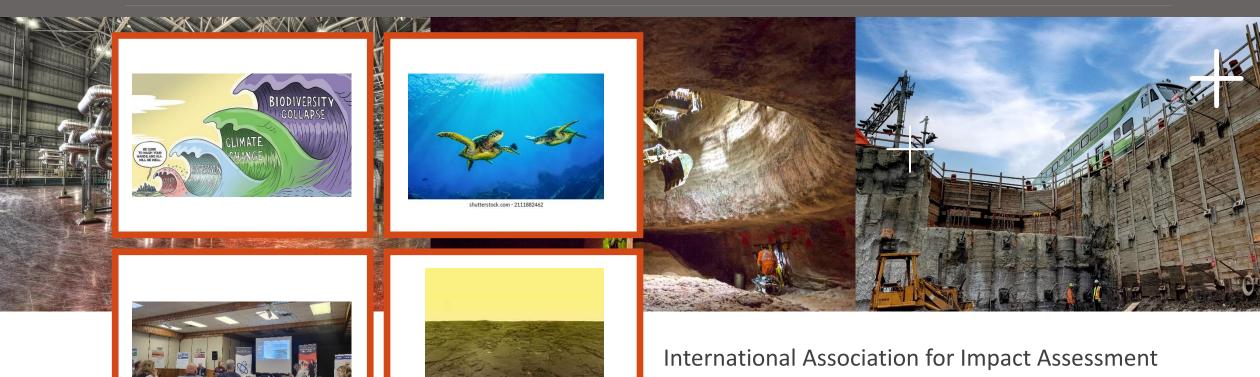
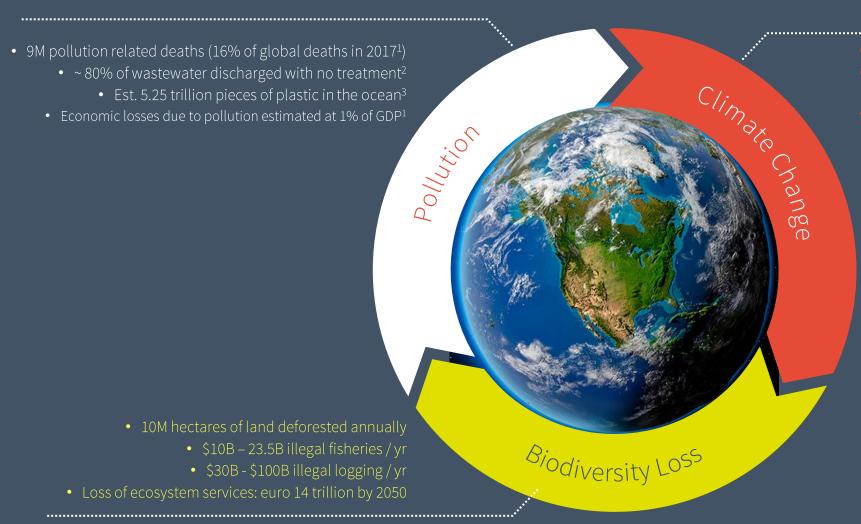
# Transforming environmental governance to improve ESG Outcomes



International Association for Impact Assessment Mellissa Winfield, Global Director Hatch Ltd Kuching, Malaysia

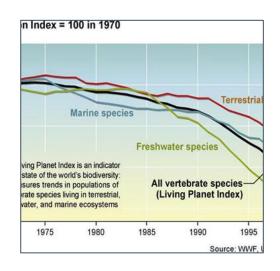
# Triple Planetary Threat



- 58 Gt of CO2e emitted (2022)
- Canada has highest per capita rate of GHG emission 3x's the global average
- \$165B in climate / weather related disasters in the USA
  - the third most costly year on record<sup>4</sup>



# Biodiversity Assessments

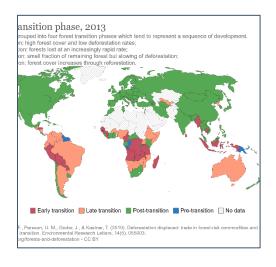


#### **Species Extinction Rates**

ESIAs under-estimate impacts

Mobility of wildlife populations and habitat use under-predicted

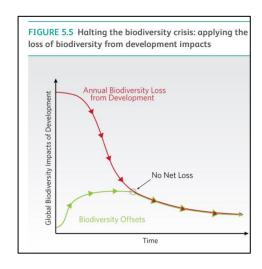
Multi-season / critical life history stage field baseline studies for specific species may not be undertaken



