

- The value of agricultural crop sludge and other wastes from industrial production has increased by about 300% since 1970, raw timber harvest has risen by 45% and approximately 60 billion tons of renewable and non-renewable resources are extracted globally every year, having nearly doubled since 1980.

- Land degradation has reduced the productivity of 23% of the global land surface. Up to US\$577 billion in annual global crops are at risk from pollinator loss and 100-300 million people are at increased risk of floods and hurricanes because of loss of coastal habitats and protection.

- In 2015, 33% of marine fish stocks were being harvested at unsustainable levels; 60% were maximally sustainably fished, with just 7% harvested at levels lower than what can be sustainably fished.

- Urban areas have more than doubled since 1992.

- Plastic pollution has increased tenfold since 1980, 300-400 million tons of heavy metals, solvents, toxic



Plastics at Agbogbloshie! by http://qamp.net CC BY-NC-SA 2.0

facilities are dumped annually into the world's waters, and fertilizers entering coastal ecosystems have produced more than 400 ocean 'dead zones', totalling more than 245,000 km² - a combined area greater than that of the United Kingdom.

- Negative trends in nature will continue to 2050 and beyond in all of the policy scenarios explored in the Report, except those that include transformative change – due to the projected impacts of increasing land-use change, exploitation of organisms and climate change, although with significant differences between regions.

The Way Forward

The Report also presents a wide range of illustrative actions for sustainability and pathways for achieving them across and between sectors such as agriculture, forestry, marine systems, freshwater systems, urban areas, energy, finance and many others. It highlights the importance of, among others, adopting integrated management and cross-sectoral approaches that take into account the trade-offs of food and energy production, infrastructure, freshwater and coastal management, and biodiversity conservation.

Also identified as a key element of more sustainable future policies is the evolution of global financial and economic systems to build a global sustainable economy, steering away from the current limited paradigm of economic growth.

(Source: <https://www.ipbes.net/news/Media-Release-Global-Assessment>)

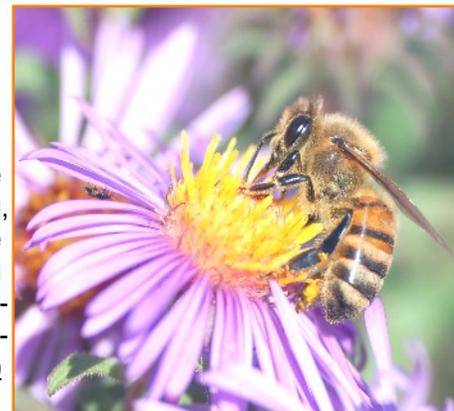


Africa & the World

SPECIES EXTINCTION

Unprecedented Species Extinction Rates Accelerating

Nature is declining globally at rates unprecedented in human history, and the rate of species extinctions is accelerating, with grave impacts on people around the world now likely. This is the stark warning in a new landmark report from the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES)



"The overwhelming evidence of the IPBES Global Assessment, from a wide range of different fields of knowledge, presents an ominous picture," said IPBES Chair, Sir Robert Watson. *"The health of ecosystems on which we and all other species depend is deteriorating more rapidly than ever. We are eroding the very foundations of our economies, livelihoods, food security, health and quality of life worldwide."*

About IPBES: Often described as the "IPCC for biodiversity", IPBES is an independent intergovernmental body comprising more than 130 member Governments. Established by Governments in 2012, it provides policymakers with objective scientific assessments about the state of knowledge regarding the planet's biodiversity, ecosystems and the contributions they make to people, as well as the tools and methods to protect and sustainably use these vital natural assets. For more information about IPBES and its assessments visit www.ipbes.net

Transformative changes needed to restore and protect nature

The Report also tells us that it is not too late to make a difference - but only if we start now at every level from local to global. The Chairman continued: *"Through 'transformative change', nature can still be conserved, restored and used sustainably – this is also key to meeting most other global goals. By transformative change, we mean a fundamental, system-wide reorganization across technological, economic and social factors, including paradigms, goals and values."*

The report acknowledges that; *"Transformative change can expect opposition from those with interests vested in the status quo, but also that such opposition can be overcome for the broader public good."*

Most comprehensive assessment of its kind

The IPBES Global Assessment Report on Biodiversity and Ecosystem Services is the most comprehensive ever completed. It is the first intergovernmental Report of its kind and introduces innovative ways of evaluating evidence.

Compiled by 145 expert authors from 50 countries, with inputs from another 310 contributing authors, the Report assesses changes over the past five decades, providing a comprehensive picture of the relationship between economic development pathways and their impacts on nature. It also offers a range of possible scenarios for the coming decades.

Based on the systematic review of about 15,000 scientific and government sources, the Report also draws (for the first time ever at this scale) on indigenous and local knowledge,

particularly addressing issues relevant to Indigenous Peoples and Local Communities.

“Biodiversity and nature’s contributions to people are our common heritage and humanity’s most important life-supporting ‘safety net’. But our safety net is stretched almost to breaking point,” said Prof. Sandra Díaz (Argentina), who co-chaired the Assessment. *“The diversity within species, between species and of ecosystems, as well as many fundamental contributions we derive from nature, are declining fast, although we still have the means to ensure a sustainable future for people and the planet.”*

Around one million animal and plant species are now threatened with extinction

The average abundance of native species in most major land-based habitats has fallen by at least 20%, mostly since 1900. More than 40% of amphibian species, almost 33% of reef-forming corals and more than a third of all marine mammals are threatened. The picture is less clear for insect species, but available evidence supports a tentative estimate of 10% being threatened. At least 680 vertebrate species have been driven to extinction since the 16th century and more than 9% of all domesticated breeds of mammals used for food and agriculture had become extinct by 2016, with at least 1,000 more breeds still threatened.

“Ecosystems, species, wild populations, local varieties and breeds of

domesticated plants and animals are shrinking, deteriorating or vanishing. The essential, interconnected web of life on Earth is getting smaller and increasingly frayed,” said Prof. Settele. *“This loss is a direct result of human activity and constitutes a direct threat to human well-being in all regions of the world.”*

To increase the policy-relevance of the Report, the assessment’s authors have ranked, for the first time at this scale and based on a thorough analysis of the available evidence, the five direct drivers of change in nature with the largest relative global impacts so far. These culprits are, in descending order: (1) changes in land and sea use; (2) direct exploitation of organisms; (3) climate change; (4) pollution and (5) invasive alien species.

The Report notes that climate change may - over coming decades - surpass the impact of land and sea use change and other drivers.

Current global response insufficient

Despite progress to conserve nature, the Report also finds that global goals for conserving nature and achieving sustainability cannot be met by current trajectories. Goals for 2030 and beyond may only be achieved through transformative changes across economic, social, political and technological factors. Current negative trends in biodiversity and ecosystems will undermine progress towards 80% (35 out of 44) of the assessed

targets of the Sustainable Development Goals (SDGs), related to poverty, hunger, health, water, cities, climate, oceans and land (SDGs 1, 2, 3, 6, 11, 13, 14 and 15). Loss of biodiversity is therefore shown to be not only an environmental issue, but also a developmental, economic, security, social and moral issue as well.

Other notable findings of the Report include:

- Three-quarters of the land-based environment and about 66% of the marine environment have been significantly altered by human actions. On average these trends have been less severe or avoided in areas held or managed by Indigenous Peoples and Local Communities.
- More than a third of the world’s land surface and nearly 75% of freshwater resources are now devoted to crop or livestock production.

