

Uncomfortable Knowledge in WEF Nexus Governance: Results from the H2020 MAGIC project



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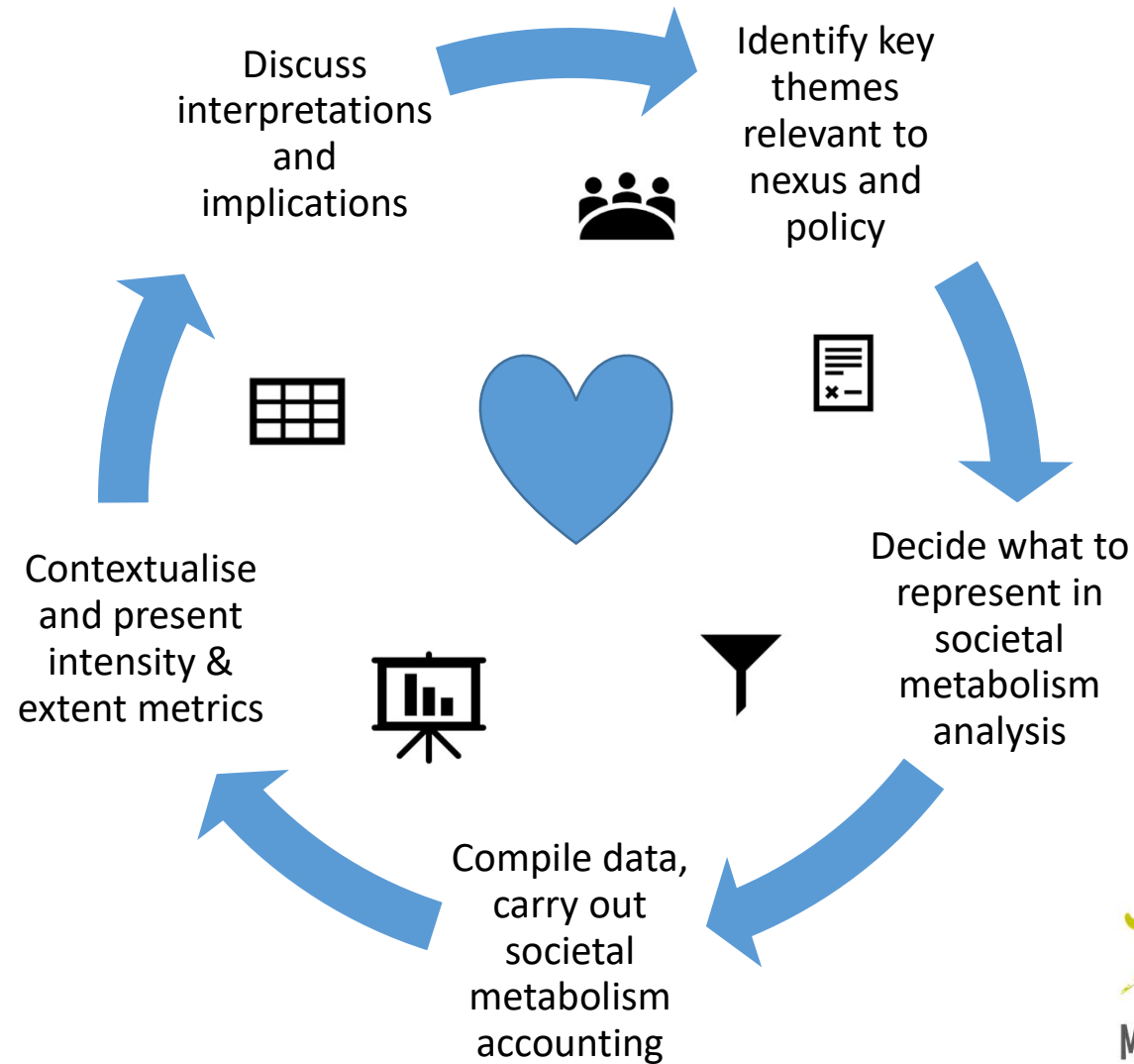


What have we learnt about working with policy actors?

