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

IGES, 26 February 2024

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Stockholm Resilience Centre, Stockholm University





Stockholm Resilience Centre Sustainability Science for Biosphere Stewardship

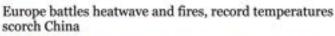


Madagascar on the brink of climate change-induced famine

By Andrew Harding Africa correspondent, BBC News

③ 2 days ago







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Extreme weather live: heatwave red alerts expected for more cities in Italy; Greece wildfires spread

Twenty-three of Italy's 27 main cities expected to be under red ng temperatures continue; wildfires north and west e residents to fiee itals report sharp rise in emergency cases as Rome

Fires and floods, *leat Waves Grip 3 Continents as limate Change Warms Earth*

ross North America, Europe and Asia, hundreds of millions of ople endured blistering conditions. The U.S. special envoy for mate change called it "a threat to all of humankind."

The Fires in Greece Are a Terrifying Warning

Climate change extreme weather costs Germany billions annually

heatwaves and

hurricanes

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to climate change

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EXTRAPOLATIONS

AN UNNATURAL HISTORY

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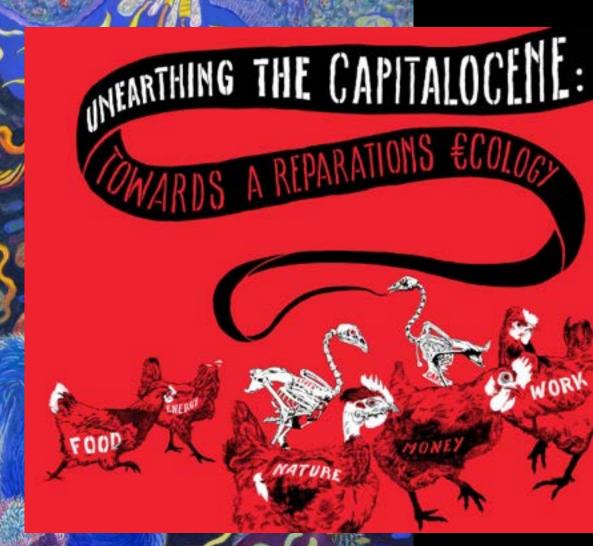
Don't Look

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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

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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."



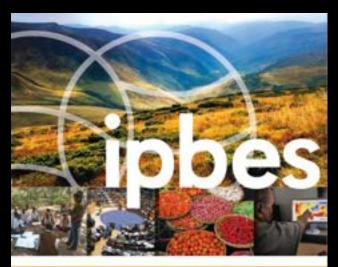
Before we can think of pathways or interventions, we need to build capacities to envision where it is we want to go and what these transformed futures could look like

Using scenarios for global biodiversity

2016 IPBES Methodological Assessment

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

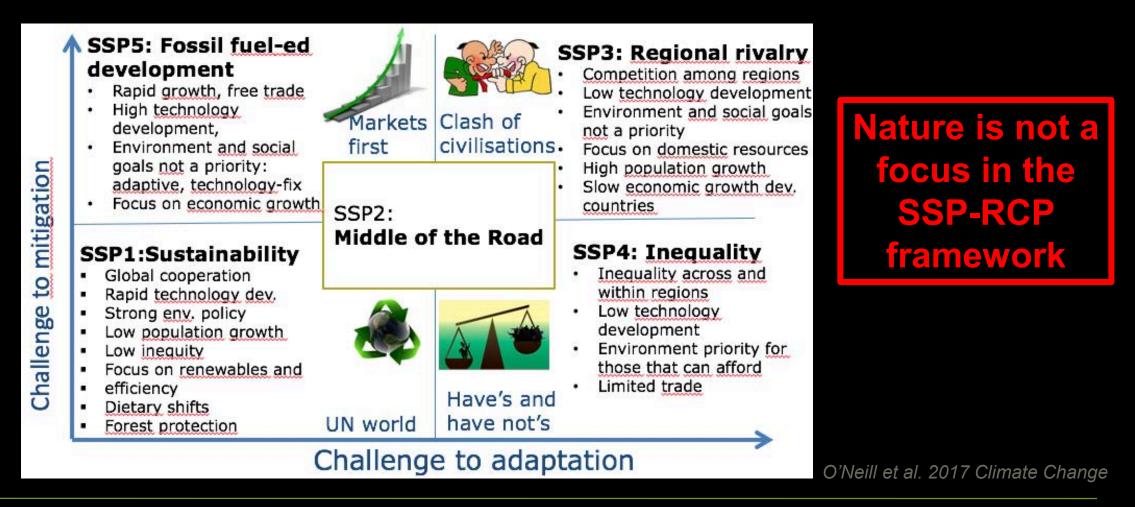
- Most global scenarios are developed for other purposes, e.g., climate change and its impacts
- Few scenarios detail 'positive' futures most global scenarios are limited to assessing only impacts on nature, and tend to be negative
- Most global scenarios lack a participatory approach
- Different policy 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



