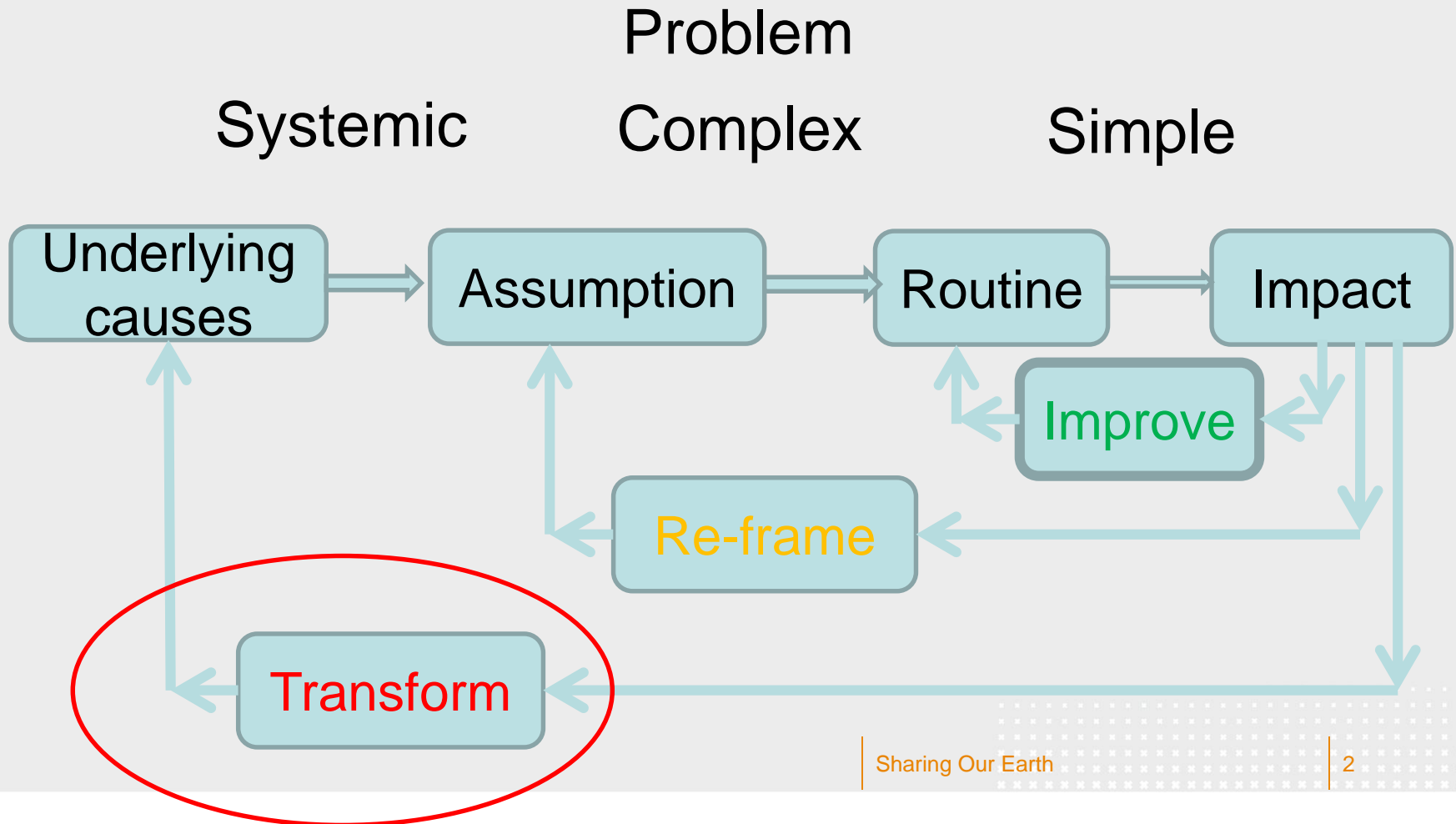


# Sharing Our Earth with Special Reference to Marine Ecospace

Joyeeta Gupta

# Learning in the anthropocene





# Sharing ecospace: Which rules will govern this?