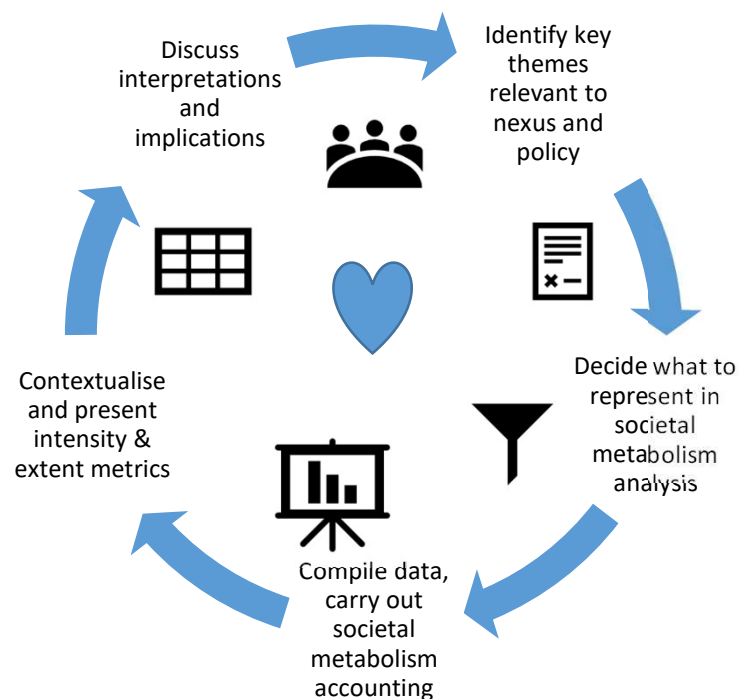
Products arising from H2020 depend on processes involving both consortium members and the wider actors involved in our 'mixed teams'



Quantitative Story Telling



Quantitative Story Telling



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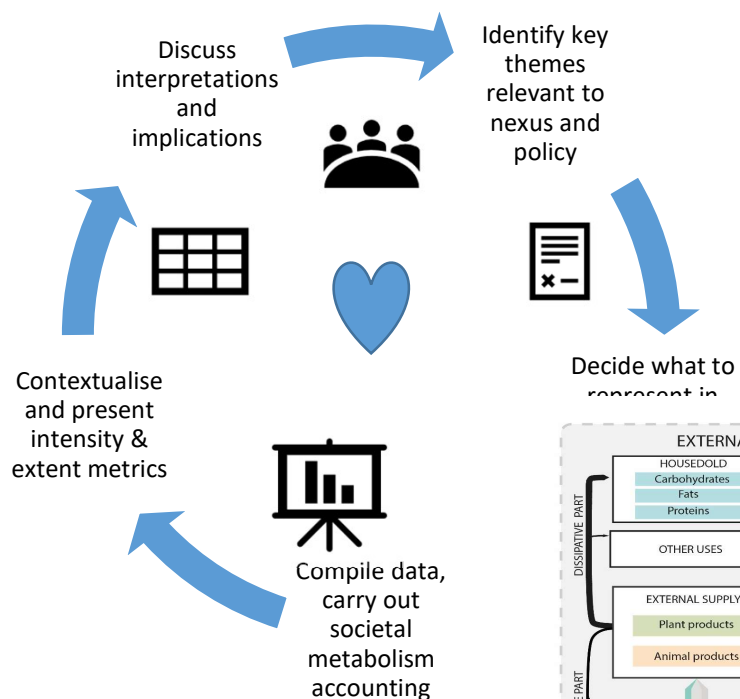
56 individuals from several EU organisations

