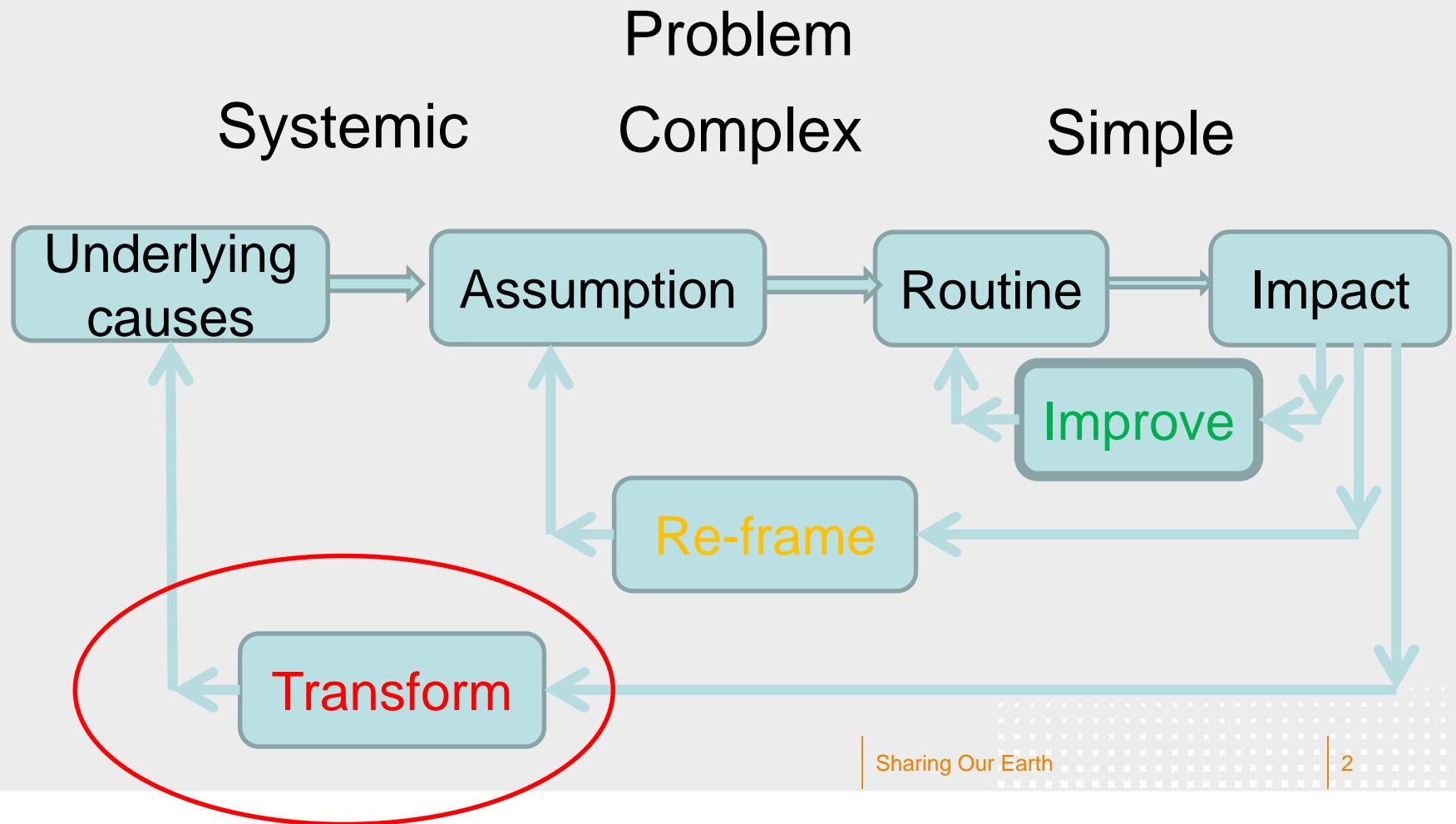


Sharing Our Earth with Special Reference to Marine Ecospace

Joyeeta Gupta

Learning in the anthropocene



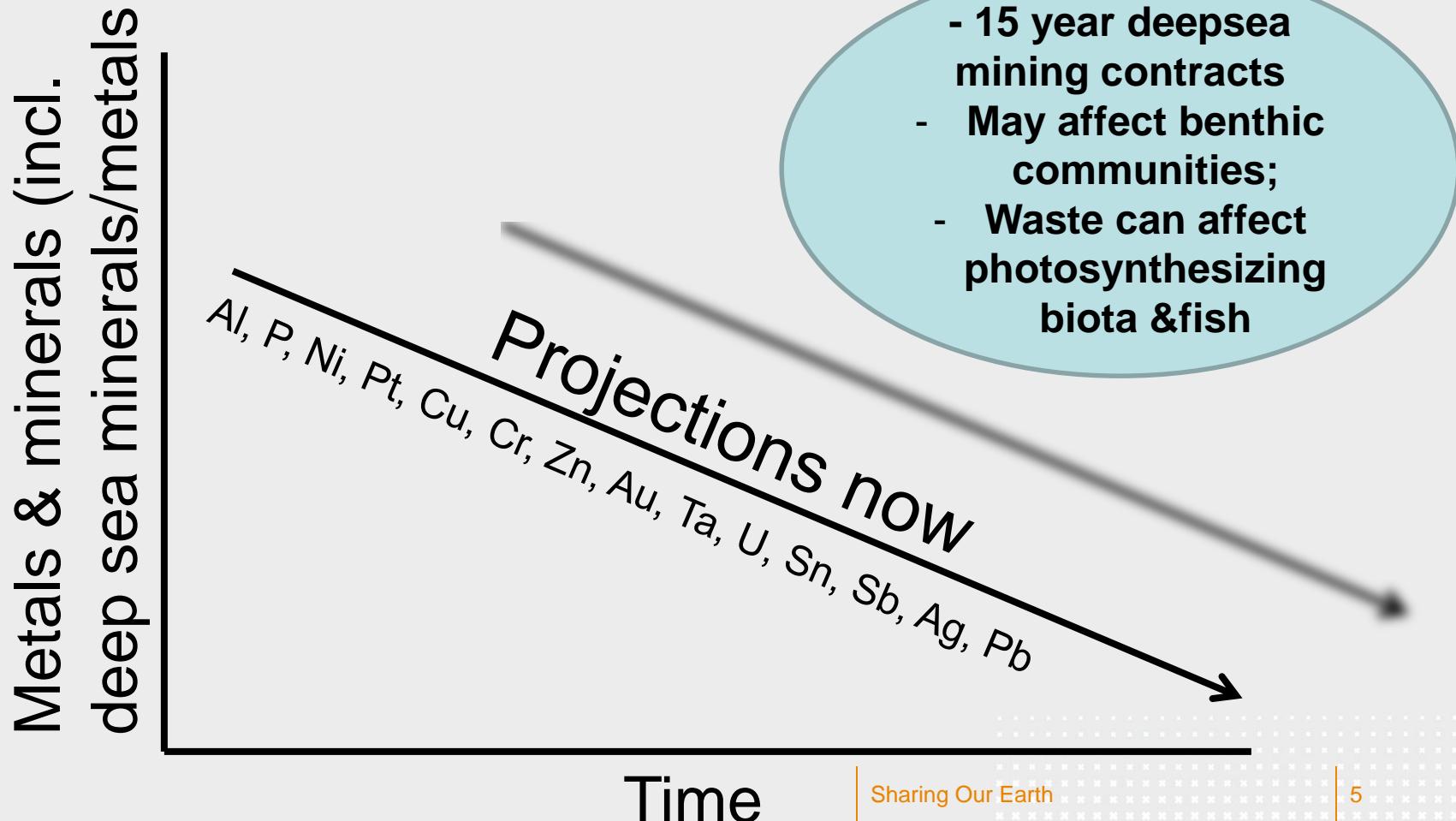
Sharing ecospace: Which rules will govern this?