#### **Habitat Loss**

Loss of wildlife habitat / impacts evaluated as 'Not Significant'

Cumulative loss / impacts not meaningfully considered



Offsetting

Offsetting not always required

Offset habitat may not Be of equal productivity value

time lag delays not considered



## Pollution

### Issues within ESIA's:

- Lack of baseline data
- Waste Discharges Under predictions
- Inadequate monitoring of performance and mitigation
- Accidents and Malfunctions
- Scoping e.g., shipping routes; supply chains not considered

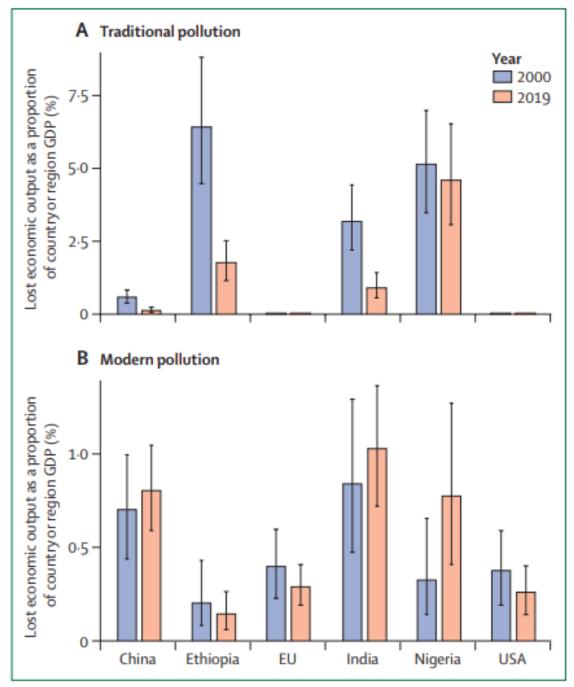


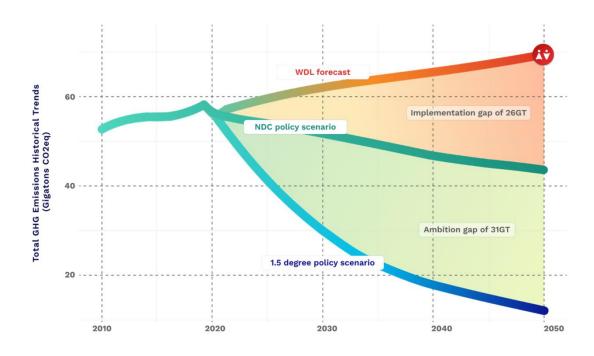
Figure 5-1 act accommission to a properties of country CDB due to deather

# Climate Change: GHG Emissions

### Issues within ESIA's:

- Focus on quantifying Scope 1 /2 emissions, with less emphasis on Scope 3
- Carbon capture does not offset full emission load

With no change, the implementation and ambition gaps will keep growing (Brookings, 2023)





## Sustainable Development Paradigm

- Trade-offs: environment vs. social vs. economy
- 'Justified in the circumstances' -Socio-economic benefits used to justify significant environmental impacts

What happens when the socio-economic benefits don't materialize?

e.g., only 59% of the estimated 583 jobs predicted for 3 coal mine projects in BC from 1999 – 2019 actually materialized (Collard et al., 2023)



# Are we focusing on the right priorities?

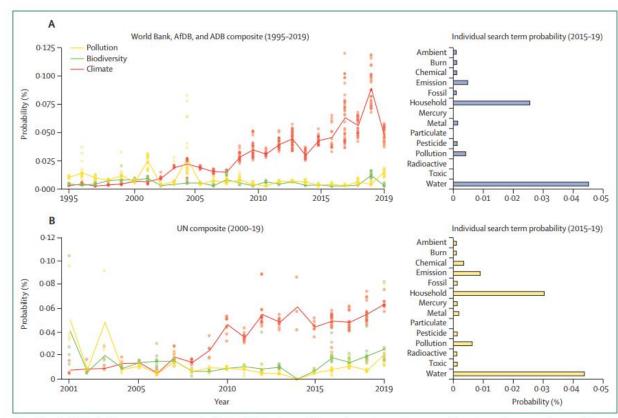
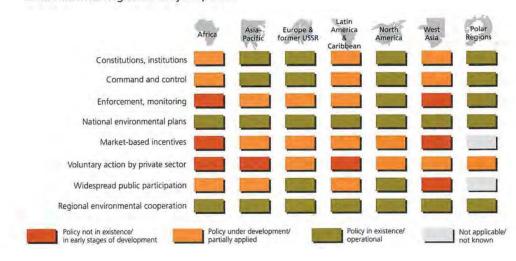


