Succeeding with the resource transformation:

Sustainable resource use as the missing link to deliver on the SGDs

Hans Bruyninckx | GIZ Future Forum | 26 September, 2023

The IRP … (more than) the other Panel!

The International Resource Panel – IRP :

- **Launched in 2007 by the UNEP**
- **A science-policy interface on the sustainable use of natural resources**

Panel Co-Chairs:

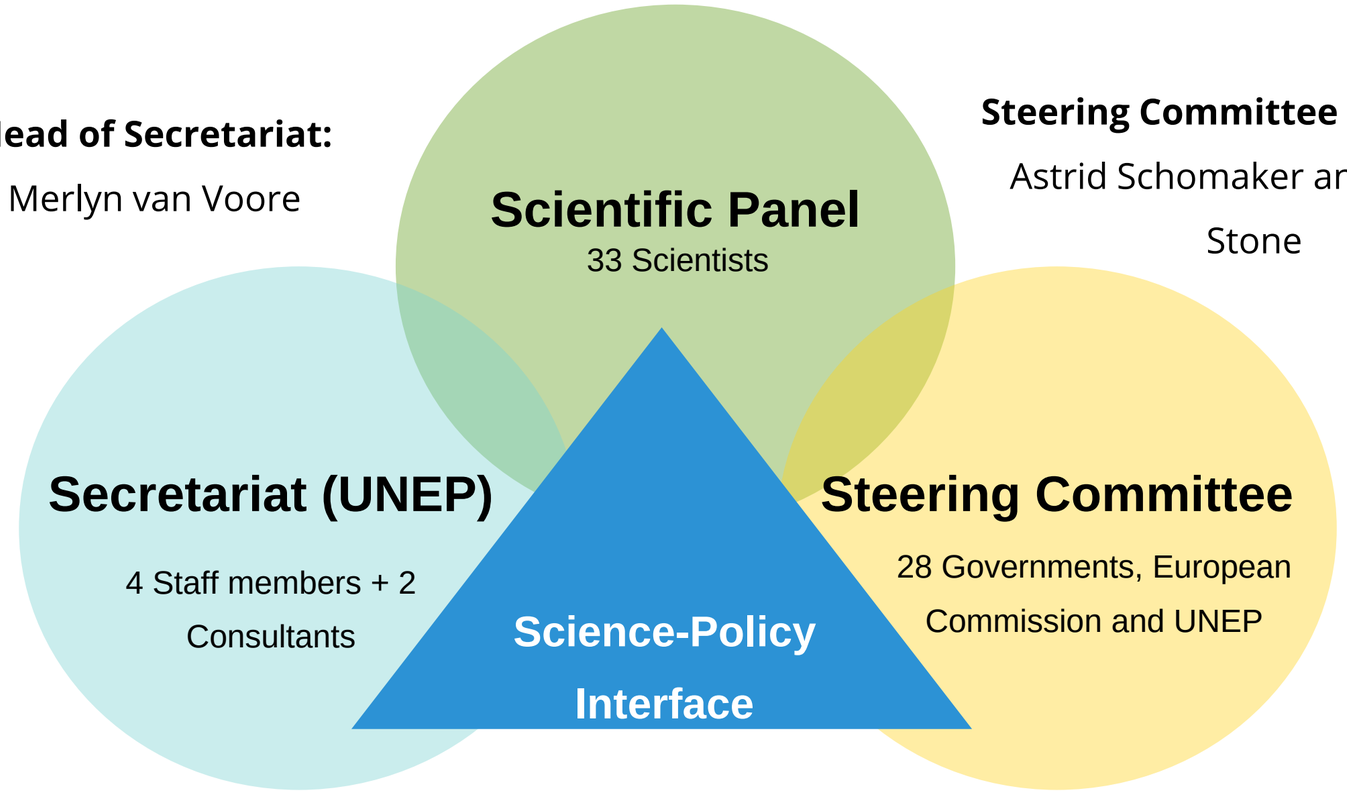
Janez Potočnik and Izabella Teixeira

Head of Secretariat:

Merlyn van Voore

Steering Committee Co-Chairs:

Astrid Schomaker and Steven Stone

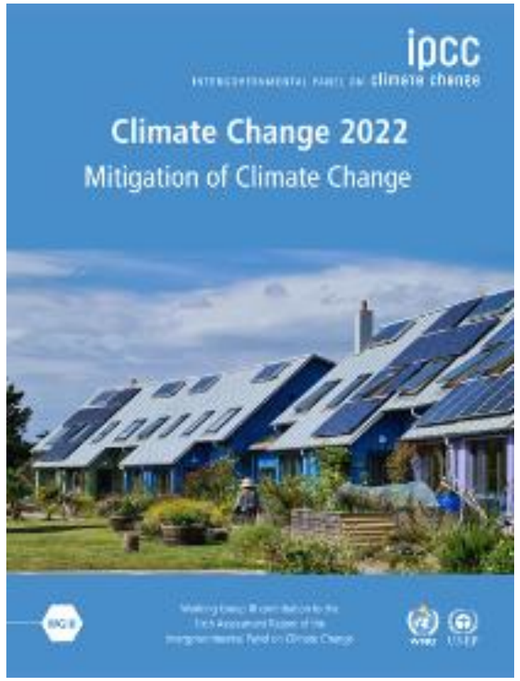


GRO 2024: the missing link

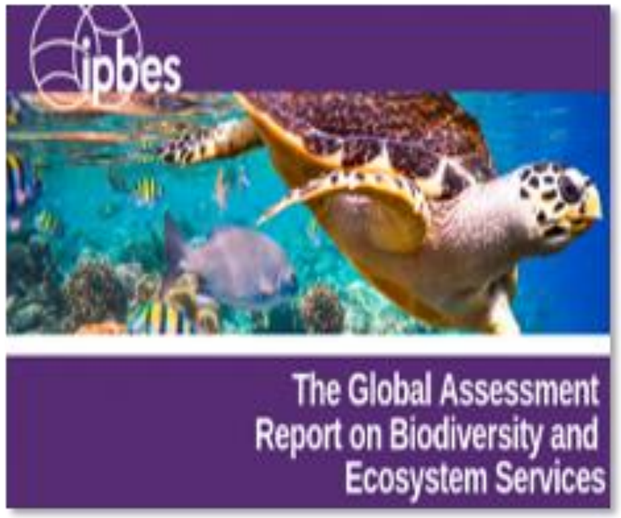
UN environment programme

International Resource Panel

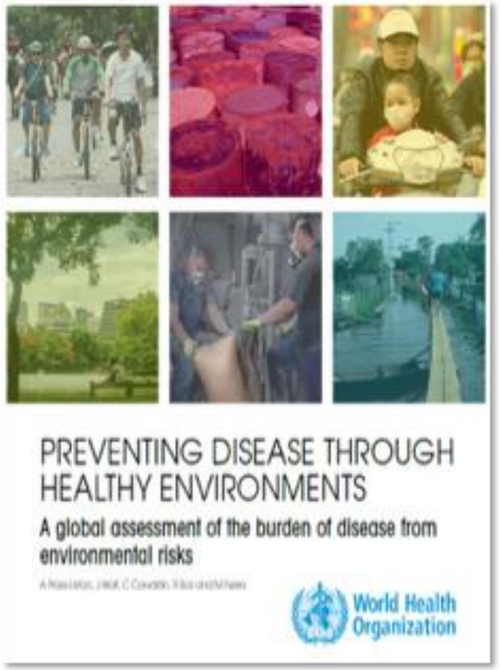
1. IPCC: Climate Change



2. IPBES: Biodiversity loss and Ecosystem Services



3. WHO: Environment and Health



4. IRP: Unsustainable Resource Use

IRP 2022-2025 High Impact Priority Areas

UN environment programme

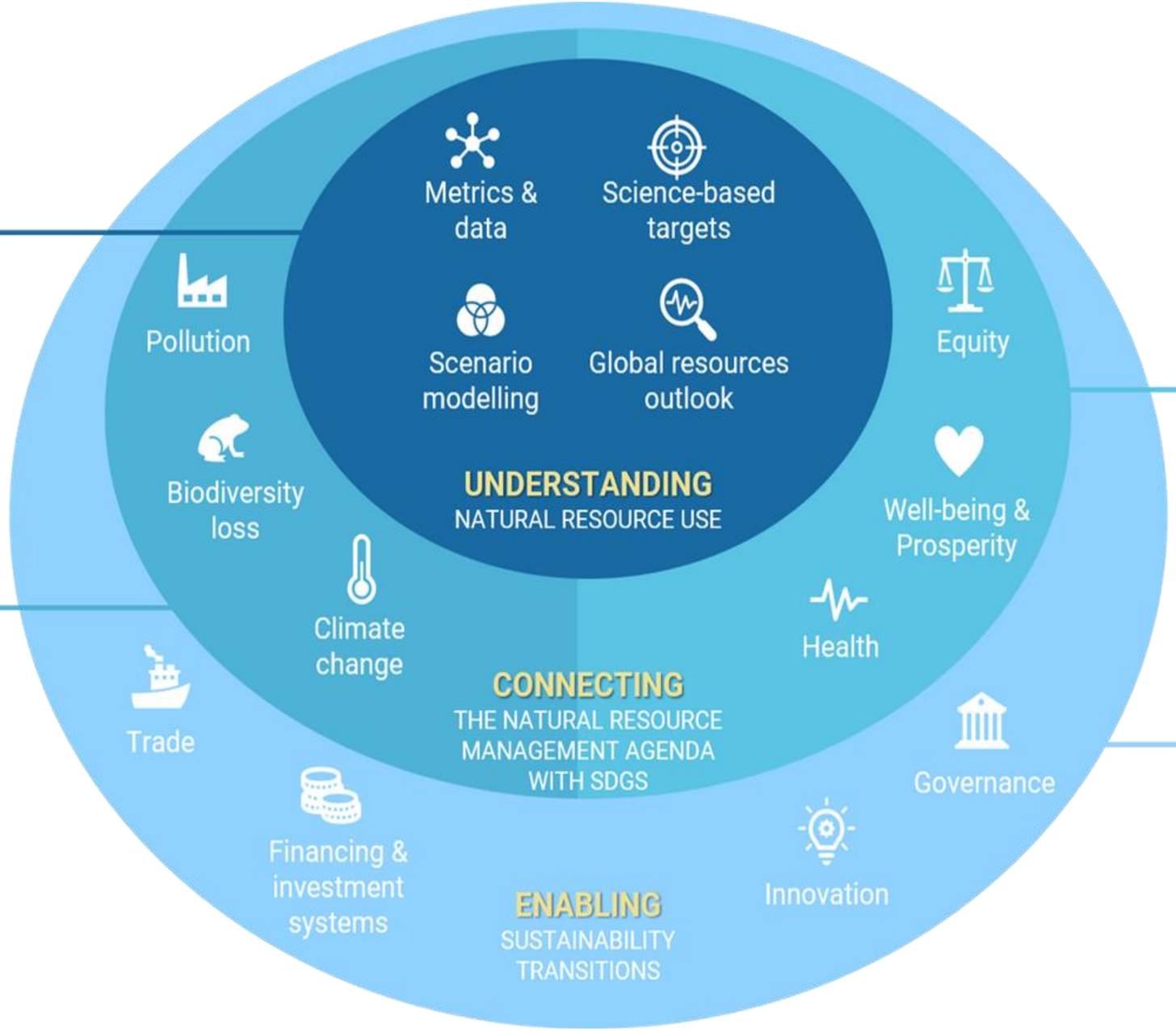
International Resource Panel

HIPA 1

Current trends and future prospects for **global resource use** and Sustainable Resource Management

HIPA 2

Sustainable Resource Management for effective action on **climate change, biodiversity and pollution**



HIPA 3

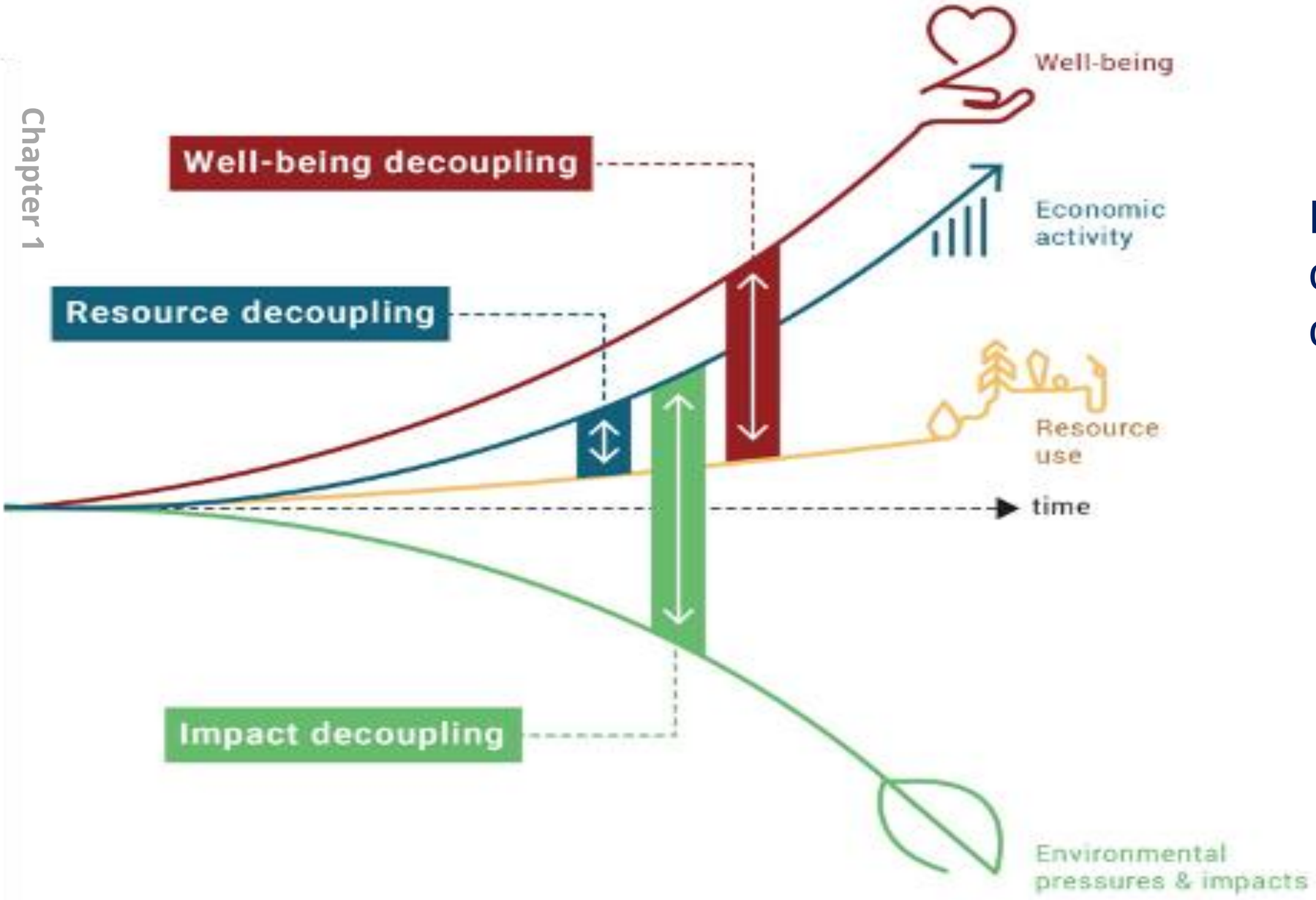
Sustainable Resource Management for effective action on human **health, well-being, prosperity and equity**

