

Nexus Assessment: Enabling biodiversity – food synergies

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The Intergovernmental Science-Policy Platform
on Biodiversity & Ecosystem Services



Food and Agriculture
Organization of the
United Nations



Many response options benefit multiple nexus elements

- Blue dots = positive impacts
- Red dots = negative impacts
- = no impact
- IC = inconclusive
- NE = no evidence

Conserve ecosystems

Restore ecosystems

Manage ecosystems

Consume sustainably

Reduce pollution



Nexus elements



Biodiversity



Water



Food



Health



Climate change

Integrate planning and governance

Manage risk

Ensure rights and equity

Align financing

Others

Figure SPM.8

Biodiversity response options positively impact the nexus elements

- Based on available evidence, **nearly all impacts** of biodiversity response options on the nexus elements are **positive**
- **Multiple nexus element benefits** for a given option
- **Minimal to no trade-offs** between elements for a given option

● Blue dots = positive impacts

● Red dots = negative impacts

■ = no impact
IC = inconclusive
NE = no evidence

						
B01	Area-based conservation	●	●	●	●	●
B02	Urban nature-based solutions*	●	●	●	●	●
C14						
B03	Agroecology*	●	●	●	●	●
C11						
B04	Ecosystem-based adaptation in rural landscapes	●	●	●	●	●
B05	Forest landscape restoration	●	●	●	●	●
B06	Restoration of coastal and marine systems	●	●	●	●	IC/NE
B07	Restoration of inland water systems	●	●	●	●	●
B08	Rewilding	●	●	●	●	●
B09	Integrated landscape and seascape approaches	●	●	●	●	●
B10	Rights-based approaches	●	●	●	●	●
B11	Multilateral environmental agreements	●	●	●	●	●
B12	Land and sea planning	●	●	●	●	●
B13	Natural capital accounting	●	●	—	●	●
B14	Reconnecting people with nature	●	●	●	●	●

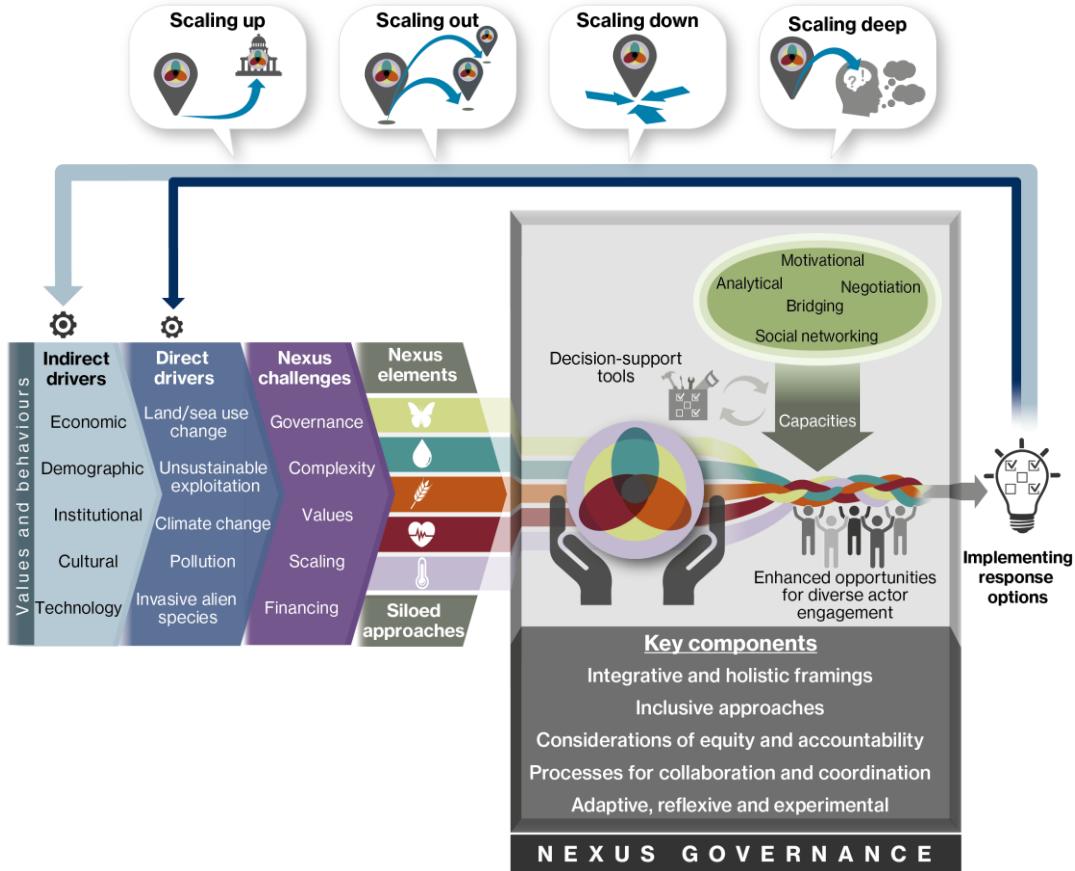
Case study: Herenboeren community-supported farms, The Netherlands