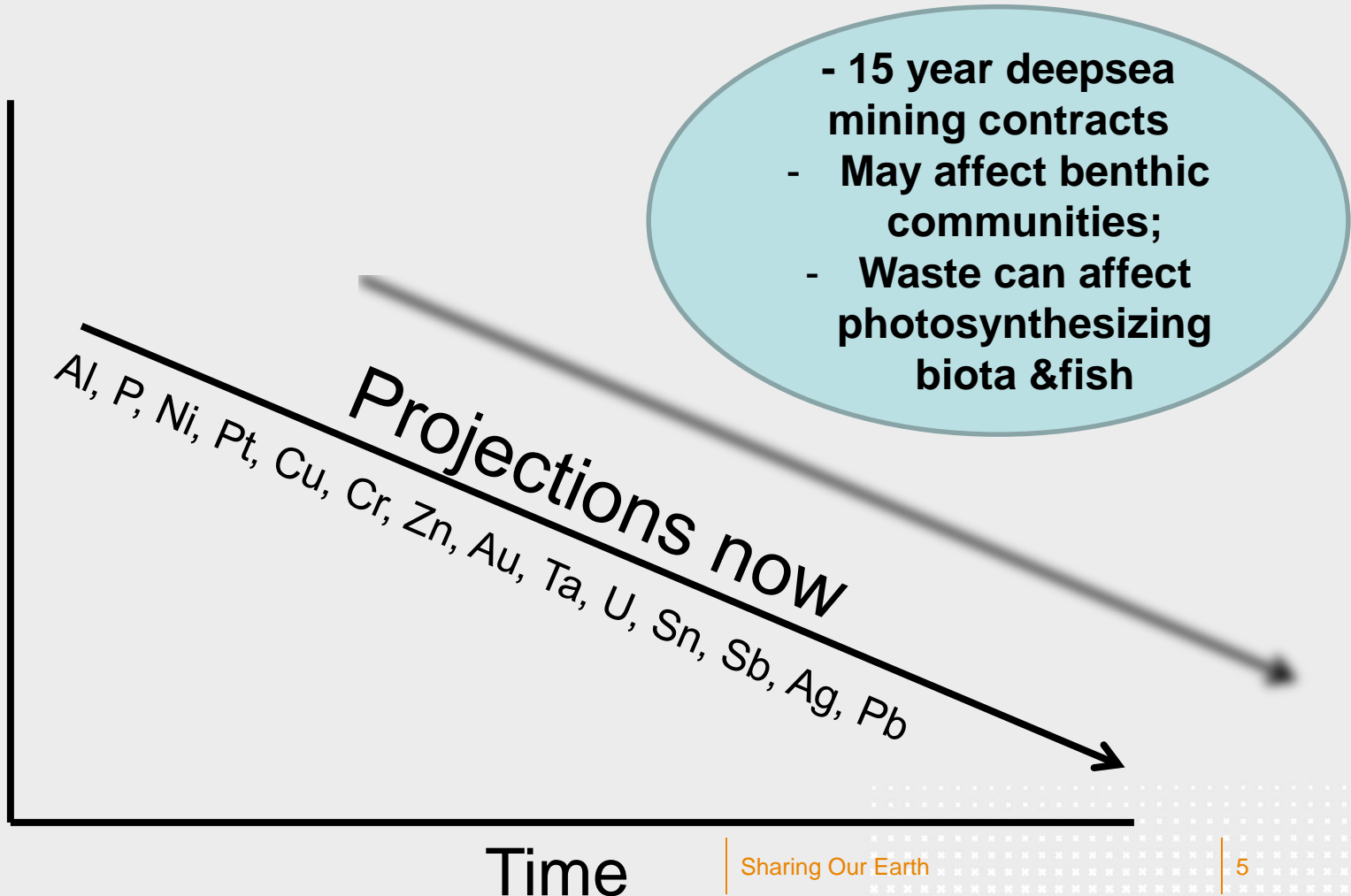


# Sharing our Earth (ecospace)

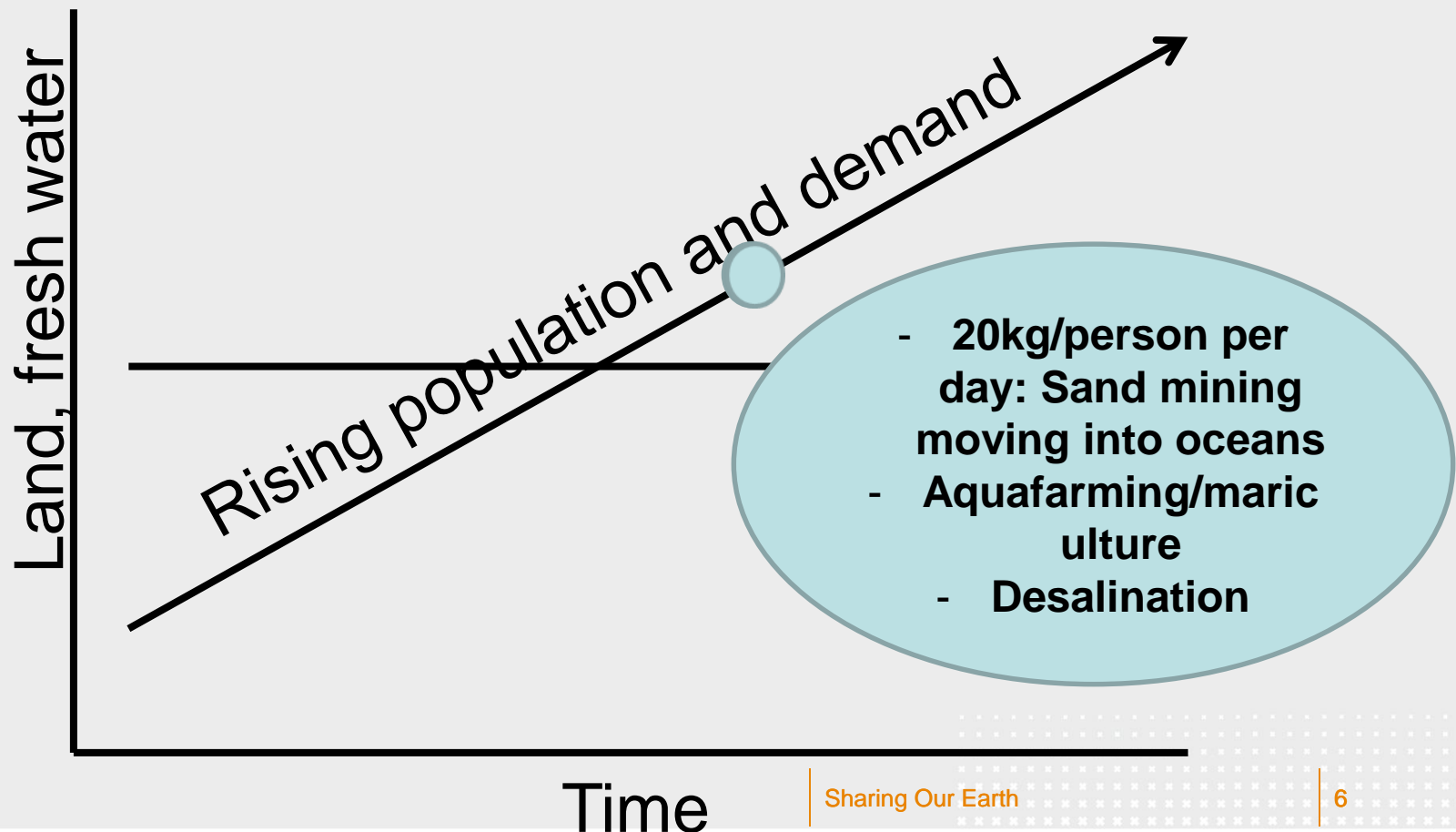
1. Shrinking (marine) ecospace
2. Governance choices
3. Constitutionalism