HIPA 4

Enabling sustainability transitions

Decoupling as a solution

Chapter 1

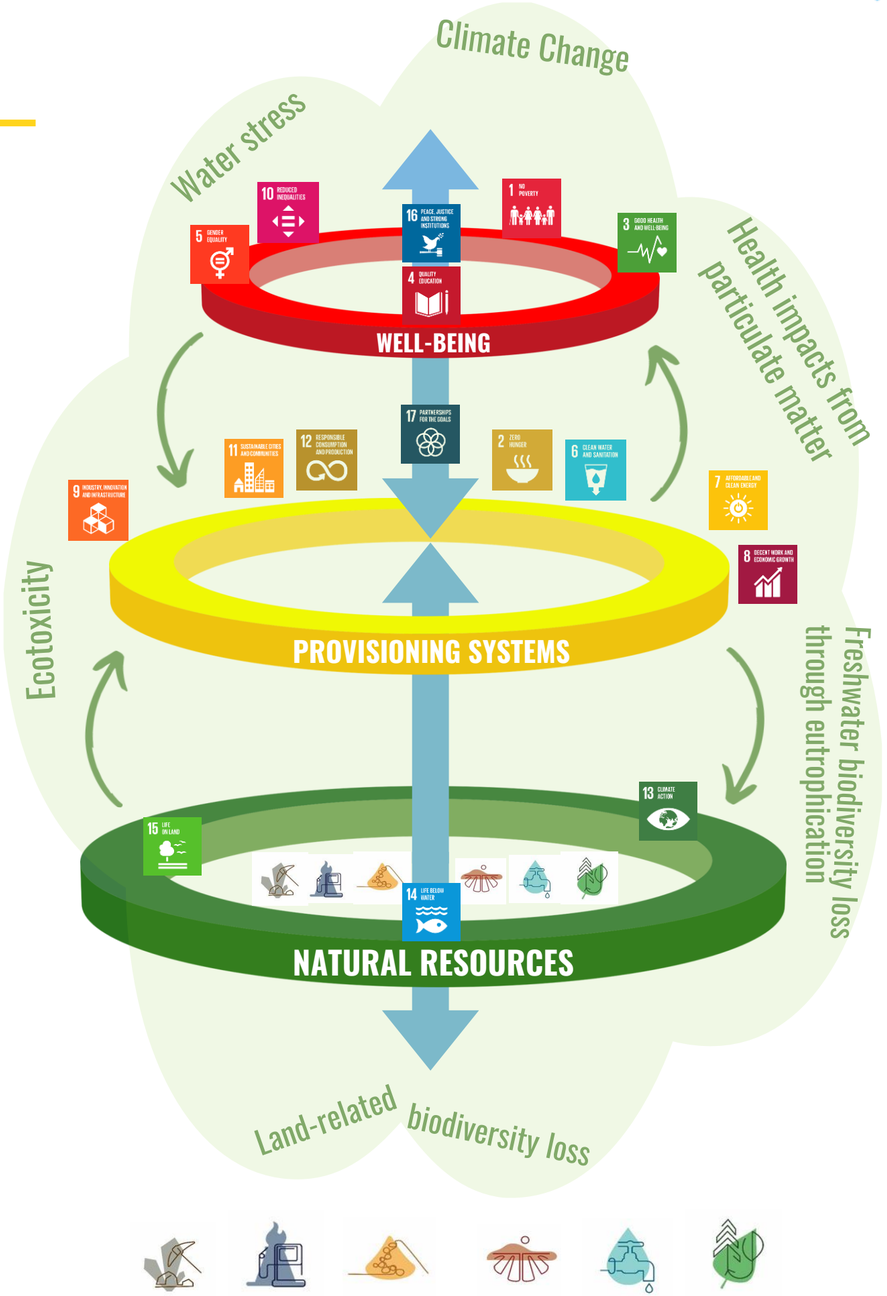


Expanding, refining, operationaising the concept of decoupling

Provisioning Systems Approach

Chapter 1

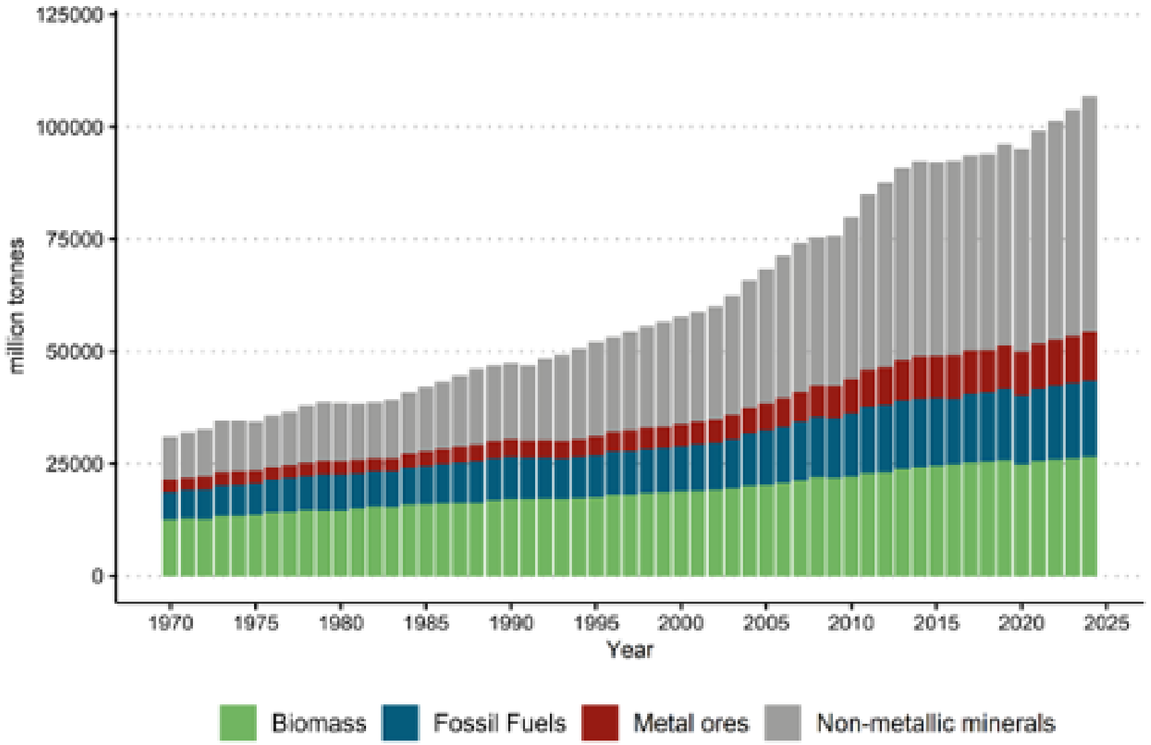
Adopting the concept of "provisioning systems" can enable an integrated and systemic



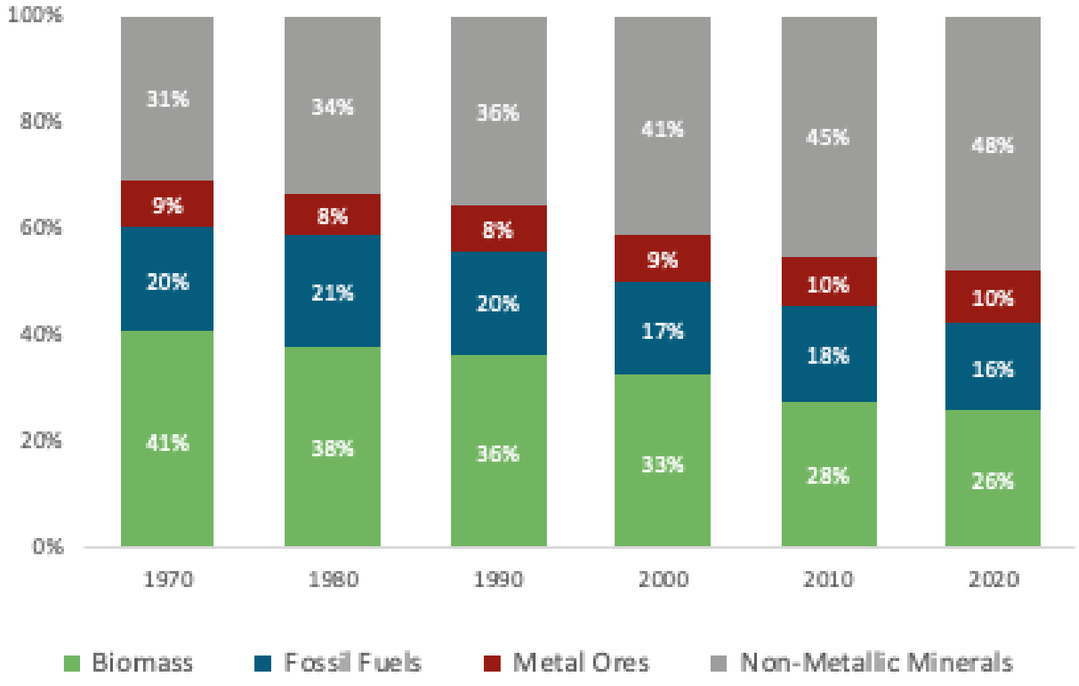
Drivers, pressures, and natural resource use trends

