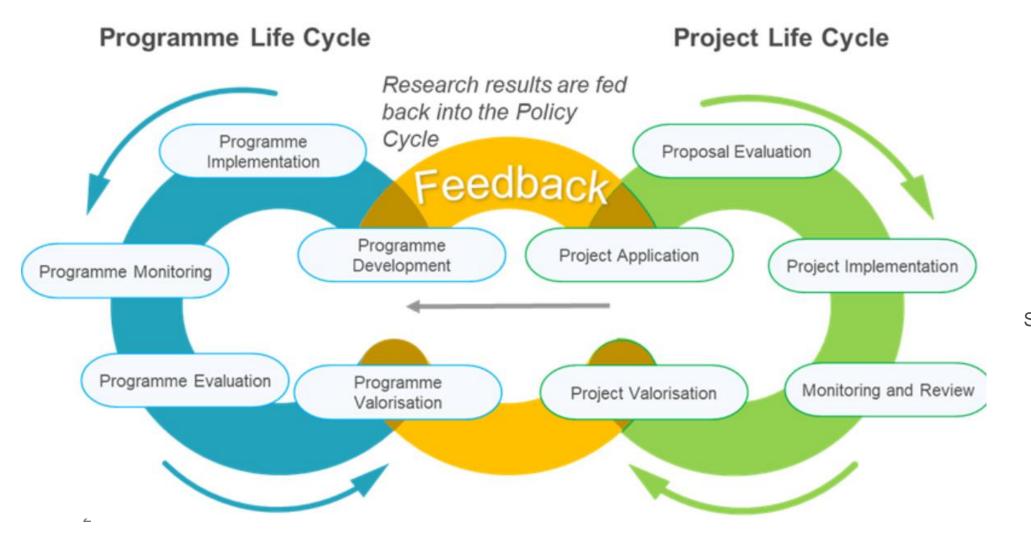


Science to Policy



Science to Policy Cycle





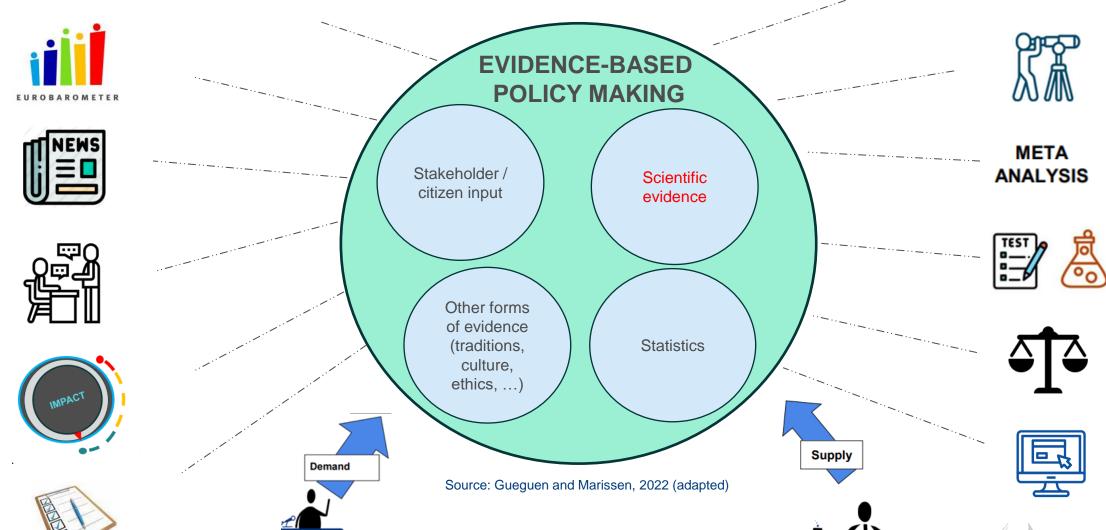
Different timelines
Scientific information comes
too late...