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

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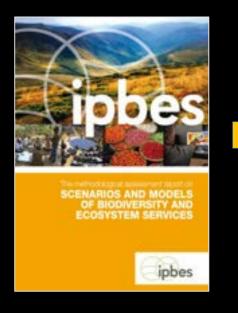
Science-fiction Prototyping (Merrie et al 2018, Futures)

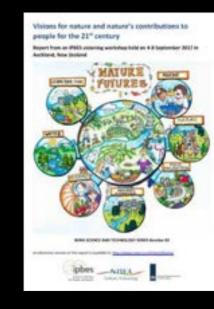


IPBES Expert group on scenarios and models (2016 - 2019) tasked to establish a new Global Scenarios Framework:

- 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





Phase I (2014-2016): Assessment of the use of scenarios and models of BES 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

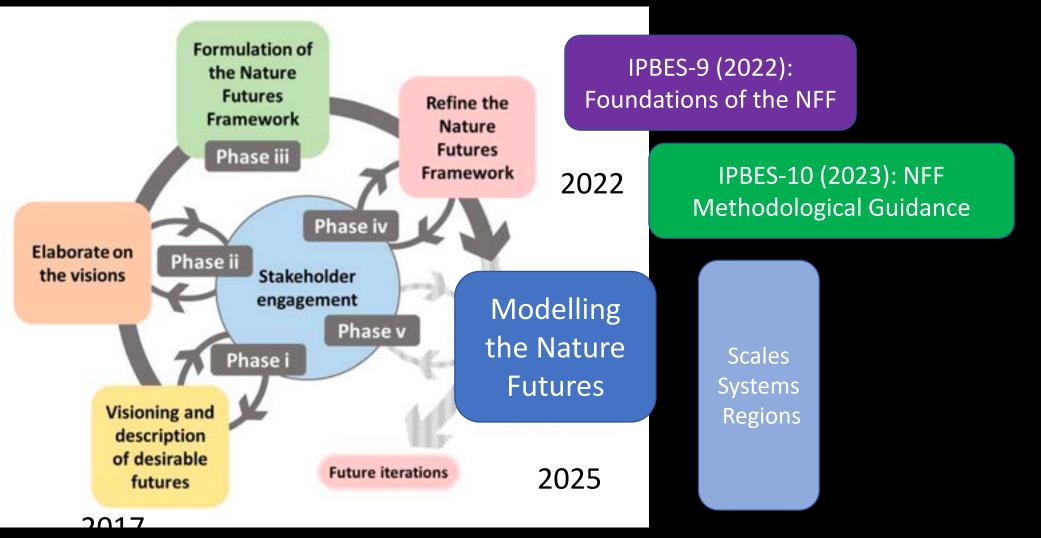
Nature as culture

Relational values

People in harmony with nature

Reciprocity

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



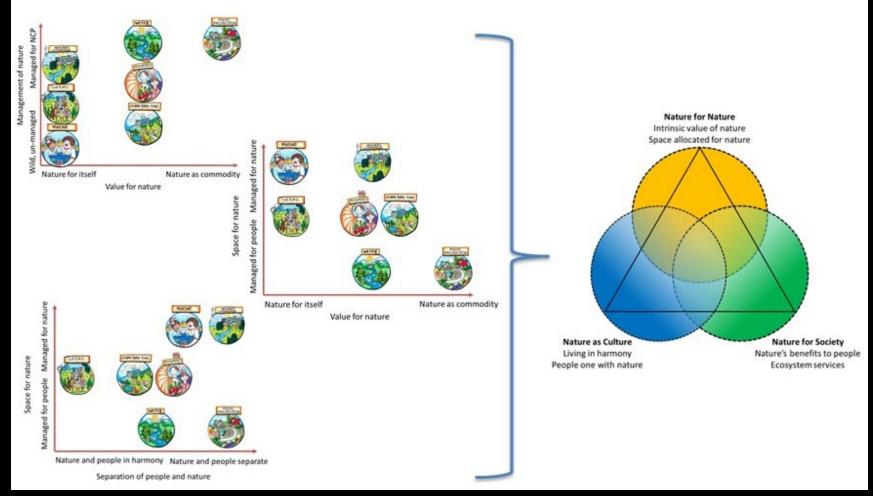
Adapted from Pereira , L. et al. (2020) People and Nature