Chapter 2

Increased pressure on environmental systems due to continuous **urbanization** and **industrialization**



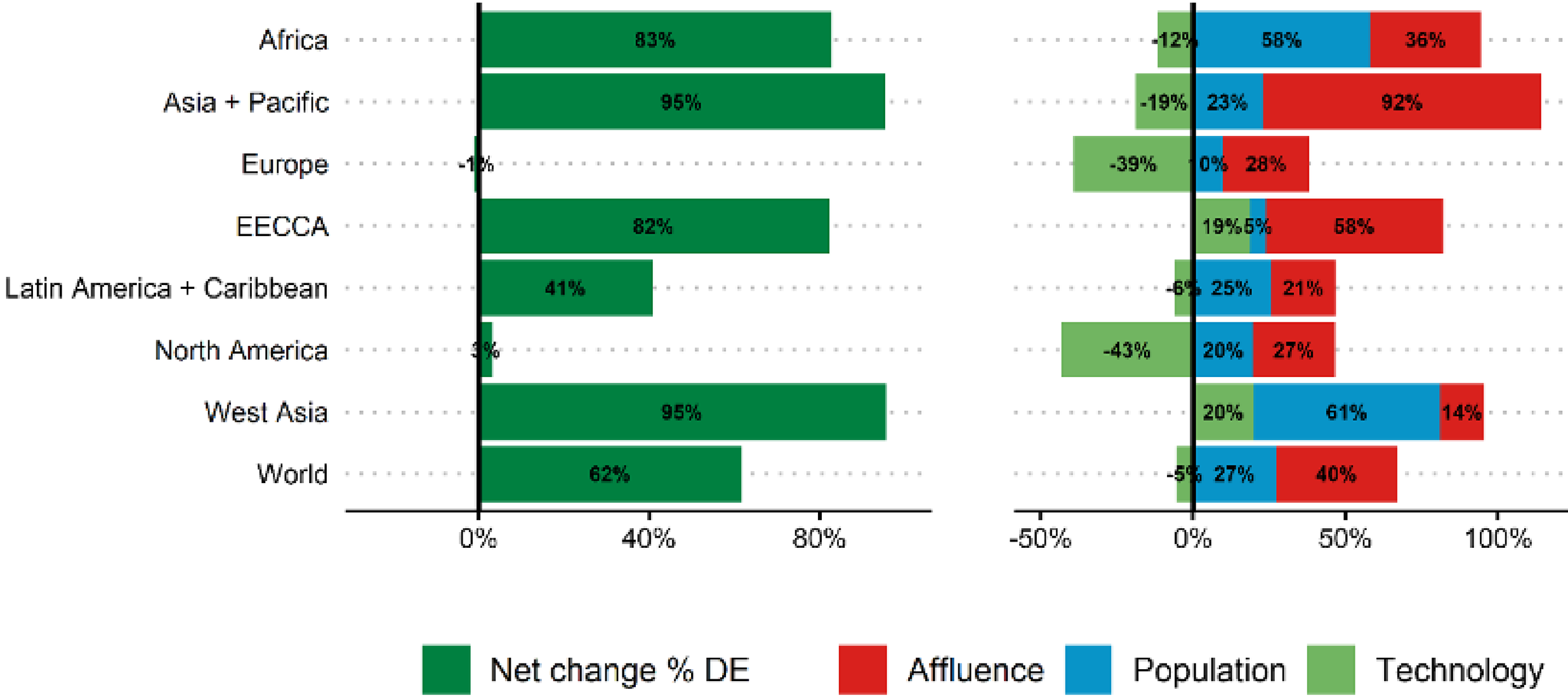
Global material extraction, four main material categories, 1970 – 2024, million tonnes.



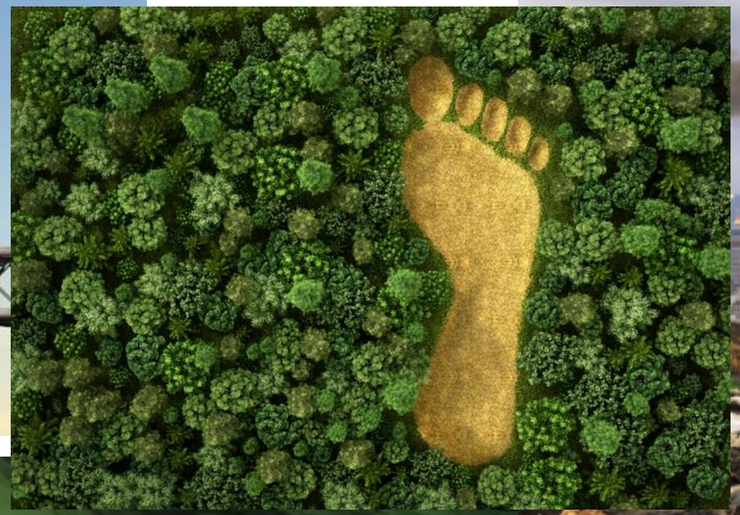
Global material extraction, four main material categories, 1970-2020, shares

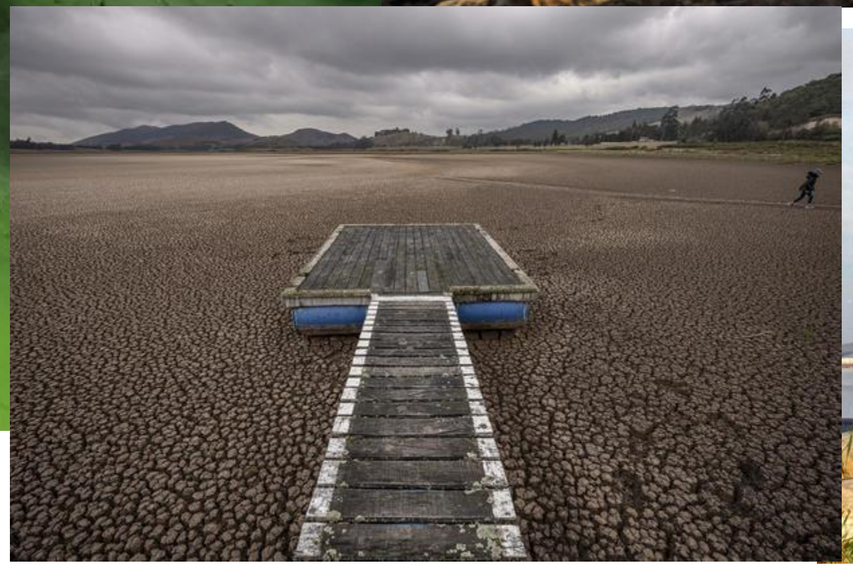
Drivers of Material Footprint

Drivers of material footprint, 2000 – 2022, percentage.