Feed to Policy

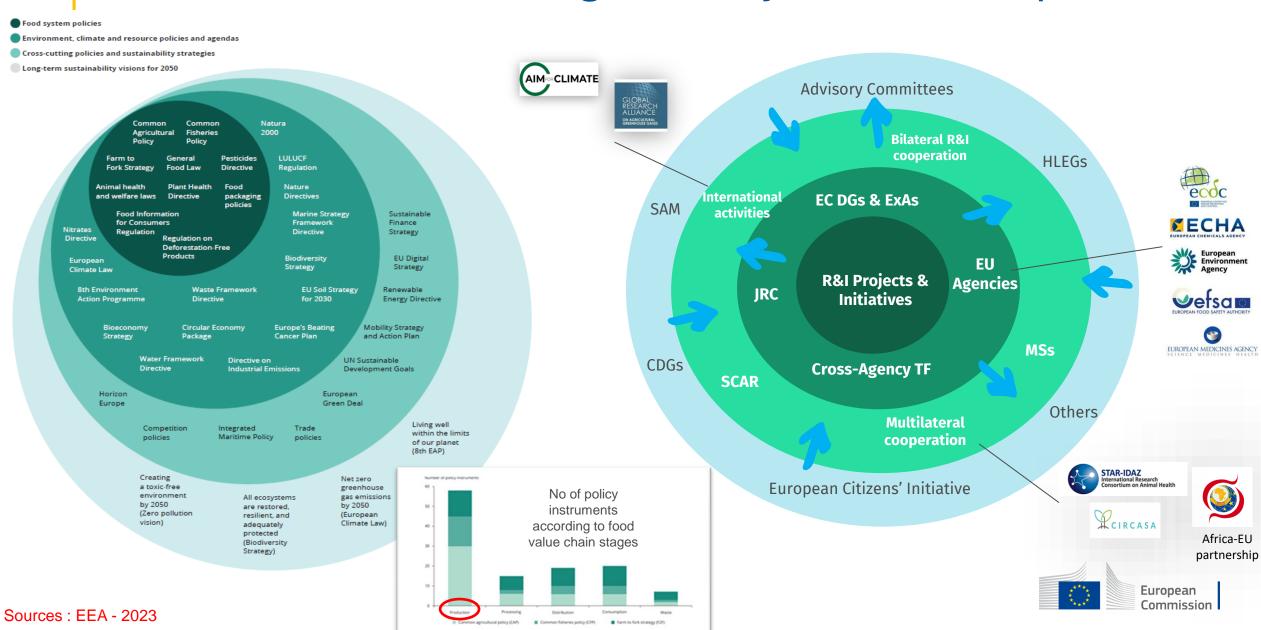


European Commission





EU Policies sustainable agri-food systems- examples F2P



Different paths of science-policy interface



Provides independent scientific advice to support EU action at all stages of the policy cycle in different areas

