IPBES Goals. Challenges, Opportunities

And the Regional Assessments

What is it and why was it established?

- Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services
- Modeled on IPCC for similar science challenges
 - Questions fundamentally complex
 - Literature large but lack of consensus on many important points
 - Challenges are global, as are drivers
 - Policy options require large scale and small scale actions
- 129 States are now Parties, and growing
 - Nine new members between 2017 and 2018 Plenaries

What are the core science questions?

- Are we actually losing biodiversity on global and regional scales?
- If so, does it matter to human well-being (and in what ways)?
- What are the drivers of the changes?
- What are policy options to address the drivers?

Conceptual framework in papers by Diaz and coauthors

- Chapter structure of assessments reflects logic
 - Framing of the assessment,
 - Status and trend in Human well-being, Biodiversity, Drivers,
 - Scenarios, Policy options
 - SUMMARY for POLICY MAKERS

What makes IPBES assessments novel and challenging?

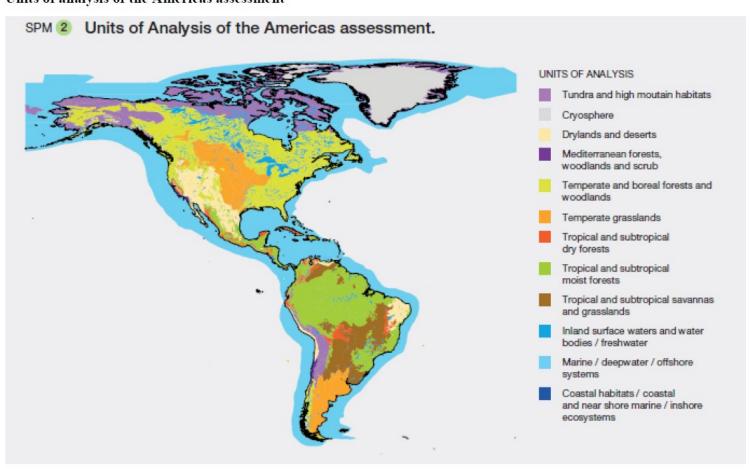
- Commitment to make extensive use of Indigenous and Local Knowledge as complete and equally legitimate knowledge systems – and then actually DOING IT.
- Commitment to reflect plurality of worldviews in interpretation of findings AND DOING IT.
- What's been achieved
 - Thematic assessment on Pollinators (Feb 2016)
 - Four Regional Assessments (March 2017)
 - Thematic Assessment on Land Degradation "

Americas regional assessment

• Who?

- Co-chairs: Jake Rice, Cristiana Seixas, Maria Elena Zaccagnini
- CLAs and LAs 115 experts with around 75 truly active,
- TSU and Central Secretariat
- Management Committee from MEP & Bureau
- 30 Months of effort
 - First Order Draft expert review with ~750 comments
 - SOD ~ 6300 comments (individual responses)
 - Final Version + SPM (9-12 drafts for final version+negotiation)
- From Arctic to Patagonia, including Caribbean
 - 140 deg of latitude. Coast to 2nd highest mountain chain, Huge cultural and economic diversity

Figure SPM.2 Units of analysis of the Americas assessment

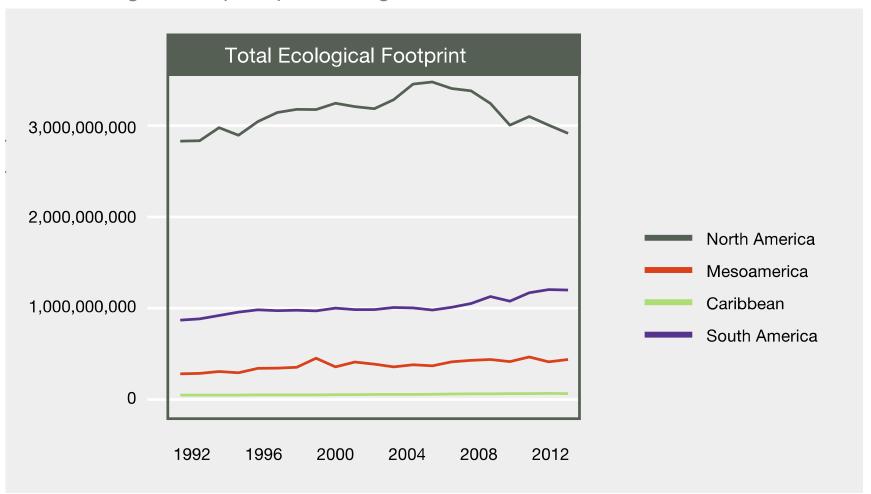




- 40% 0f Global Bio-capacity, with 13 % of the global human population produces 22.8% of the global ecological footprint of humankind. (65% in NA)
- Rate of use places Nature-based securities under pressure: Food: Water:, Energy: Health: Culture:
- Causes
 - Unsustainable rates of consumption
 - Decoupling of lifestyles from local habitats and direct degradation of the environment erode sense of place, language and local ecological knowledge, compromising cultural continuity.
- Tipping points are being approached.

Ecological footprints DO grow and the footprints CAN change

Total ecological footprint per subregion in the Americas between 1992 to 2012.