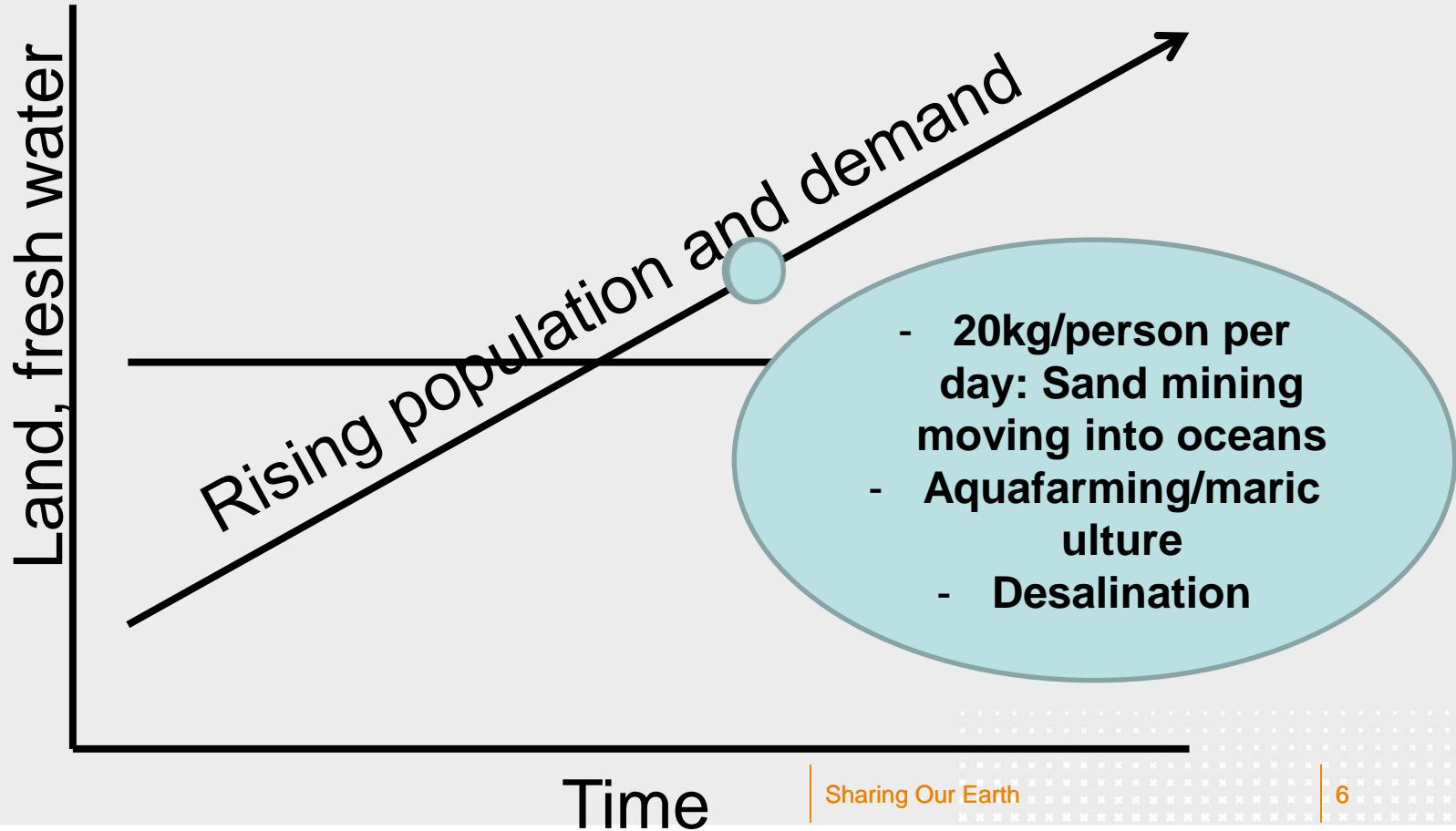
Sharing our Earth (ecospace)

