Global Assessment

- What is the status of and trends in nature and in indirect and direct drivers of change?
- How does nature contribute to the achievement of Global Goals?
- What are the plausible futures for nature and for a good quality of life between now and 2050?
- What pathways and policy intervention scenarios can lead to sustainable futures?
- What are the opportunities and challenges, as well as options available to decision makers relating to nature and its contributions to good quality of life?

The Author Team

145 experts:

3 co-chairs
24 coordinating lead
authors

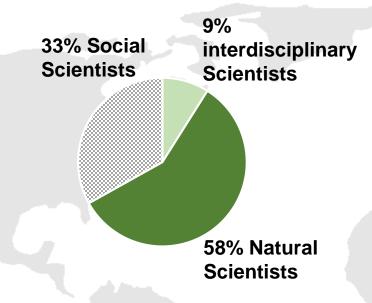
87 lead authors

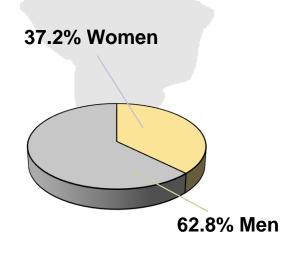
15 review editors 16 fellows

350 contributing authors

From 51 countries

~156,000 Hours of Voluntary Hours = ~17 years





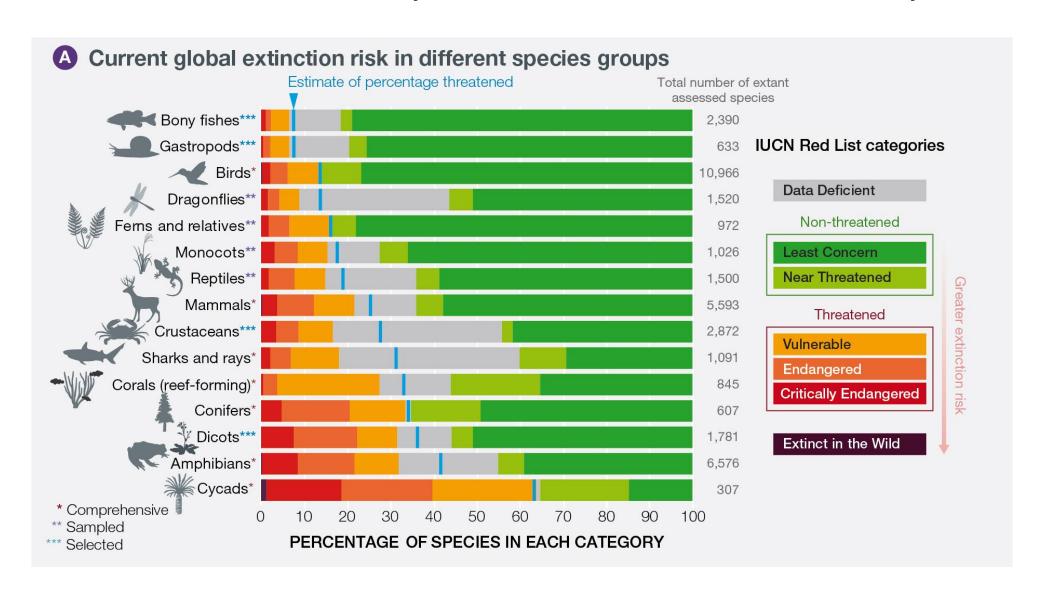


Life on Earth is deteriorating fast worldwide.

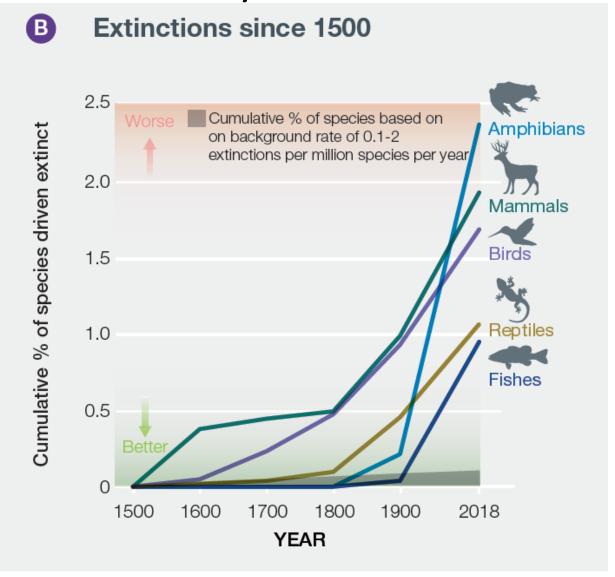
Virtually all indicators of the global state of nature are decreasing:

biomes, ecosystems, species, varieties and breeds

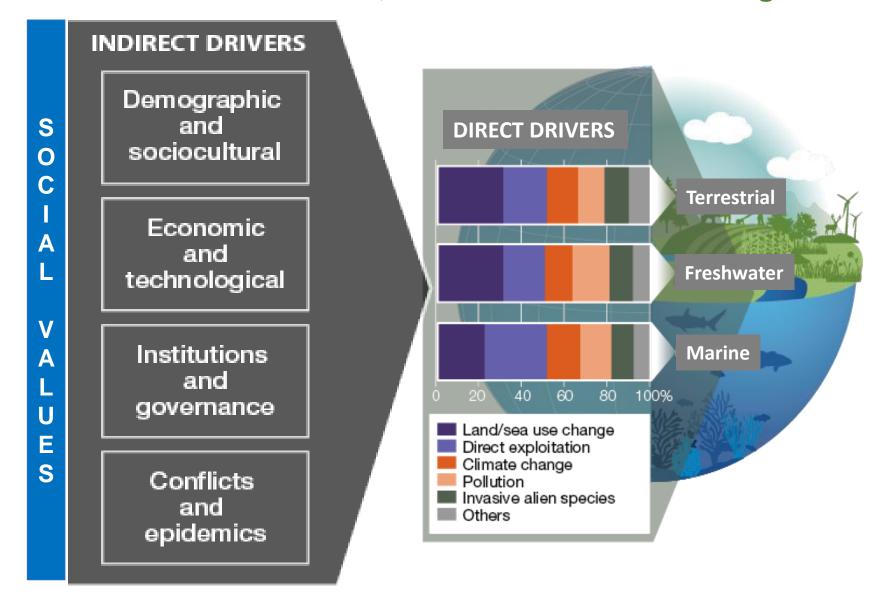
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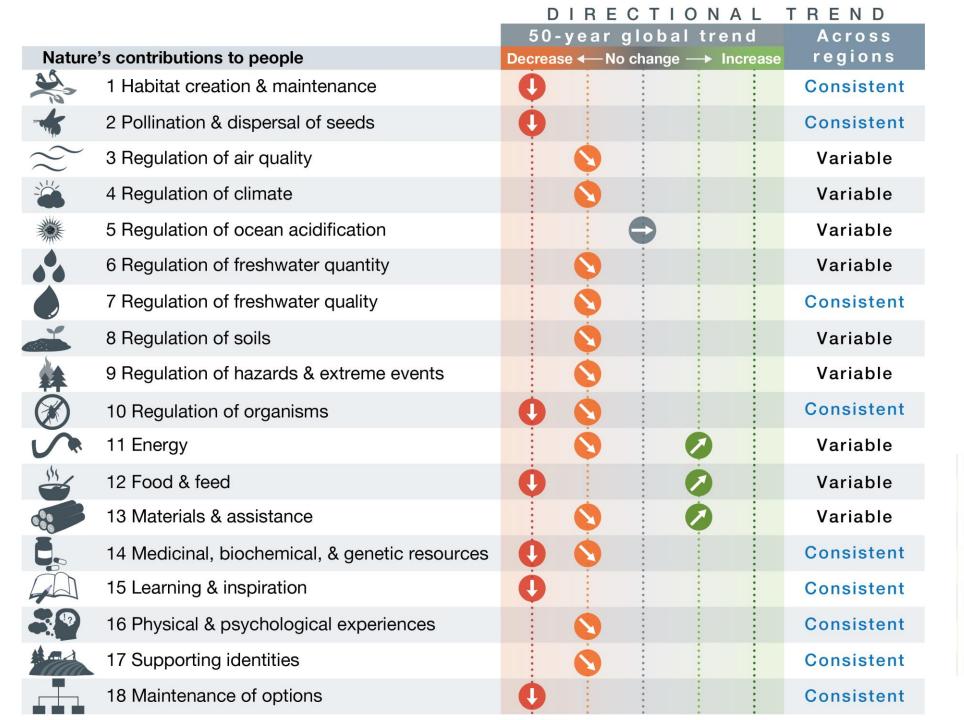


Underpinning the proximate causes of deterioration in nature are the root causes, or indirect drivers of change.