# Ecospace: 1. Shrinking abiotic resources - a

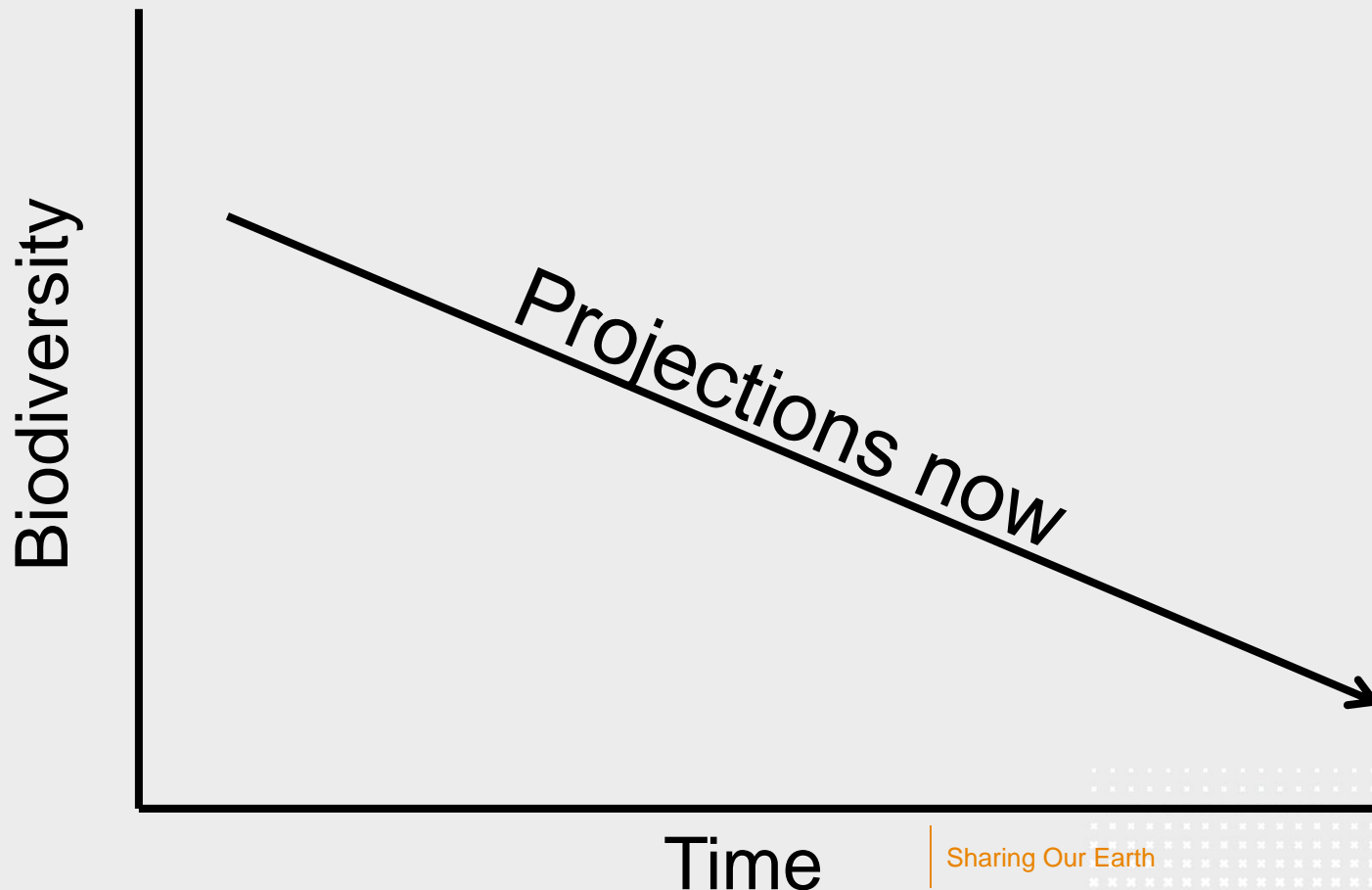
Metals & minerals (incl.  
deep sea minerals/metals



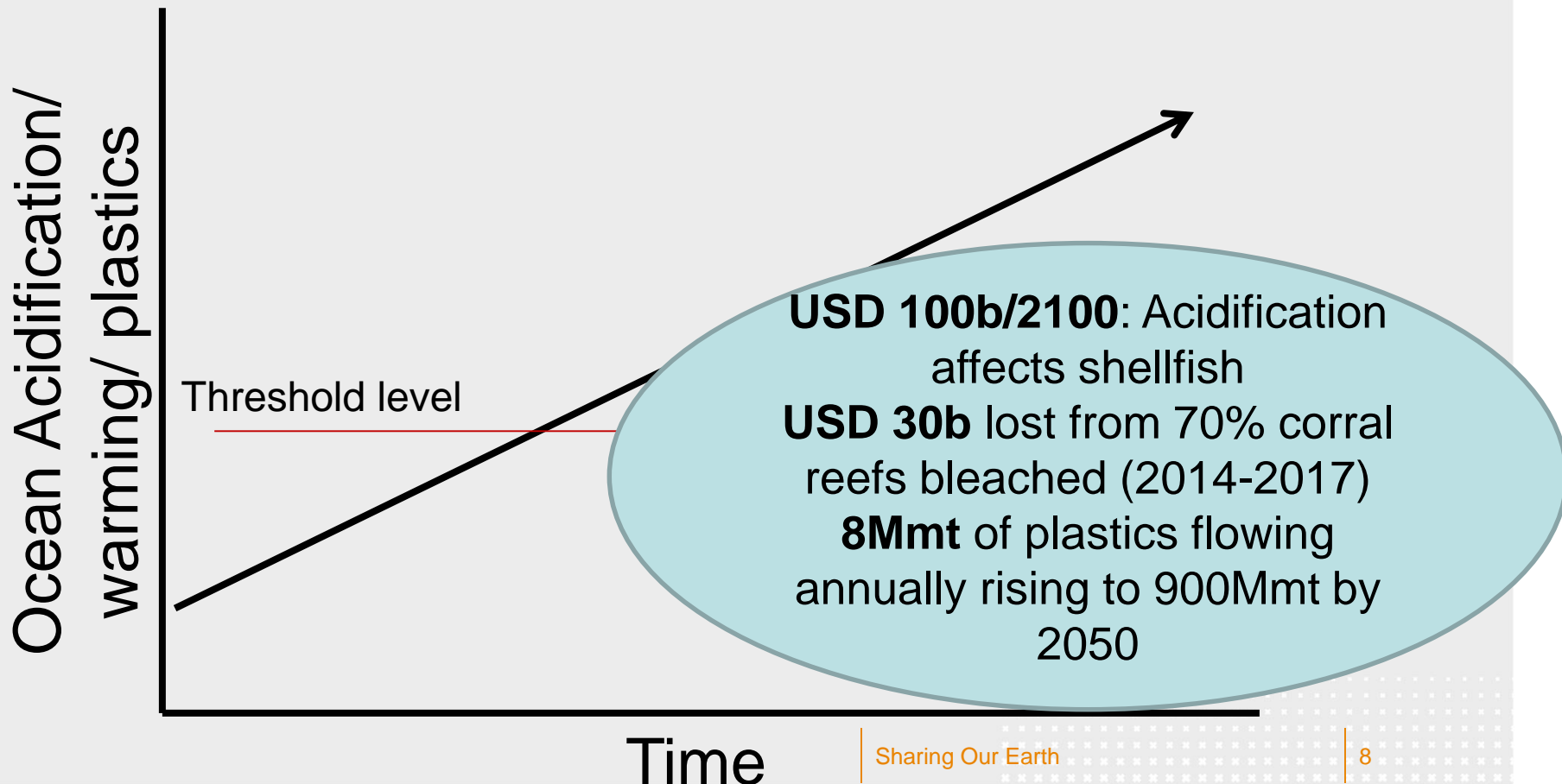
## Ecospace: 2. Fixed resources, rising demand