The Future
NEXT EXIT





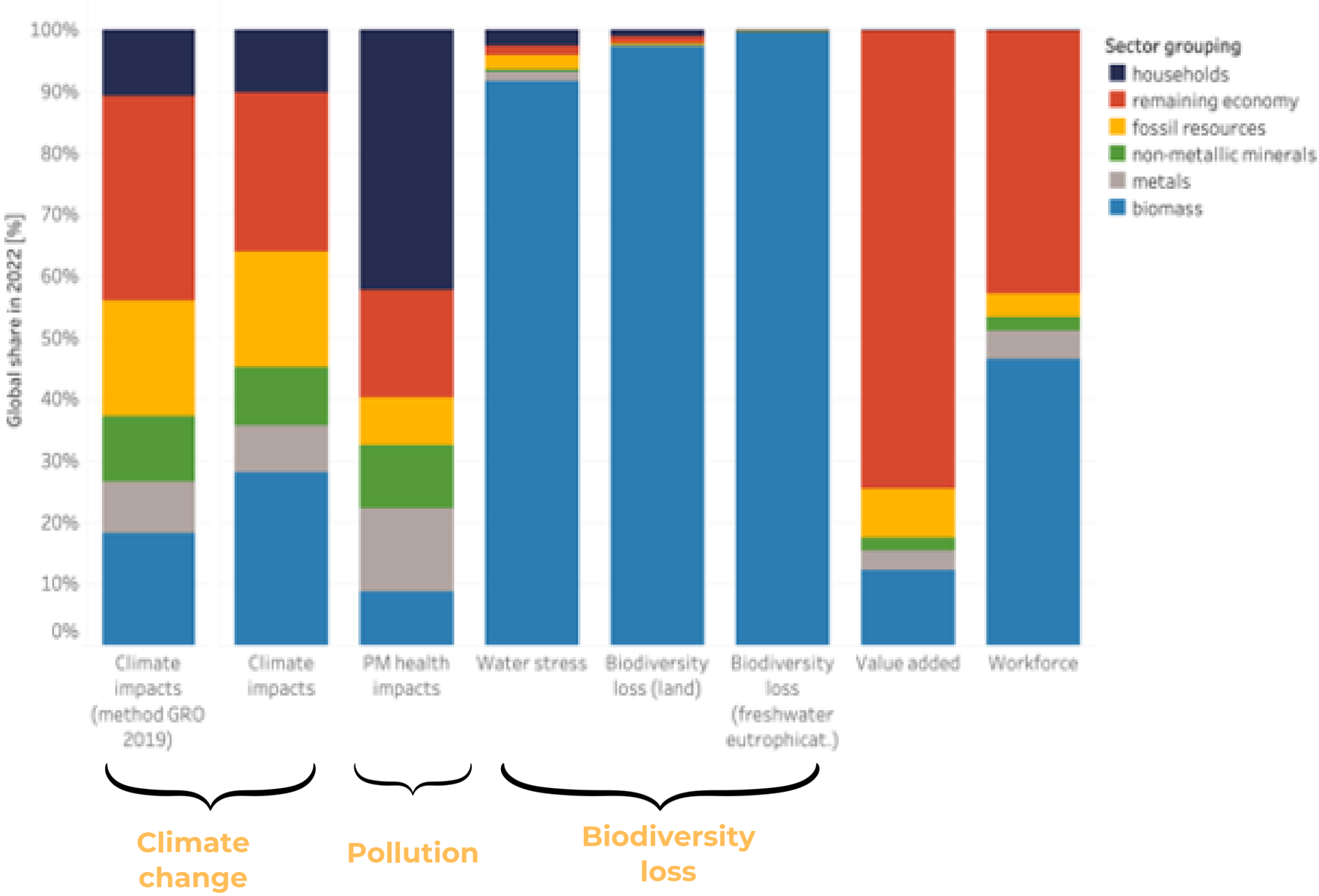
Impacts - Resource use is driving the triple planetary crisis