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

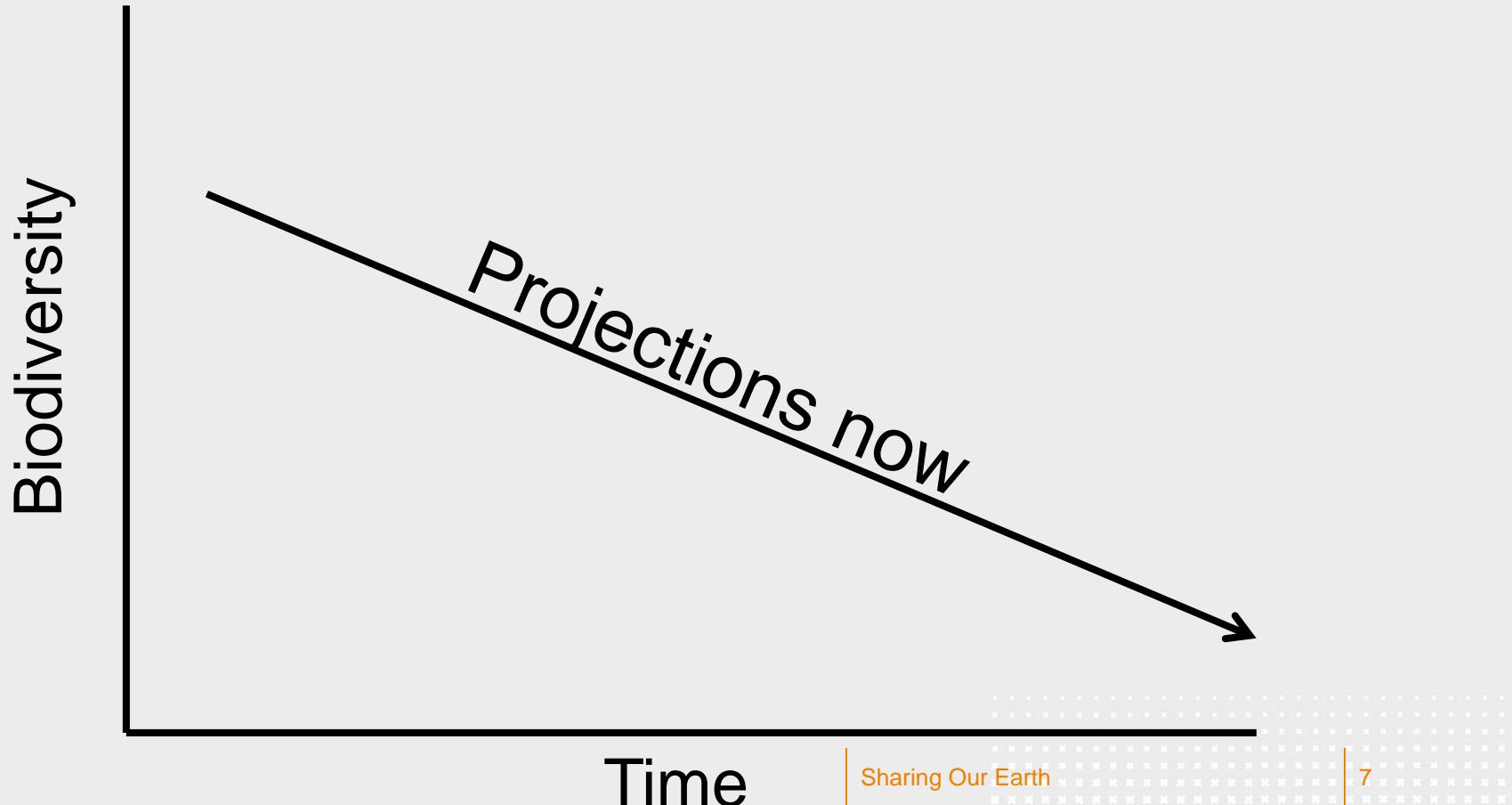
Ecospace: 1. Shrinking abiotic resources - a



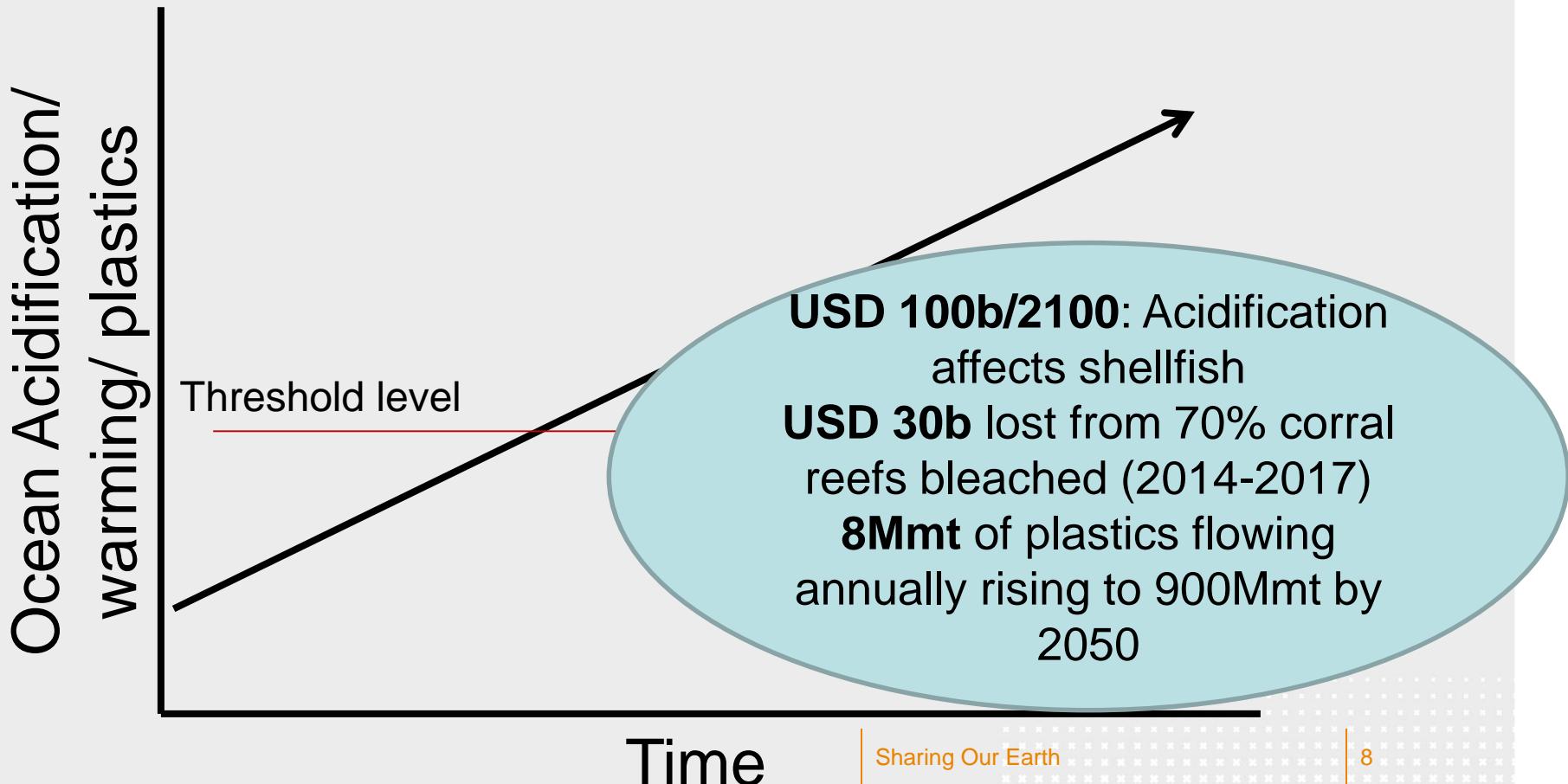
Ecospace: 2. Fixed resources, rising demand