## Ecospace: 3. Shrinking biotic resources

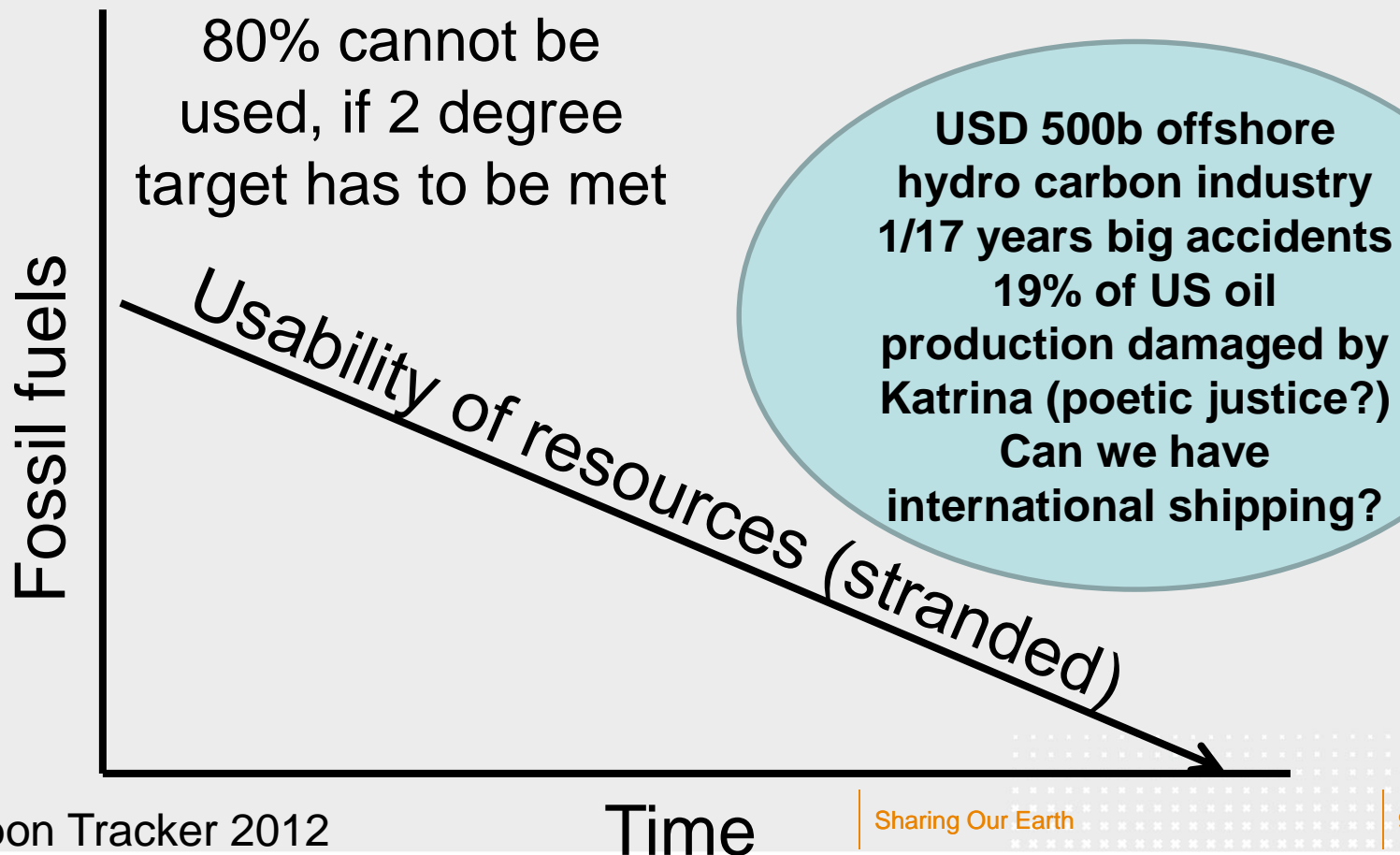


## Ecospace: 4. Shrinking sinks: Limits to ocean acidification (critical loads)

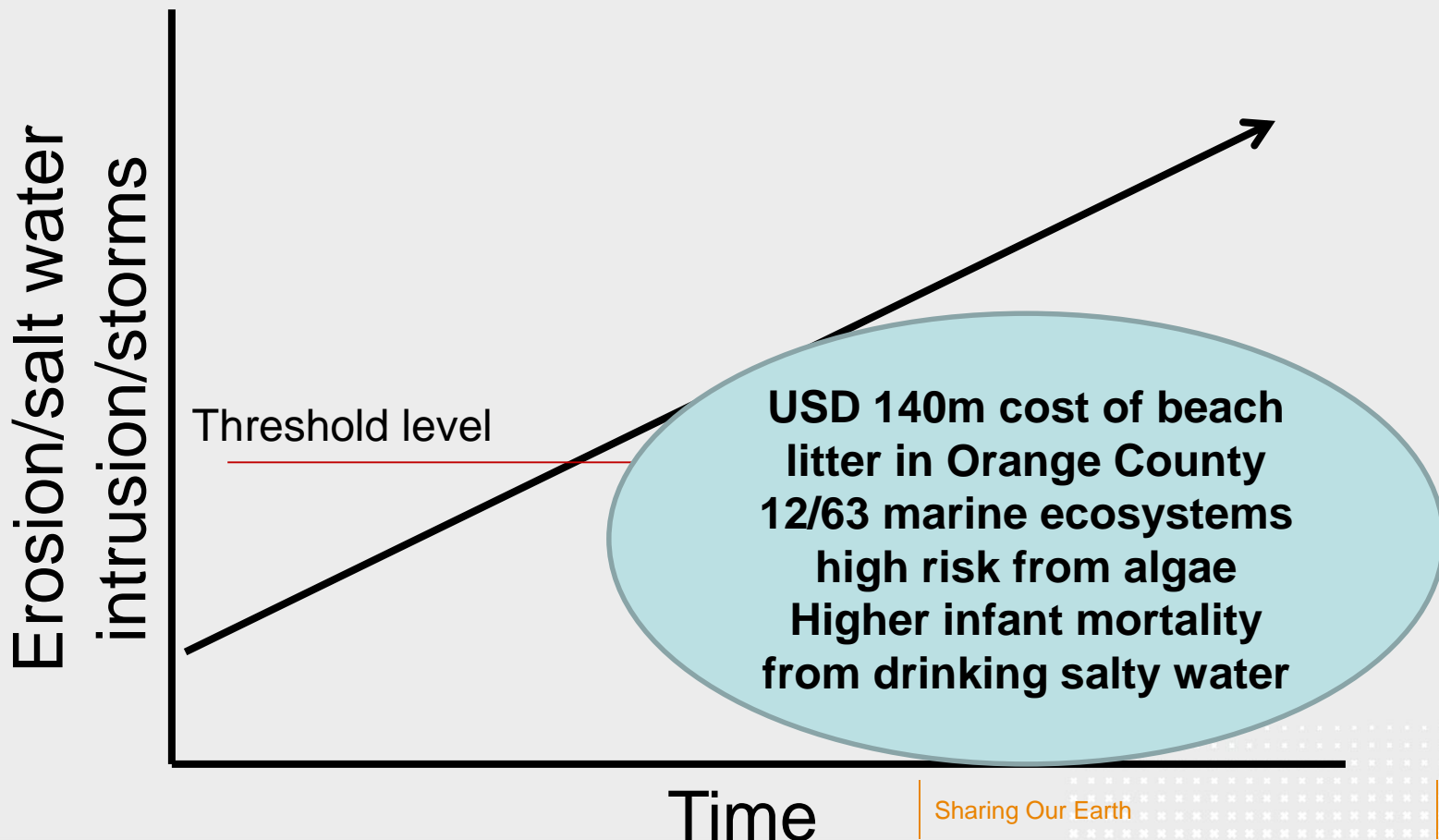




