



Assessment Report on Interlinkages among Biodiversity, Water, Food and Health

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The Intergovernmental Science-Policy Platform
on Biodiversity & Ecosystem Services

#NexusAssessment



Food and Agriculture
Organization of the
United Nations





1 ■ Introduction to the assessment report



Production of the nexus assessment

- **Produced over a period of three years**
 - Three author meetings
 - Four meetings to advance the summary for policymakers
 - Two external reviews and an additional Government review of the summary for policymakers
- **Assessing knowledge of the interlinkages among nexus elements**
 - The assessment draws on 6,500 sources of knowledge, including peer-reviewed literature, grey literature and Indigenous and local knowledge
 - Includes references and data sources from all IPBES regions
 - The assessment fully considers the IPBES conceptual framework, including the components and interactions represented therein
 - The assessment recognizes and considers different world views, values and knowledge systems

Assessment team

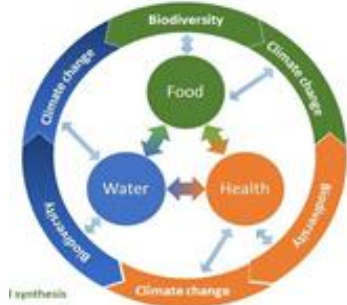
- **165 selected experts**

- Co-chairs: 2
- Coordinating lead authors: 27
- Lead authors: 110
- Review editors: 13
- Fellows: 13
- Contributing authors over 70
- Experts from 57 countries from all regions of the world

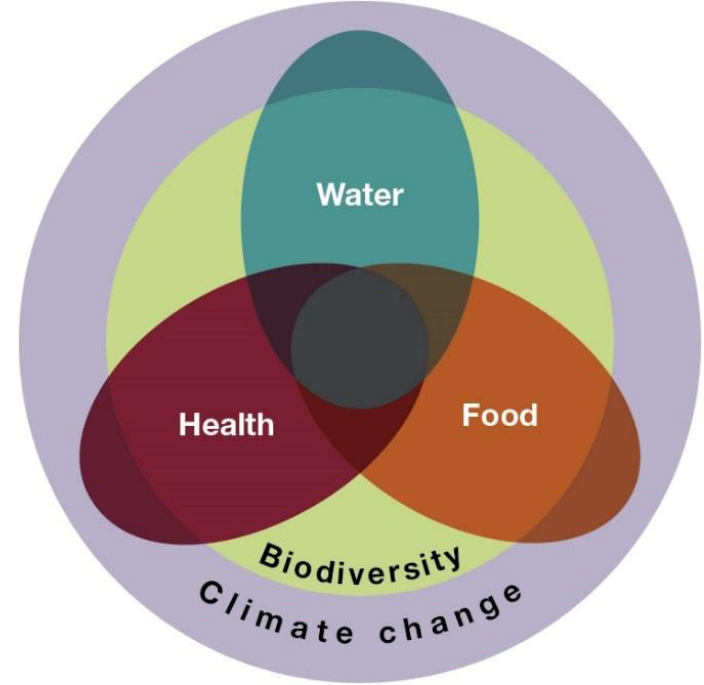
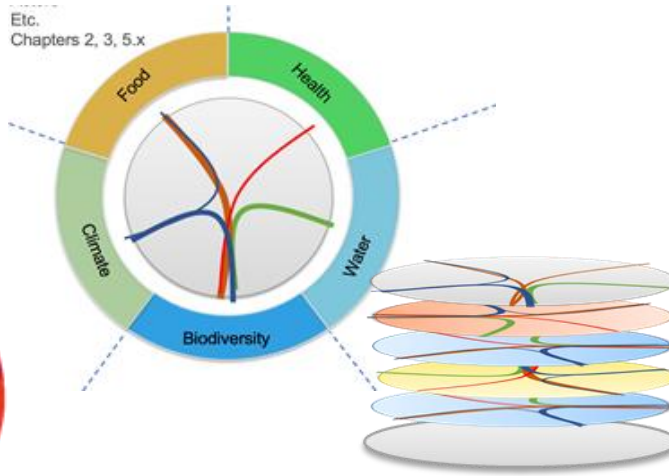
- **Technical support unit**
- **Management committee**