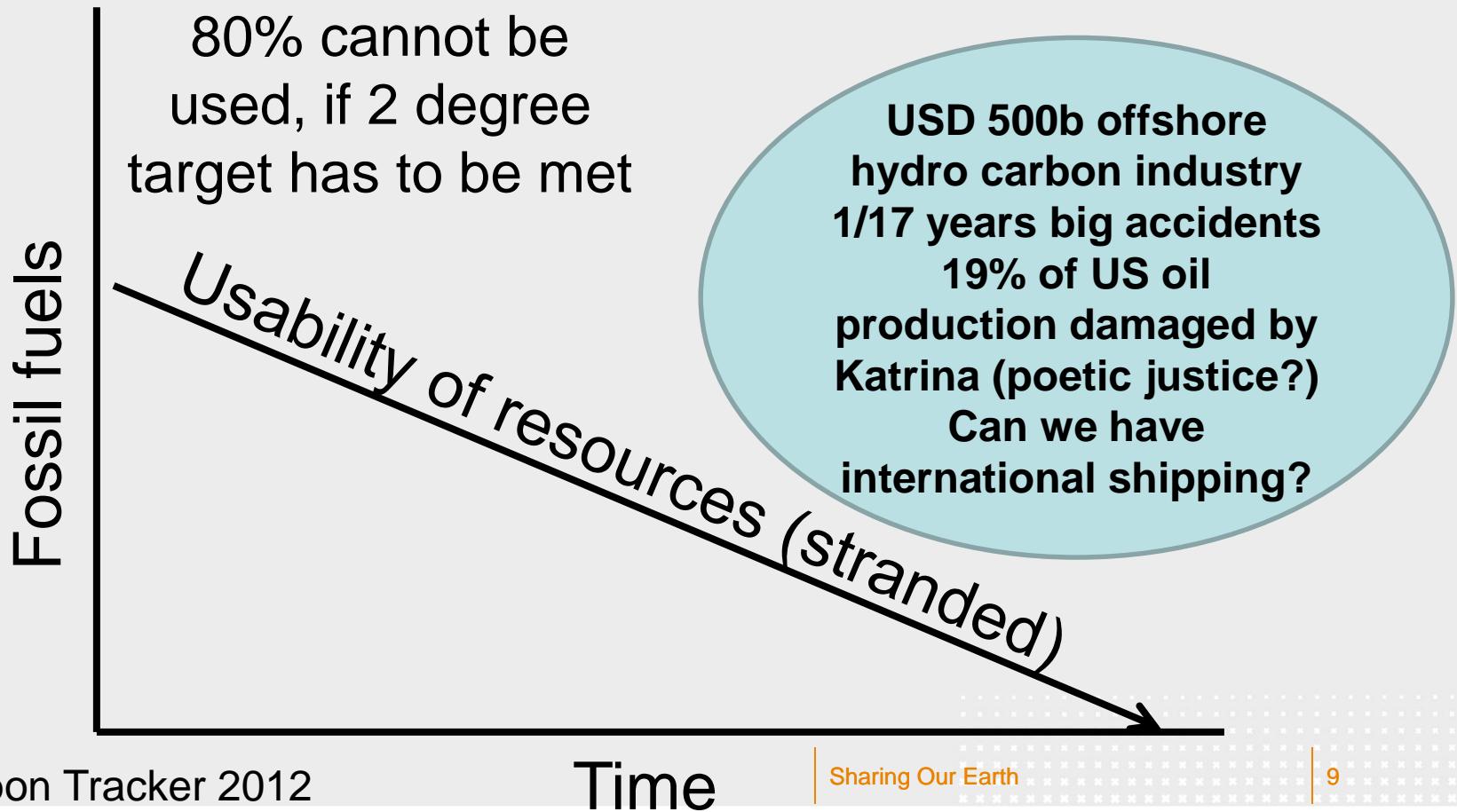
Ecospace: 3. Shrinking biotic resources



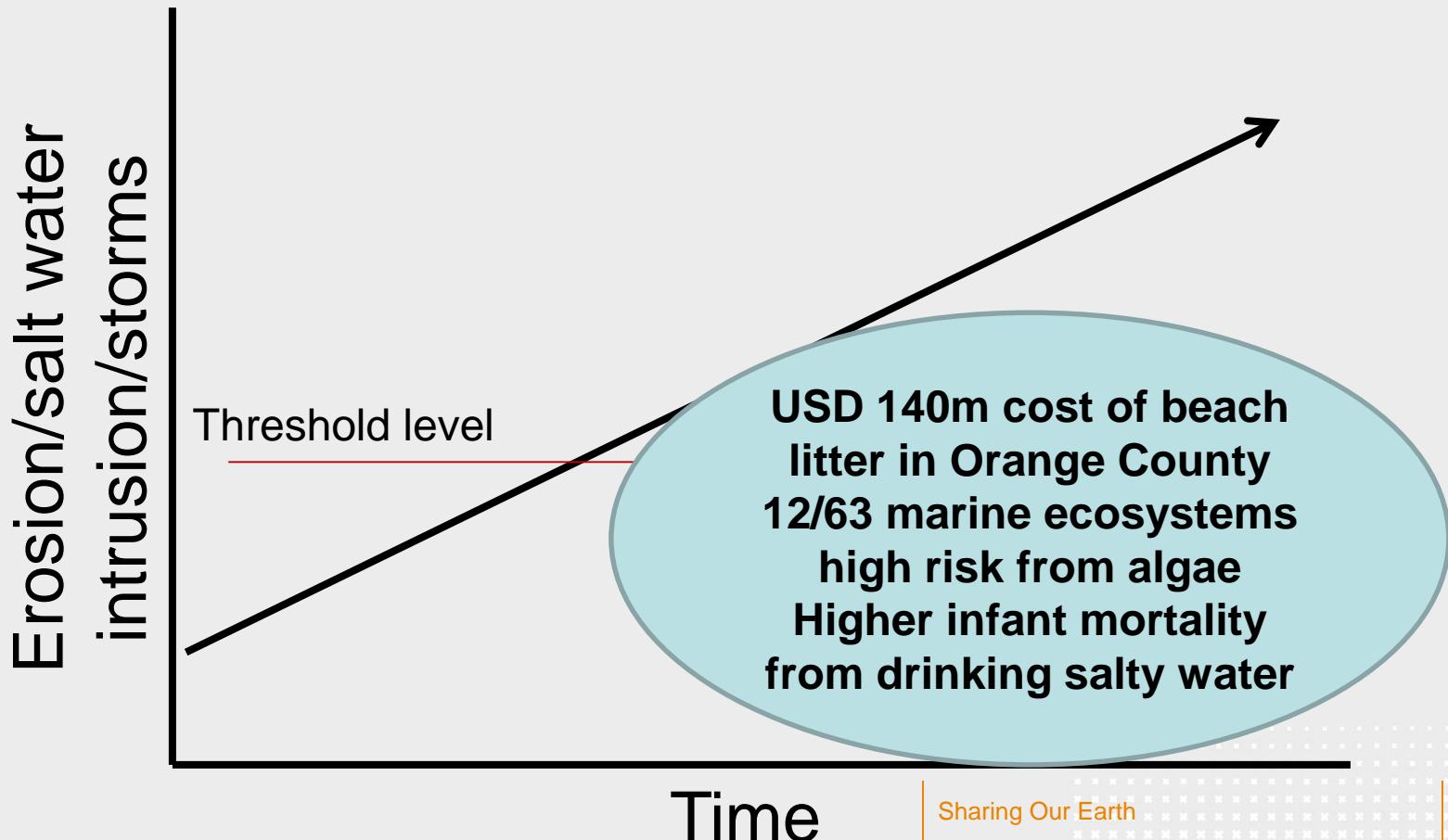
Ecospace: 4. Shrinking sinks: Limits to ocean acidification (critical loads)