Most of the assessed categories of **nature's** vital contributions to people are declining globally since the 1970s

Only the production of food, energy and raw materials has increased







Aichi Biodiversity Targets

Sustainable Development Goals



































































Progress towards the Aichi Biodiversity Targets

		Progre	Progress towards elements of each target			
Goal	Target (abbreviated)	Poor	Moderate	Good	Unknown	
Drivers	Awareness		$\sim\sim$			
	Planning & accounting	⊗	\sim			
	Incentives	88				
	Production & consump	otion 💢💢				
	Habitat loss	88				
T	Fisheries	88			?	
Pressures	Agriculture & forestry	88	<u>~</u>			
sure	Pollution	88				
Š	Invasive alien species	88		V	?	
	Coral reefs etc	88				
S	Protected & conserved	d areas	$\sim\sim\sim\sim$			
Status	Extinctions prevented	88				
S	Genetic diversity		$\sim\sim\sim\sim$?	
Benefits	Ecosystem services	8			?	
	Ecosystem restoration				??	
	Access & benefit shar	ing	<u>~</u>	V		
Implementation	Strategies & action pla	ans	\sim	V		
	Indigenous & local kno	owledge	<u>~</u>		??	
	Biodiversity science		<u>~</u>		?	
	Financial resources		○			

Progress towards the UN Sustainable Development Goals

		Recent status and trends in aspects of nature and nature's contributions to people that support progress towards target *			Uncertain
Selected Sustainable Development Goals		Poor/Declining support	Partial support	Unknown	relationship
1 NO POVERTY	No poverty	00			00
2 ZERO HUNGER	Zero hunger	•	333		
3 GOODHEALTH AND WELL-BEIN	Good health and well-being			??	00
6 CLEAN WATER AND SANITATIO	Clean water and sanitation	000	(-)		
11 SUSTAINABLE C AND COMMUNIT	Sustainable cities and communities	0000	-		
13 action	Climate action	0	(-)		
14 LIFE BELOW WATER	Life below water	0000	333		
15 UFE ON LAND	Life on land	000	+++		

^{*} There were no targets that were scored as good/positive status and trends

Plausible futures

SCENARIOS Economic optimism

- rapid economic growth
- low regulation

Regional competition

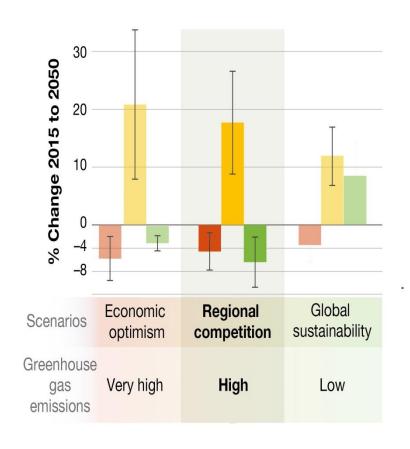
- strong trade and other barriers
- growing gap between rich and poor

Global sustainability

- Proactive environmental policy
- Sustainable production and consumption

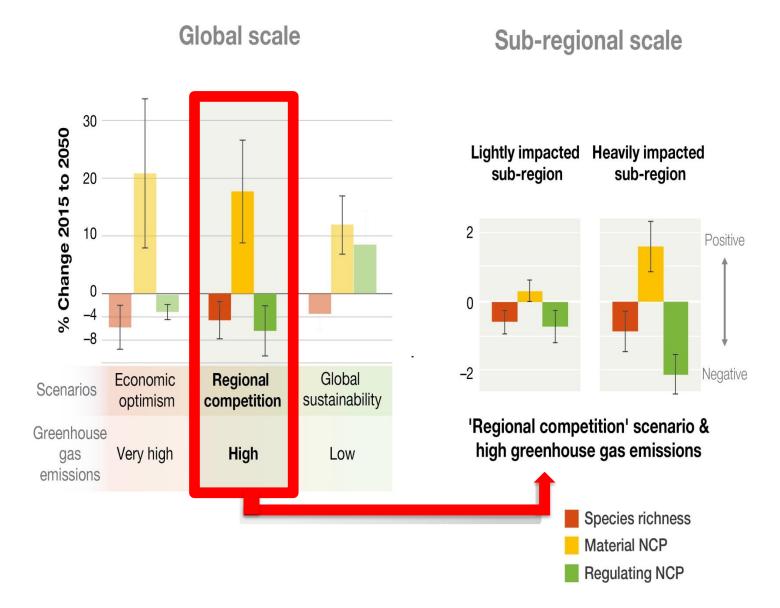
Projected changes in biodiversity and nature's material and regulating benefits, due to climate & land use change by 2050

Global scale



Species richnessMaterial NCPRegulating NCP

Projected changes in biodiversity and nature's material and regulating benefits, due to climate & land use change by 2050



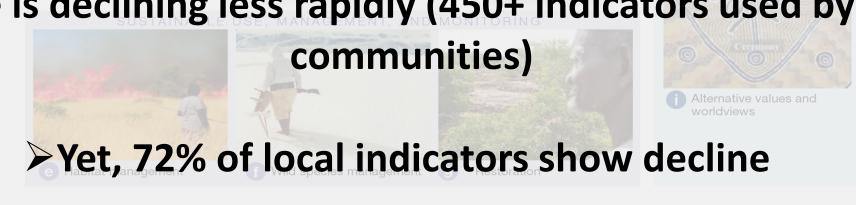
Other plausible scenarios, which include transformative change, are compatible with the 2030 sustainability objectives and the 2050 Vision for Biodiversity.

Contributions of Indigenous Peoples and Local Communities: knowledge, innovations, practices, and institutions





➤ Nature is declining less rapidly (450+ indicators used by local





We have dramatically reconfigured the fabric of life of the planet.

The world is becoming much more interconnected, yet increasingly unequal.

Confronting the challenge of meeting international societal and environmental goals for the next decades

Key components for transformation

Challenges related to climate change, nature deterioration and achieving a good quality of life for all are interconnected.

And, they need to be addressed <u>synergistically</u>, from local to global levels.

Food, water, energy, health, human well-being for all, mitigating and adapting to climate change, and conserving nature can be achieved together in sustainable pathways.

Need for rapid implementation of <u>existing</u> instruments and bold decisions for <u>transformative</u> change.

Knowledge and tools available

implementation!

Meeting global societal goals through urgent and concerted efforts addressing the direct drivers and especially the <u>root causes</u> (indirect drivers) of nature deterioration.

Governance	Align governance systems, both in the public sector (across admin levels for instance) but also across sectors
Economic systems	Responsability, whole chain from production to consumption
Equity	Inequalities are real, incoporate them actively in the planning and implementation
Cross-sectoral planning	We kave better knowledge and tools
Incentives	Eliminate harmful subsidies, incentive positive externalities
Narratives	Individual level: wasteful consumption does not equal quality of life or status
Societal values	Environmental degradatiom, social inequalities are not inevitable outcomes of economic growth

Subset of solutions

Cross-Sectoral, Integrated Management at Multiple Levels

→ Food production and conservation goals: <u>complementary</u> and <u>interdependent</u>.

→ Sustainable fisheries: <u>integrated management</u> on land, in freshwater and oceans

→ Land-based climate change mitigation: attention to trade-offs

→ Nature-based solutions in cities: crucial for global sustainability

Recognizing the knowledge, innovations and practices, institutions and values of indigenous peoples and local communities and their <u>inclusion and participation</u> in environmental governance.

Enhances their quality of life, as well as nature conservation and sustainable use, relevant to broader society.

A key constituent of sustainable pathways is the evolution of global financial and economic systems to build a global sustainable economy.

One that steers away from the current limited paradigm of economic growth.

Many <u>societal responses</u> and successful examples, rapid transformative change is already happening in many sectors.

Bold actions and commitment from local to global levels <u>urgently needed</u>.