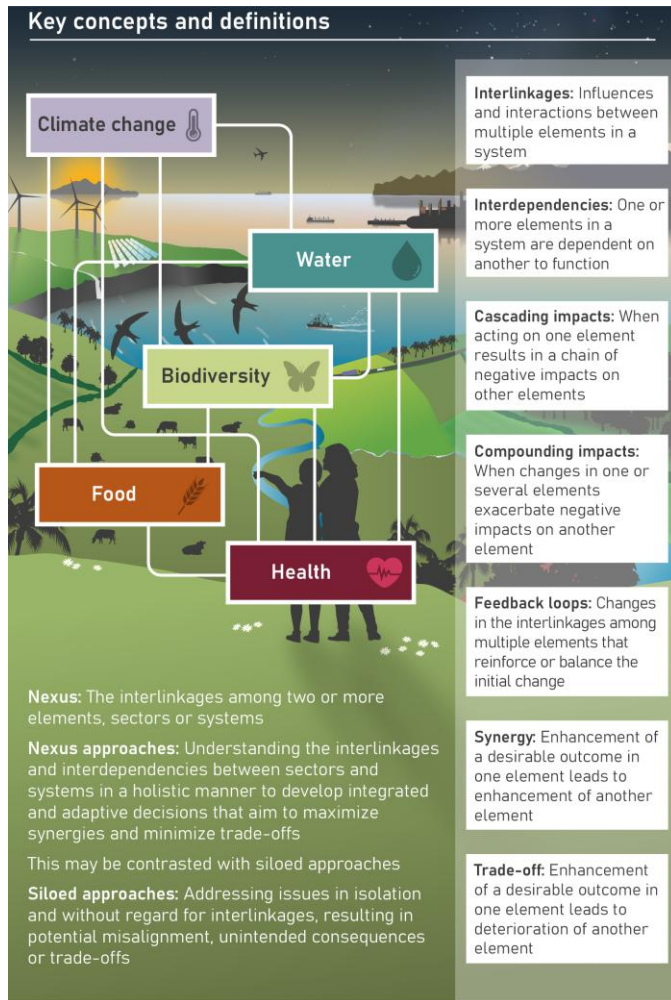


Conceptual understanding of the nexus



Etc.
Chapters 2, 3, 5.x





Décloisonner les problématiques grâce à une prise de décision intégrée et adaptative

- Se concentre sur la gouvernance qui serait adaptée à la réalisation d'un avenir juste et durable, en proposant une feuille de route pour la « gouvernance du nexus »



>50%

Global population living in areas experiencing highest impacts from biodiversity decline, water availability and quality and food security, and increases in health risks and negative effects of climate change.

