



**Amsterdam Institute for Social Science Research** 



Joyeeta Gupta

### **Nexus Governance Challenges**

- Glocal evolutionary governance
  - The rise of legal pluralism
  - The enormous future demands ahead
- Contested glocal nature
- The Sharing Our Earth challenge

## Legal pluralism

Quality/Inte nsity	Weak relations	Strong relations
Contrary	Type 1: Indifference/Co- existence	Type 2: Competition
Affirmative	Type 3: Accommodation	Type 4: Mutual support

## Legal Pluralism: Competition poses a challenge for nexus governance

- UNECE and UN Watercourses Convention have different principles: quality or quantity
- Groundwater rules and UN watercourses Convention have different principles: sovereignty or equity
- Global climate governance and national energy governance compete
- Bio-fuel non-regime, had serious impacts on water, land, and society
- Free trade rules not implemented agricultural subsidies in EU?/US

## Glocal Evolutionary Challenge: Nexus governance has to face:

#### 2014

7 billion people Income:

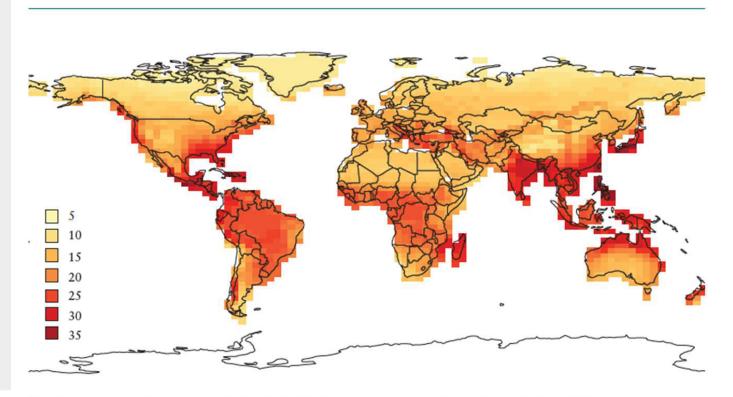
- Top 20% have 83%
- Bottom 20% 1.4%
- 71% living on USD 1 per day live in Asia Using 1.5 Earth

#### 2030

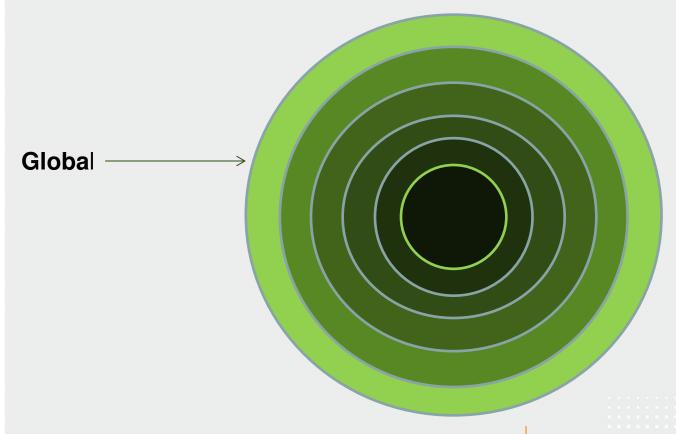
8.3 billion (mostly & younger in S)
Unemployment/inequality 60% in cities
50% water stressed
Energy use increases
Temp rise by 0.5-1.5
degree
Biodiversity decline
Hazards increase