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

 1st 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



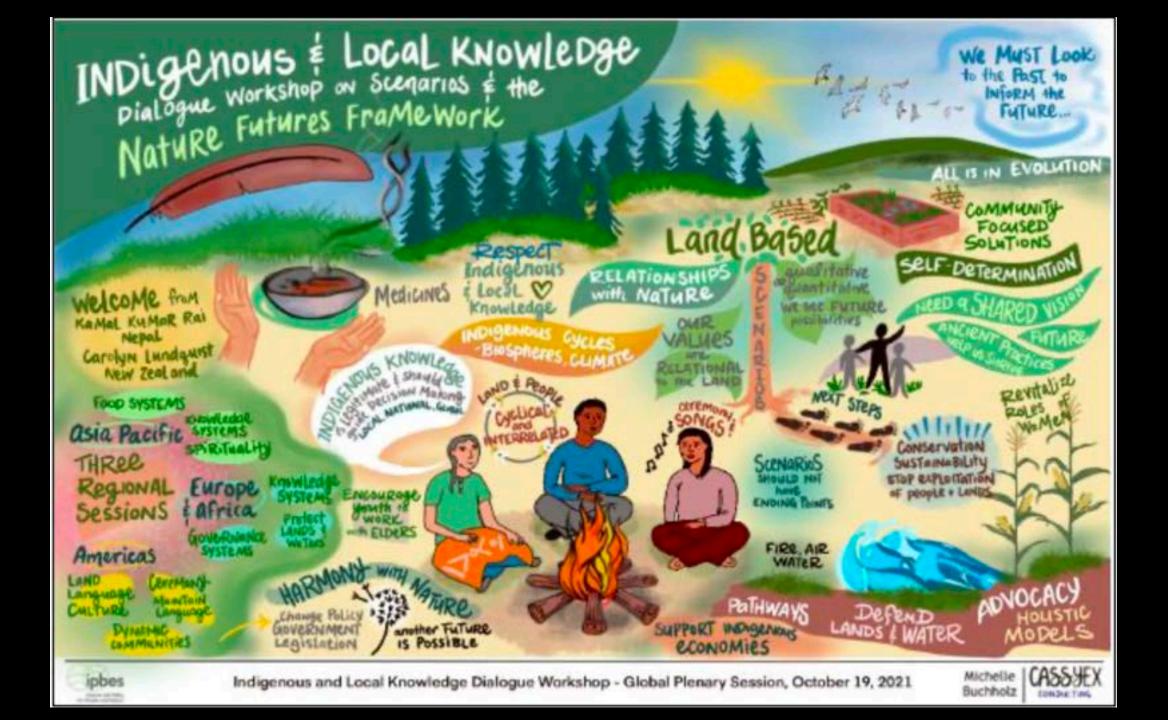
Choti Tekam (Africa)