IPBES Nexus Assessment Report

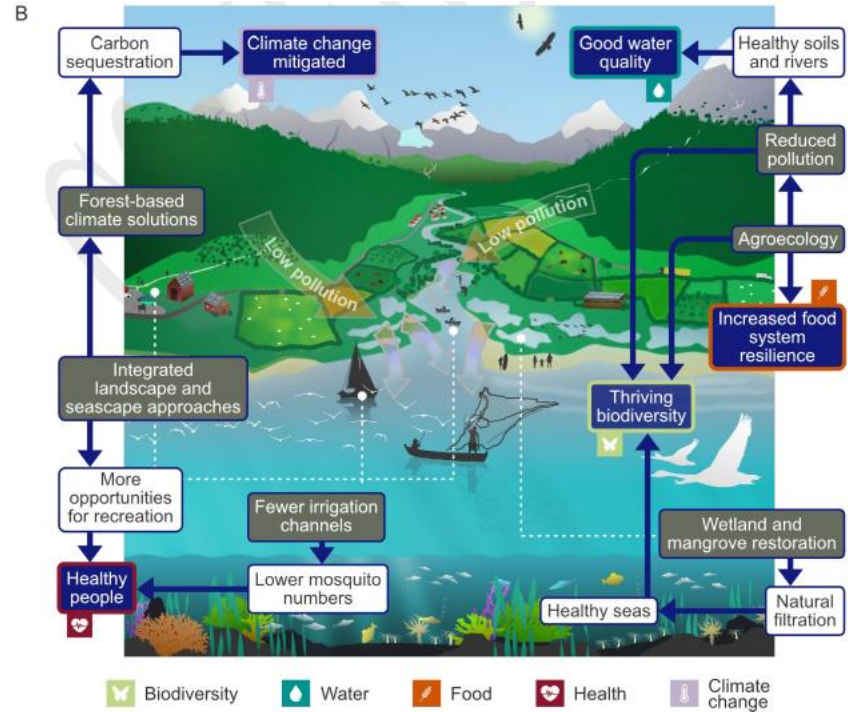
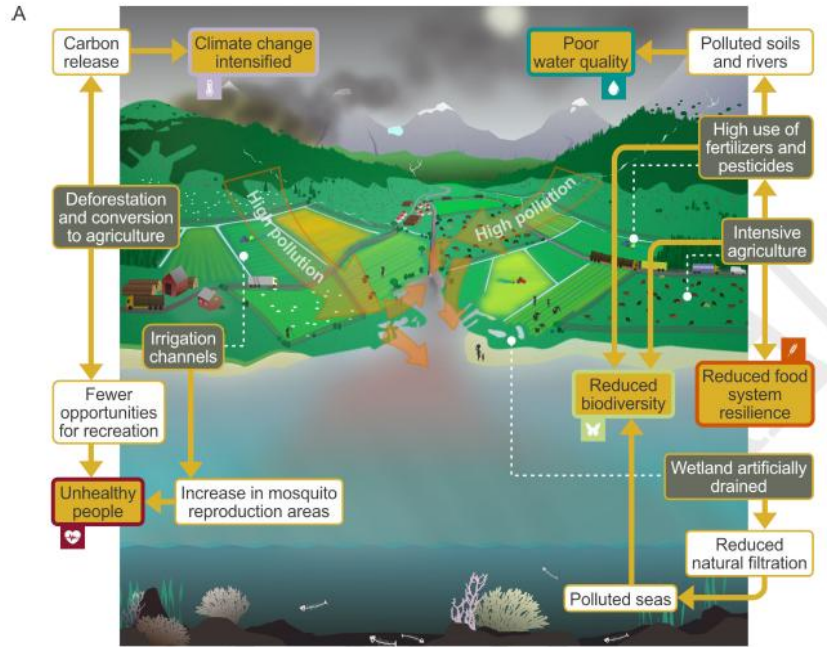


>50% of the world's population lives in areas experiencing the highest impacts of multiple crises - from biodiversity loss to food insecurity, water scarcity, pollution, health issues