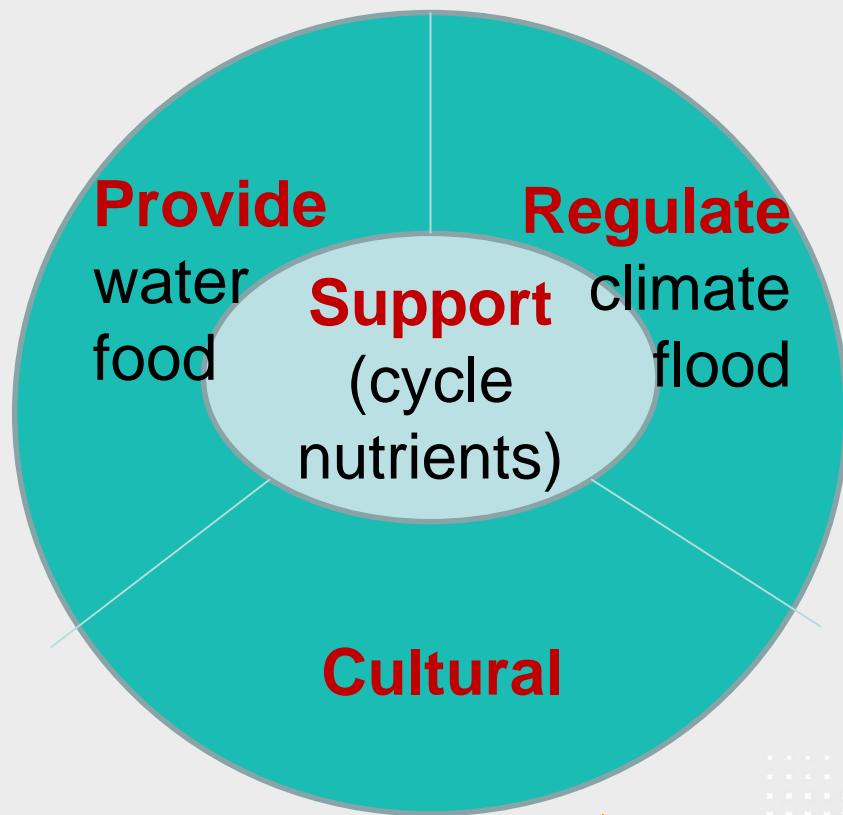
Ecospace: 4. Shrinking sinks



Ecospace: 5. Coastal disasters

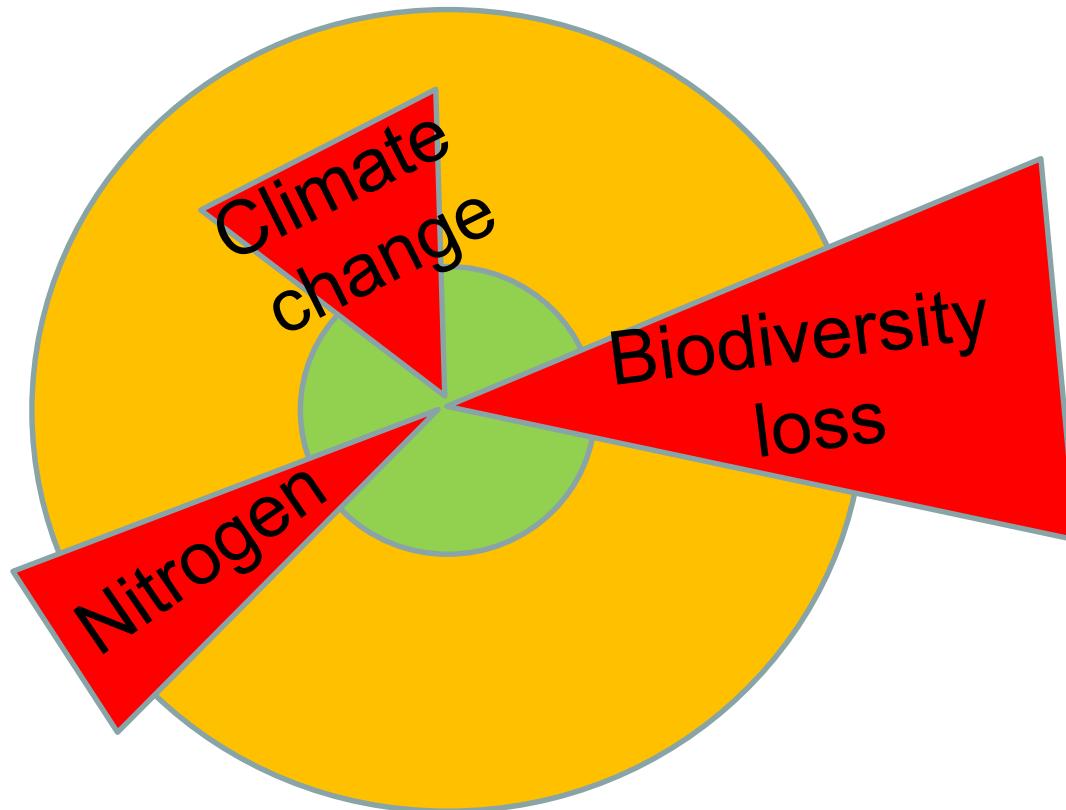


Ecospace: Unlimited ecosystem services, if sustainably managed



And boundaries!

