



SAFEGUARD

Safeguarding European
wild pollinators

MISSION

Safeguard aims to substantially contribute to reversing the loss of wild pollinators across Europe by expanding current assessments of the status and trends of European wild pollinators including bees, butterflies, flies and other pollinating insects.

PARTNERS

25 institutions from 15 countries

DURATION

4.5 years
September 2021 – February 2026



OBJECTIVES

- 1 Re-assessment of the status and trends of European wild pollinators
- 2 Predict the impacts of drivers and pressures on European wild pollinators
- 3 Quantify consequences for multiple values including pollination and co-benefits associated with shifts in pollinator communities
- 4 Quantify the effectiveness of multiple interventions to benefit pollinators
- 5 Co-develop an integrated assessment framework able to assess and address pollinator declines
- 6 Inform national, European, and global policies by providing relevant and timely evidence
- 7 Increase awareness and knowledge of wild pollinators and their societal values



Safe-Hub

LAUNCHED

August 2024

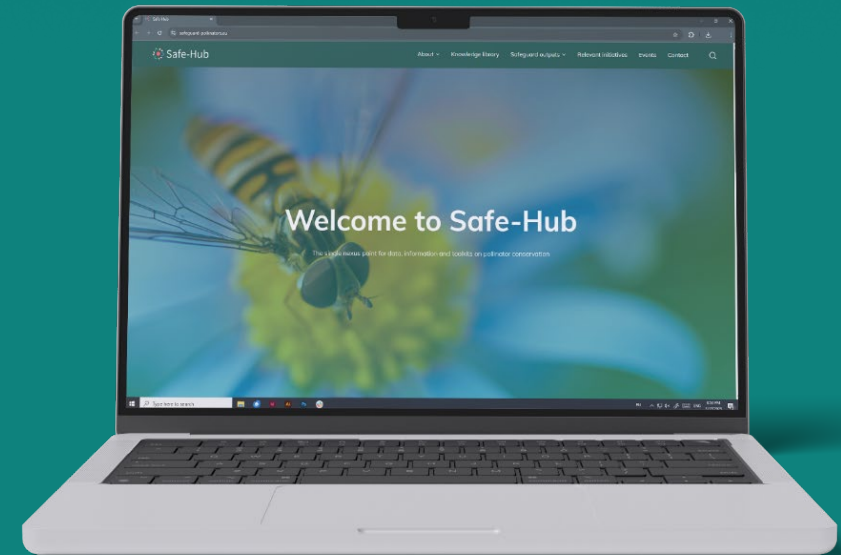
WHAT'S INSIDE?

- ✓ Extensive knowledge library, including papers, policy briefs and stakeholder summaries
- ✓ Interactive species distribution map by Safeguard
- ✓ Links to relevant pollinator-related initiatives and projects and many more...