we need integrated solutions

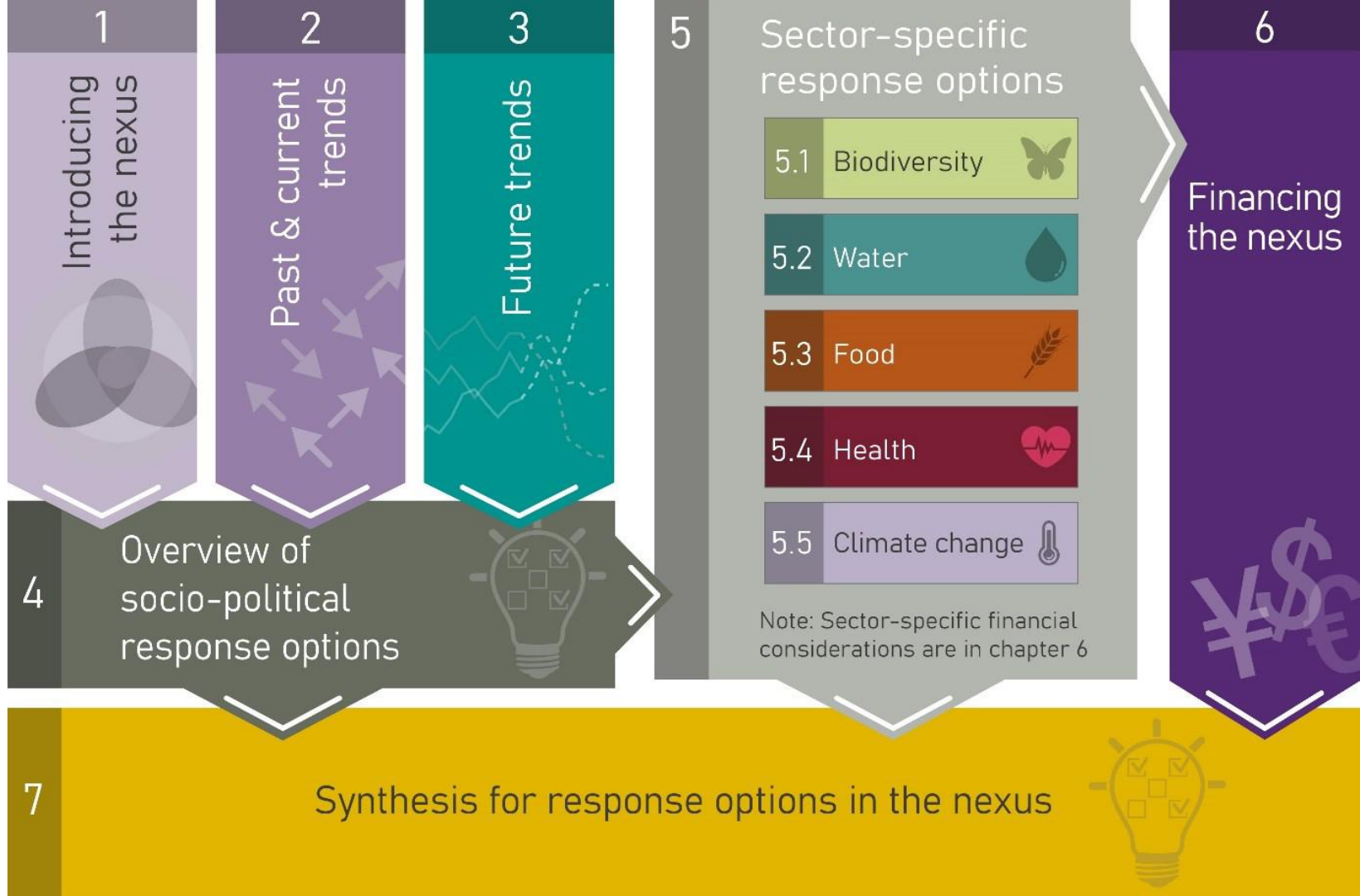
Simplified comparative landscapes illustrating (A) siloed and (B) nexus approaches to managing the interlinkages among biodiversity, water, food, health and climate change.

Please do not cite, quote or circulate.