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

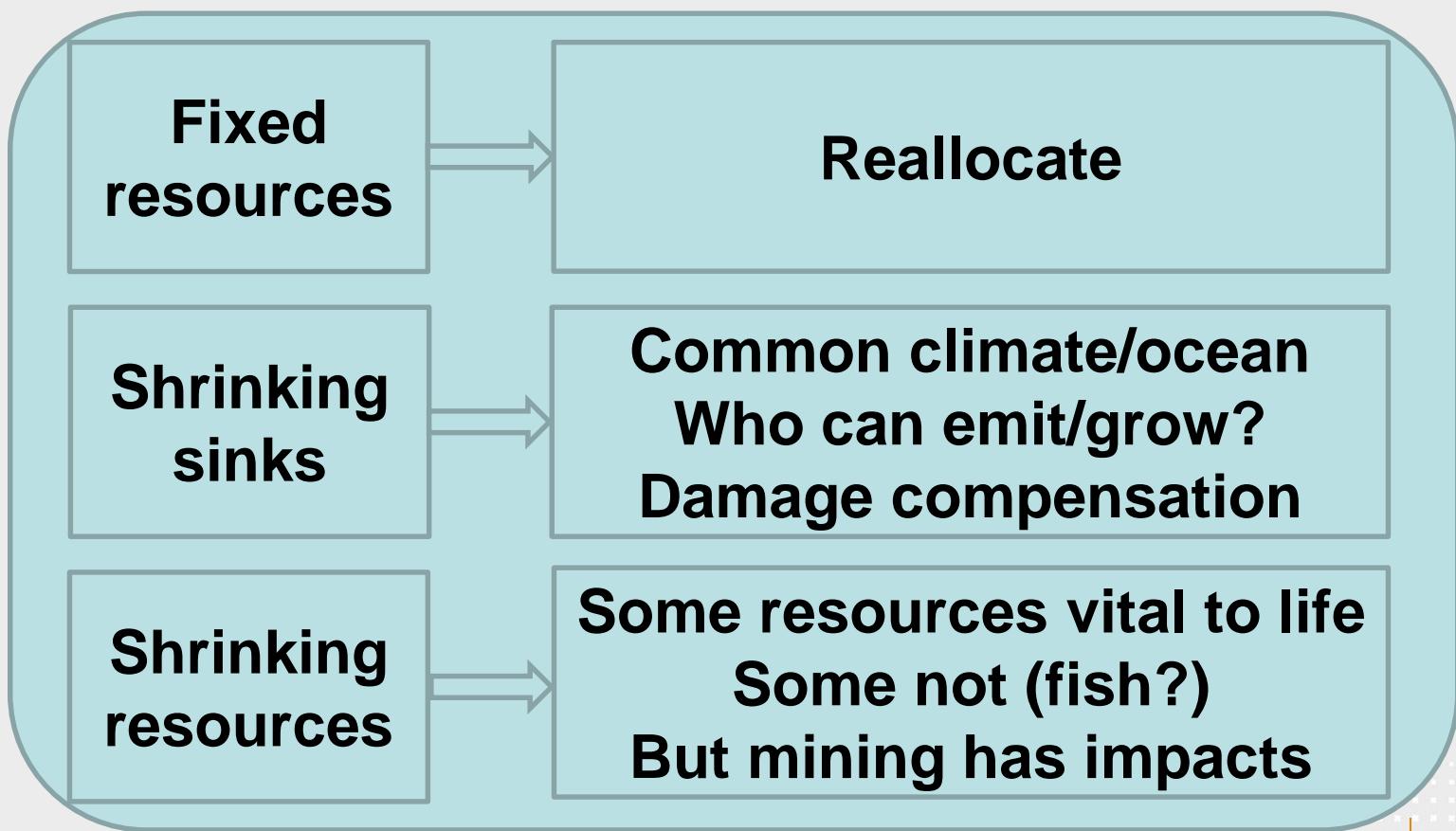


Rockström et al, 2009

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

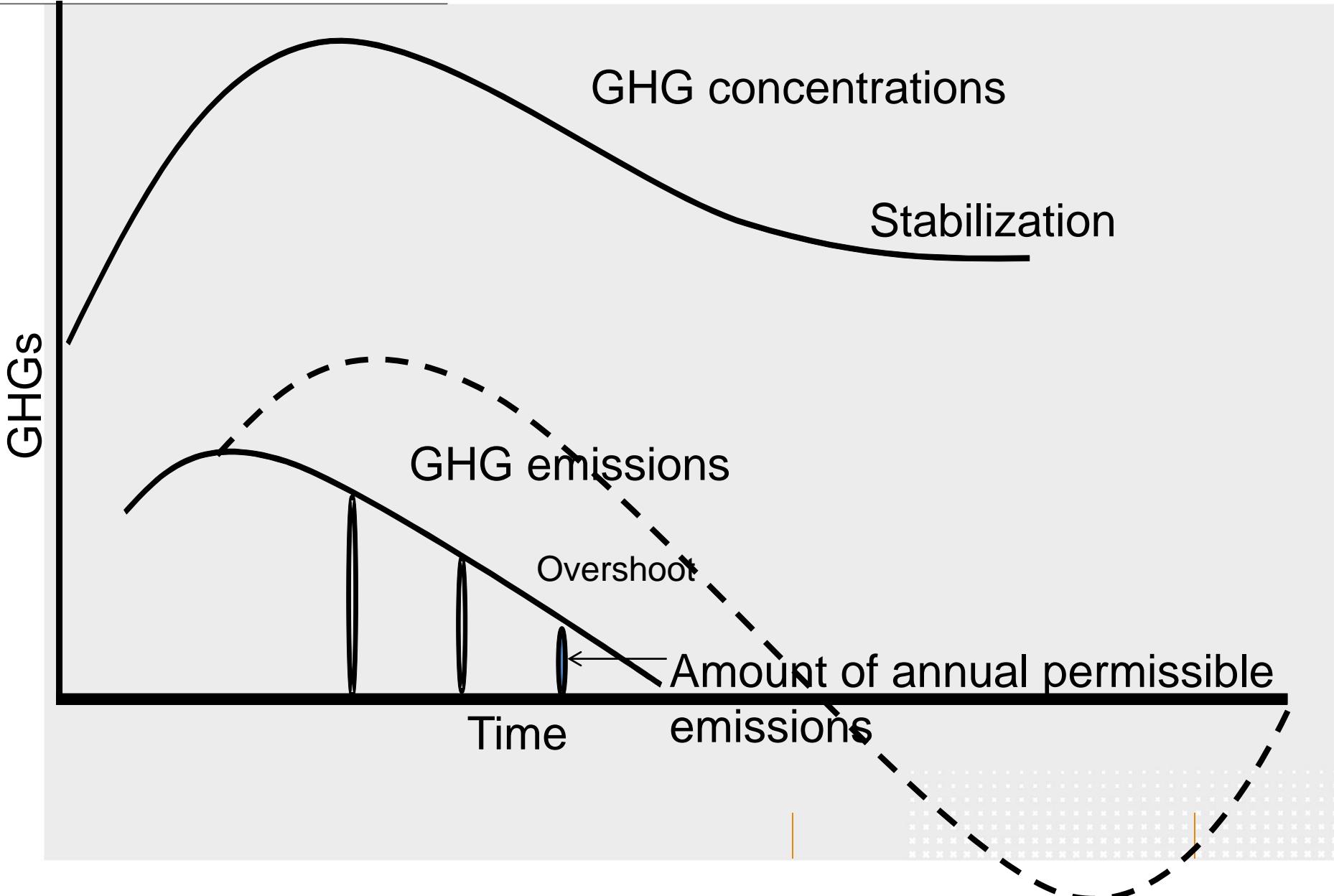
Hegemonic (power)