## Glocal Evolutionary Challenge: Nexus governance has to face:

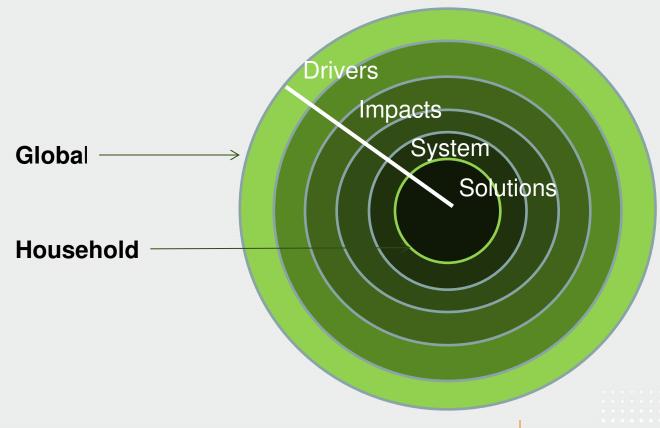




## Nexus governance has to deal with scalar analysis



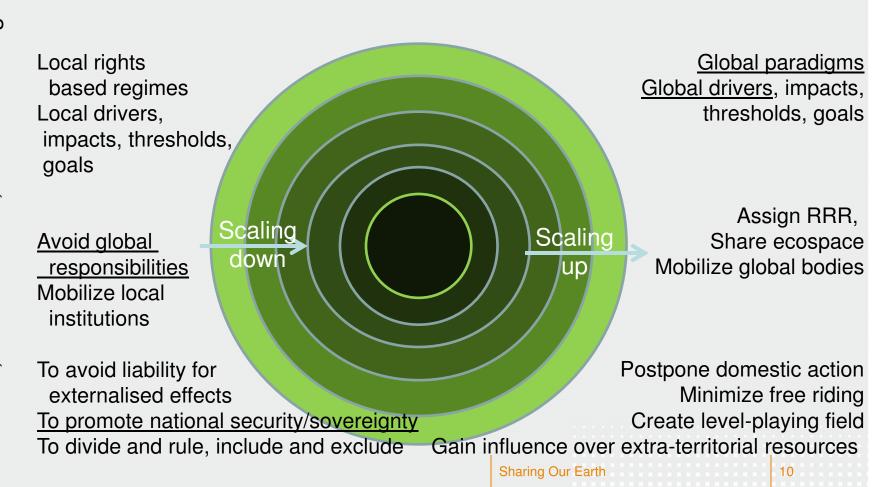
## Nexus governance has to deal with scalar analysis



## Nexus governance has to deal with scalar analysis

Problem: Neo-liberal market discourse Global Solution: Local policy Problem: Local food supply Household Solution: Global demand for biofuel? Sharing Our Earth

## Nexus governance has to deal with scalar politics



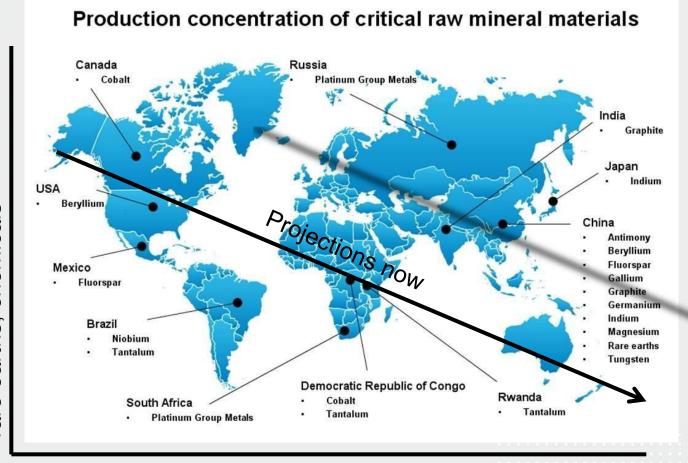
# CAN NEXUS HELP IN SHARING OUR EARTH?