Biodiversity Water Food Health Climate change

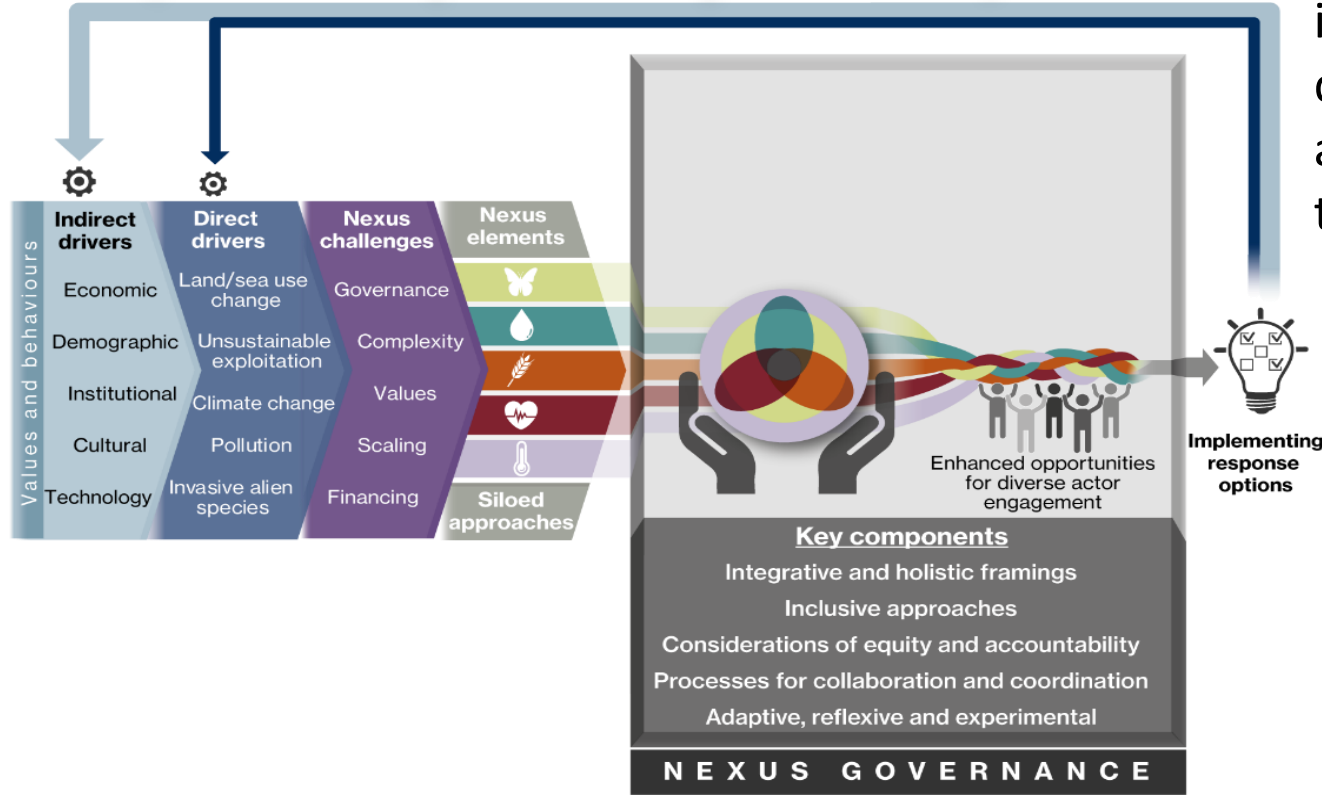
(drawings not to scale)



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



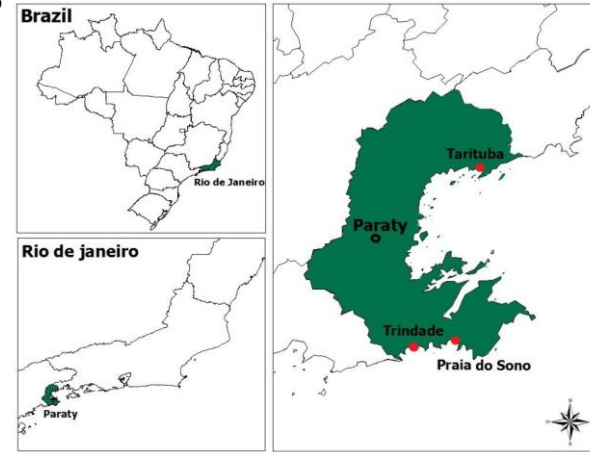
Nexus governance
can address
indirect & direct
drivers of change
as an alternative
to siloed approach