UPCOMING

Buzzing tables, IAF & other maps, data & outputs

EXPLORE THE
**Safeguard
Knowledge
Exchange Hub**



EU action on pollinators

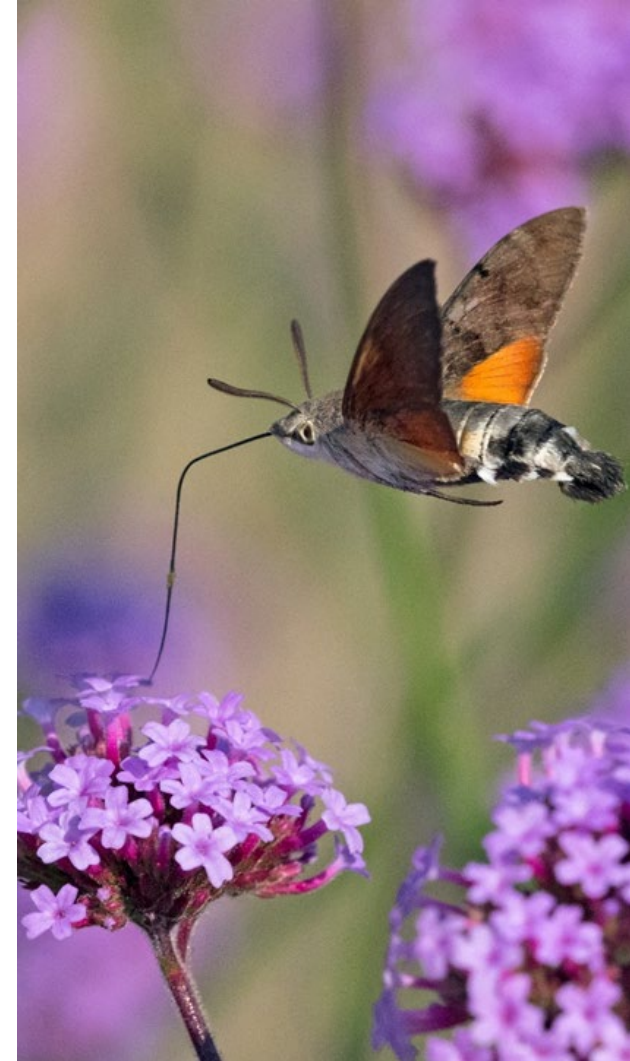
Andreas Gumbert
European Commission

Farming for pollinators: unlocking economic and ecological gains, 2 April 2025



Nature Restoration Regulation

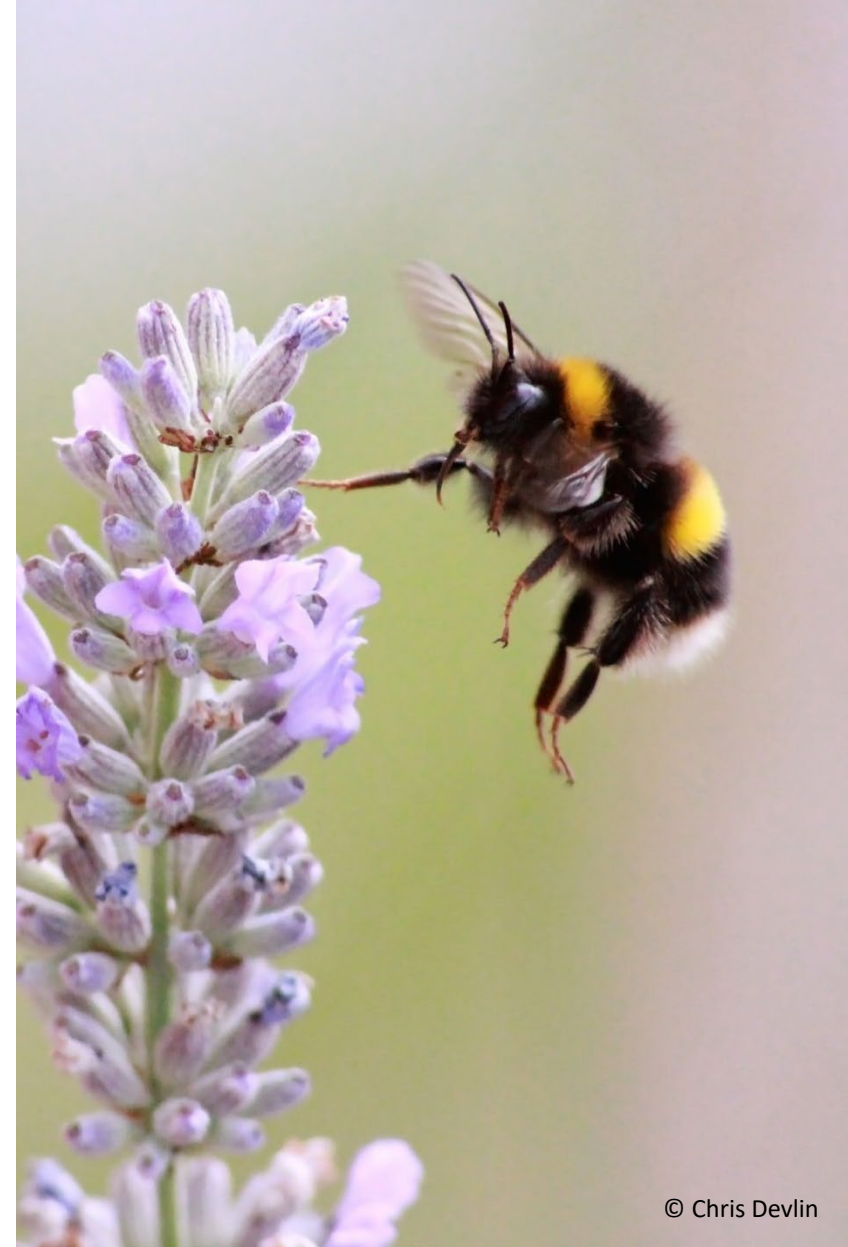
- Legally binding target to reverse the pollinator decline
- MS to monitor abundance & diversity of pollinator species
- EC to establish a monitoring method (Delegated Act)
- Science-based and standardised monitoring method
- Assessment based on annual data, representative across MS territories
- Restoration plans by September 2026



Revised EU Pollinators Initiative

42 actions across 3 pillars:

- I. Improving knowledge**
- II. Tackling causes of pollinator decline**
- III. Mobilising society and strategic planning**



© Chris Devlin



I) Improving knowledge

➤ EPIC projects: EUR 3 million for training of new bee/hoverfly/butterfly taxonomists

➤ Horizon Europe (selection):

BeeGuards & Better-B: competition wild & managed pollinators!

Valor & Butterfly: dependence of society on pollinators

PollinEra & WildPosh: pesticide risk assessment

RestPoll: restoration of pollinators in agriculture

Coming up: Pollinators and soil health



I) Improving knowledge

- STING report on refined EUPoMS
- EMBAL 2022/23 survey finalised
- INSIGNIA survey 2023 finalised (Final conference)
- Red List of Hoverflies published



Final Conference

INSIGNIA

Preparatory Action for monitoring of environmental pollution using honey bees



HIGH-LEVEL SEGMENT
(EUROPEAN PARLIAMENT)
5 December 2024 10:00-12:00

Online attendance only:
<https://europeanparliament.webex.com/europeanparliament/j.php?MTID=m823087403d18c1eaf9862abb479435de>

CONFERENCE
(EUROPEAN COMMISSION)
5 December 2024 13:30-18:00
Charlemagne building, Room Lord Jenkins
Rue de la Loi 170, 1040 Bruxelles, Belgium

Webstreaming:
<https://webcast.ec.europa.eu/insignia-meeting>



II) Tackling pollinator decline

- Publication and implementation of [3 Action Plans](#)
- PollHab project: pollinators typical of habitats protected under the Habitats Directive
- [Agrowise](#) project: Integrated Pest Management
- Options for Farmland Pollinator Indicator (STING)
- EU CAP Network: [pollinator workshop](#) June 2024



III) Mobilising society & strategic planning

- [EUBP Working Group on Pollinators](#)
- FAO global platform on pollinators
- Youth for Pollinators EUR 4.5 million

Young Citizens Assembly on Pollinators: (Q3 2025 - Q1 2026)

Buzzing Schools (2025-2027)

Small Grants Fund for Youth Action on Pollinators (2025-2026)

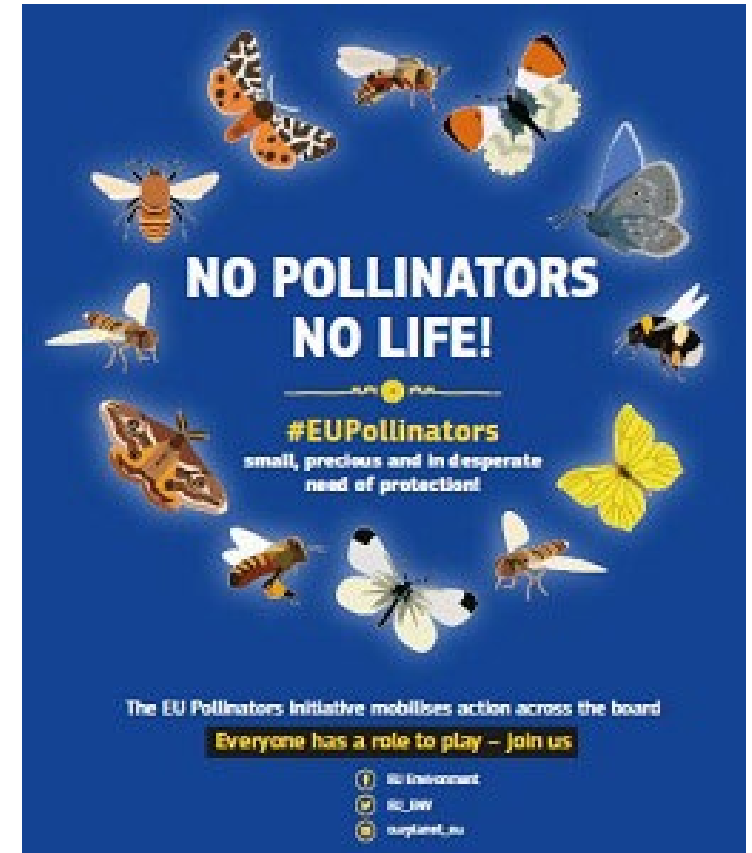


Thank you!

