

# BIODIVERSITY AND THE PRIVATE SECTOR

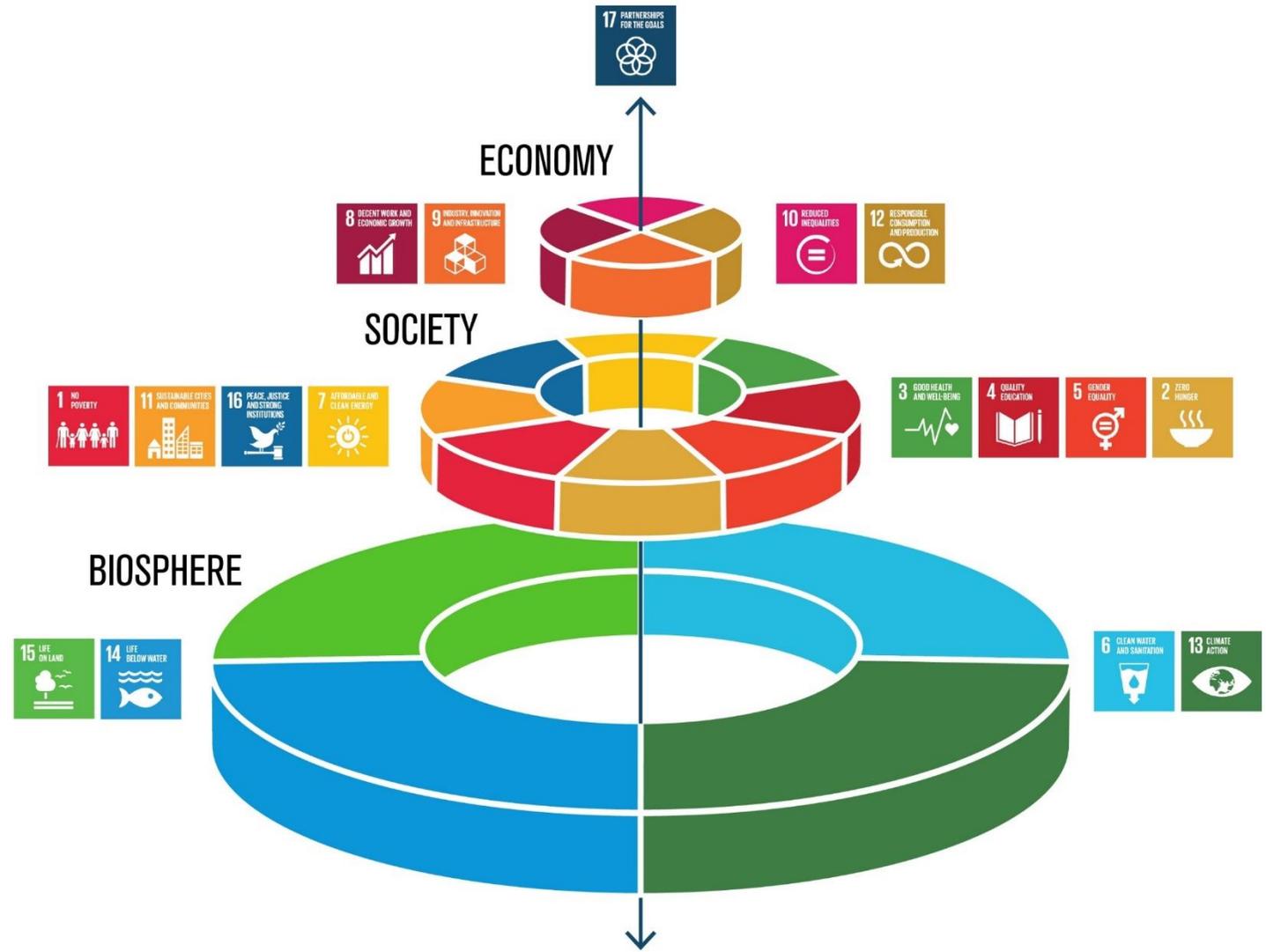
Matt Jones @mij\_matt

# Biodiversity loss is increasingly seen as a material business risk

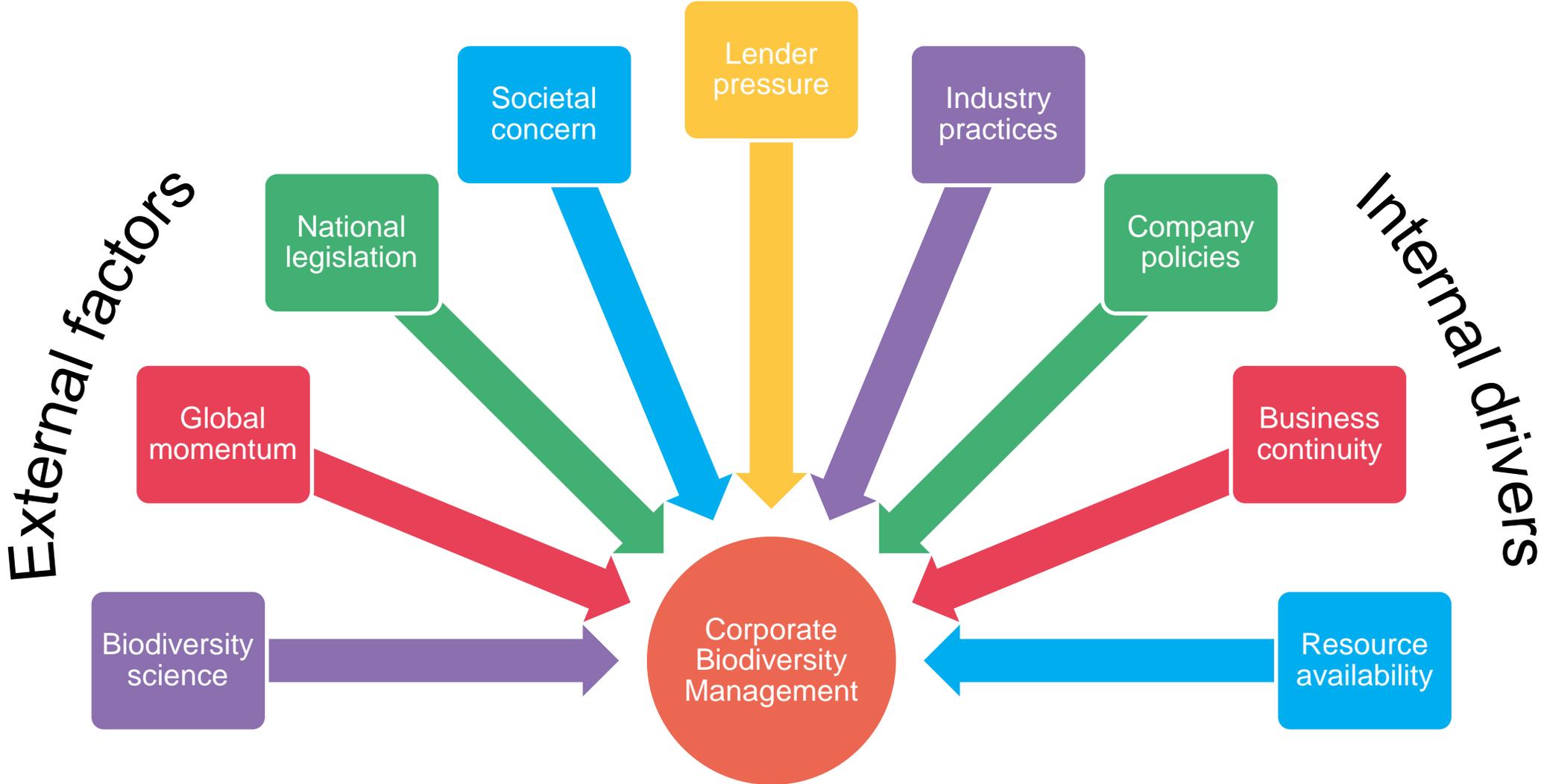
FIGURE 2:  
The Global Risks Landscape 2020 and the evolution of the biodiversity loss risk in the past three years



# The Global Goals have helped us form links between Biosphere, Society and the Economy



# Stakeholder pressure



## DRIVERS

### INDIRECT DRIVERS

Values and behaviors

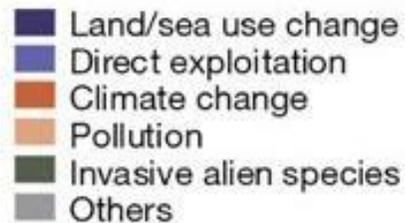
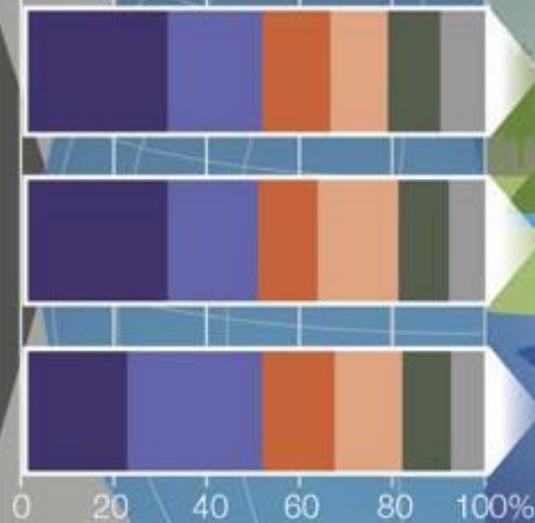
Demographic and sociocultural

Economic and technological

Institutions and governance

Conflicts and epidemics

### DIRECT DRIVERS



## EXAMPLES OF DECLINES IN NATURE

### ECOSYSTEM EXTENT AND CONDITION

47%

Natural ecosystems have **declined by 47 per cent** on average, relative to their earliest estimated states.

### SPECIES EXTINCTION RISK

25%

Approximately **25 per cent of species are already threatened with extinction** in most animal and plant groups studied.

### ECOLOGICAL COMMUNITIES

23%

Biotic integrity—the abundance of naturally-present species—has **declined by 23 per cent** on average in terrestrial communities.\*

### BIOMASS AND SPECIES ABUNDANCE

82%

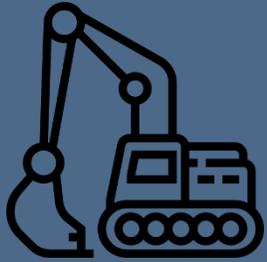
The global biomass of wild mammals has **fallen by 82 per cent**.\* Indicators of vertebrate abundance have declined rapidly since 1970

### NATURE FOR INDIGENOUS PEOPLES AND LOCAL COMMUNITIES

72%

72 per cent of indicators developed by indigenous peoples and local communities show **ongoing deterioration** of elements of nature important to them

# Resource extraction 3x since 1970 (and growing)

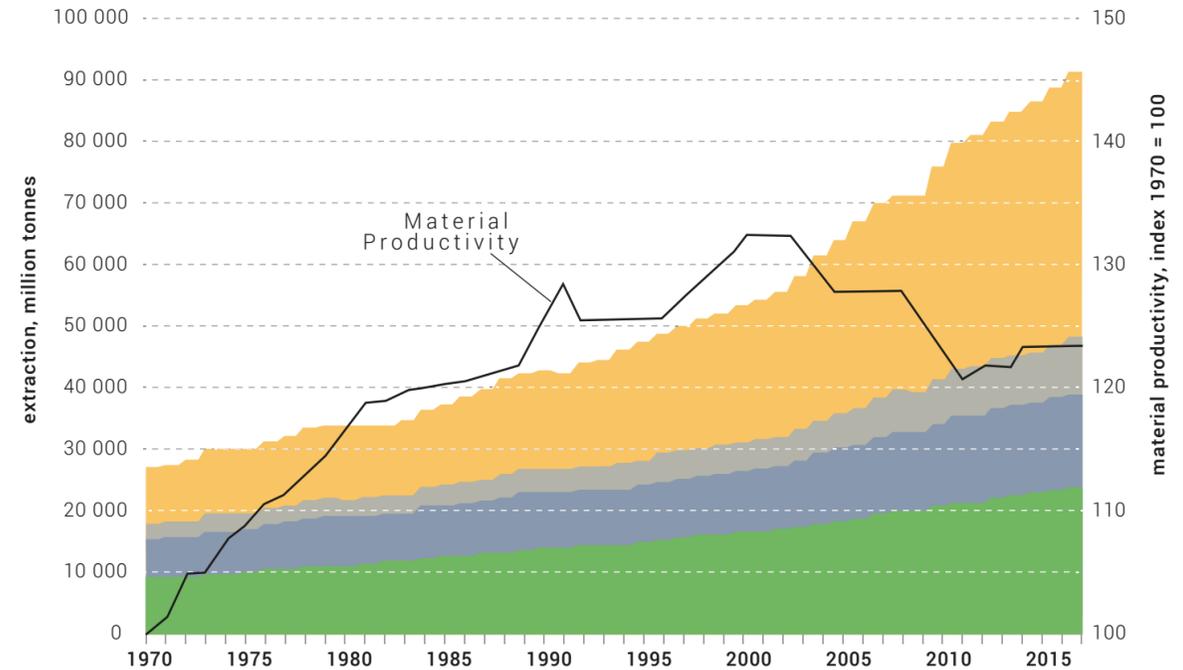


92 billion tons of  
global extraction

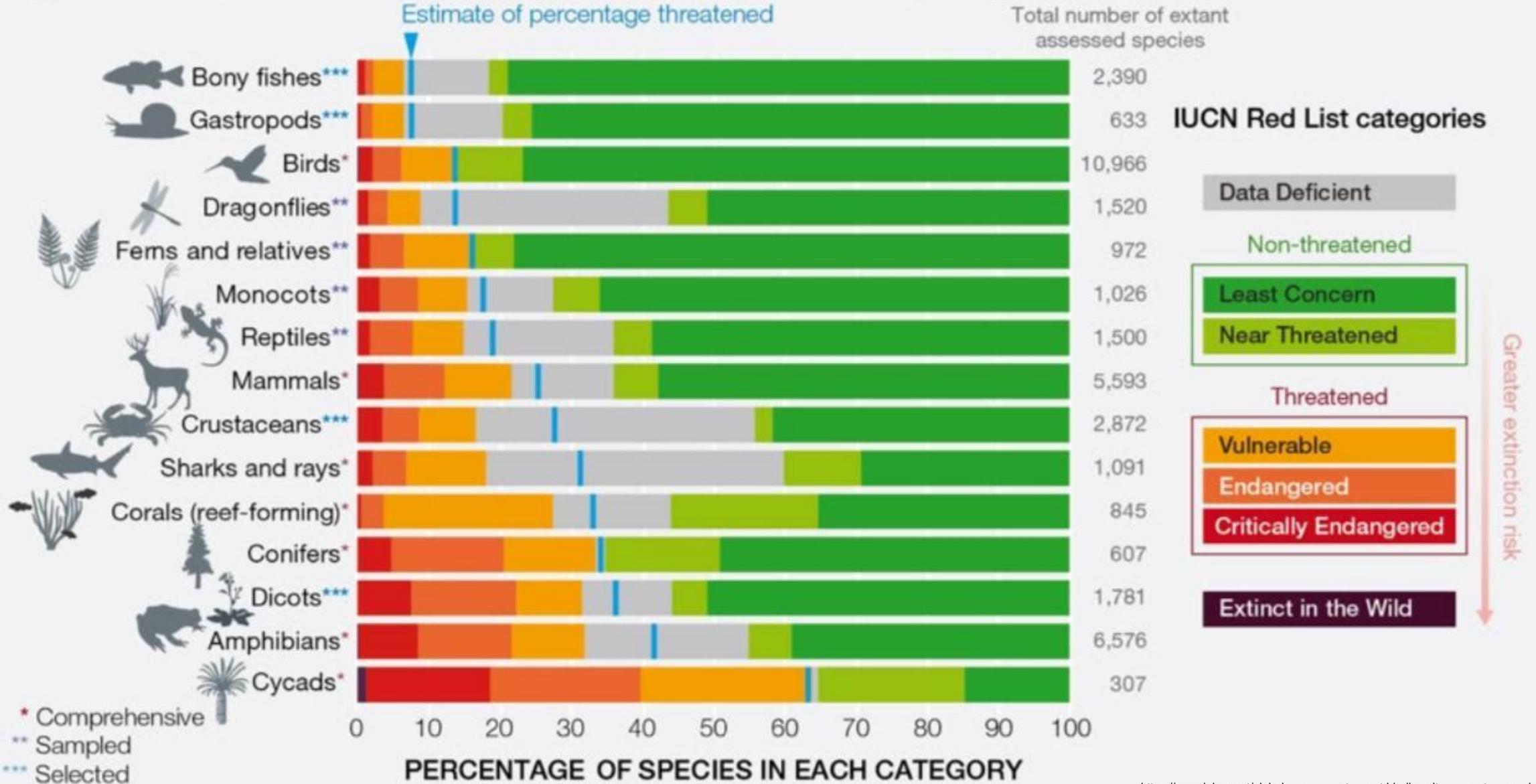


12.2 tons  
materials demand  
per capita

<https://www.resourcepanel.org/reports/global-resources-outlook>

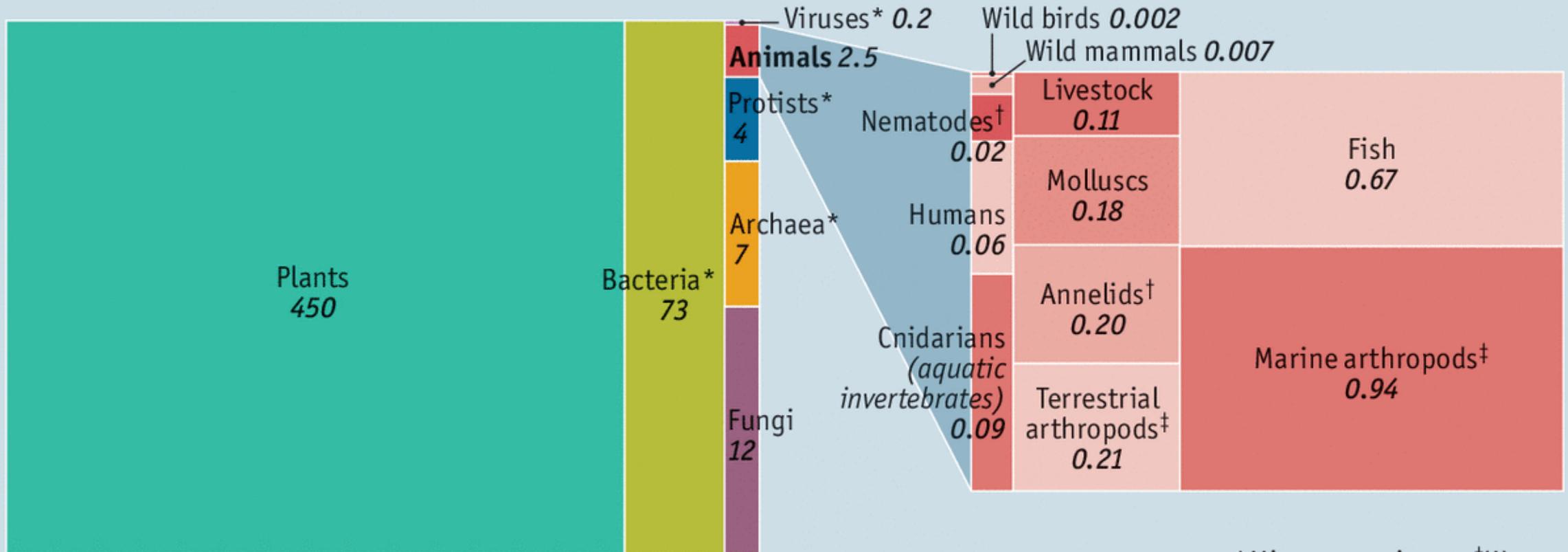


# A Current global extinction risk in different species groups



# Life as we know it

Estimated global biomass of selected taxonomic groups, gigatonnes



Source: "The biomass distribution on Earth" by Bar-On, Phillips & Milo, *PNAS*, 2018

\*Micro-organisms †Worms ‡Invertebrates with hard exoskeleton

Share of (near-) threatened species impacted\*



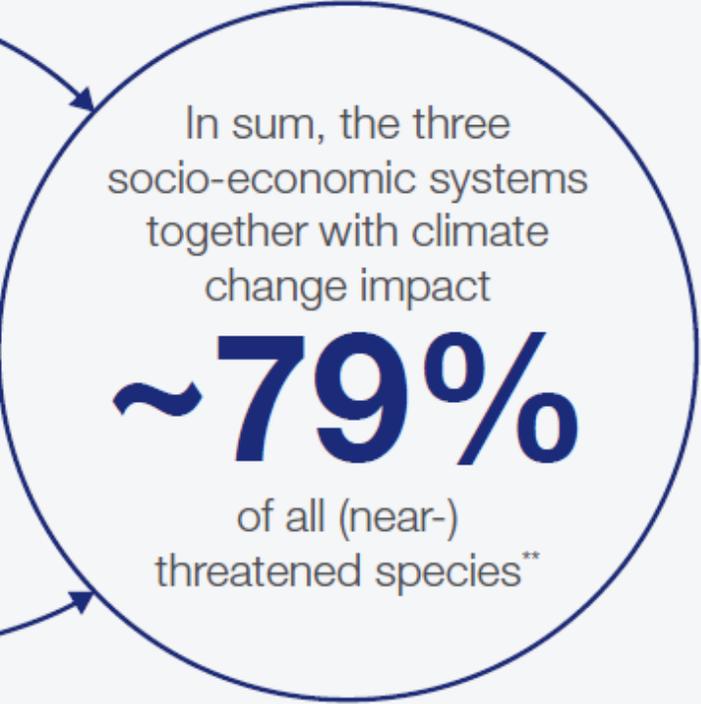
Food, land and ocean use



Infrastructure and the built environment



Energy and extractives



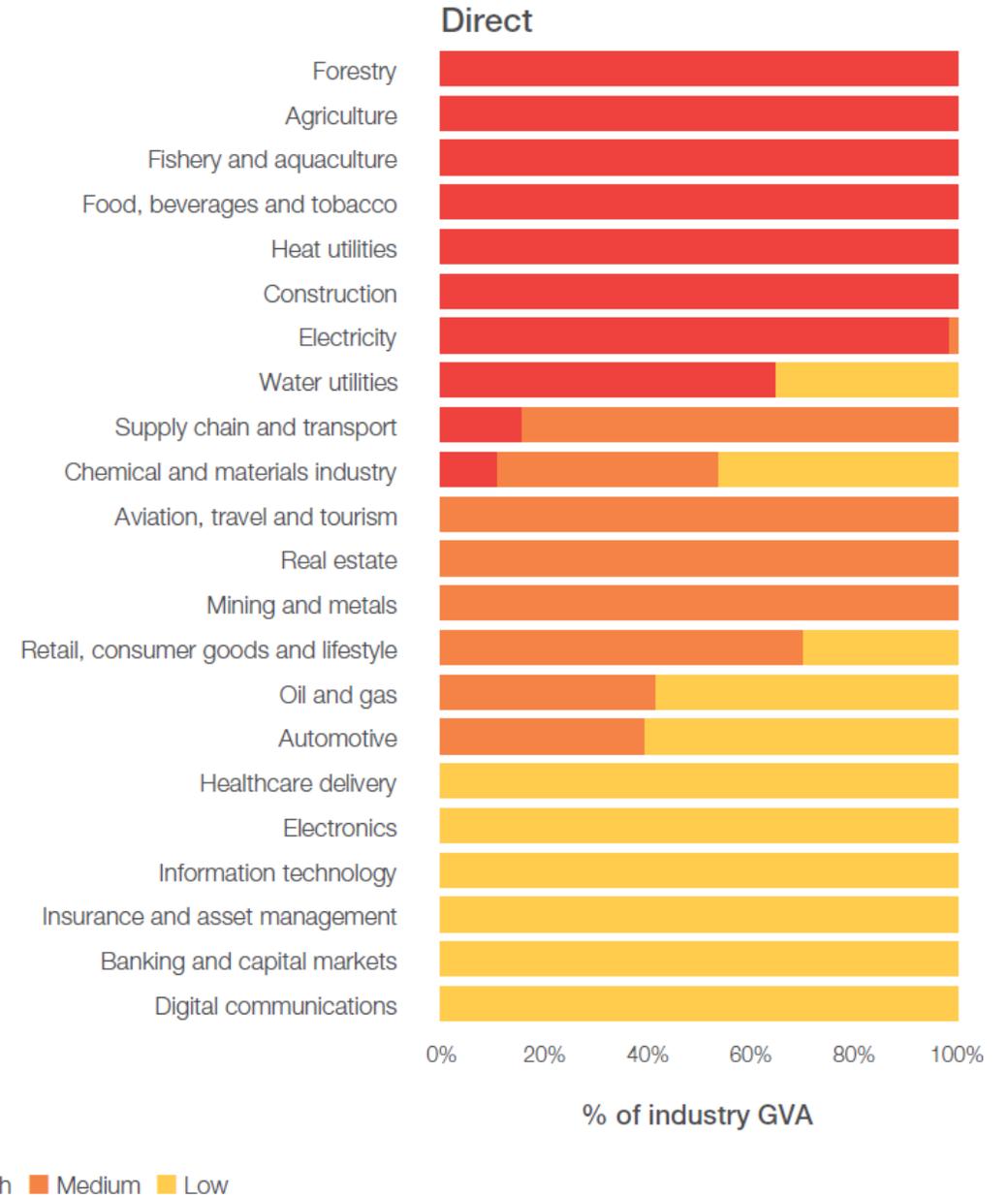
# Many of the world's ecosystems services are in decline

- 17 of 18 categories assessed have undergone decline
- Benefits of nature to people are not easily replaced or replicated when lost



# This translates in real disruption risk for businesses

\$44 Trillion at risk  
(50% of Global GDP)



**How can we respond?**



Food, land and  
ocean use



Infrastructure and the  
built environment



Energy and  
extractives

Total business  
opportunities by  
system in 2030  
US\$ billions\*



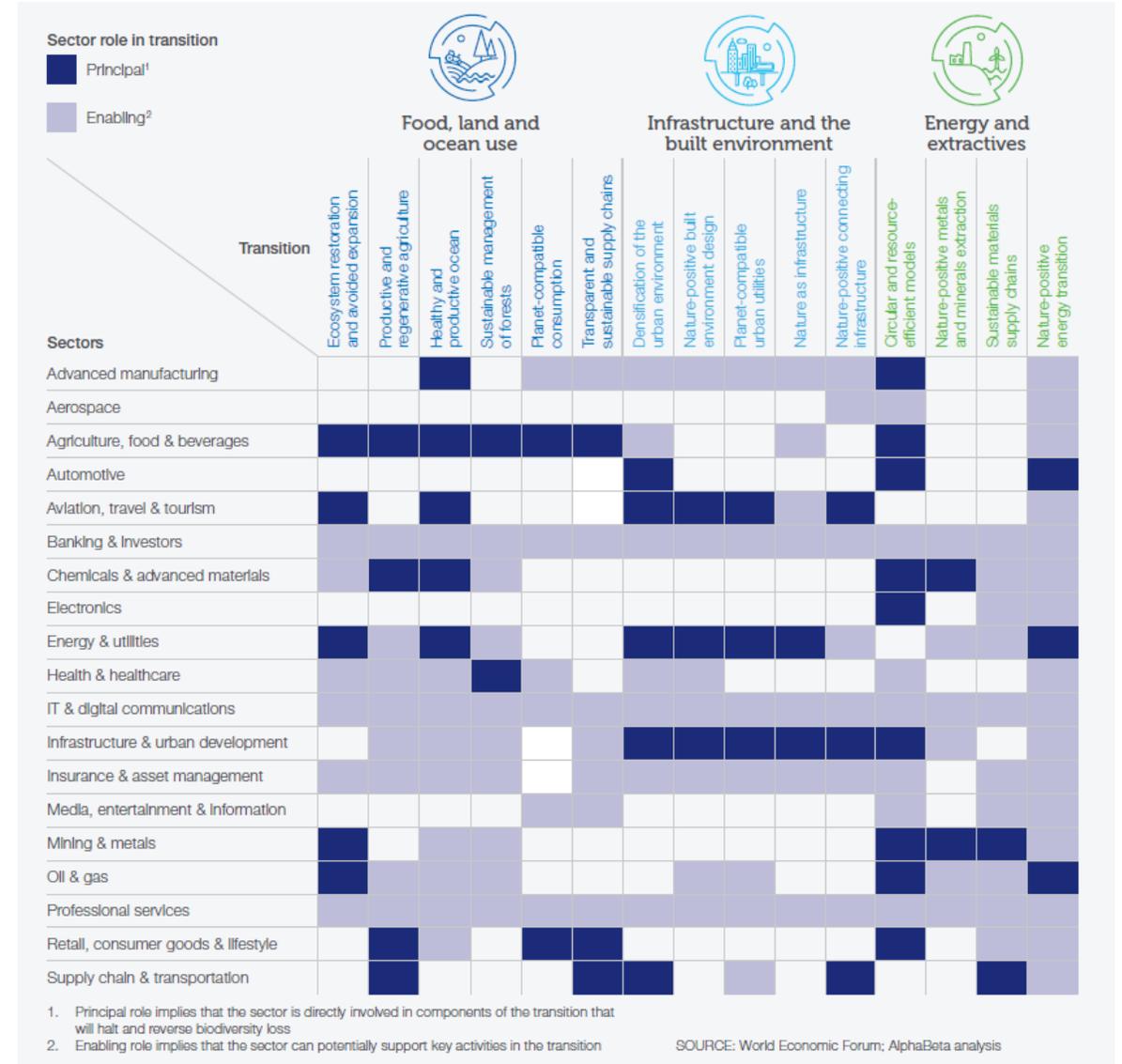
Total  
10,110

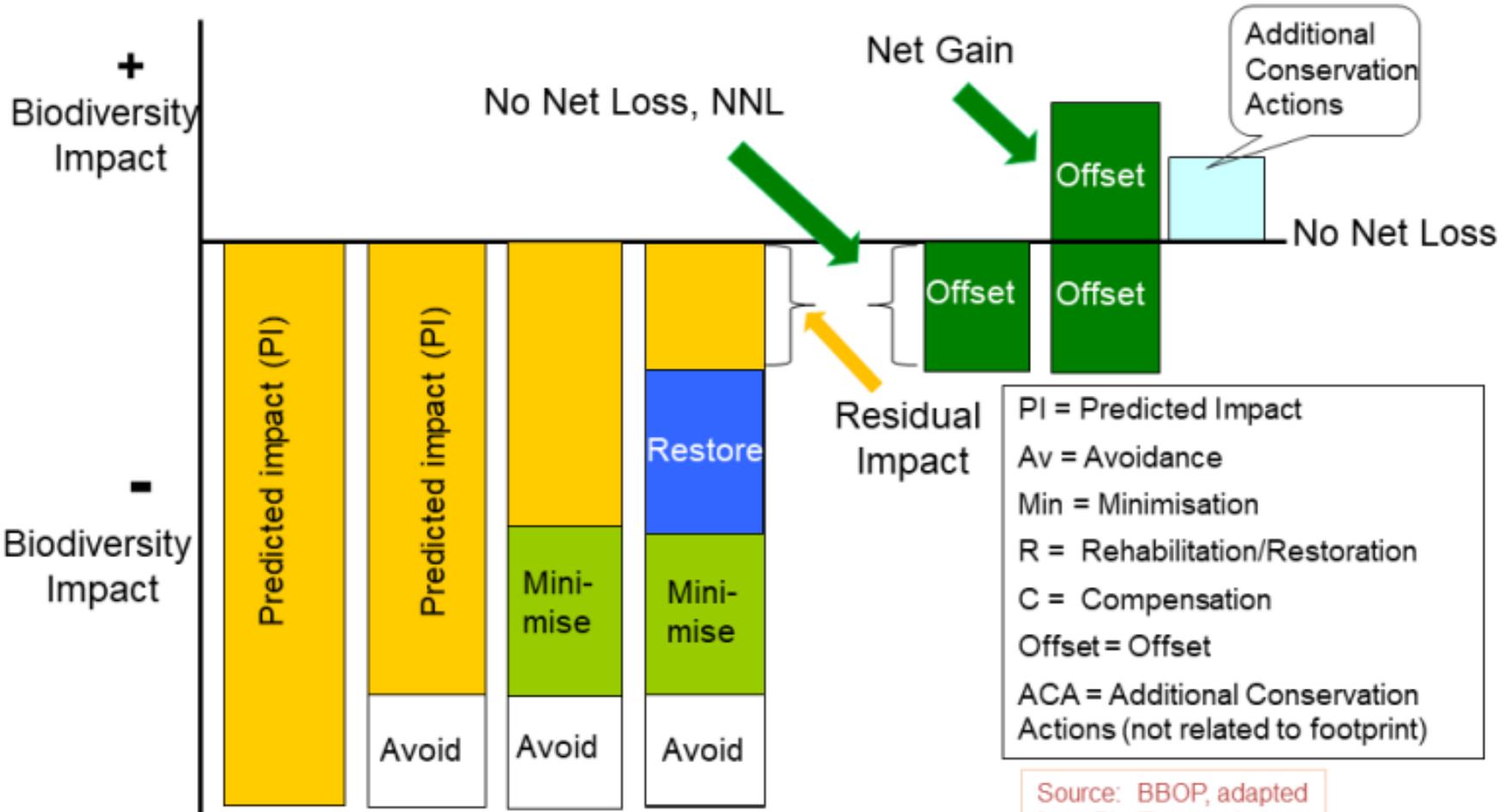
Total jobs by  
system in 2030  
Millions



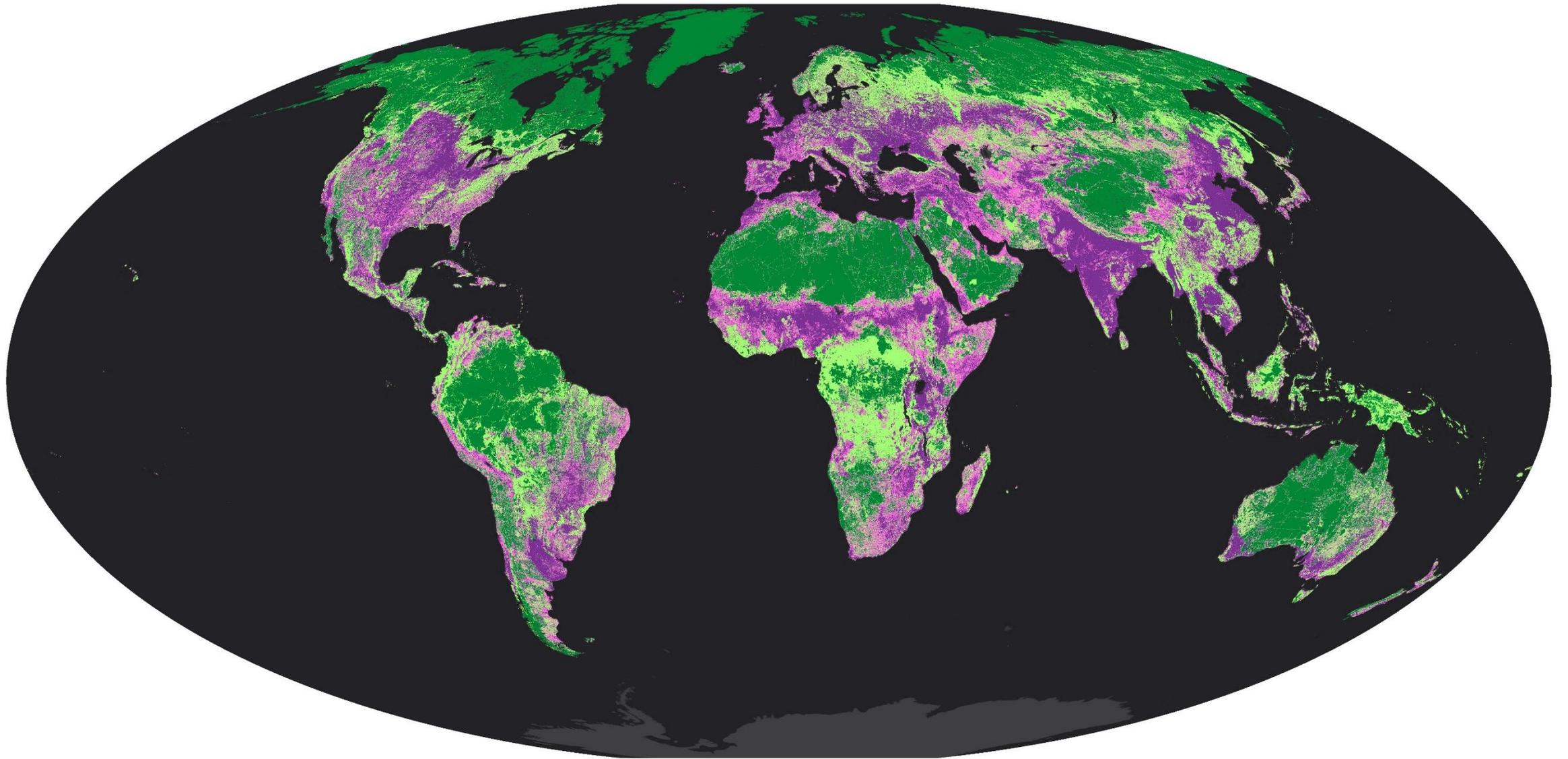
395

# These opportunities are not available under business as usual





Source: BBOP, adapted from Rio Tinto and government of Australia



■ Likely Natural ■ Potential Natural ■ Potential Modified ■ Likely Modified

**What next?**

**UN**   
**environment  
programme**

**WCMC**

# THANK YOU

[matt.jones@unep-wcmc.org](mailto:matt.jones@unep-wcmc.org)

[unep-wcmc.org](http://unep-wcmc.org)

Facebook: [@unepwcmc](https://www.facebook.com/unepwcmc)

Twitter: [@unepwcmc](https://twitter.com/unepwcmc) [@mij\\_matt](https://twitter.com/mij_matt)

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