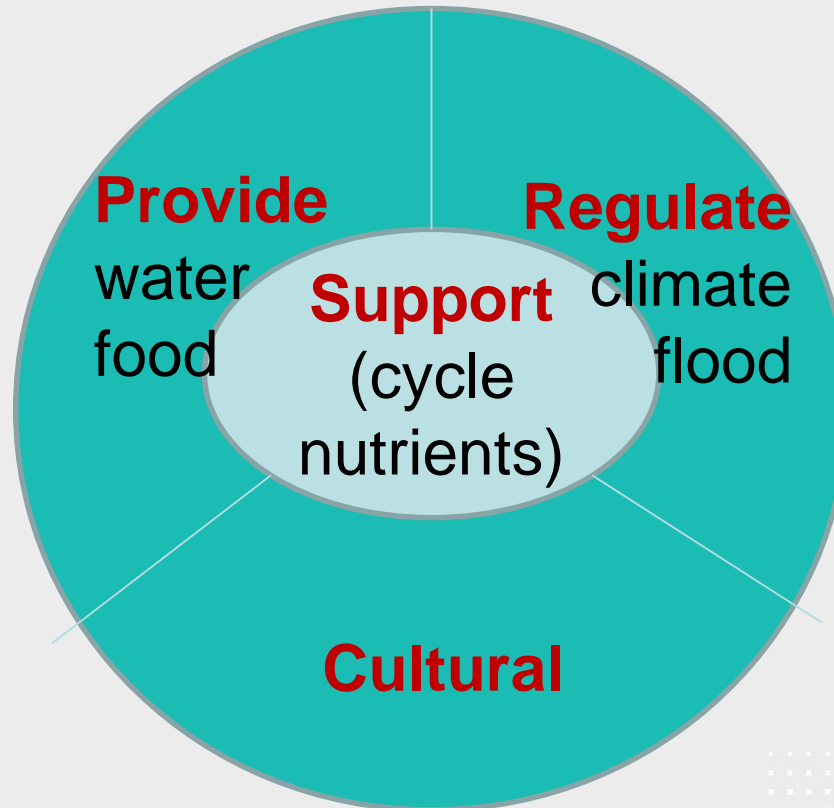
## Ecospace: 4. Shrinking sinks



## Ecospace: 5. Coastal disasters

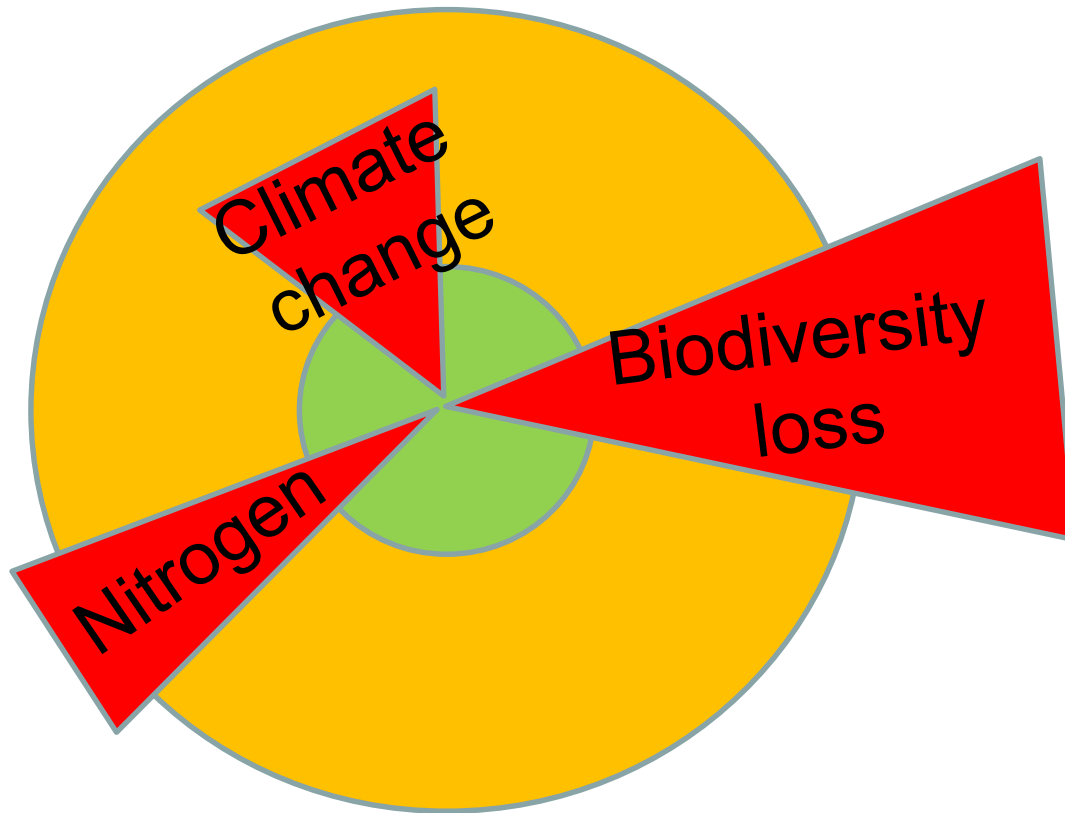


# Ecospace: Unlimited ecosystem services, if sustainably managed



And boundaries!