Text analysis of policies & associated documents

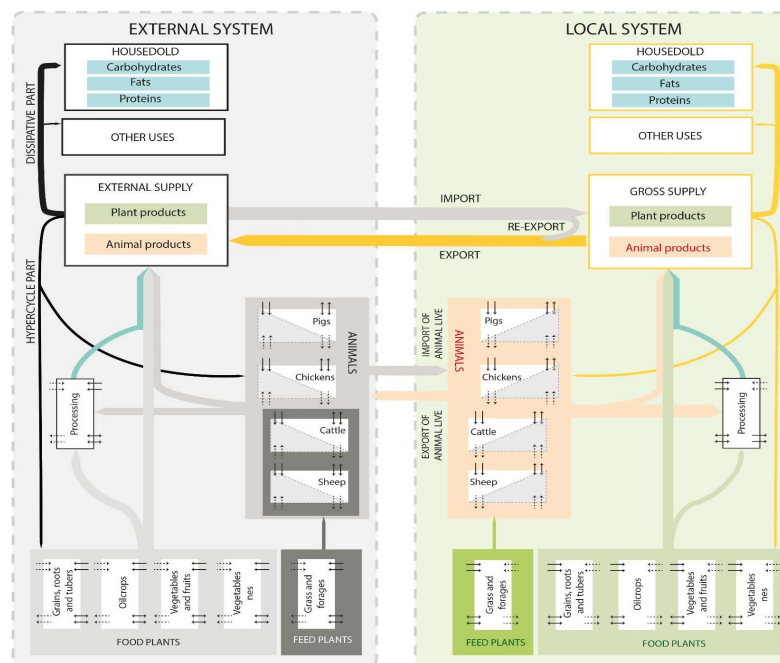


Quantitative Story Telling

PAN EU existing data set



Societal Metabolism Grammar



Animals destined to the reproduction of the herd

Animals slaughtered for meat production

Flow element from technosphere (fertilizers, pesticides, energy, etc.)

Flow element to biosphere (emissions, etc.)

Flow element from biosphere (green water, etc.)

Fund element (human activity, land, etc.)

European Commission

AGRICULTURE AND RURAL DEVELOPMENT

Farm Accountancy Data Network

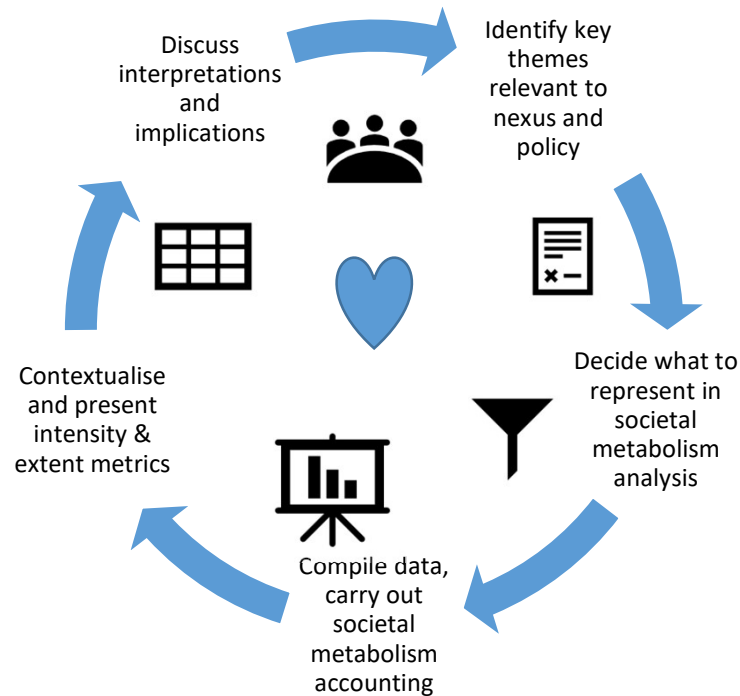
The Farm Accountancy Data Network (FADN) is an instrument for evaluating the income of agricultural holdings and the impacts of the Common Agricultural Policy

Latest News	About FADN	Publications	Contributions	Public Database	Links
13/06/2019 Farm Economy Focus updated	Overview	Copyright	Contributions to evaluations and studies	Disclaimer	Contacts
20/05/2019 The 2017 accounting year preliminary data published	Methodology	EU Agricultural and Farm Economics Briefs	Contributions to research projects	Dynamic reporting tool	FAQ
Read all news...	Data collection	Analysis supporting CAP reforms		Standard reports	Private
	Diffusion	Farm Economics		Farm economy focus	
	Annexes				