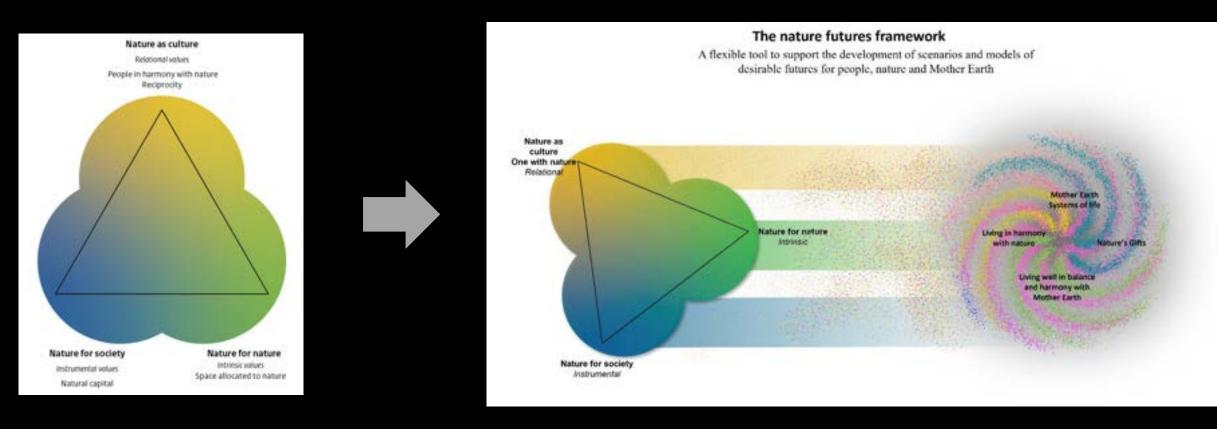
Anjali Choudhary (Asia)



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



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



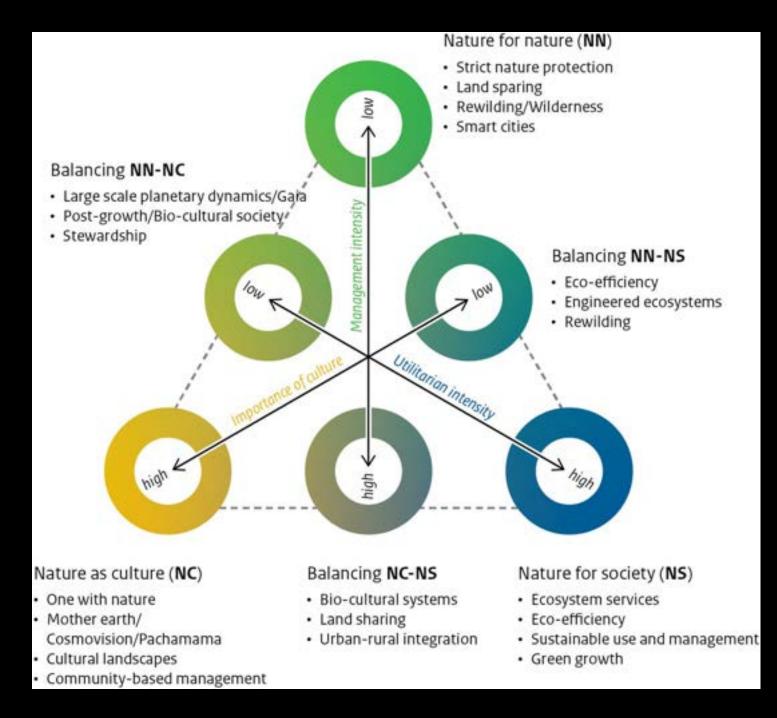


Many uses for the Nature Futures Framework

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



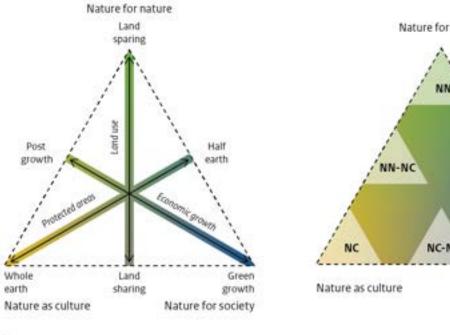
NFF illustrative narratives: Characterizing six areas of the NFF space

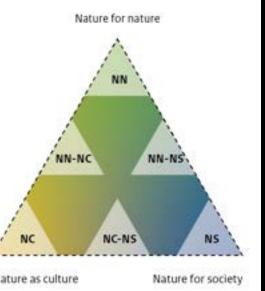


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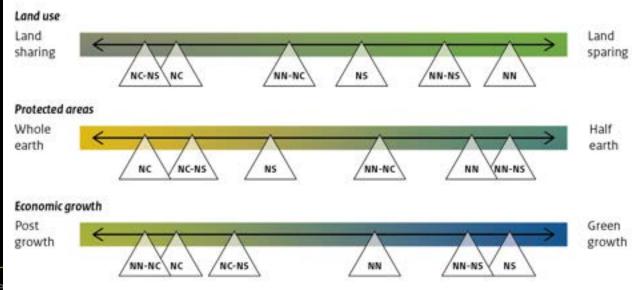
A. Scenarios of protected areas, land use and economic growth in the Nature Futures Framework