Challenges

➢ The triple planetary crisis

Chapter 3

- Climate change
- Biodiversity loss
- Pollution

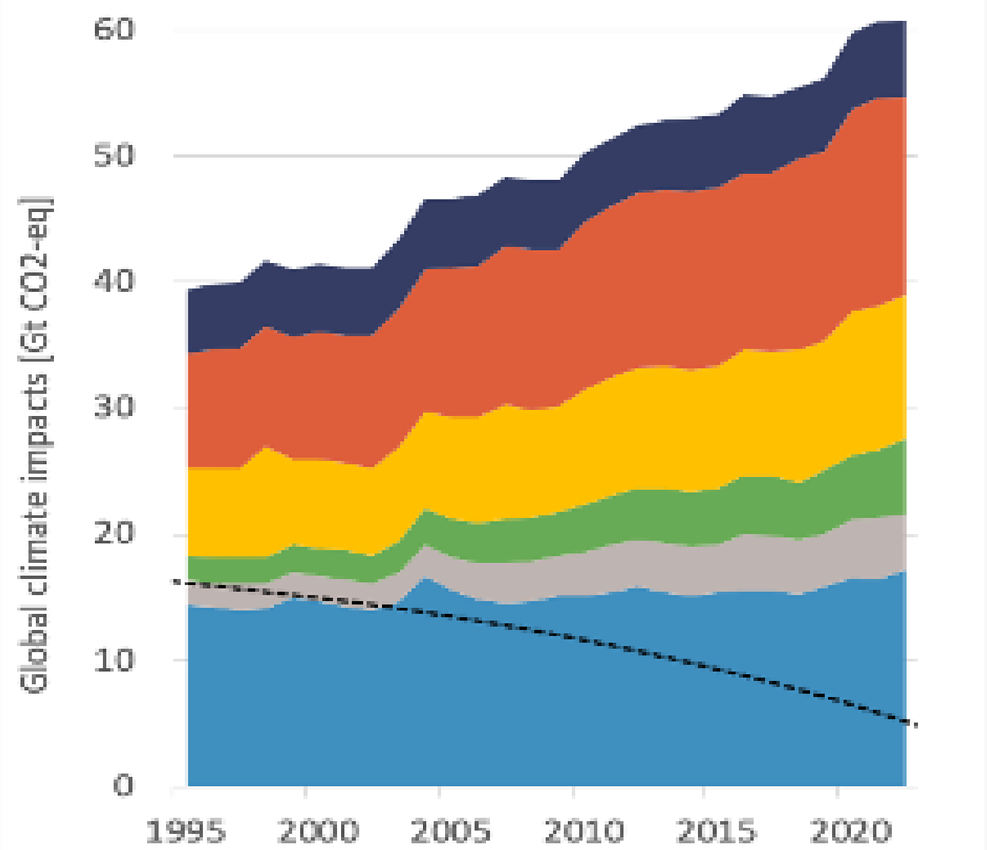


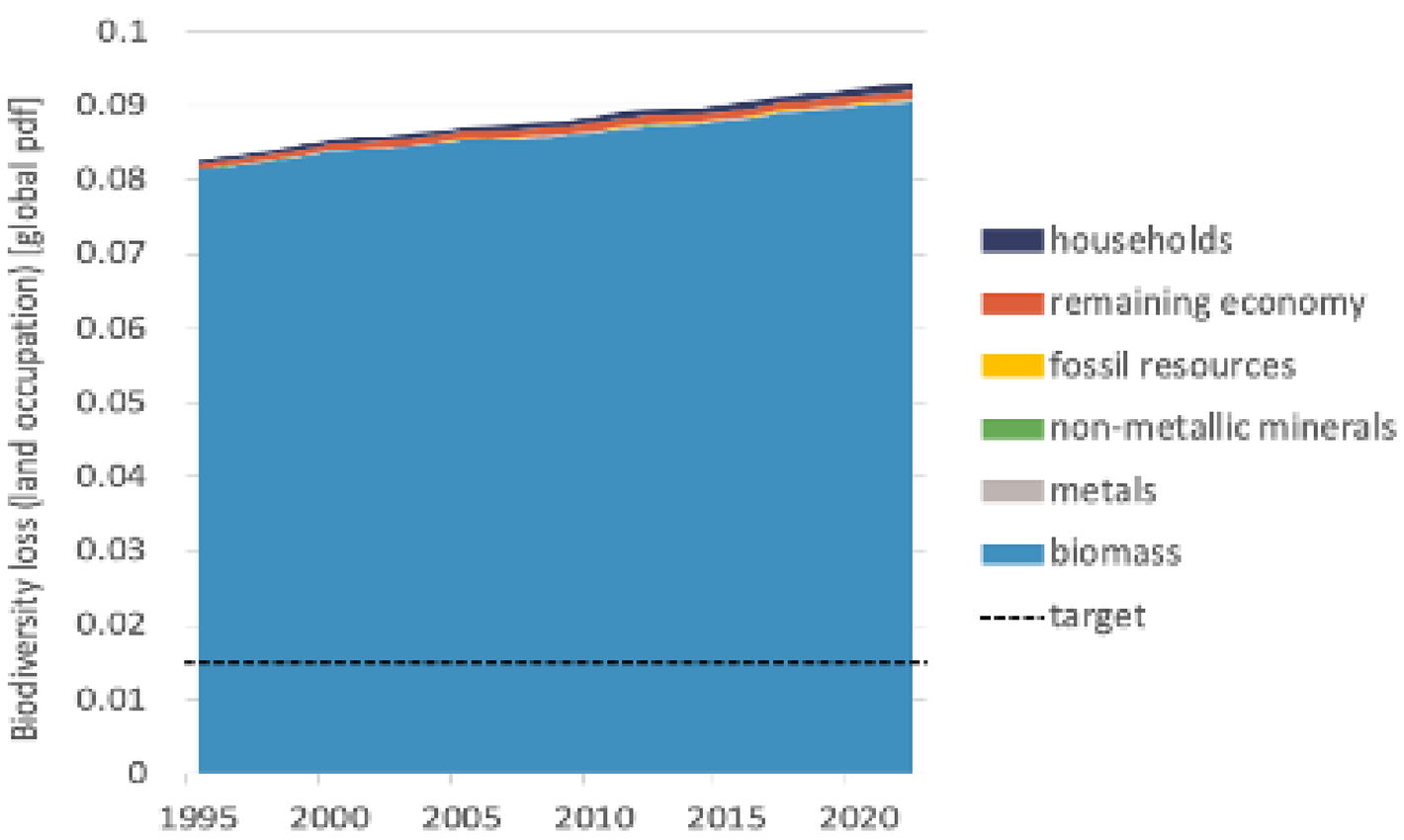
Impacts - Resource use is driving the triple planetary crisis

Challenges

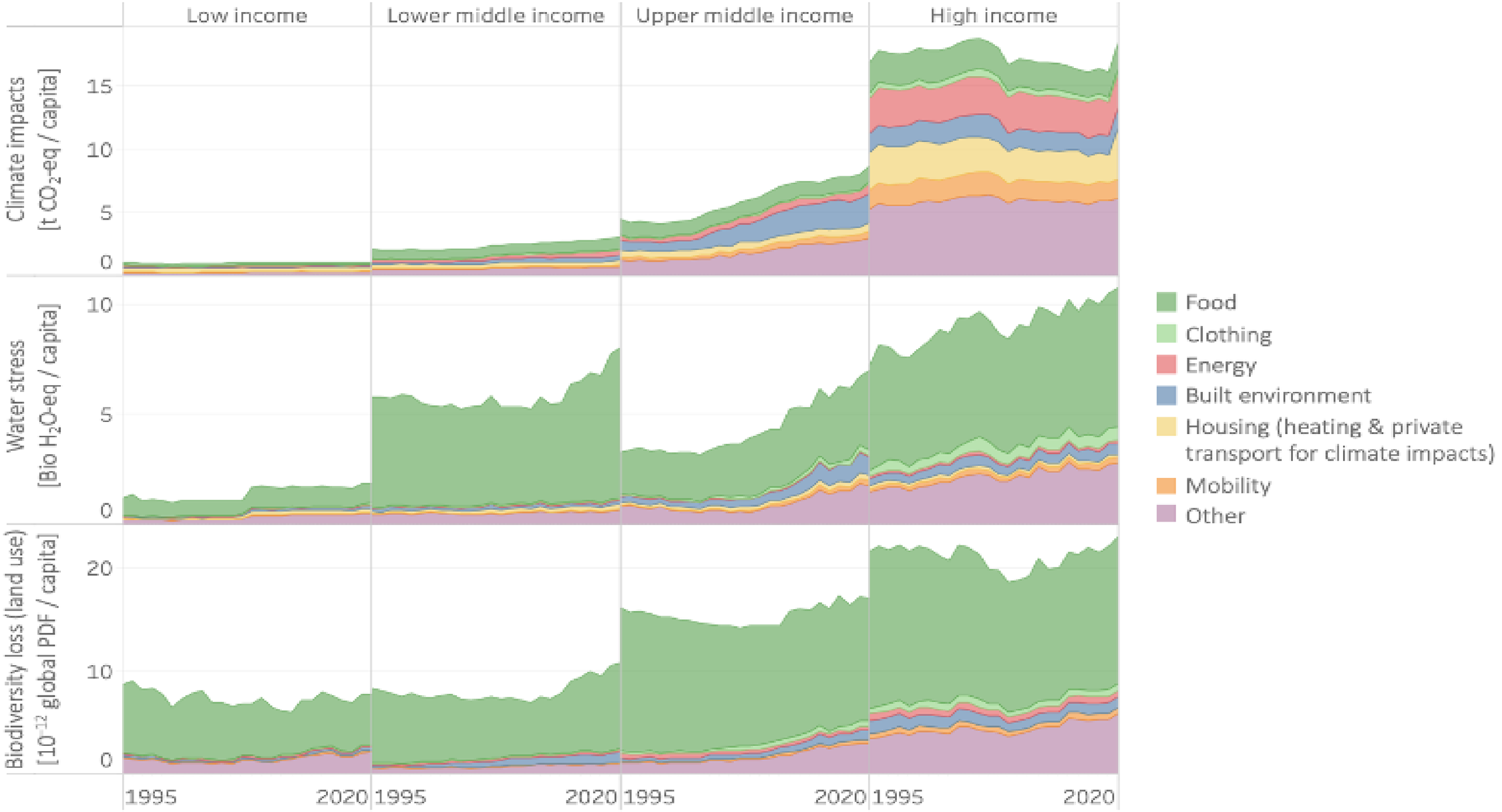
- Science based targets greatly exceeded
- Wellbeing indicators correlate with climate impacts
- Environmental impacts continue to grow
- Per capita footprint difference in different regions
- 70% total climate change impacts by provisioning systems

Chapter 3





Footprints of countries by income group



Scenario outlook

Scenario built up as **three 'shifts'** plus **measures to support**

Just Transition contrasted against **Historical Trends**

Multi-model framework with provisioning system lens

Chapter 4

Sustainable Consumption and Production (SCP)