Paraty Bay, Brazil: Caiçara Communities Contribute to Fisheries and Terrestrial Biodiversity Conservation

In the 1980s, top-down creation of protected areas with a predominant focus on biodiversity rather than nexus elements or inclusion of social concerns hindered nexus governance and marginalized vulnerable communities dependent upon those areas for food, livelihoods and well-being. A restrictive Marine Protected Area in locations traditionally used by local small-scale fishers in Paraty, Brazil, illustrates a key nexus challenge between biodiversity conservation and local livelihoods, including the food and health nexus elements. Extensive knowledge gaps in socio-economic and cultural aspects related to coastal and marine biodiversity and NCP meant that traditional knowledge holders, fishers and other users of local resources were marginalized from decisions.

Efforts are underway, in all three communities, to ensure community rights to access resources within protected areas (PAs) and contribute to community conservation of both fisheries and terrestrial resources. These efforts are supported by local and university partners, the latter being UNICAMP (Brazil)



Future nexus interactions

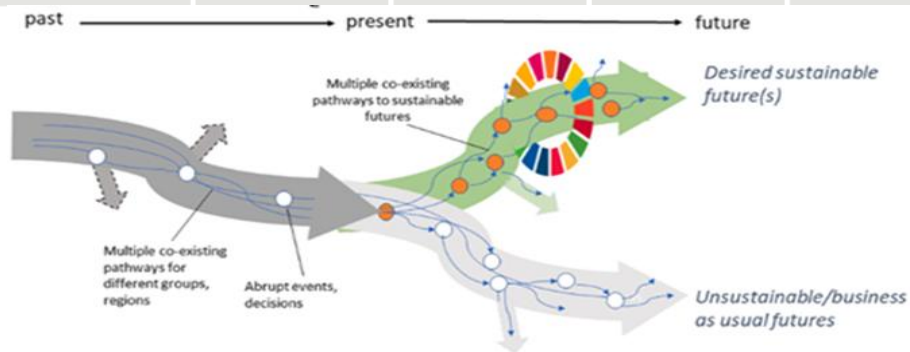
- Continuation of current trends in direct and indirect drivers will result in **substantial negative outcomes for biodiversity, water, food, and health while exacerbating climate change**
- Scenarios that **prioritize a single nexus element** without regard to other elements **result in trade-offs across the nexus**
- Positive outcomes for people and nature are feasible** and include **integrated and timely adoption of multiple response options**

A PROJECTED FUTURE IMPACTS ON THE NEXUS ELEMENTS

Nexus archetype	Nexus element					Impacts on each nexus element under each nexus archetype
	Biodiversity 	Water 	Food 	Health 	Climate 	
1. Nature-oriented nexus	▲▲▲	▲▲	▲	▲	▲▲	▲▲▲ Highly positive
2. Balanced nexus	▲	▲	▲▲	▲▲	▲	▲▲ Moderately positive
3. Conservation first	▲▲	~	▼▼	~	▲	▲ Slightly positive
4. Climate first	▼	~	▼▼	▲	▲▲	~ Variable
5. Food first	▼▼	▼	▲▲	▲	▼▼	▼ Slightly negative
6. Nature overexploitation	▼▼	~	▼▼	▼	▼▼	▼▼ Moderately negative
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Governing the nexus for achieving just and sustainable futures

- Integrative, inclusive, equitable, accountable, coordinated and adaptive approaches to governance can enable successful implementation of response options
- Transformation of economic and financial systems can facilitate greater investment across the nexus, enhance financial stability and equity, and deliver sustainable development outcomes
- A road map for nexus action can be used by a wide range of actors in multiple sectors to work collaboratively towards solutions to help achieve just and sustainable futures