B. The 6 narrative points in the Nature Futures Framework



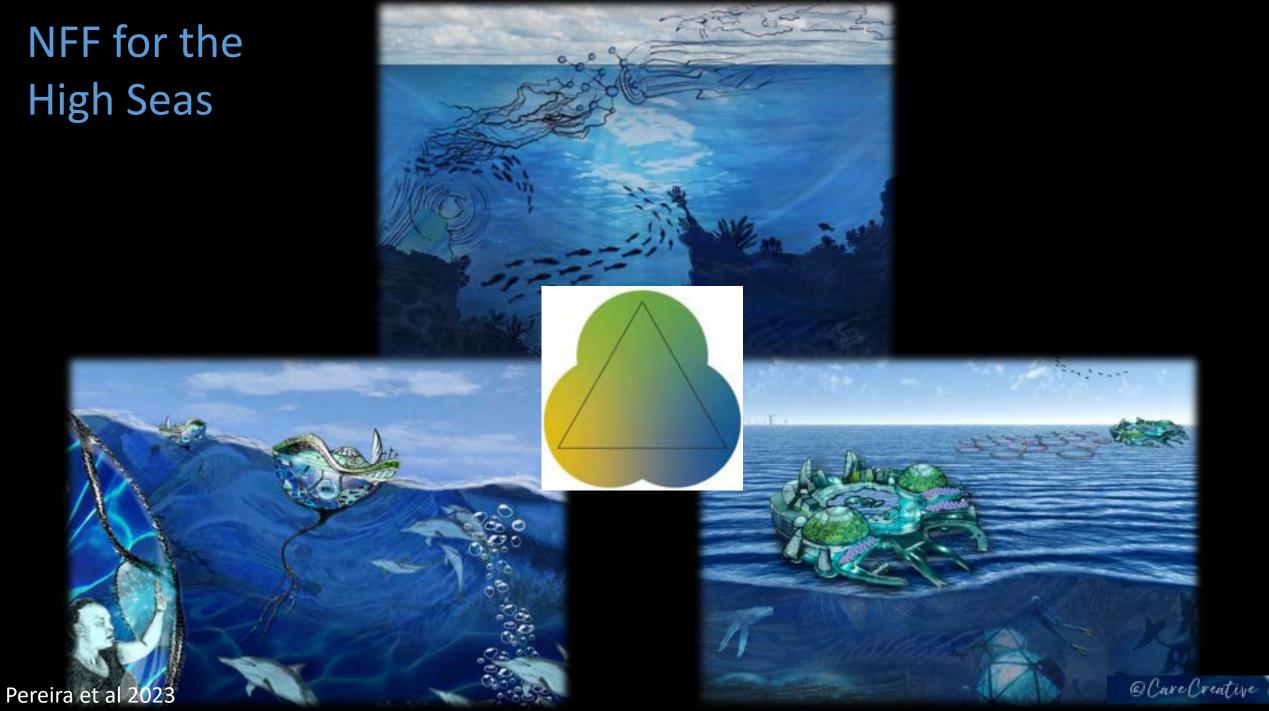






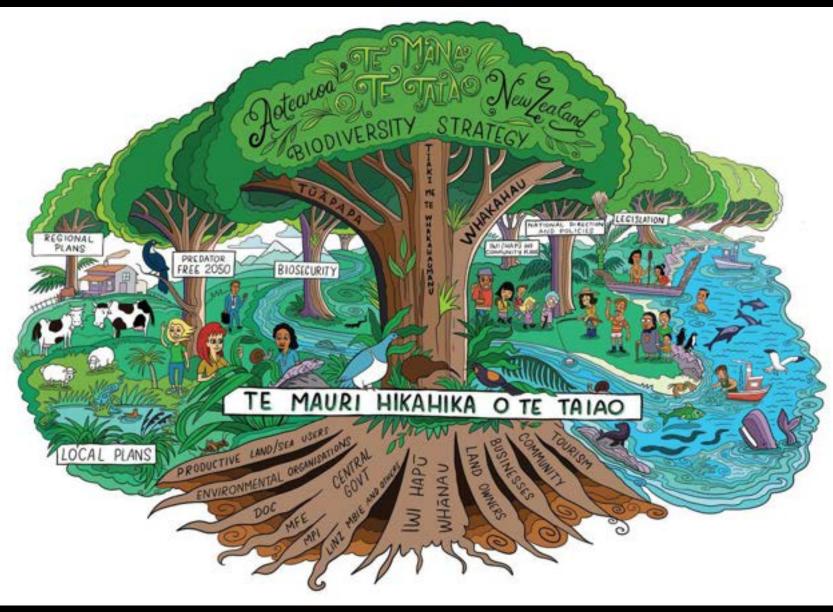
The Intergovernmental Platform on Biodiversity and Ecosyste