[#EUPollinators](#)

Small, precious and in need of protection!

[EU Pollinator Information Hive](#)



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Safeguarding European wild
pollinators

The Economics of Pollination – Beyond Yield Increases

Tom Breeze & Georgios Kleftodimos

ELO Forum 02/04/25 Brussels



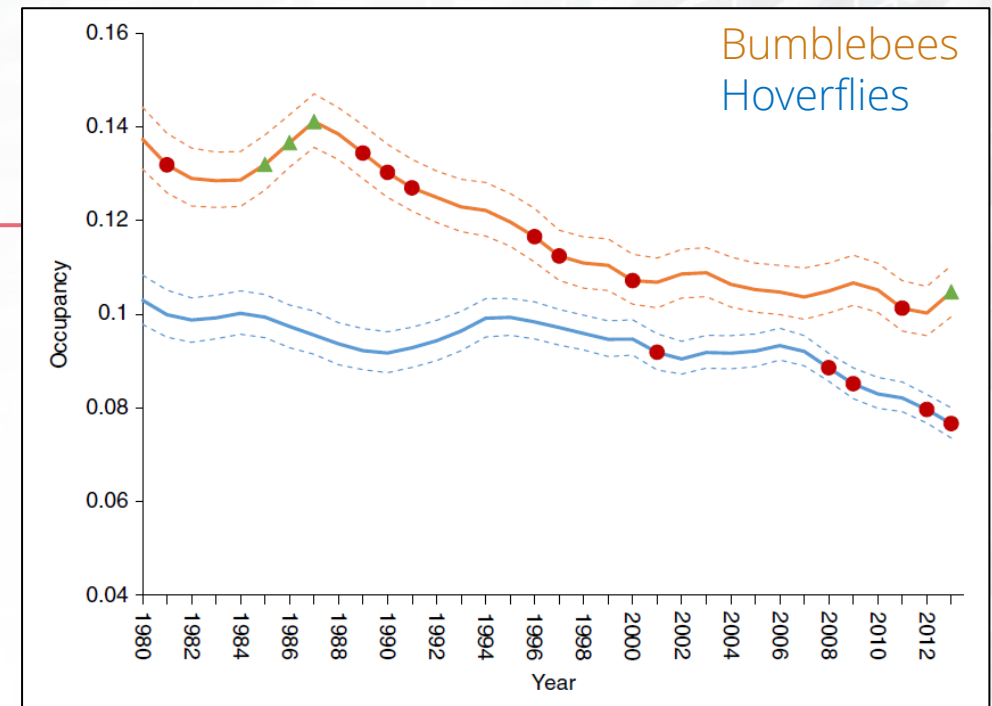
Pollinators





Pollinator Declines

- Bee and hoverfly **species diversity** has declined across Europe and North America.
- Evidence indicates that **land use change**, **agrochemical use** and **climate change** are the main drivers.
- Lower diversity means that there is a greater **risk of shocks** to pollination services.
- Beekeepers are facing growing pressures from **disease** and **rising costs**



Crop Pollination

Pollination affects the economic output of 75% of the world's most common crops, increasing **yield**, **quality** and **shelf life**.

- Not important for cereal crops
- Very important for high-value horticulture, spices and stimulant crops (e.g. coffee)

Levels of pollination are affected by the **behaviour**, **abundance** and **diversity** of pollinator species.

Pollinator diversity is important for **resilience**:

- Crop rotations and new crops
- Sudden shocks to key pollinators
- Long-term protection from climate change



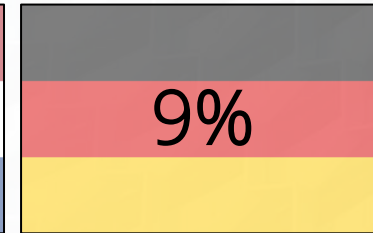
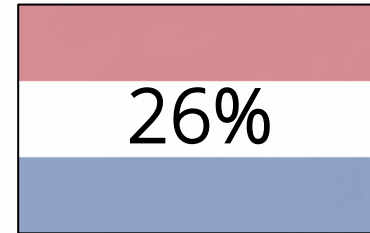
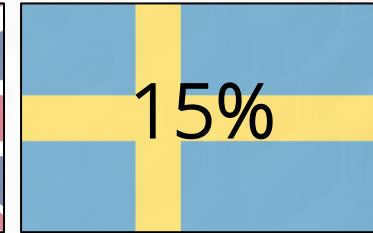
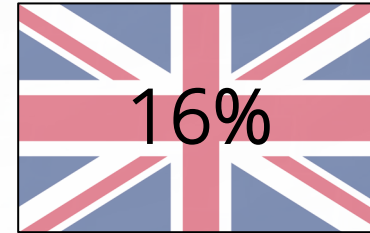
Pollination Deficits

Globally, an estimated **4.7% of crop production** is lost to inadequate pollination

Pollination deficits **are widely observed in European apple orchards**, costing growers millions each year.