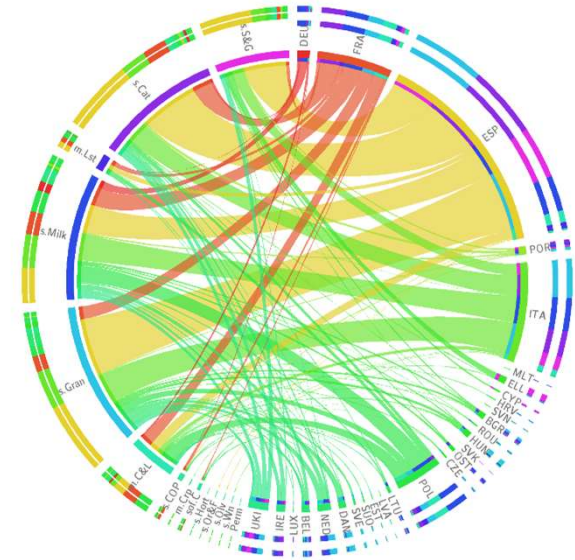
MAGIC NEXUS



Quantitative Story Telling

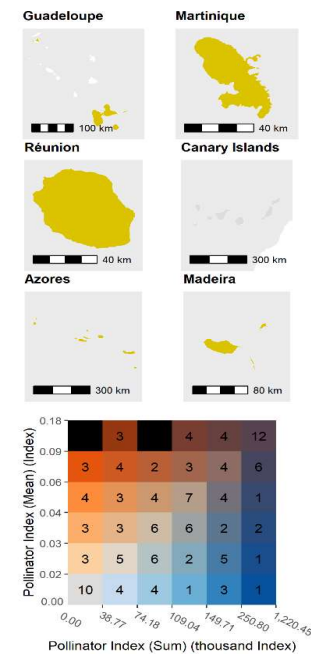
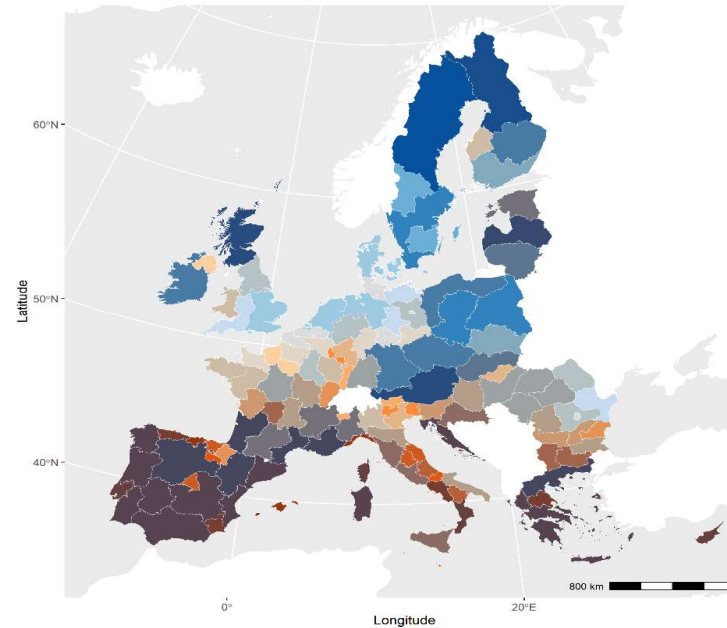