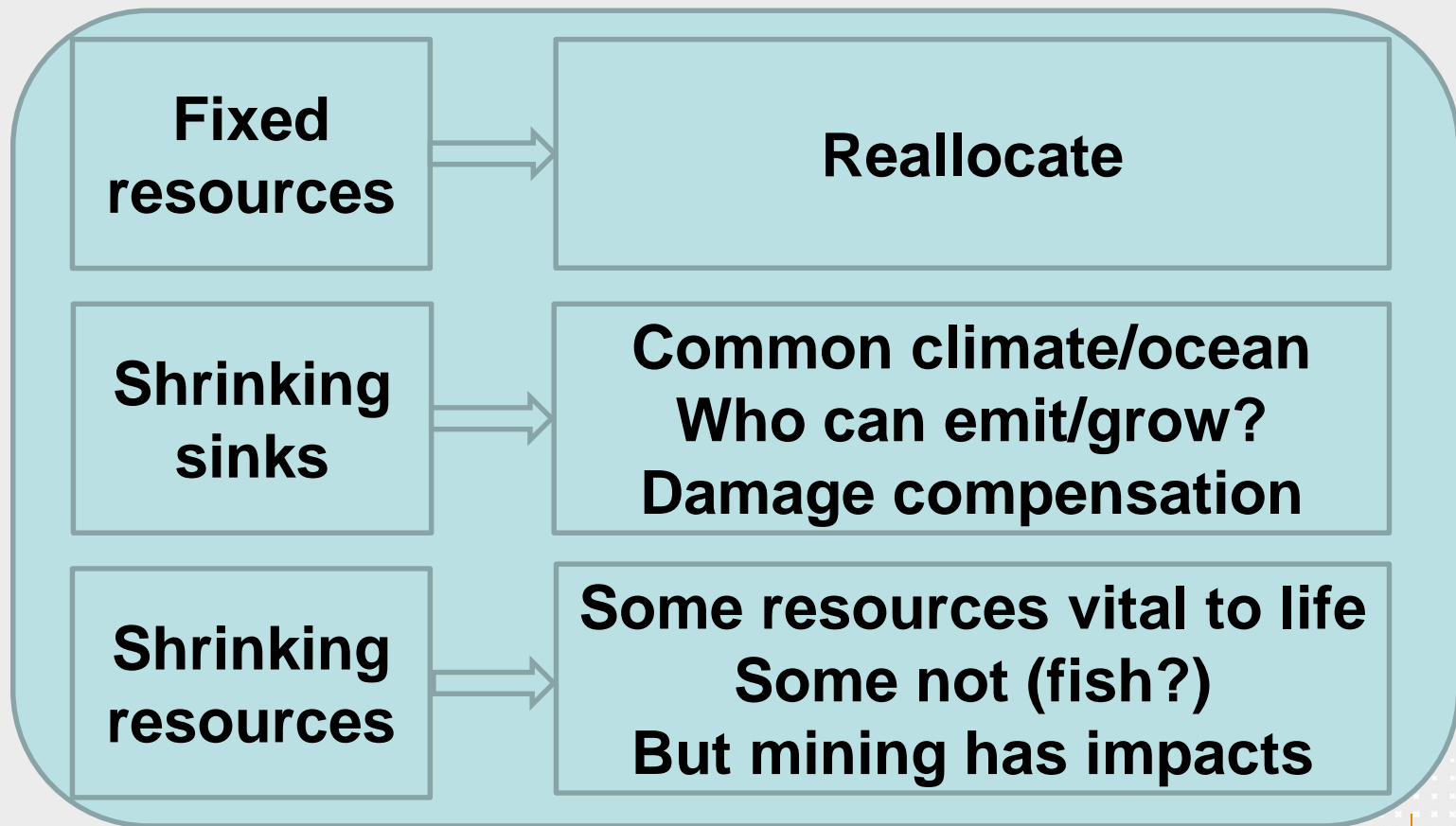
# But, we are crossing planetary boundaries, using 1.5 Earths annually



# Shrinking ecospace

- Resource shrinks (metals/minerals/fish)
- Resource constant
- Sink shrinks (greenhouse gas emissions into atmosphere; ocean acidification, warming, plastics)
- Biodiversity shrinks
  - ,BUT DEMAND INCREASES AND FOOTPRINT INCREASES

# Shrinking ecospace: Why share?



# Shrinking ecospace: Share how?





# Shrinking ecospace governance discourses

**Neo-  
liberal,  
capitalist**

Markets  
Pricing  
Privatize

Confidential  
contracts/  
arbitration



## Neo-liberal capitalist/technocratic

- Lean government, markets dominate, public private partnerships, Confidential long term contracts, secretive arbitration
- Commodification of resources & ESS
- Land, water, fish, mineral grabbing through changing rules and using technologies (8 men > bottom 50%; 1% > 99%)
- Externalizing environmental impacts in pricing
- Externalizing socio-environmental impacts in technologies (e.g. geoengineering/CCS)
- Externalizing scarcity in pricing (mining companies)