Many EU countries are starting to create pollination services markets or searching for mechanical replacement

- South-West France → Pollination services market for sunflower production
- North-East Greece → Pollination services market and mechanical replacement for kiwi production
- Gobi desert China → Breeding new bumblebees for Tomato pollination



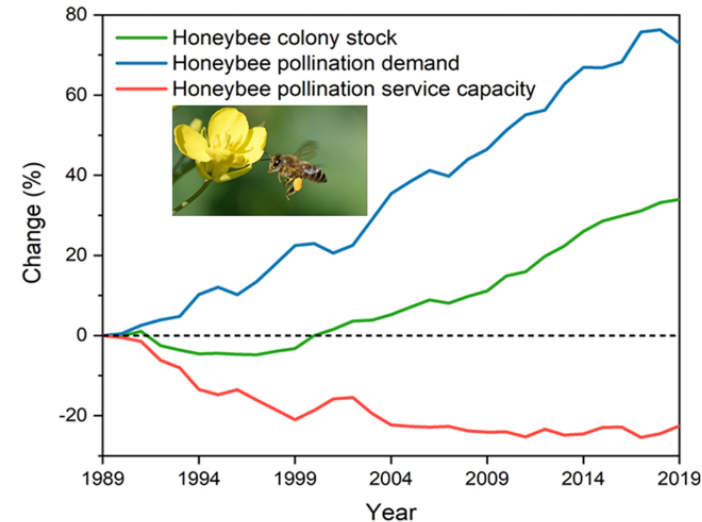
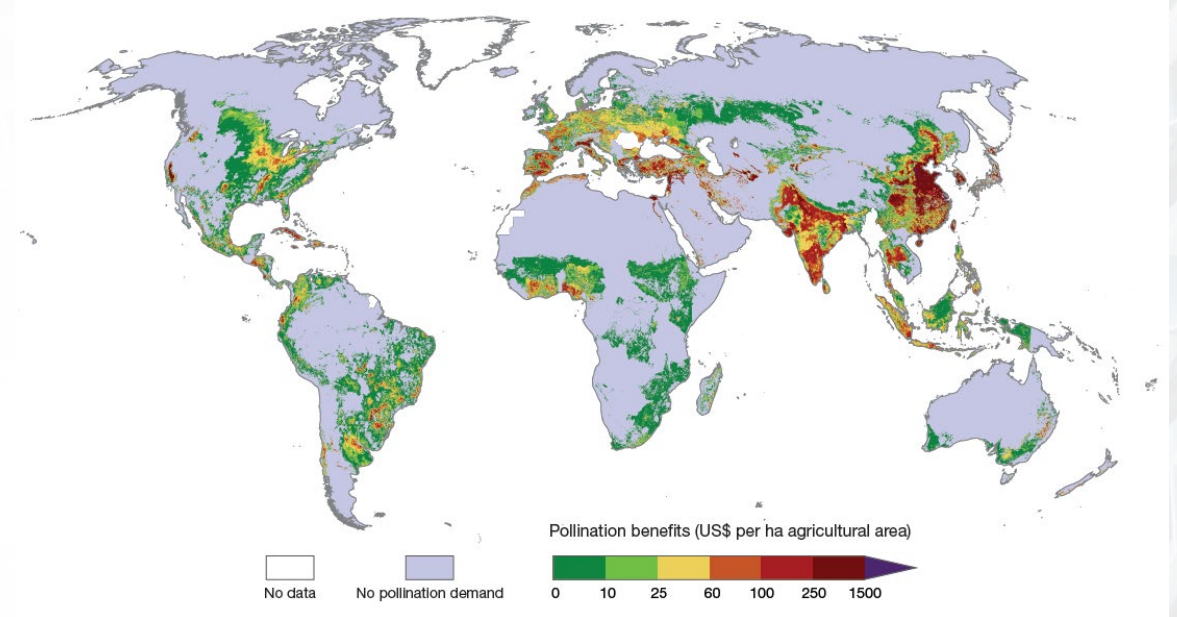
Valuing Pollinators

The total global value of crop pollination is estimated at **\$235-\$577bn/year**

Area of pollinator dependent crops has grown by **>70% since 1961**

Global populations of **managed honeybees** are not adequate to supply pollination alone

These values represent the value to **primary agricultural production only...**



Valuing Pollinators in Trade

Europe imports **>€200M** of raw pollinated crops annually

- Coffee
- Soya
- Rapeseed
- Cocoa
- Tomatoes

Pollinator losses could significantly **increase prices** and **reduce producer profits** around the world.

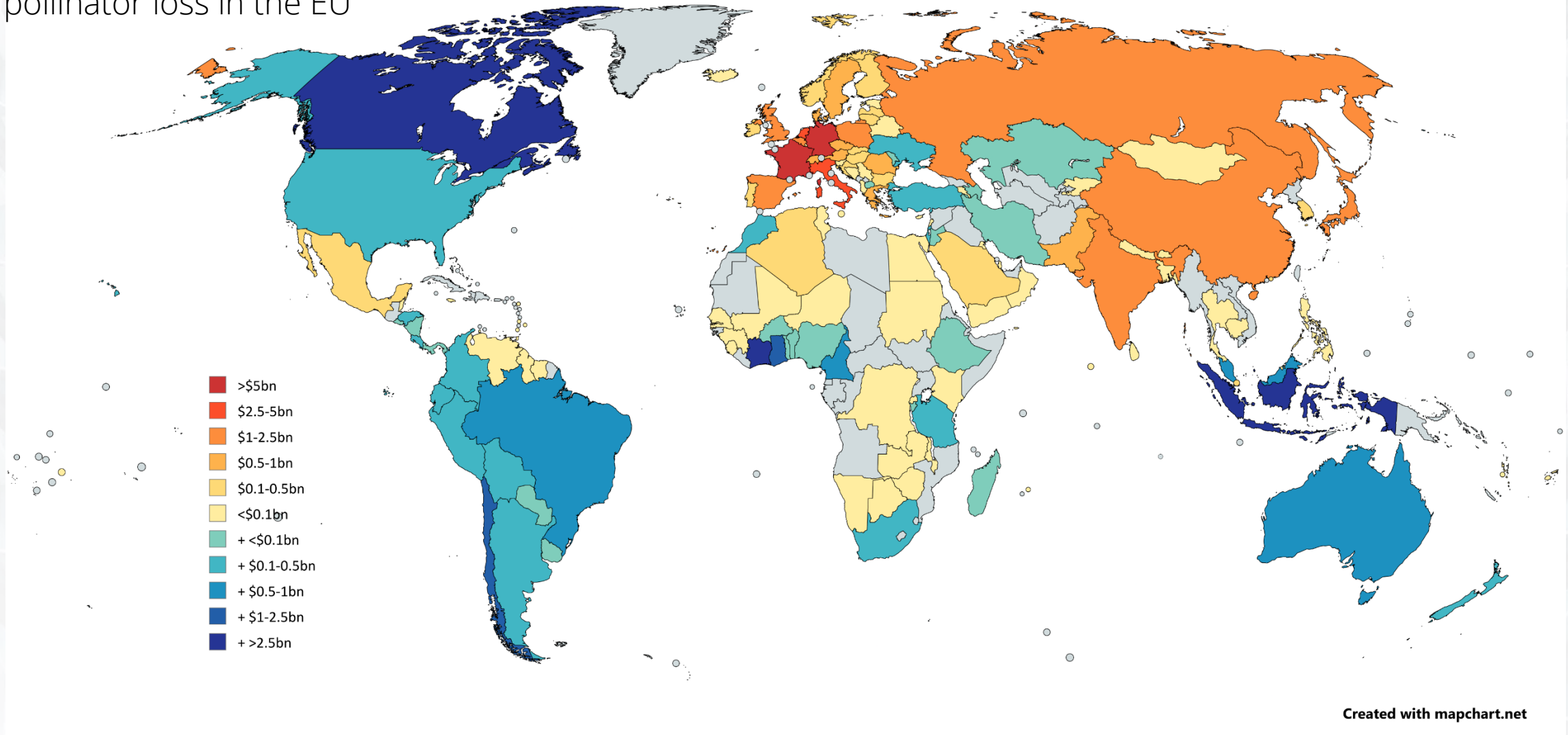
This can have a significant effect on the **availability** & **affordability** of nutritious food.