Bi-
plurilateral
Agreements

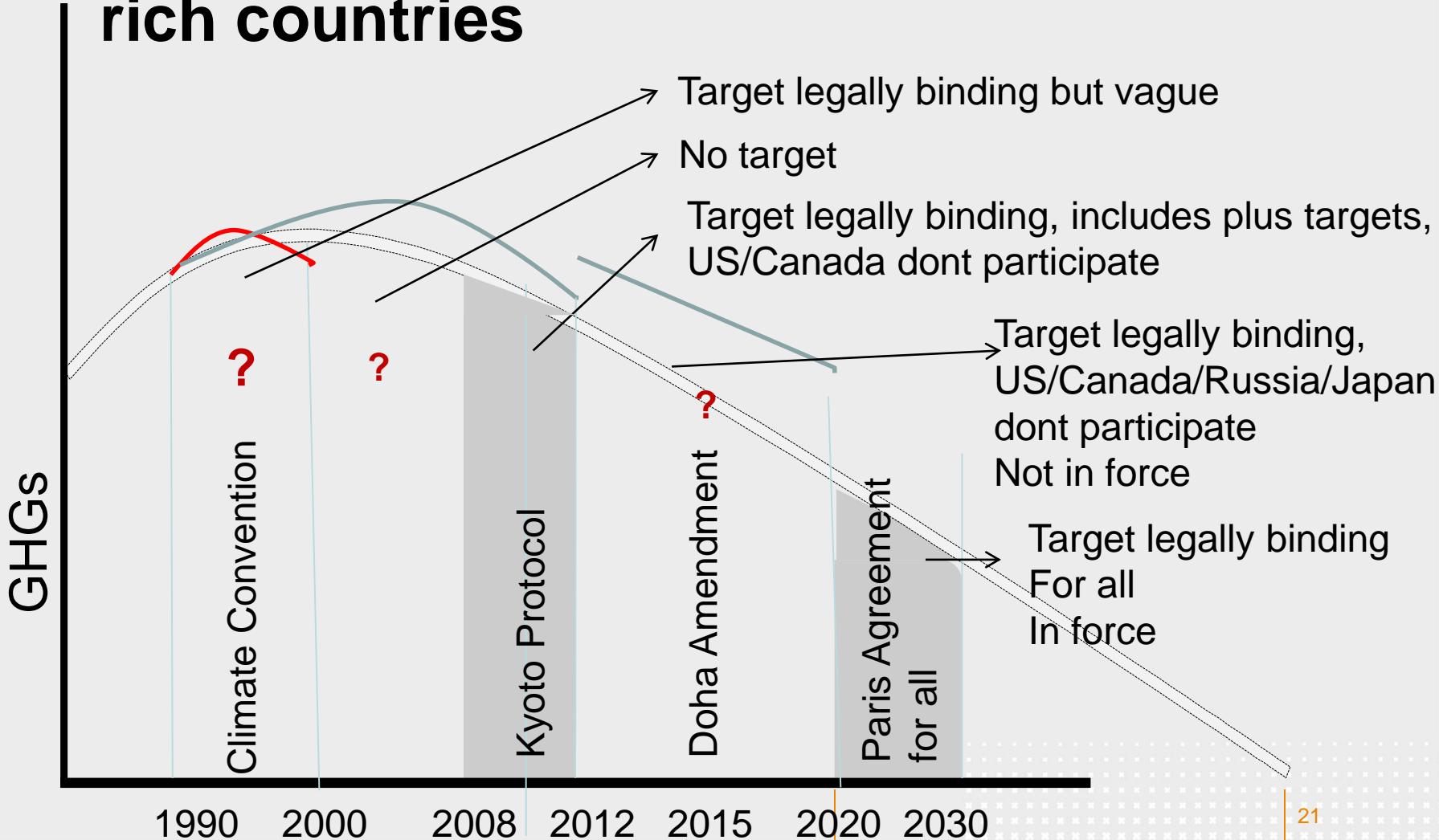
Sovereignty
Securiti-
zation

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
Privatize

Confidential contracts/
arbitration

Hegemonic (power)