Source: Global Footprint Network, 2017

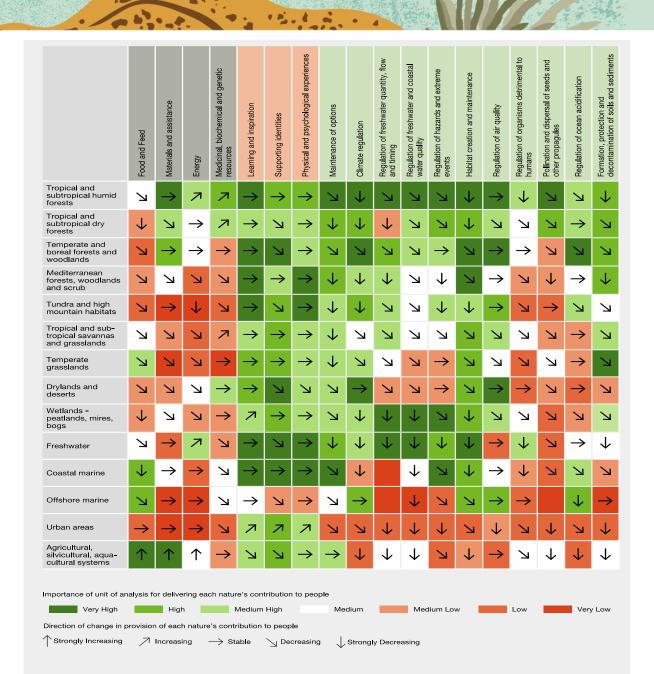


- 65 % of NCP in all units of analysis are declining, with 21% declining strongly.
- Compared to pre-European settlement, reductions of
 - 95 % of tall-grass prairie in NA;
 - 72 % and 66 % of tropical dry forest in Mesoamerica and the Caribbean, respectively;
 - 88 % of the South American Atlantic tropical forest,
 - 70 % of the Rio de la Plata grasslands,
 - 50 % of the tropical savanna
 - 50 % of the Mediterranean forest,
 - 34 % of the Dry Chaco
 - 17 % of the Amazon forest

Have all been transformed to human-dominated landscapes



- And these increasing pressures are having impacts on ability of all Units of Analysis to provide NCP;
- Particularly material NCP people use directly and some regulating NCP we depend on indirectly.



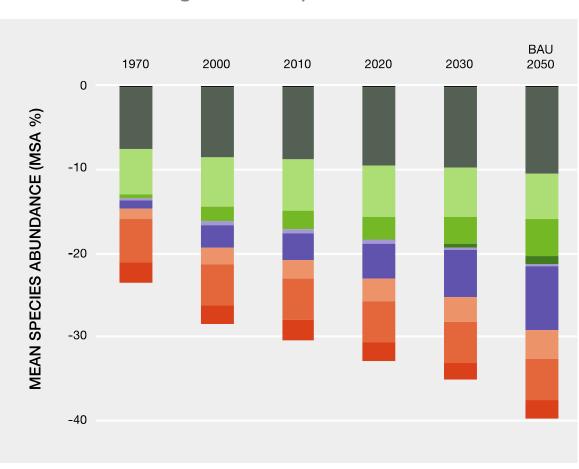


- Main INDIRECT Drivers of losses
 - Unsustainable patterns of economic growth
 - Weaknesses in the governance systems
 - Population and demographic trends
 - Inequity
- Main DIRECT Drivers of loss
 - Habitat degradation and fragmentation: ***
 - Land conversion, agricultural intensification, urbanization and other new infrastructure;
 - Overexploitation/overharvesting
 - Climate Change
- Includes consequences of each driver



- Population increase by 20 % to 1.2 billion and the GDP increase nearly 2X.
- Unsustainable agricultural practices and climate change to be major drivers of degradation.
- Multiple drivers will interact, often in synergistic ways.
- Consequence Further increase in biodiversity loss, reduction in ecosystems' resilience and the provision of present levels of NCP.

Pressures driving biodiversity loss in the Americas.



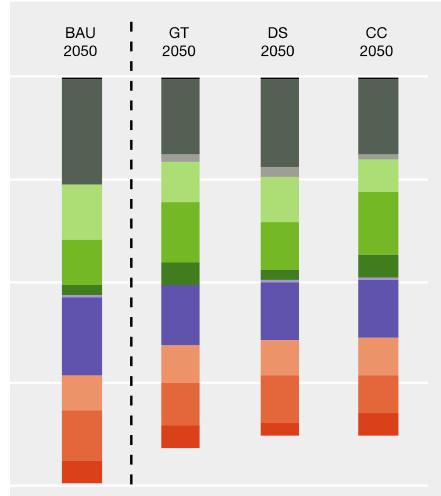
Source: PBL Netherlands Environmental Assessment Agency, 2012 and 2014.



Findings: What are alternative pathways and outcomes?

- Large-scale technologically-optimal solutions
- Decentralized governance solutions
- Consumption change solutions
 - All feature pathways to climate change mitigation, the expansion of protected areas and the recovery of abandoned lands

Pressures driving biodiversity loss in the Americas.



Source: PBL Netherlands Environmental Assessment Agency, 2012 and 2014.



- What initiatives are making a difference currently?
 - An increase in protected areas
 - Ecological restoration projects
 - Strategies for making human-dominated landscapes (supportive of biodiversity and nature's contributions to people are essential
- What options are available for progress
 - take into account short and long-term trade-offs, telecoupling and leakage and spillover effects on many scales.
 - Mainstreaming the environment effectively into economic and social development sectors.
 - No single governance approach including mixed governance systems
 - Behavioural change, individual corporate community State
 - TABULATION of instruments and performance

The oceans and coastal coverage was VERY WEAK

- Where was the marine expert community?
 - Nomination of experts by national focal points
- WHY IT MATTERS TO GET ENGAGED
 - Global synthesis is covering high seas
 - Sustainable use of natural resources (start 2019)
- HOW TO ENGAGE
 - Make yourself and interest known to national focal points,
 - Get your marine and coastal Ministries aware