Pollinator shocks are a threat to global food systems



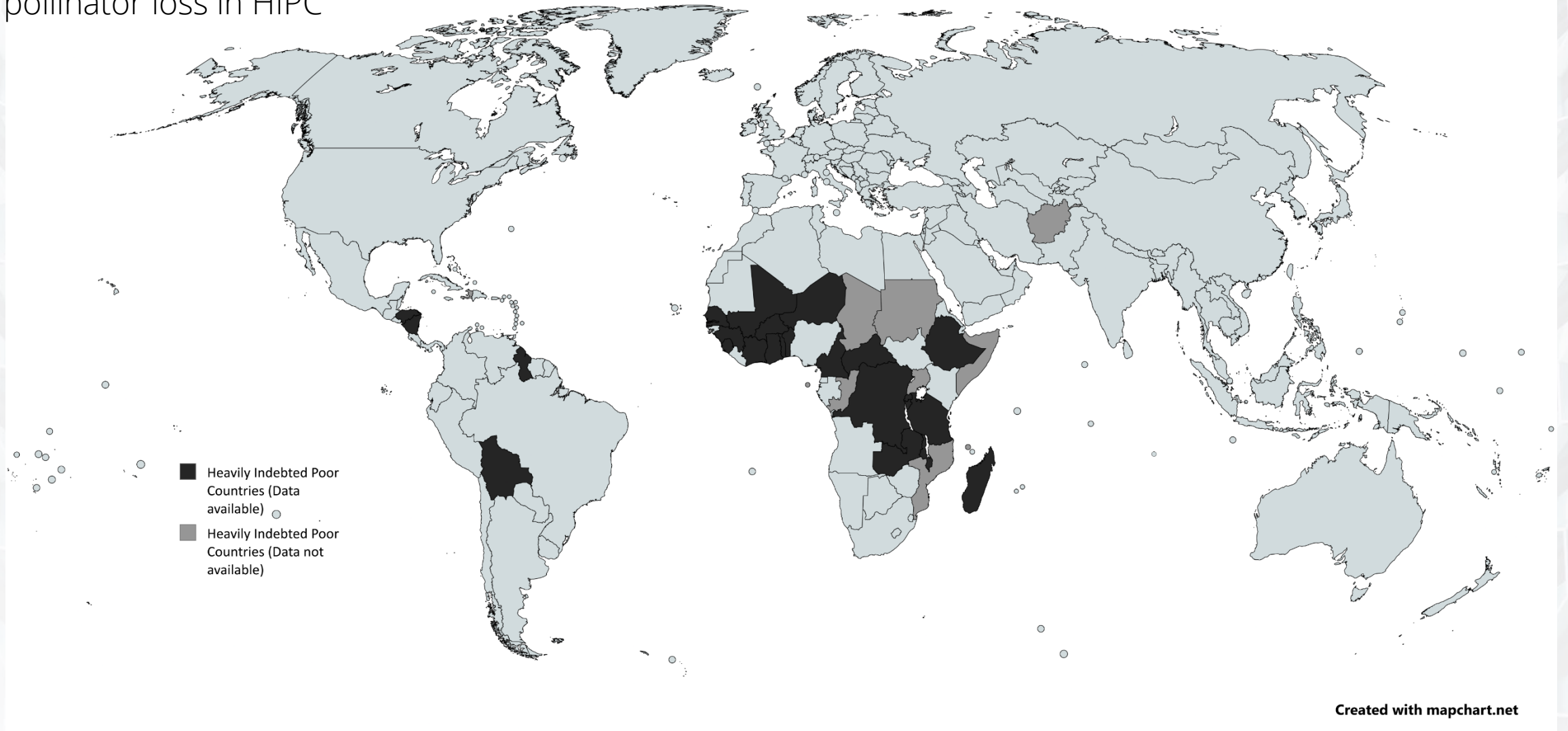
Valuing Pollinators in Trade

Global Impacts of
pollinator loss in the EU



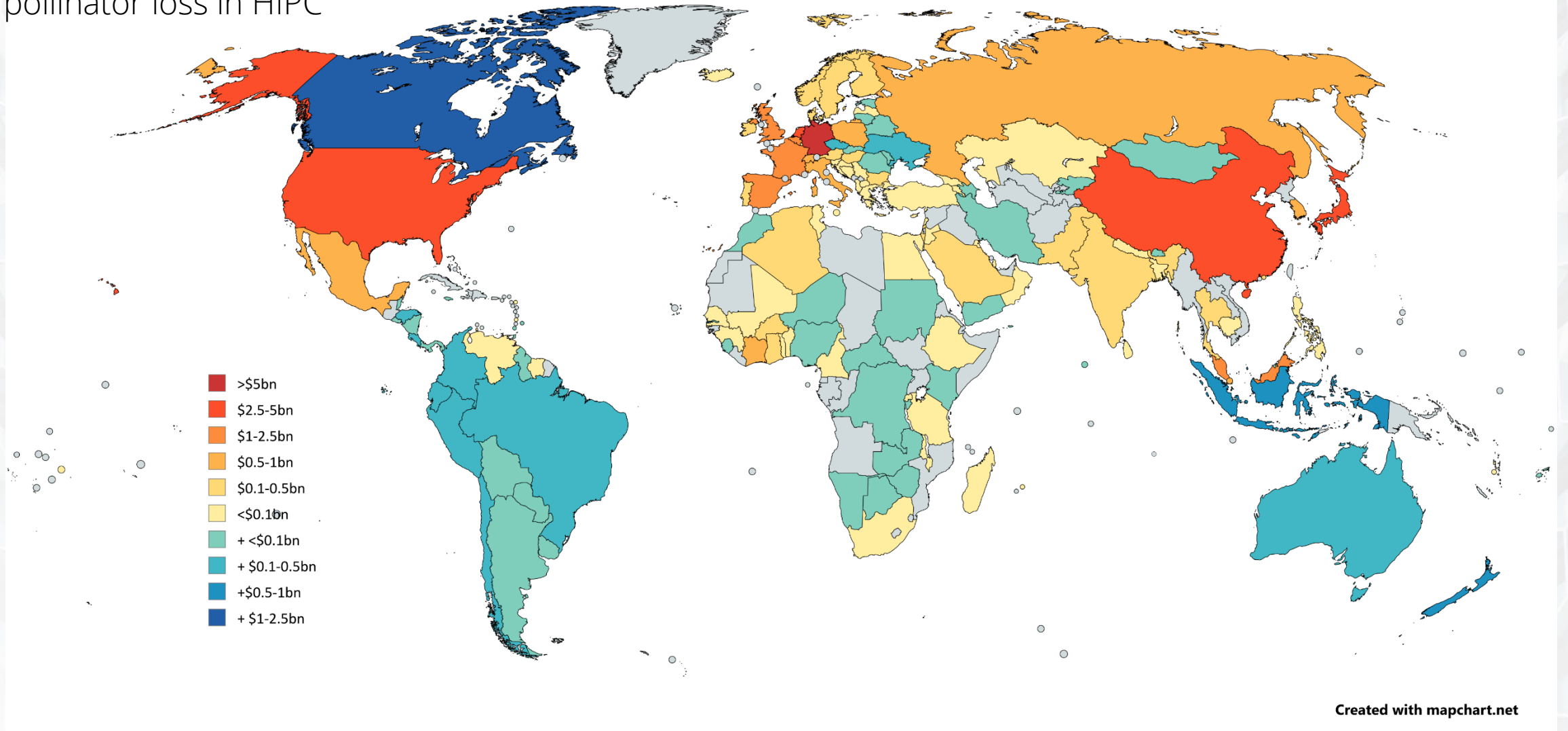
Valuing Pollinators in Trade

Global Impacts of
pollinator loss in HIPC



Valuing Pollinators in Trade

Global Impacts of
pollinator loss in HIPC



Valuing Pollinators in Value Chains

Crops are not just traded but **transformed** into higher value products by value chain actors

The value of pollination will increase along these chains with **higher benefits to processors and retailers.**