Resource Efficiency

Climate and Energy

Food and Land

Just Transition

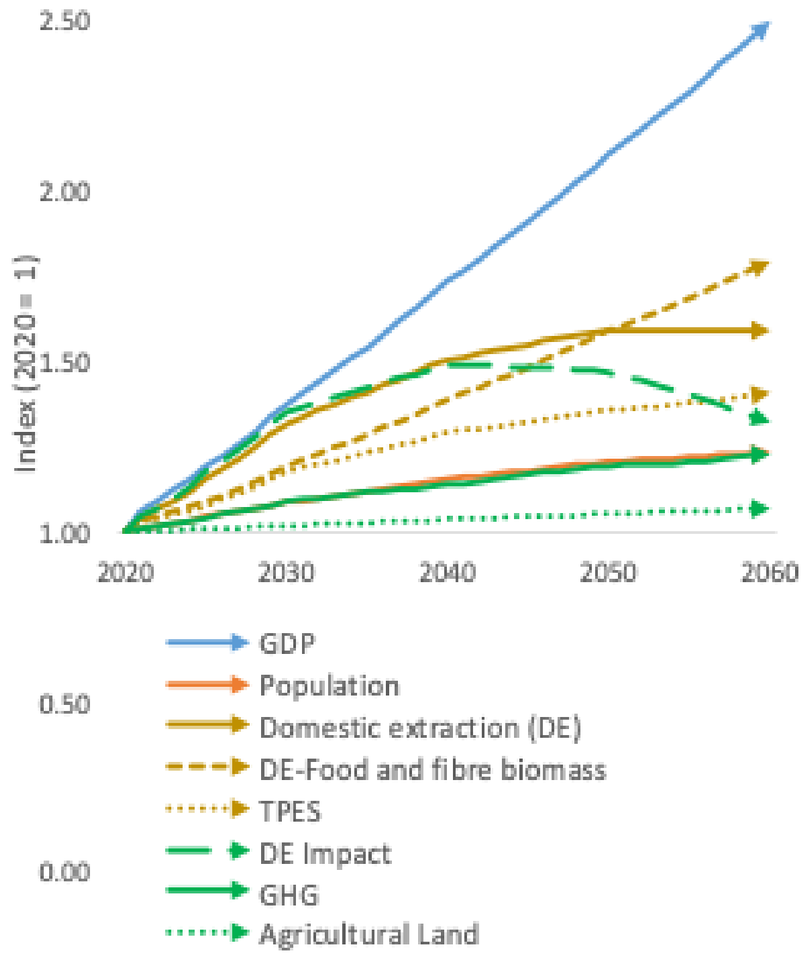
BUILT ENVIRONMENT
shelter & mobility

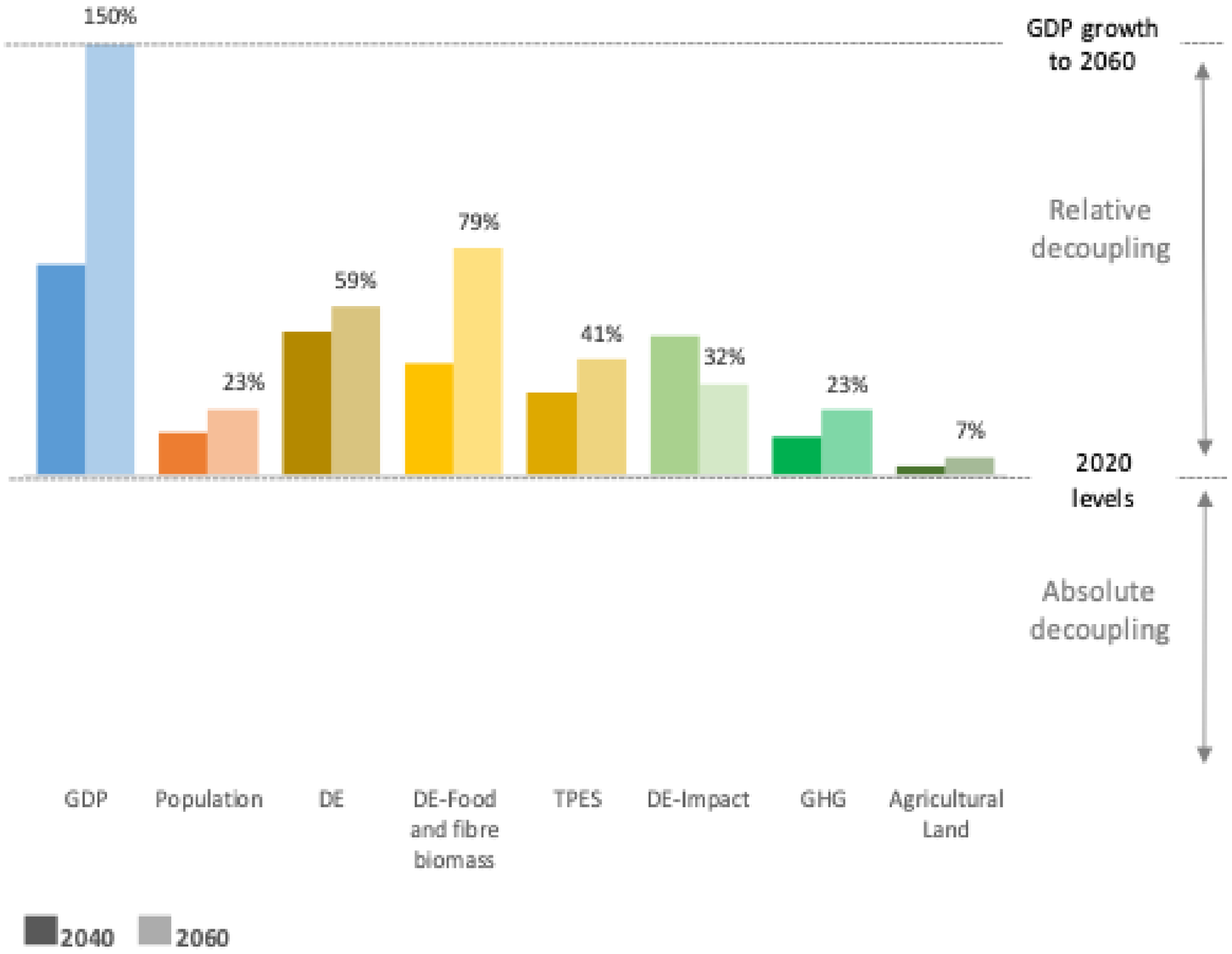
ENERGY SYSTEM
(includes transport)