## 1. Shrinking abiotic resources -

Figure 2. ESTIMATES OF STATIC RANGES (YEARS OF EXTRACTION) BY STATIC OR GROWING CONSUMPTION

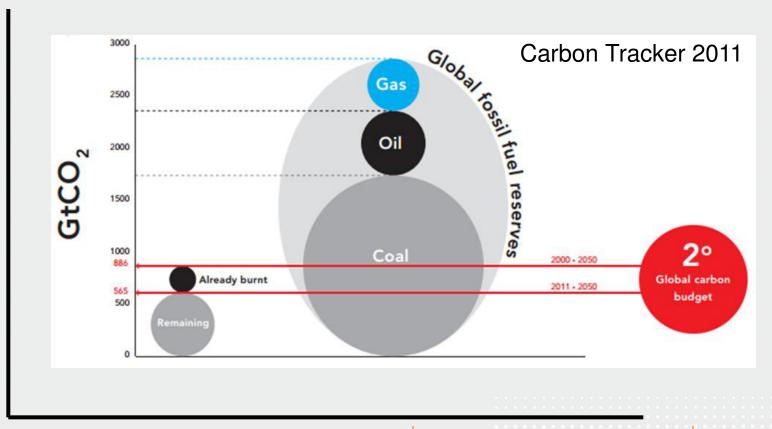


Some metals, strategic minerals, rare earths, chemicals

Time

Sharing Our Earth

### 1. Shrinking abiotic resources - b



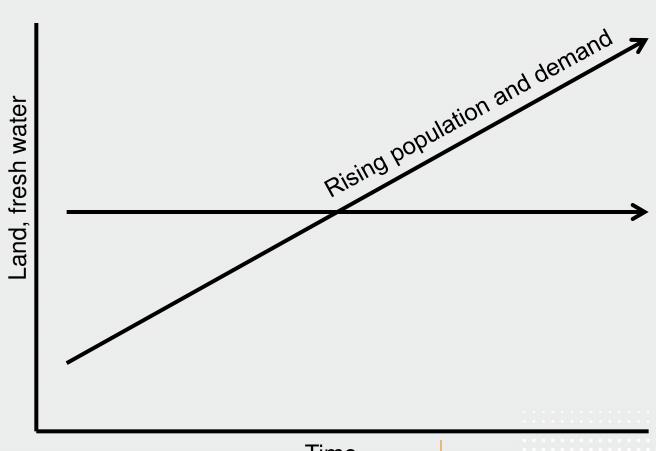
Fossil fuels

Time

Sharing Our Earth

13

## 2. Fixed resources, rising demand

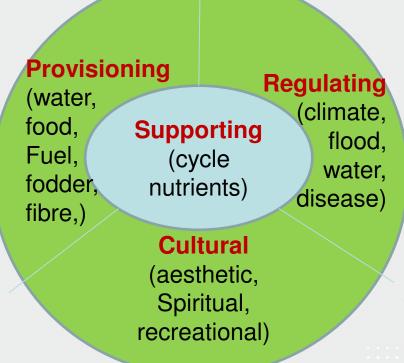


Time

**Sharing Our Earth** 

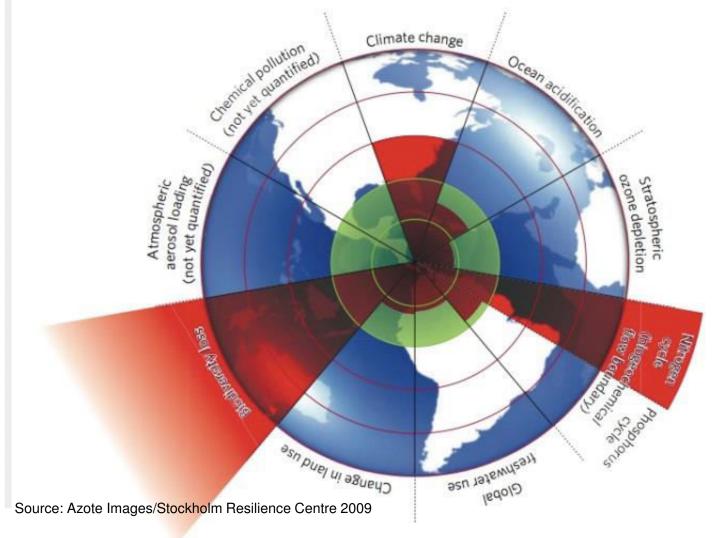
## 3. Unlimited ecosystem services over time, if sustainably managed

#### **Ecosystem services**



And ecosystems have an intrinsic value

### 4. But, we are crossing planetary boundaries,



### Shrinking ecospace

- Resource shrinks (metals)
- Sink shrinks (greenhouse gas emissions into atmosphere)
- Resource constant, demand increases

### Why share?

- Common atmosphere, hydrosphere, lithosphere, and biosphere; common ozone layer; climate (common concern/heritage, global public good)
- Damage to others must be compensated (no harm principle)
- Resources needed for food (right to live)
- Past ecospace use determines who gets ecospace in the future
- Strategic minerals is first come, first served appropriate; mineral extraction impacts on people/environments Sharing Our Earth

### **Sharing**

- Access (to minimum needs/ human rights)
- Allocation (of rights, responsibilities, and risks)

## Shrinking ecospace governance options

#### **Neo-liberal**

Markets
Pricing
Privatize

Confidential contracts/ arbitration

#### Hegemonic

Biplurilateral Agreements

Sovereignty
Securitization

#### **Polycentric**

Multiple actors/ approaches

Self-mgt Experimentation

#### Sustainable

Universal Intergovernm ental

Role for all actors and approaches

#### Conclusion

- Nexus must deal with historical patterns and future expectations. This may be possible in an incremental manner.
- Nexus must deal with glocal drivers and impacts. This is more difficult without getting coherence at global level.
- Coherence at global level will have to confront the 'Sharing our Ecospace' problem! Not easy!

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Role for all actors; nexus?

### **Develop systemic instruments**

Rule of law & constitutionalism

Regulatory:

Strategic environmental & inclusive development assessment

- Economic PES/PPP
- Suasive/research
   Glocal value chain
   analysis/dematrialization,
   LCA; participatory action
   research
  - Management Smart

city/watershed/resilience

Systemic innovation

Equity and right to grow

Human rights

SUSTAINABLE DEVELOPMENT GOALS

Ecosystem standards