The **risks** these actors face from pollinator losses are not widely considered in their decision making

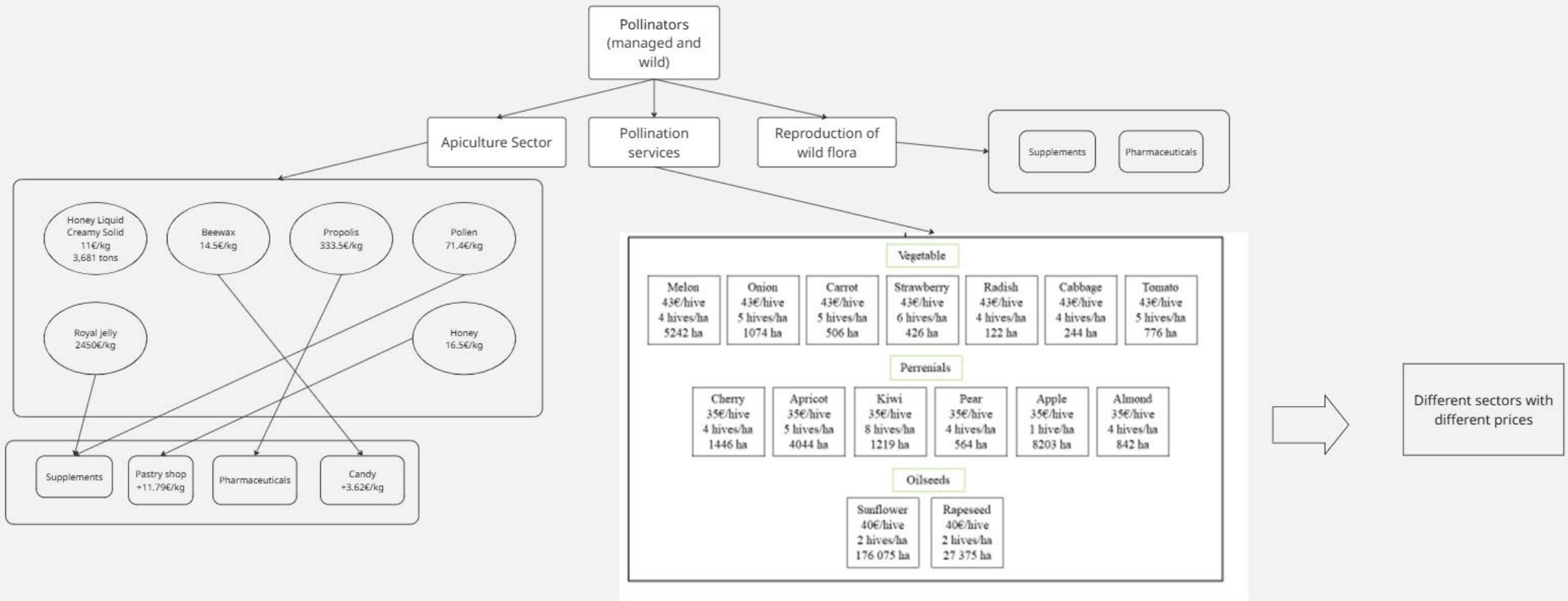
Different actors will also produce **different pressures** on pollinators

- **Directly** – through production practices
- **Indirectly** – through demand and purchase practices



Valuing Pollinators in Value Chains

[Occitanie Region – France: Value chain]



Managing Pollinators

- Pollinators can be managed through maintaining or restoring resources and through reducing their exposure to pressures such as agrochemicals.