FOOD SYSTEM
agriculture & land use

Scenario outlook Historical trends

Decoupling outcomes

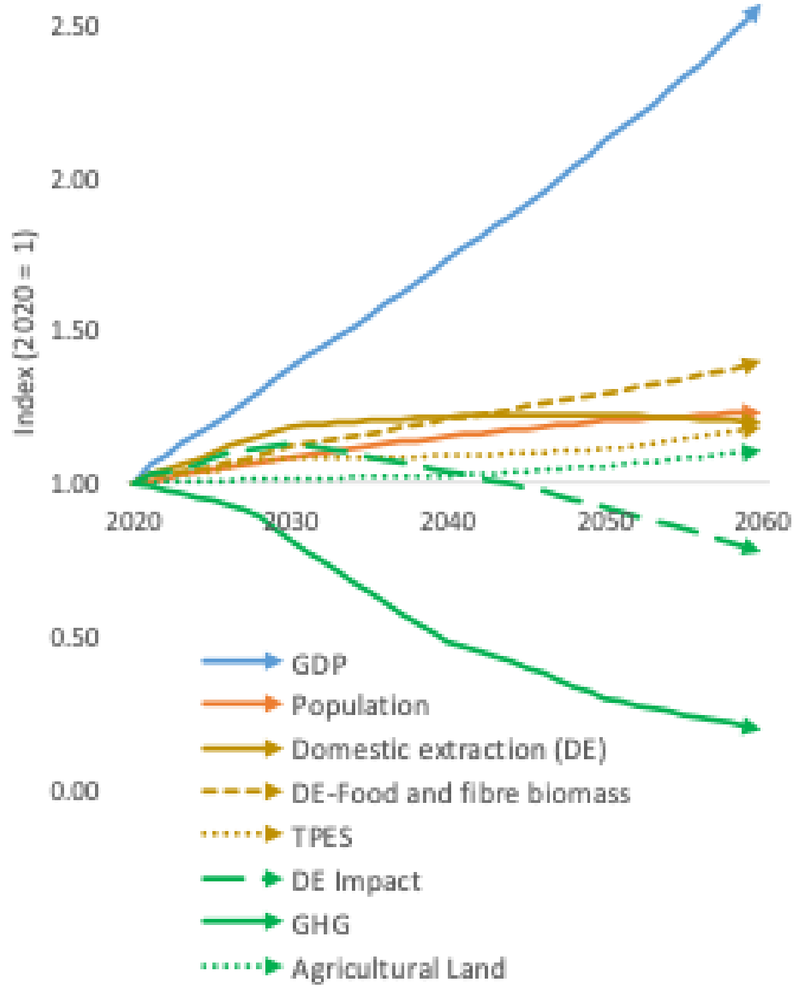


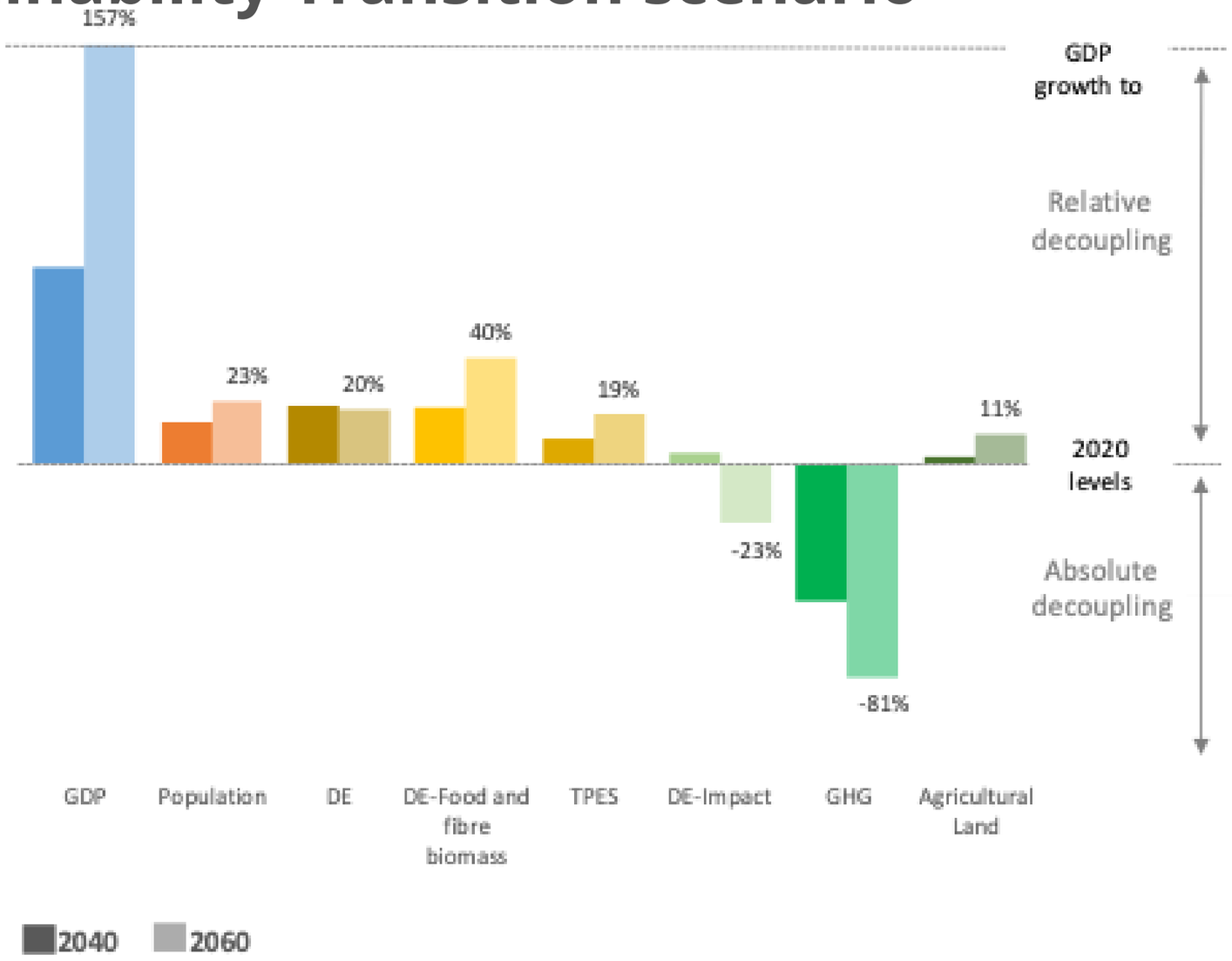


Scenario outlook

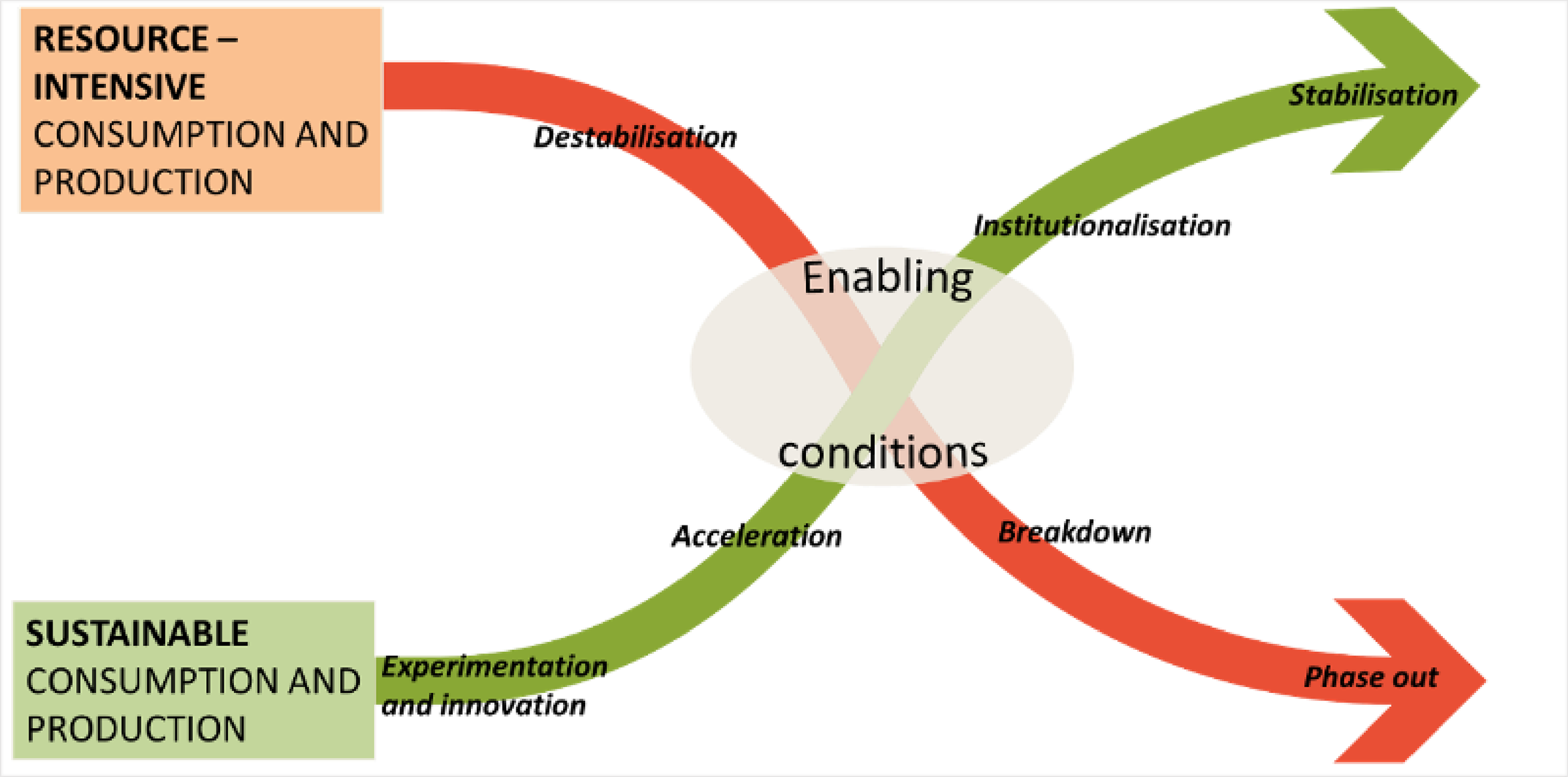
Just Sustainability Transition scenario

Decoupling outcomes





Conducting the transition process



Recommendations for implementing the Just Sustainability Transition scenario

Chapter 5

- Institutionalizing resource governance and defining resource use paths
- Creating low-carbon, clean and circular business models
- Redirecting finance to serve the transition
- Mainstreaming sustainable consumption choices
- Making trade an engine of sustainable development
- Actions for the most resource-intensive provisioning systems

Thank you for your attention