# Shrinking ecospace governance discourses

**Neo-  
liberal,  
capitalist**

Markets  
Pricing  
Privatize

Confidential  
contracts/  
arbitration

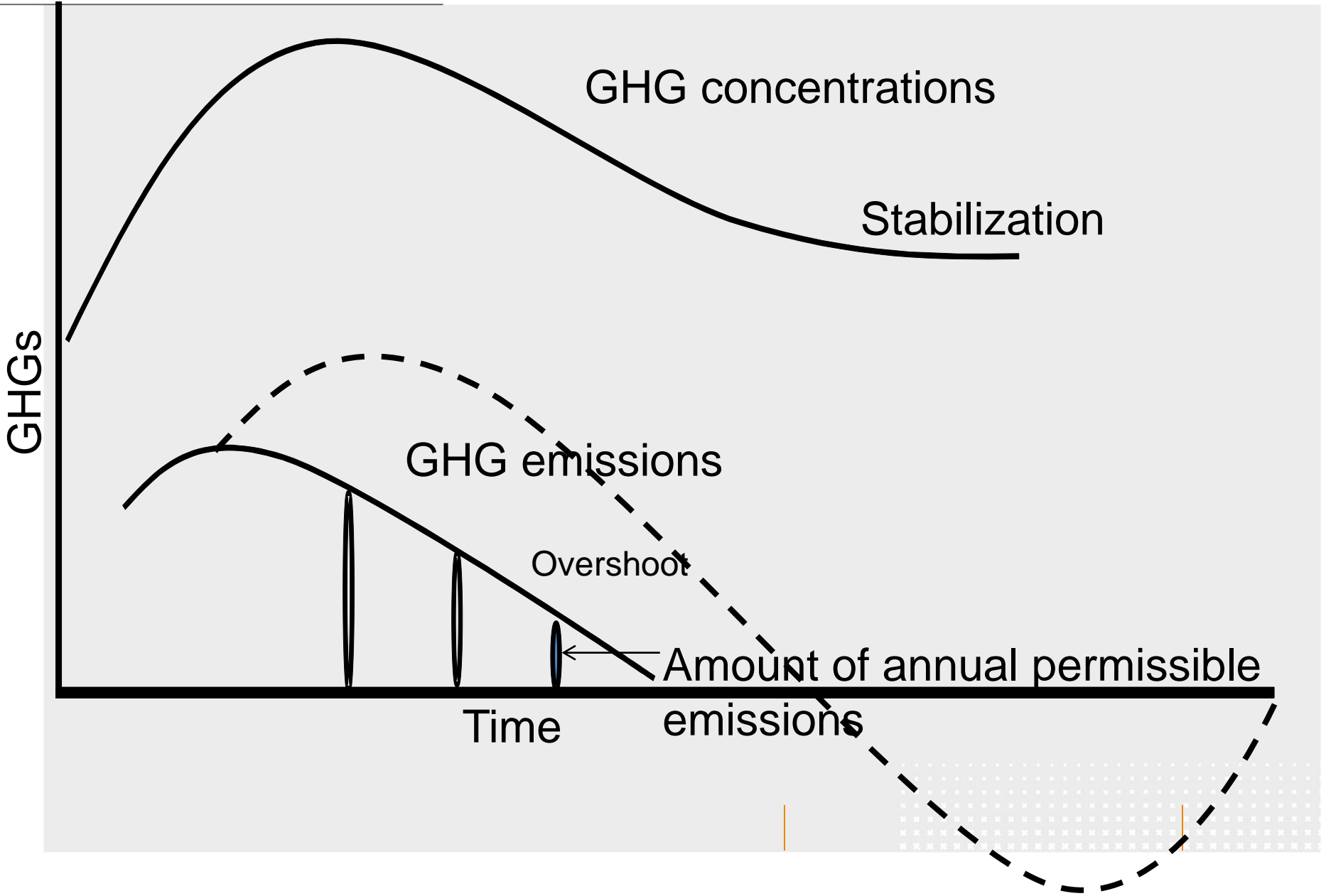
**Hegemonic  
(power)**

Bi-  
plurilateral  
Agreements

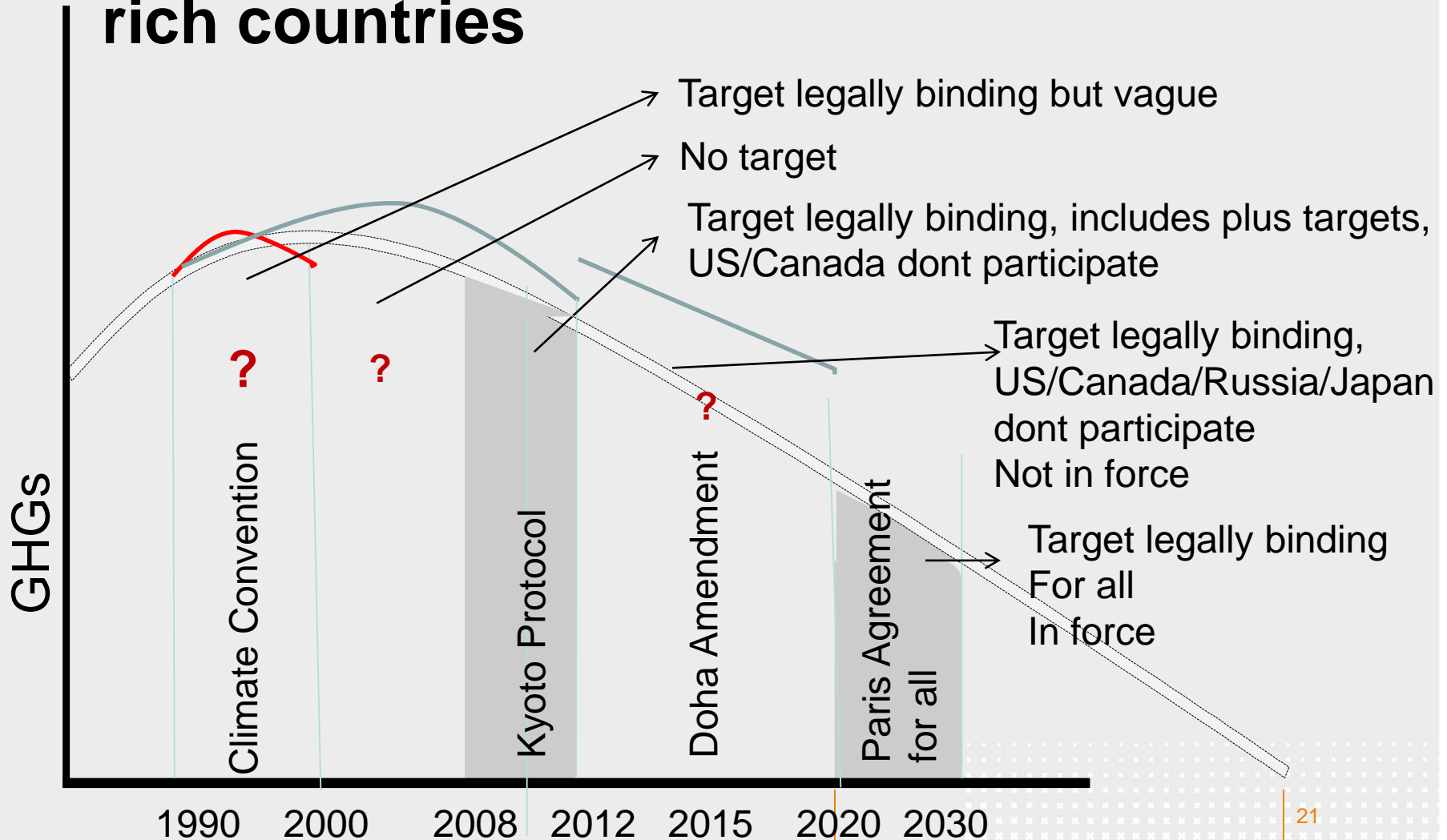
Sovereignty  
Securiti-  
zation

# Hegemony

- Boundaries: Extending boundaries through land grabbing in seas; extra-territorial islands
- Bilateral treaties to gain access to resources (e.g. EU with African countries on fisheries)
- Sovereignty/securitization to prevent access
- Marine/National Parks expropriate local land, water and fishing rights



# Sharing the Carbon Budget: Targets for rich countries



# Shrinking ecospace governance discourses

**Neo-liberal, capitalist**

Markets  
Pricing  
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contracts/  
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**Hegemonic  
(power)**

Bi-  
plurilateral  
Agreements

Sovereignty  
Securiti-  
zation

**Polycentric**

Multiple  
actors/  
approaches

Self-mgt.  
Experimen-  
tation

# Polycentric governance

- Opposes hierarchy/centralization
- Communities can self-manage
- Can experiment and mobilize
- Many centres of governance cannot adopt ecocentric standards
- Or arrange ecospace sharing between governance arrangements