Alternative farming systems



Targeted habitat interventions



Protected Areas

Managing Pollinators

- The EU has several policies that can support pollinators



Agri-Environment Schemes



Habitat protections



Bee health programmes

- + Eco-Schemes depending on the country: France --> €45.46/ha: $\geq 7\%$ of farm & $\geq 4\%$ of arable land in pollinator-friendly features (e.g., hedgerows, flower strips).

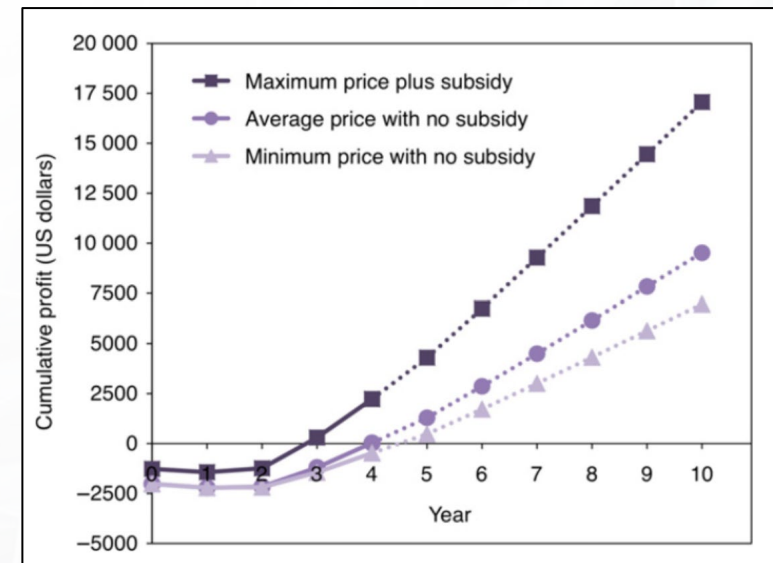


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Costs of Managing Pollinators

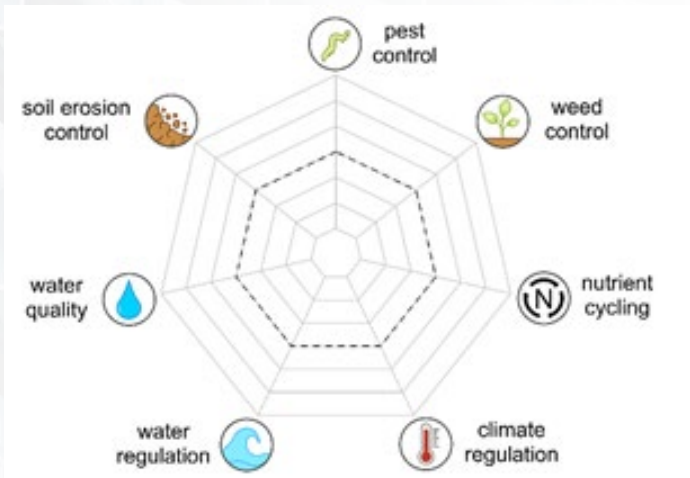
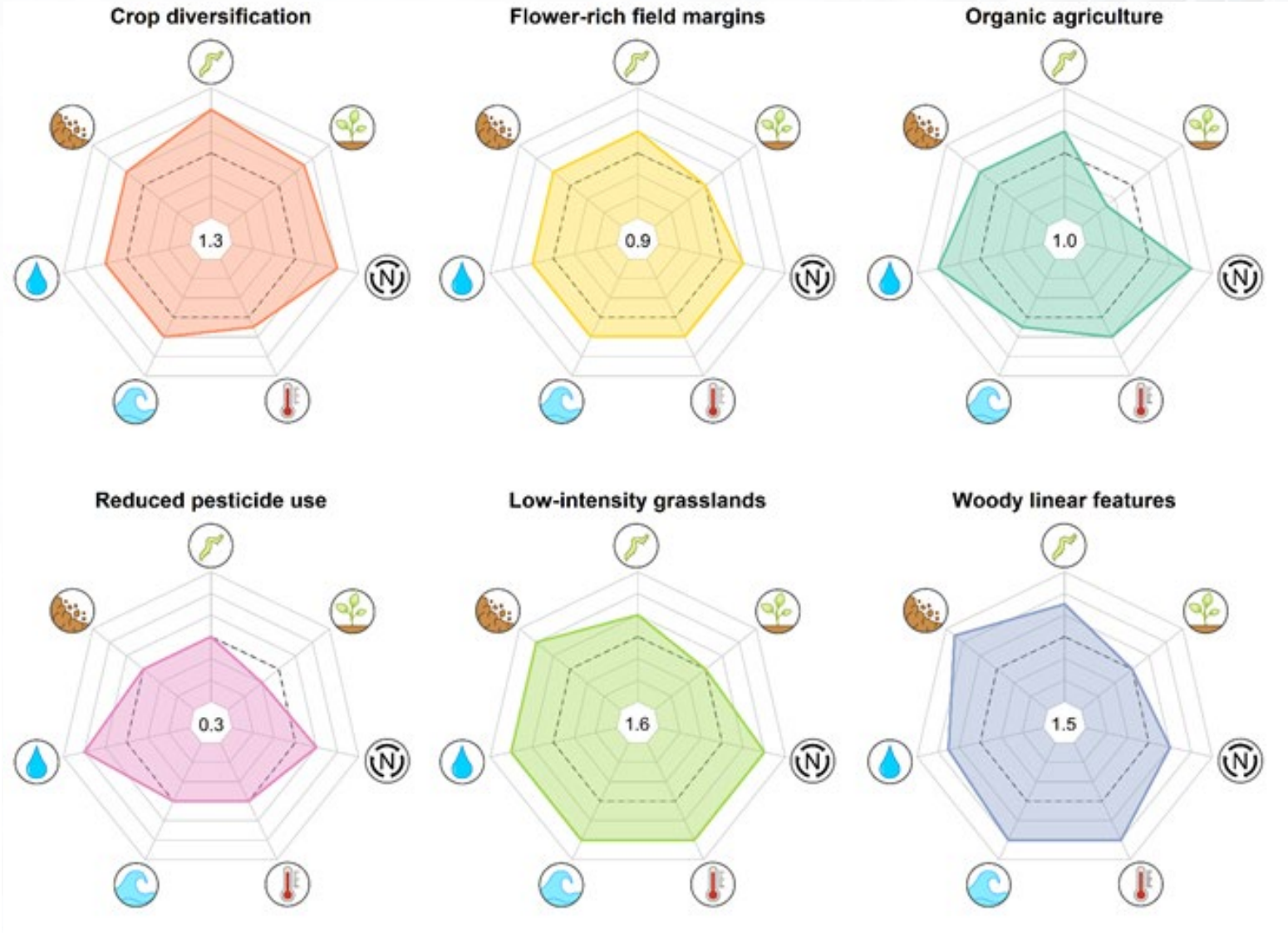
- Implementing these measures has many possible costs for land owners
 - **Direct costs** from undertaking new activities
 - **Opportunity costs** from removing land or accepting lower yields
 - **Transactional costs** from changing land use practices
- The economic benefits to farmers are uncertain
 - Many farmers do not benefit from pollination
 - Many crops only benefit to a modest extent
 - Inputs for many crops may have a stronger influence on yield
 - It may take years to see a return on investment