Provides transdisciplinary. anticipatory, and integrative vision

Assists policymakers to track and assess the impact of their policies





Foresight studies &

techniques

Socio-economic and scientific modelling,

Scenarios and statistics

Scientific, technical and policy consultancy

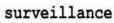


Reference materials and measurements

Methods and testing

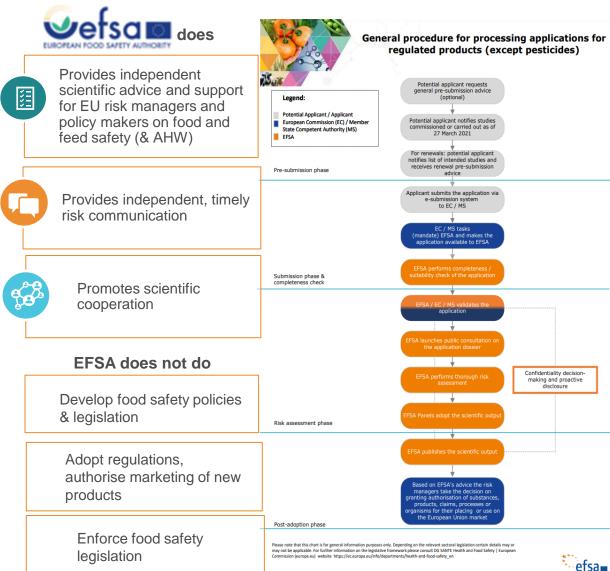


Monitoring, verification, and











Example: impact of livestock dietary manipulation – synthesis table

Impact	Metric	Intervention group	Intervention	Control	Positive	Negative	No effect	Uncertain*
Decrease GHG emissions	СН4	Diet formulation	Dietary legumes	Grass pasture/silage	0	0	0	1 (1)
			Forage with higher digestibility	Forage with lower digestibility	0	o	0	1(1)
			High concentrate level in diet	Low concentrate level in diet	0	О	1(1)	1 (1)
			Low CP diet	No reduction of dietary CP	0	o	1(1)	1(0)
			Tannin-rich forages	No tannin-rich forage	0	o	0	1(1)
		Feed additives	Coccidiostats and histomonostats	No feed additive	3 (3)	0	1(1)	1(1)
			Lipids	No lipid	4 (3)	o	3 (2)	1(1)
			Non specified feed additives	No feed additive	0	О	0	1(0)
			Nutritional additives	No feed additive	0	o	0	1(1)
			Sensory additives	Monensin ³	0	o	1 (1)	0
			Sensory additives	No feed additive	6 (5)	o	5 (5)	3 (3)
			Technological additives	No feed additive	1 (1)	0	3 (3)	0
			Zootechnical additives	No feed additive	8 (6)	o	2 (2)	2 (2)
	GHG	Diet formulation	High concentrate level in diet	Low concentrate level in diet	0	0	1(1)	0
		Feed additives	Nutritional additives	No feed additive	1 (1)	0	О	0
	N2O	Diet formulation	Low CP diet	No reduction of dietary CP	0	o	1(1)	1(0)
			High concentrate level in diet	Low concentrate level in diet	0	0	0	1 (1)
		Feed additives	Coccidiostats and histomonostats	No feed additive	0	0	0	1 (1)
			Non specified feed additives	No feed additive	0	0	0	1(0)
			Technological additives	No feed additive	0	0	1(1)	0
			Zootechnical additives	No feed additive	0	0	0	1 (1)

	Meta- analyses
Total n°	30
N° on GHG emissions	23 (1147 single studies)



Integrated Modelling platform for Agro-economic and resource Policy analysis



Review of farming practices - JRC









- Agroforestry
- Organic systems
- Fallowing
- Landscape features
- Fertilisation strategies
 - Organic fertilisation
 - Green manure
 - Enhanced efficiency fertilisers
 - Nitrification inhibitors
 - Low ammonia emission techniques
- Soil amendments
 - Lime or gypsum
 - Biochar
- Pesticide reduction strategies

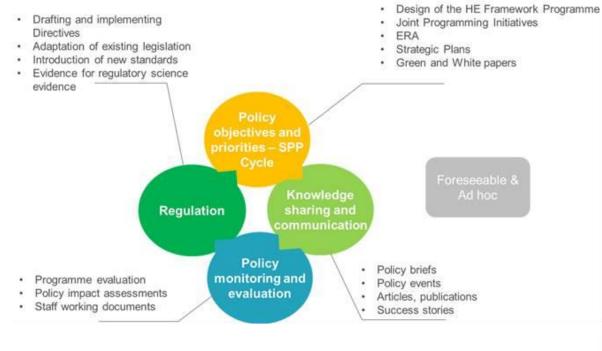
- Crop rotation
- Intercropping
- Cover crop
- No tillage, reduced tillage, conservation agriculture
- Grassland:
 - Grassland management
 - Grassland conservation and restoration
 - Grazing
- Livestock practices
 - Manure land application
 - Manure storage
 - Manure processing
 - Livestock dietary manipulation
 - Livestock housing techniques

- Crop residue management
- Leguminous crop
- Mulching
- No irrigation
- Peatland
 - conservation and restoration
 - management
- Water-saving irrigation practices
 - in flooded lands
 - in non-flooded lands
- Wetland
 - conservation and restoration
 - management



European Commission

Feedback to Policy





- Project Portfolio validation Analysis
- Gap Analysis
- Valorisation Exercise
- · Policy Brief /Joint Policy Briefs
- · Contribution to Programme drafting and linked activities'
- · Taskforce activities
- · Feedback from Beneficiaries
- · Tenders and Evaluations

- · Individual Project Meeting
- · Cluster Meeting
- · Project to Policy Meeting
- · Workshops /Stakeholder Events
- Policy-Related Thematic Events Organised by the European Institutions
- · Info Day & Coordinators Day

- · Program Implementation Report
- · Programme Implementation Feedback (KIPs)
- · Project Portfolio Report
- · Individual Project Implementation Report
- · Success Stories
- Cordis Result Pack
- · Projects Policy Newsletter/ Flash Note





Policy inputs



Analysis &

Meetings

and

Events

Report &

Policy needs



The nitrogen cycle and its influence on the European greenhouse gas balance





National Emission reduction
Commitments (NEC)
Directive

Content: to establish datasets, quantify global change impacts, and model nitrogen fluxes and GHG exchange across European ecosystems