# Shrinking ecospace governance discourses

## Neo-liberal, capitalist

Markets  
Pricing  
Privatize

Confidential  
contracts/  
arbitration

## Hegemonic (power)

Bi-plurilateral  
Agreements

Sovereignty  
Securitization

## Polycentric

Multiple  
actors/  
approaches

Self-mgt.  
Experimentation

## Sustainable Development (Transform)

Universal  
Intergovernmental

Global  
constitution/  
rule of law





# SUSTAINABLE DEVELOPMENT GOALS

17 GOALS TO TRANSFORM OUR WORLD

**1** NO POVERTY

**2** ZERO HUNGER

**3** GOOD HEALTH AND WELL-BEING

**4** QUALITY EDUCATION

**5** GENDER EQUALITY

**6** CLEAN WATER AND SANITATION

**7** AFFORDABLE AND CLEAN ENERGY

**8** DECENT WORK AND ECONOMIC GROWTH

**9** INDUSTRY, INNOVATION AND INFRASTRUCTURE

**10** REDUCED INEQUALITIES

**11** SUSTAINABLE CITIES AND COMMUNITIES

**12** RESPONSIBLE CONSUMPTION AND PRODUCTION

**13** CLIMATE ACTION

**14** LIFE BELOW WATER

**15** LIFE ON LAND

**16** PEACE, JUSTICE AND STRONG INSTITUTIONS

**17** PARTNERSHIPS FOR THE GOALS

SUSTAINABLE DEVELOPMENT GOALS

# Shrinking ecospace governance options

## Neo-liberal

Markets  
Pricing  
Privatize

~~Confidential  
contracts/  
arbitration~~

## Hegemonic

Bi-  
plurilateral  
Agreements

Sovereignty  
~~Securiti-  
zation~~

## Polycentric

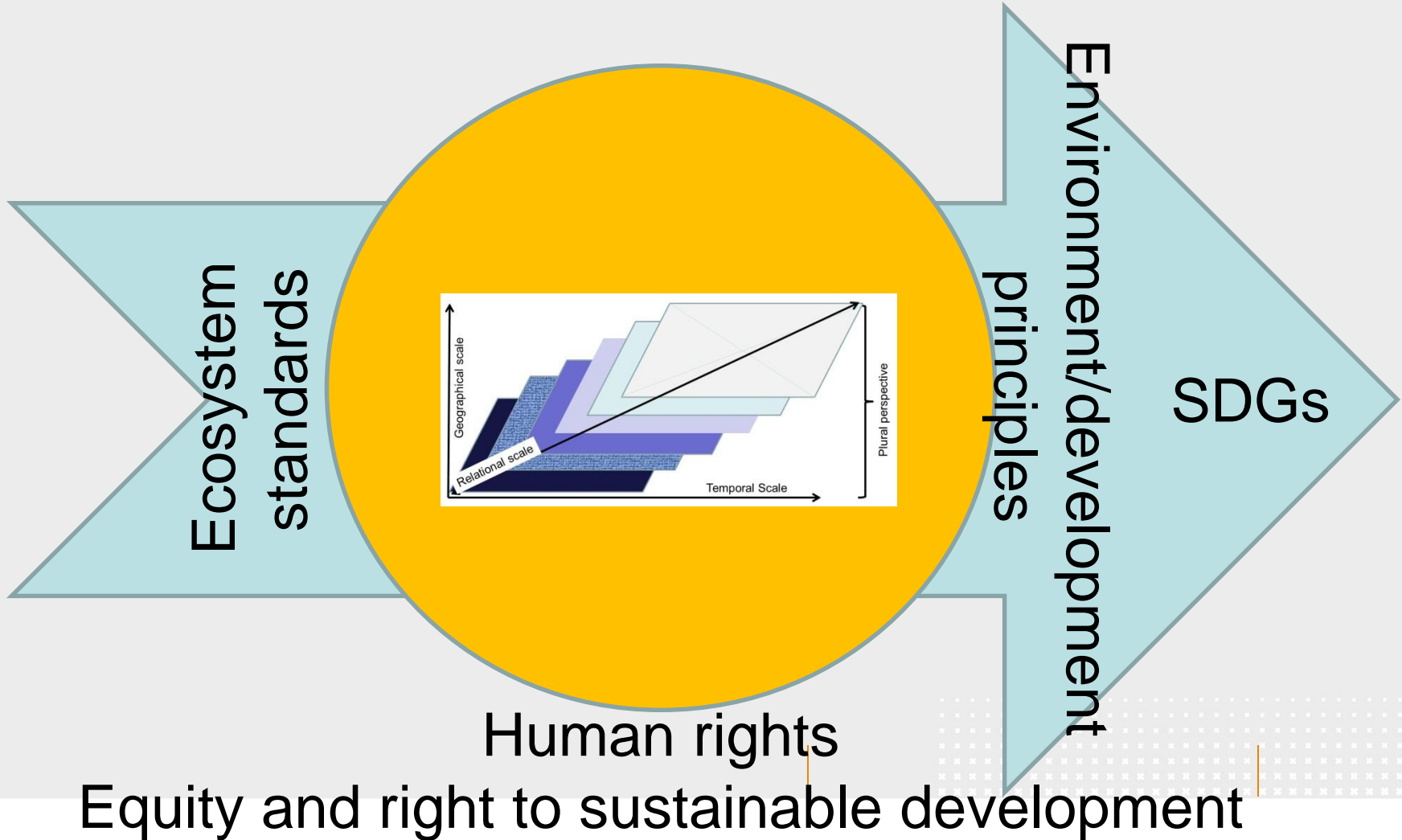
Multiple  
actors/  
approaches

Self-mgt  
Experimen-  
tation

**Sustainable  
univiversal  
intergovernmentalism**

# Multi-level governance

Rule of law & constitutionalism





Social Exclusion

**Coastal adaptiveness focused on social and ecological exclusion**

- Neo-liberal capitalist growth orientation
- Privatization or hybrid resource control
  - Technocratic, adaptive management
- Niche technologies, capital intensive tech. supported by private international law
- Participation as symbolic/manipulative

**Coastal adaptiveness focused on social exclusion and ecological inclusion**

- Neo-liberal capitalist green growth focus
- Privatization, hegemonic, hybrid resource control
  - Green technocratic adaptive co-management
- Niche ecosystem based, capital intensive tech. supported by private international law
- Participation as symbolic/partial/manipulative

Externalize impacts on ecosystems

Internalize impacts on ecosystems

- Socially just focus on wellbeing
- Community or common resource control, but also tragedy of the commons
  - Adaptive governance
  - Context relevant technologies and transparent contracts/investments
- Participation as seeking consensus

- Socially & environmentally just focus on wellbeing and maintaining ESS
- Community or common resource control, but addressing tragedy of the commons
  - Adaptive & anticipatory governance
- ESS based context relevant technologies and transparent contracts/investments
- Participation as seeking consensus and building on knowledges

**Coastal adaptiveness focused on social inclusion and ecological exclusion**

**Coastal adaptiveness focused on social and ecological inclusion**

Social Inclusion

# Governance (Marine Parks/Fisheries)

## Social exclusion

ESS externalized

Expensive, technocratic,  
large-scale  
unilateral mariculture;  
Poorly planned marine parks

Expensive, technocratic,  
large-scale, eco-friendly  
unilateral mariculture;  
Marine Parks expropriate  
poor fisherfolk

ESS internalized

Public investment in helping  
Small scale fisher folk  
to expand mariculture;  
Marine Parks planned  
inclusively but do not have  
much marine life

Public investment in ESS  
based small scale  
mariculture  
Marine parks planned  
inclusively

## Social inclusion