Despite years of evidence, uptake is limited



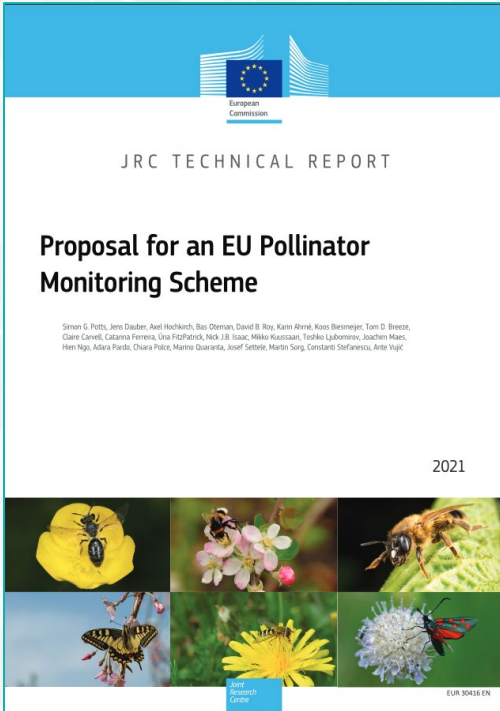
Moving Forward

- Pollinator conservation can have significant **co-benefits** to other ecosystem services
- Many of these are not well studied or communicated but **matter more to farmers**



Moving Forward

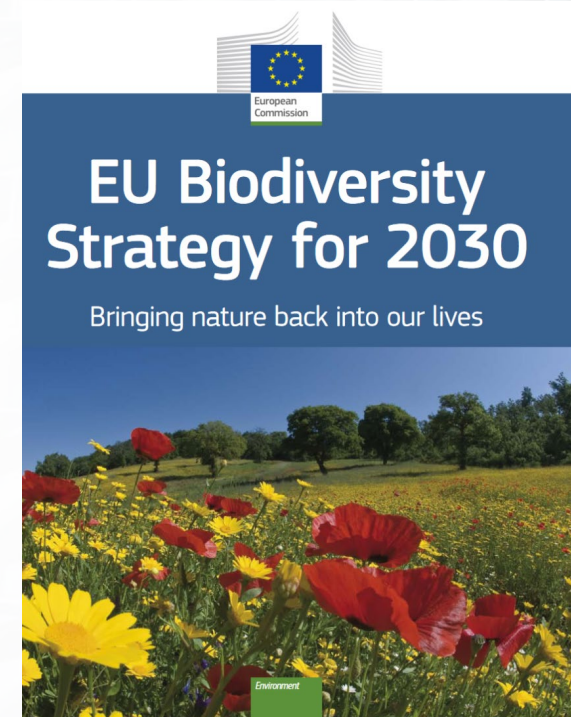
- Nature Restoration Regulation



Pollinator Monitoring



Targets for pollinator conservation



Improving & re-establishing habitats

This is only within the EU – not the whole food system



Moving Forward

- The Global Biodiversity Framework and EU Green Deal want to **increase private investment and accountability** around biodiversity impacts.
- Significant amounts of **Green Finance** are now available for companies to invest in nature.
- For many companies, investing in pollinator conservation should be cost-effective but...
 - Biodiversity is hard to measure and explain
 - Costs are obvious, but benefits are unclear
 - There are few standards to ensure trust and effectiveness



Kunming - Montreal

GLOBAL BIODIVERSITY FRAMEWORK



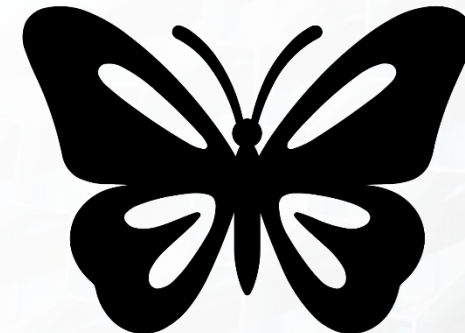
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Upcoming Research

- Developing business facing metrics to support mainstreaming pollinators into business risks
- Develop methods for companies to estimate the economic benefits of pollinators to their businesses
- Identify pathways, barriers and opportunities to engage value chain actors to support pollinator conservation.
- Develop new business models incorporating restoration measures and market channels
- Explore new market tools like ecolabels and certification standards that can provide trust and transparency



RestPoll



Questions to you

- 1) How can we capture the value of pollinators in a way that is useful to food businesses and other value chain actors?
- 2) How can we use this type of economic valuation to build links between land owners and other value chain actors?
- 3) What can public institutions like the EU do to better communicate and mainstream these values?



Thanks for your attention



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