Circos diagram linking imported blue and green water in livestock feed 2014-17

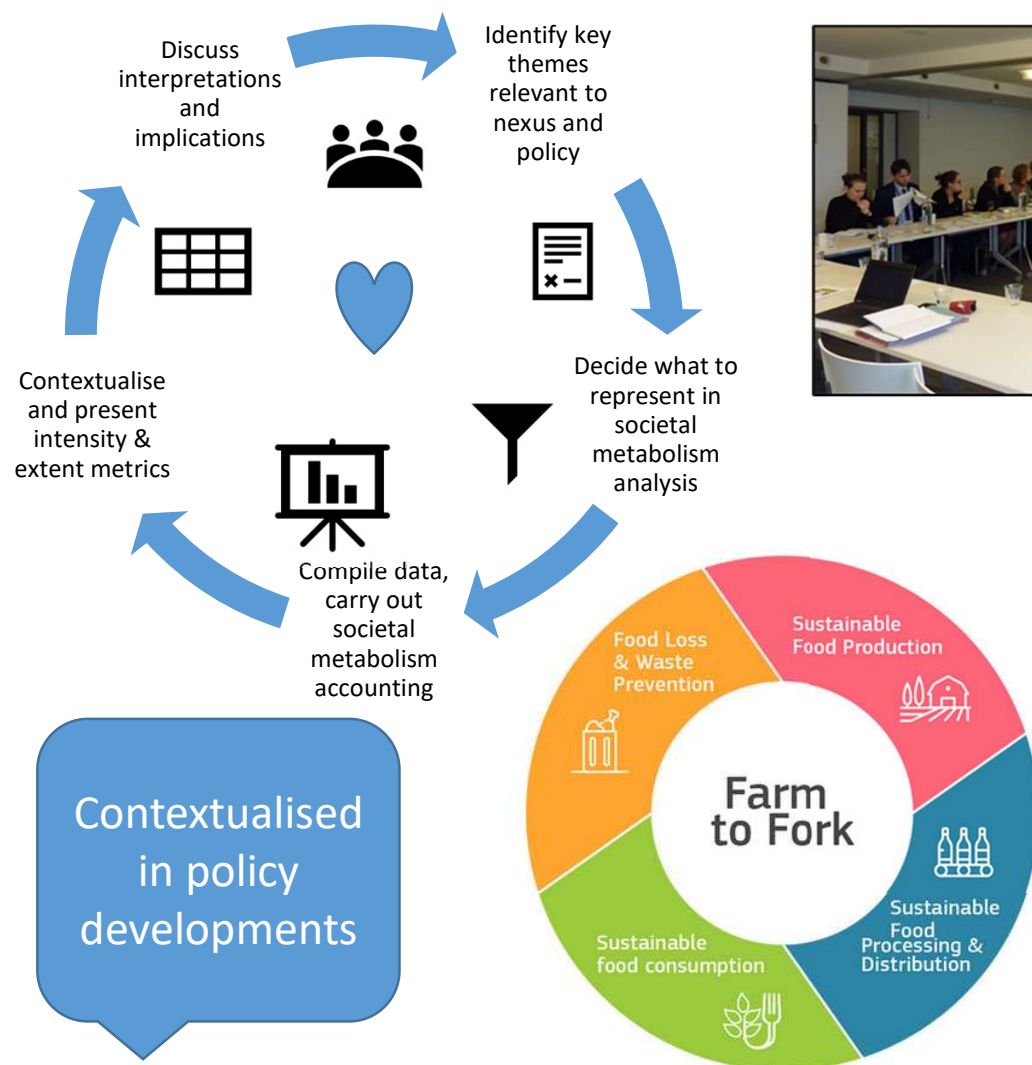


Extent and intensity relationship map for pollinators index 2014-17

Pollinator Index, Extent vs Intensity



Quantitative Story Telling



Feedback workshops and interviews

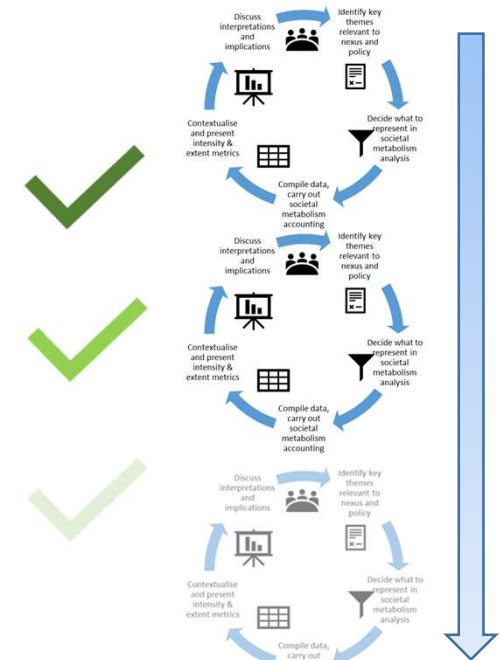
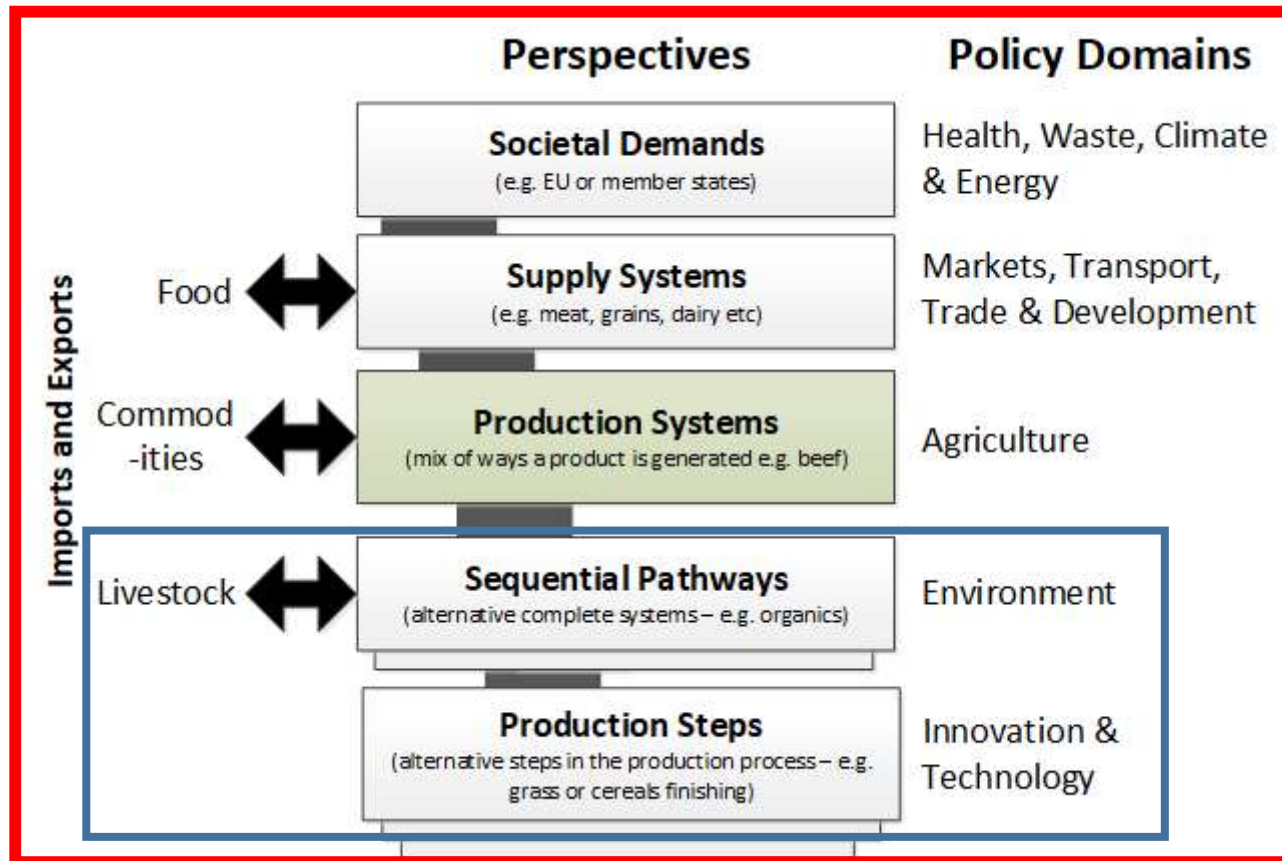


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Strategic then policy led QST



Co-learning in mixed teams

- Salient diagnosis (Green Recovery Deal)

but

- Participants expected technical solutions

We expected to:

- Discuss and debate interpretations
- Learn about what is meant for their roles
- Co-produce solutions and ideas