Figure 6: Probability of subject matter coverage of pollution, biodiversity, and climate change (composite terms and key phrases) in country framework documents

#### **Environmental Regional Policy Responses**





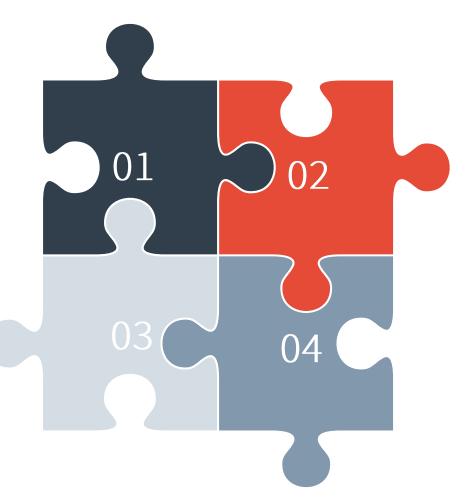
# Transformational Progress – every piece counts

#### Impact Assessment

- Enhanced use of quantitative assessment approaches
  - Technology investments
- Improved mitigation performance (net-zero habitat loss; GHG emissions
  - Implementation

#### Reform

- Centralized authority: IEPA
- Affirmative cross-sector policies
- Harmonized / consistent standards
  - Political will
  - Leadership



#### Participatory Democracy

- Process legitimacy
- Multi-stakeholder / multi-scale
- Global to regional linkages and networks
- Voluntary initiatives

#### Funding

- Appropriately scaled
- Committed long-term investment of the annual US \$3-6 trillion needed to tackle planetary threats
- Increased use of market mechanisms
- Green financing (Tax credits, subsidies, bonds etc)



## A Possible Solution?



Establish International Environmental Protection Agency



Fund IEPA



Harmonize Standards



Enforce Member Agreements

Statute with International Authority

Member State Consent Agreements

Democratic decisionmaking structure Statutory Budget Allocation from every Member State

Polluter pays / Cost Recovery

Protective requirements to reduce offshoring / competitive advantages

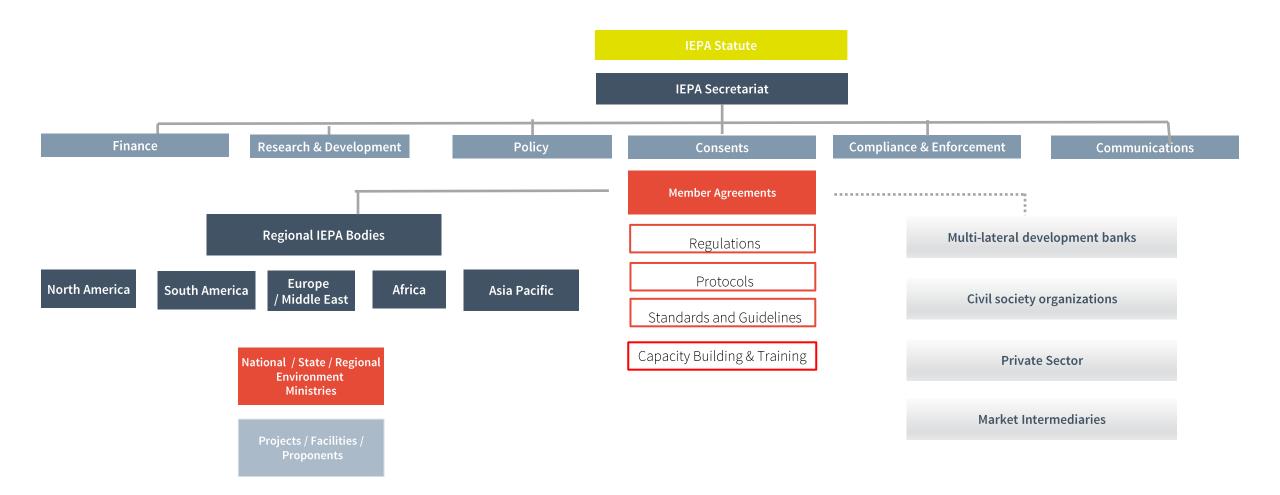
Provide certainty of requirements

Motivate technological innovation

Inspections / audits
Follow-up Monitoring
Offsetting req'ts
Restoration
Polluter fines & penalties
Environmental crimes
Continuous improvement



## IEPA Structure





## Let's continue the conversation!

Post questions and comments in the IAIA23 app.

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