Changes; merging experimental, modelling/assessment and policy advice; large geographical/thematical coverage -> EU nitrogen community

Key achievement: went global: INMS project -> International Nitrogen Assessment (2025)

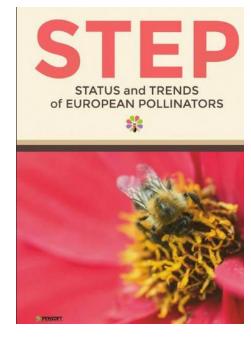
Consequences:

- Beginning of major nitrogen initiative, key in generating the EU Nitrogen Assessment (ENA) and the establishment of the CLRTAP Task Force on Reactive Nitrogen;

- Contribution to the Colombo Declaration (2019) and the UNEA5.2 Resolution on Sustainable Nitrogen Management (2022)









EU Pollinator Initiative

+ Other projects: e.g., EP – JRC -> Influenced the pollinator target



Nature Restoration Regulation **Content:** status and trends of managed and wild pollinator species

Changes; in the understanding of pollination services - wild species main pollination providers rather than honeybees

Key achievement: EU Red List of Bees in close collaboration with IUCN

Consequences:

- evidence-base of the mid-term revies of the EU biodiversity strategy to 2020;
- EU policies on conservation of pollinators/pollination (focused by then on honeybees);
- Farm management options for pollinators through the EU CAP
- Global assessment on pollinators by IPBES (adopted in 2016)







Improve performance of organic agriculture by boosting organic seed and plant breeding efforts across Europe



Reg. on organic production and labelling of organic products

02021R1189 — EN — 05.07.2022 — 001.002 —

14.6.2018 EN Official Journal of the European Union L 150/1

(Legislative acts)

REGULATIONS

REGULATION (EU) 2018/848 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 30 May 2018

on organic production and labelling of organic products and repealing Council Regulation (EC)

THE EUROPEAN PARLIAMENT AND THE COUNCIL OF THE EUROPEAN UNION

Having regard to the Treaty on the Functioning of the European Union, and in particular Article 43(2) thereof,

Having regard to the proposal from the European Commission,

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B COMMISSION DELEGATED REGULATION (EU) 2021/1189

of 7 May 2021

supplementing Regulation (EU) 2018/848 of the European Parliament and of the Council as regards the production and marketing of plant reproductive material of organic heterogeneous material of particular genera or species

> (Text with EEA relevance) (OJ L 258, 20.7.2021, p. 18)

Amended by:

Official Journ

nage date

►M1 Commission Delegated Regulation (EU) 2022/923 of 11 March 2022 L 160 28 1

Content: use of organic plant reproductive material, organic heterogeneous material **Changes**:

- need to extend use of inconversion plant reproductive material (produced after one year under organic conditions)
- a feasible approach for the description and identification of organic heterogeneous material **Key achievement:** inserted in COM proposals, further discussed with national competent authorities and finally adopted

Consequences:

- Commission Delegated Regulation 2020/1794 amending Regulation (EU) 2018/848 on the use of inconversion and non-organic plant reproductive material
- Commission Supplementing Regulation (EU) 2021/1189 on the production and marketing of plant reproductive material of organic heterogeneous material







Xylella Fastidiosa Active Containment Through a multidisciplinary-Oriented Research Strategy



Update the 2015 EFSA risk assessment on **Xylella fastidiosa**

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COMMISSION IMPLEMENTING REGULATION (EU) 2020/1201

►M1 Commission Implementing Regulation (FII) 2021/1688 of 20

Amended by

Content: minimize the risk of introduction/impact of emerging pests threatening EU agriculture and forestry: Xylella fastidiosa **Changes:**

- Both projects provided scientific inputs to policymaking by helping EFSA and building the network of researchers and policymakers **Key achievement:** sharing up-todate data, information, and knowledge from their ongoing research activities

Consequences:

- Update of the Scientific Opinion on the risks to plant health posed by Xylella fastidiosa in the EU territory (2019)
- EFSA opinion used by DG SANTE to update regulation for quarantine pests.
- Commission adoption of new measures against against Xylella fastidiosa (Commission Implementing Regulation (EU) 2020/1201) repealing current Decision (EU) 2015/789



Thank you