Bi-plurilateral
Agreements
Sovereignty
Securitization

Polycentric

Multiple
actors/
approaches

Self-mgt.
Experimentation

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
Intergovern-
mental

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



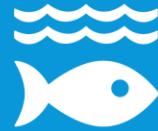
12 RESPONSIBLE CONSUMPTION AND PRODUCTION



13 CLIMATE ACTION



14 LIFE BELOW WATER



15 LIFE ON LAND



16 PEACE, JUSTICE AND STRONG INSTITUTIONS



17 PARTNERSHIPS FOR THE GOALS



Shrinking ecospace governance options

Neo-liberal

Markets
Pricing
Privatize

~~Confidential
contracts/
arbitration~~

Hegemonic

Bi-
plurilateral
Agreements

~~Sovereignty
Securiti-
zation~~

Polycentric

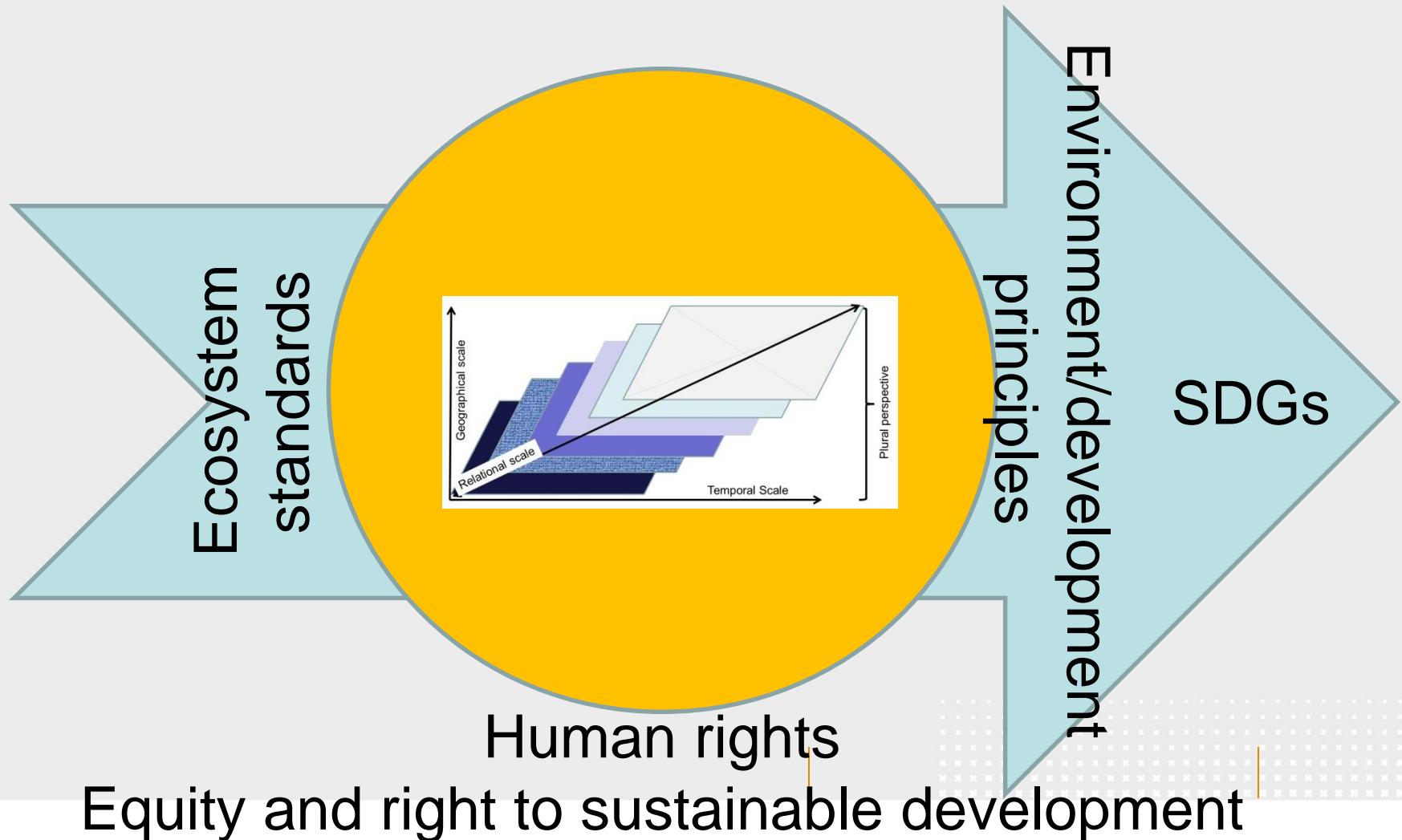
Multiple
actors/
approaches

Self-mgt
Experimen-
tation

Sustainable
univerversal
intergovernmentalism

Multi-level governance

Rule of law & constitutionalism



Externalize impacts
on ecosystemsInternalize impacts
on ecosystems**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

- 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

Coastal adaptiveness focused on social inclusion and ecological exclusion**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

- 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 and ecological inclusion

Governance (Marine Parks/Fisheries)

Social exclusion

ESS externalized	Social exclusion	ESS internalized
<p>Expensive, technocratic, large-scale unilateral mariculture; Poorly planned marine parks</p>	<p>Public investment in helping Small scale fisher folk to expand mariculture; Marine Parks planned inclusively but do not have much marine life</p>	<p>Expensive, technocratic, large-scale, eco-friendly unilateral mariculture; Marine Parks expropriate poor fisherfolk</p> <p>Publish investment in ESS based small scale mariculture</p> <p>Marine parks planned inclusively</p>

Social inclusion