NFF for the High Seas



Nature Futures Visioning for the Korean DMZ

Informing National Biodiversity Strategies and Action Plans (NBSAPs



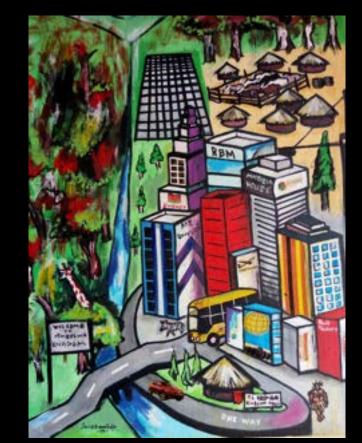
Te Mana o te Taiao – Aotearoa New Zealand Biodiversity Strategy 2020

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



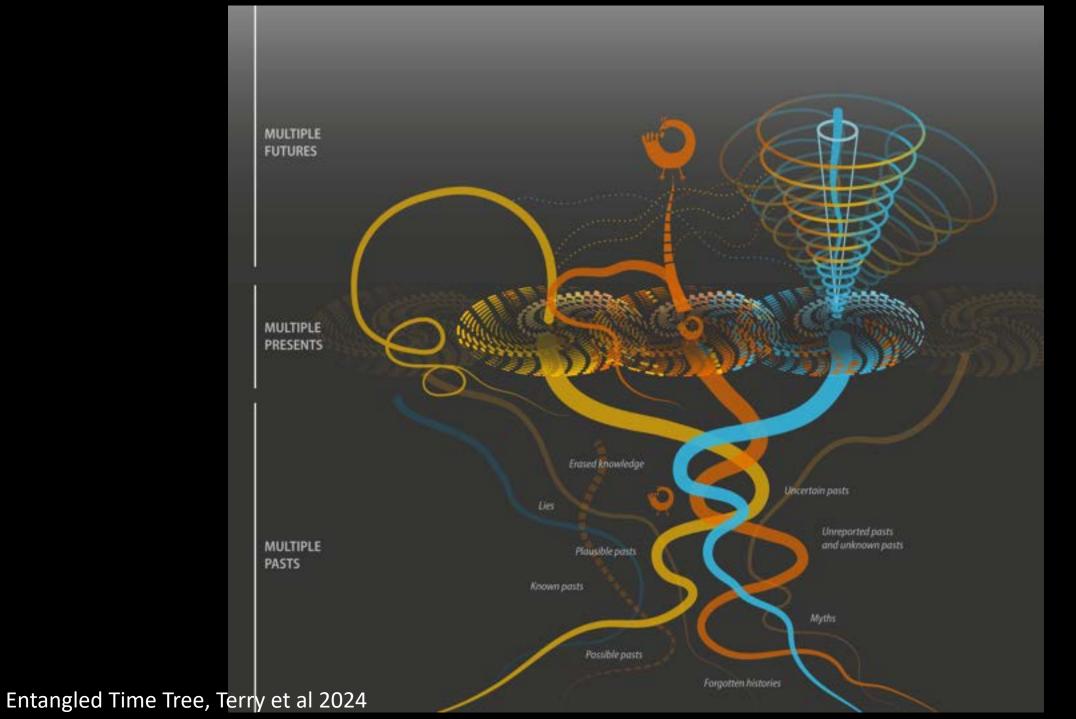








"Sci-Fi is the only genre that enables African writers to envision a future from our African perspective... The value of this envisioning cannot be overstated nor negated. If you can't see and relay an understandable vision of the future, your future will be co-opted by someone else's vision, one that 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