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Process learning

Policy entrepreneurs

- Share, not just receive, knowledge
- Part of, not additional, to their role
- Empowered to fail forward
- Rewarded for innovation



Knowledge ecosystems

- Participation not just for citizens
- Bureaucrats, parliamentarians, lobbyists with scientists



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Policy Support Learning

ANNEX

ACTIONS

Proposal for a legislative framework for sustainable food systems	2023
Develop a contingency plan for ensuring food supply and food security	Q4 2021
ENSURE SUSTAINABLE FOOD PRODUCTION	
Adopt recommendations to each Member State addressing the nine specific objectives of the Common Agricultural Policy (CAP) , before the draft CAP Strategic Plans are formally submitted	Q4 2020
Proposal for a revision of the Sustainable Use of Pesticides Directive to significantly reduce use and risk and dependency on pesticides and enhance Integrated Pest Management	Q1 2022
Revision of the relevant implementing Regulations under the Plant Protection Products framework to facilitate placing on the market of plant protection products containing biological active substances	Q4 2021
Proposal for a revision of the pesticides statistics Regulation to overcome data gaps and reinforce evidence-based policy making	2023
Evaluation and revision of the existing animal welfare legislation, including on animal transport and slaughter of animals	Q4 2023
Proposal for a revision of the feed additives Regulation to reduce the environmental impact of livestock farming	Q4 2021
Proposal for a revision of the Farm Accountancy Data Network Regulation to transform it into a Farm Sustainability Data Network with a view to contribute to a wide uptake of sustainable farming practices	Q2 2022
Clarification of the scope of competition rules in the TFEU with regard to sustainability in collective actions.	Q3 2022
Legislative initiatives to enhance cooperation of primary producers to support their position in the food chain and non-legislative initiatives to improve transparency	2021-2022
EU carbon farming initiative	Q3 2021



Policy Support Learning



Image: European Commission



Saving Water in Irrigation

A. Vargas, R.J. Hogeboom & J.F. Schyns



Innovation Biofuels

Abigail Muscat



Innovation Electric Vehicle & Storage

Louisa Jane Di Felice



Processes not Projects

Magic's legacy > policy advice

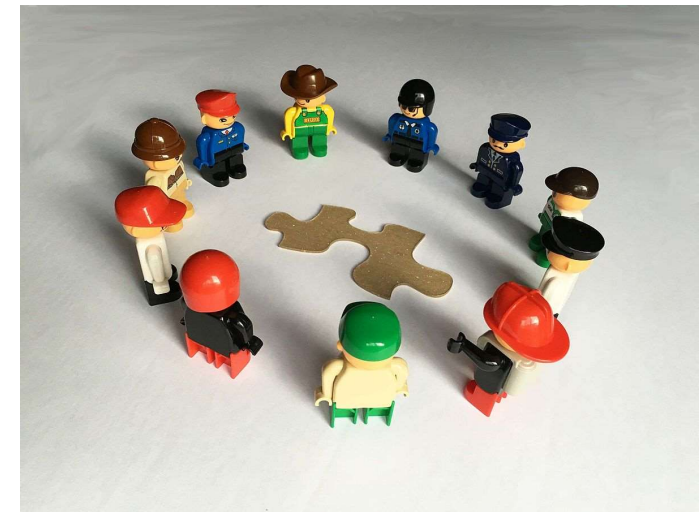
About building relationships

Workshops bringing together DGs

Learning and sharing can be uncomfortable for 'experts'



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Take Home Messages...

- WEF systems (across scales) not yet sustainable
 - Threats to **planetary & socio-economic** boundaries
- Clear aspiration for systemic approaches to sustainability
 - Scale of challenge requires more than technical solutions
 - Coherence via reflective transdisciplinary learning
- Uncomfortable, exciting, appropriate?

thank you!



Magic may be ending...

But the sustainability journey is ongoing

Please use our resources @ <https://magic-nexus.eu/>
migrating to Uncomfortable Knowledge Hub shortly

- Videos, briefings, games, interactive maps & tools
- People - contacts via website



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Thank you for your attention!

<http://magic-nexus.eu>

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