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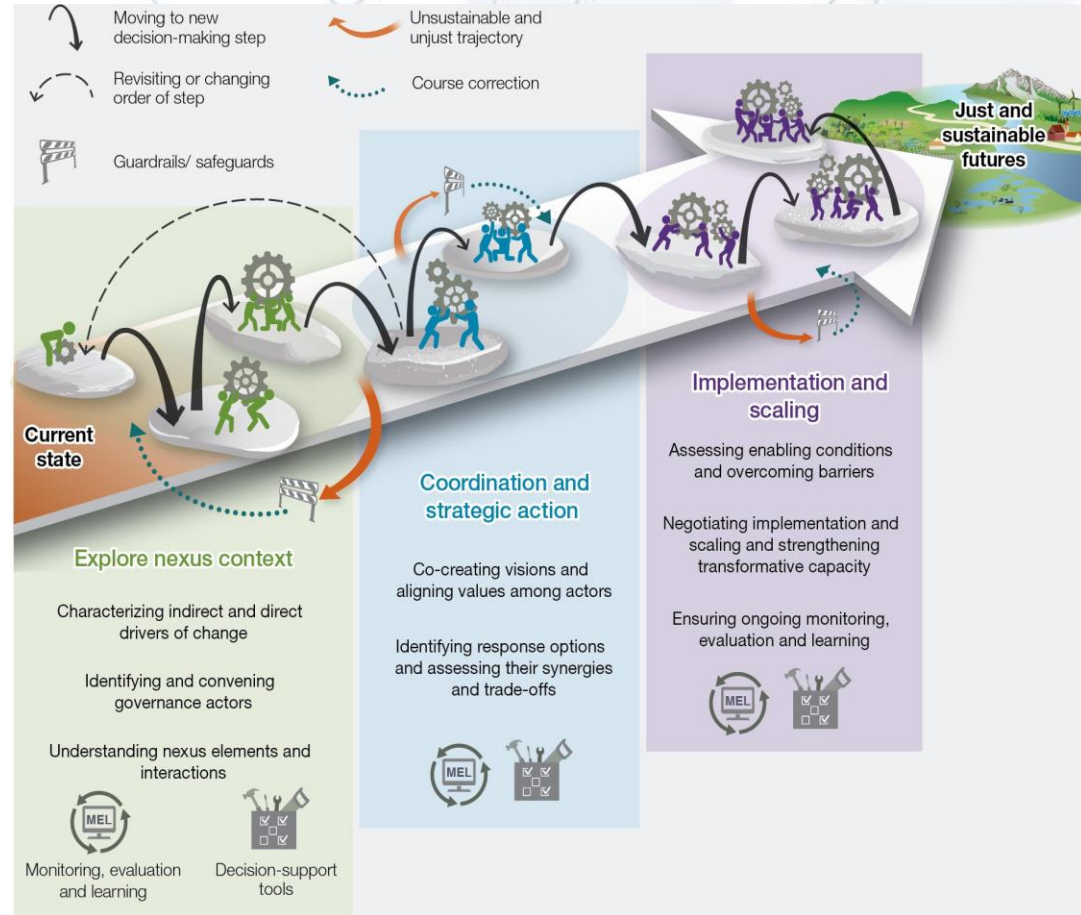


Figure SPM.13

Relevancy for addressing global crises and challenges

The assessment:

- Provides **decision-makers, including policymakers and a large diversity of stakeholders**, with the **best-available evidence** on the **interlinkages among biodiversity, water, food, health and climate change**
- Provides guidance on how **economic, financing and governance systems** can evolve towards **holistic and integrated approaches**
- Recognizes and emphasizes the **role different actors** have in **addressing global crises challenges**
- Inform more **integrated decisions and actions to support multilateral agreements** (e.g., the 2030 Agenda for Sustainable Development, the Kunming-Montreal Global Biodiversity Framework and the Paris Agreement)





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Thank you!

¡Gracias!

Merci!