- **Agroecological practices (e.g., agroforestry) support:**
 - Better income, food and nutrition security
 - Improved soil health and soil organic carbon
 - Conservation of biodiversity and ecosystem services
 - Climate change adaptation and mitigation
- **Herenboeren community-supported farms:**
 - Builds stronger consumer-farmer partnerships
 - Produces healthy, sustainable, nature-based food
 - Uses agroforestry, short value chains and circular agriculture
 - Enhances soil quality and biodiversity
 - Aims to scale from 8 farms -> 80+ across Europe



		Butterfly	Water drop	Wheat	Heartbeat	Thermometer
B03	Agroecology*	●	●	●	●	●
F02	Restore soil health	●	●	●	●	●
F11	Sustainable healthy diets*	●	—	●	●	●

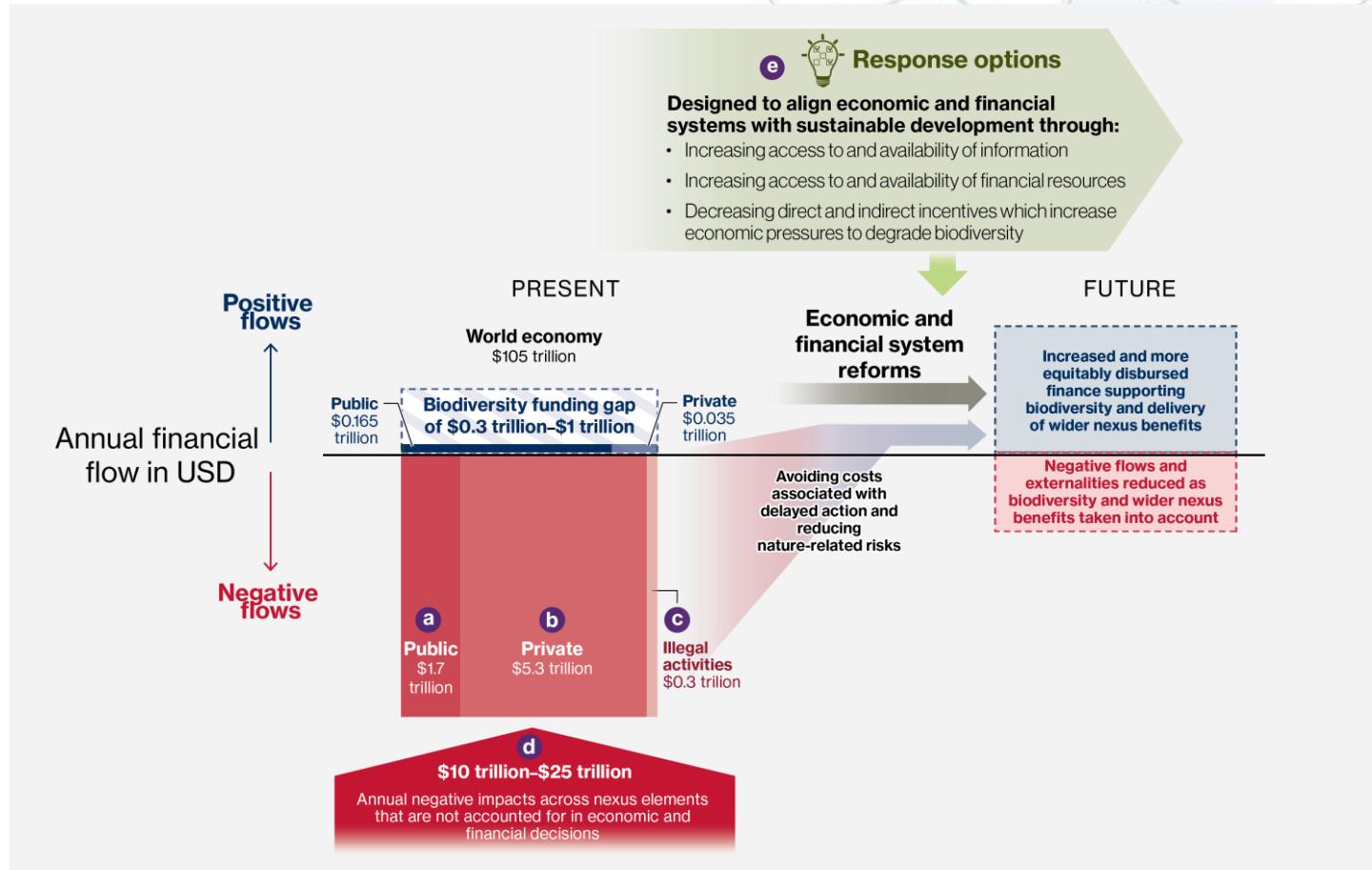
Scaling helps accelerate the adoption, implementation and amplification of response options



Nexus governance approaches support the implementation of response options by enabling integrated, inclusive, equitable and adaptive policies and actions

Figure SPM.11

Transformation of economic and financial systems support implementation of response options



Conclusions

- Biodiversity is essential for our water and food supplies, our health and wellbeing, the stability of our climate and our economy
- A wide range of response options are available now for tackling our crises together
- Many response options that have high benefits for biodiversity are mainly managed or designed by other sectors, highlighting importance of mainstreaming biodiversity considerations
- Evidence and tools are available to support decision-makers in developing integrated decisions and actions
- Economic, financing and governance systems need to evolve towards holistic and integrated approaches to help resources flow towards supporting and restoring biodiversity and related co-benefits across nexus elements





For further information:
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Thank you!
¡Gracias!
Merci!

Find the Summary for
Policymakers here:

