## Why we need transformative scenarios for people and nature: Diverse scenario approaches, including the Nature Futures framework

IGES, 26 February 2024

Laura Pereira

Global Change Institute, University of the Witwatersrand

Stockholm Resilience Centre, Stockholm University



Stockholm Resilience Centre Sustainability Science for Biosphere Stewardship















Anthropocene is novel, turbulent, accelerating, hyperconnected and unequal

## 'The future is already here it is just unevenly distributed' William Gibson



# What do preferable futures for people and nature look like?

Image: Simon Stålenhag/Radical Ocean Futures

17 JUL 2019 | STORY | ENVIRONMENTAL RIGHTS AND GOVERNANCE

## Towards the vision 2050 on biodiversity: living in harmony with nature

The vision of the Kunming-Montreal Global Biodiversity Framework is a world of living in harmony with nature where "by 2050, biodiversity is valued, conserved, restored and wisely used, maintaining ecosystem services, sustaining a healthy planet and delivering benefits essential for all people."



Before we can think of pathways or interventions, we need to build capacities to envision where it is we want to go and what these transformed futures could look like

## Using scenarios for global biodiversity

#### **2016 IPBES Methodological Assessment**

Scenarios are available and they are useful tools for policy support, but:

- Most global scenarios are developed for other purposes, e.g., climate change and its impacts
- Few scenarios detail 'positive' futures most global scenarios are limited to assessing only impacts on nature, and tend to be negative
- Most global scenarios lack a participatory approach
- Different policy and management responses relating to nature are often not well represented



The methodological assessment report on SCENARIOS AND MODELS OF BIODIVERSITY AND ECOSYSTEM SERVICES



#### IPCC Shared Socio-economic Pathways: Findings from 2019 Global BES assessment



The Intergovernmental Platform on Biodiversity and Ecosystem Services

"Stories are powerful things: they create our reality as much as they explain it." – Alex Evans



## We need to learn to tell better science stories

#### MENU Y nature

EDITORIAL · 07 MARCH 2018

#### Learn to tell science stories

Ocean researchers are among those inspired by science fiction to tell diverse tales of the future.

🖌 (f) 🖾



#### RELATED ARTICLES Where Bladerunner began: years of Do Androids Drean of Electric Sheep? How to write for Nature

Futures

Subscribe

https://www.nature.com/articles/d41586-018-02740-5



Science-fiction Prototyping (Merrie et al 2018, Futures)



IPBES Expert group on scenarios and models (2016 - 2019) tasked to establish a new Global Scenarios Framework:

- Nature-centric
- Positive provide direction for futures that <u>we want</u> to help us determine what we need to do to achieve goals and targets
- Recognise that there are different world views, knowledge systems, ways of valuing nature

## IPBES Task Force on Scenarios and Models of biodiversity and ecosystem services

Visions for nature and nature's contributions to

MATURE

ort from an IPBES visioning workshop held on 4-8 Septer

people for the 21" century





Phase II (2016-2019): initial participatory development of the Nature Futures Framework

Phase III (2019-2023): further development of Nature Futures Framework scenarios

Nature for society

Instrumental values

Natural capital

The Intergovernmental Platform on Biodiversity and Ecosystem Services

www.ipbes.net

Nature for nature

Intrinsic values

Space allocated to nature

Nature as culture

Relational values

People in harmony with nature

Reciprocity

### IPBES Task Force on Scenarios and Models: Nature Futures Framework Timeline



Adapted from Pereira , L. et al. (2020) People and Nature

## 2017: Generating 7 visions of desirable futures for people and nature with diverse IPBES stakeholders

 1<sup>st</sup> step in developing new global biodiversity scenarios "Visioning Nature Futures" Workshop 4-8 Sep 2017, Auckland, New Zealand



### 2018: Mapping visions across dimensions and drivers: The Hague



Pereira, L. M., K. K. Davies, E. den Belder, ...C. J. Lundquist. 2020. Developing multiscale and integrative nature–people scenarios using the Nature Futures Framework. People and Nature **2:1172-1195.** 

The Intergovernmental Platform on Biodiversity and Ecosystem Services

## **2021: Online Dialogues with National focal points and ILK Task Force workshop**





Anjali Choudhary (Asia)



Choti Tekam (Africa)

Naresh Bhoye (Americas)



The Nature Futures Framework: A flexible tool to support the development of scenarios and models of desirable futures for people, nature and Mother Earth



unesco

Decision IPBES-9/1 https://www.ipbes.net/resource-file/104074

### Many uses for the Nature Futures Framework

- Visioning
- Identifying pathways to positive futures
- Narrative development
- Qualitative modelling
- Quantitative modelling
- Developing indicators of pluralistic nature values



## NFF illustrative narratives: Characterizing six areas of the NFF space







Nature Futures Visioning for the Korean DMZ

### Informing National Biodiversity Strategies and Action Plans (NBSAPs



Te Mana o te Taiao – Aotearoa New Zealand Biodiversity Strategy 2020

https://www.doc.govt.nz/nature/biodiversity/aotearoa-new-zealand-biodiversity-strategy/te-mana-o-te-taiao-summary/

## Nature Futures with the Ngoni Kingdom, Malawi











"Sci-Fi is the only genre that enables African writers to envision a future from our African perspective... The value of this envisioning cannot be overstated nor negated. If you can't see and relay an understandable vision of the future, your future will be co-opted by someone else's vision, one that will not necessarily have your best interests at heart" (Hartmann, 2012: 111)."





Humans have changed the way the world works. Now they have to change the way they think about it too. - The Economist, 2011