

# Science(s) in Solidarity

Making Another World  
in Which  
Many Worlds (and Futures) are  
Possible





# Existing and emerging approaches

Otra Ecología

Engaged Political Ecology

Environmental Justice

Public Science

Engaged Env. Anthropology



# Rooted Networks

## Integrating Social and Ecological Frameworks

- Networks
- Systems
- Landscapes
- Livelihoods
- Places
- Territories
- Relational Ontologies



# Combining Green and Brown Issues and Expertise

- Green Grabbing
  - REDD
  - Reserves
  - Mega-Eco-Tourism
  - The Greening of Industrial  
Agriculture 2.0





# REDD: Monetizing the matrix

- Translation : Making it Legible
- Critique : Ecological, Climate, Social
- Empirical Case Studies of Pre-REDD
- Reviews of experience across sites to date
- Projection / Illustration of Alternatives
  - Landscapes and Livelihoods
  - REDD vs. Alternatives (existing, emerging)



# Reserves

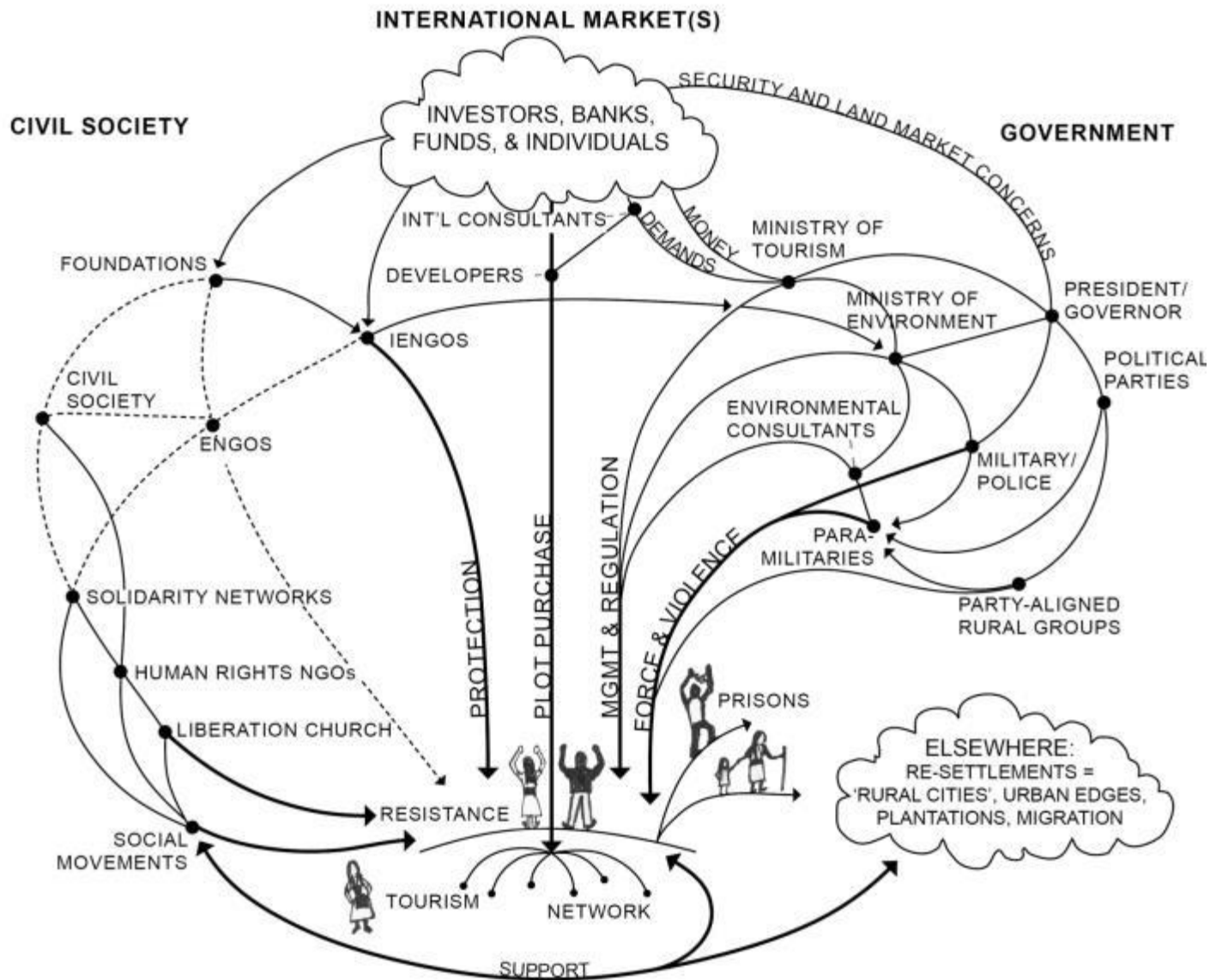
- Honest but Misguided Conservation
  - Grabbing Land ( Need Cultural and Political Ecology )
  - Evicting communities (Need Matrix Ecology)
- Green Trojan Horses:
  - Green Pretext for dispossession
    - Selective recognition of indigenous reserves  
Lacandon example
  - Green Nodes in Tourism Circuits / Tunnels
  - Green Intervales in emerging industrial landscapes (pipelines, drilling, mining)

# Mega-Eco-Tourism

- Forests Selva Lacandona, Chiapas
- Rivers Cascada de Agua Azul, Chiapas
- Lakes Lago Miramar, Chiapas
- Beaches (Cancun, Sian Kan)
- evictions, degradation)








# Science(s) of Living Worlds Imagining Alternatives

- Landscapes of Food Sovereignty  
/Autonomy
- Matrix Ecology Annotated Illustrations
- Multi-media Models of Productive  
Ecologies (Existing and Potential)
- Acompañamiento as Research Method



# Brown

- Mining Boom
  - Fossil Fuel Booms
  - Need for Pre-emptive Documentation
    - Air, Water, Soil contamination
  - Need for water supply self-defense
    - Survey, Monitoring, Treatment
    - Quantity and Quality
- 

Energy, environment, engagement:  
encounters with hydraulic fracking  
Edited by Anna Willow and Sara Wylie

Jeanne Simonelli: Home rule and  
natural gas development in New  
York: civil fracking rights



# Between activism and science: grassroots concepts for sustainability coined by Environmental Justice Organizations

- 
- Joan Martinez-Alier
- Isabelle Anguelovski
- Patrick Bond b
- Daniela Del Bene a
- Ivonne Yáñez etc
- 
- Autonomous University of Barcelona, Spain b
- University of KwaZulu-Natal, South Africa c
- Teri University, India d
- Centro di Documentazione sui Conflitti Ambientali, Italy e
- University of Klagenfurt, Austria f
- University of Twente, the Netherlands g
- Environmental Rights Action, Nigeria h
- Fundação Olwaldo Cruz, Brazil i
- European Environmental Bureau, Belgium j
- Sustainable Environment Research Institute, Germany k
- Lund University, Sweden l
- Acción Ecológica, Ecuador
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# Public Lab

- <http://store.publiclab.org/products/desktop-spectrometry-kit>





# Territories

- Territories of Ecological Protection
- Territories of Ecological Production
- Territories of Economic Production
- Territories of Political Protection  
(Refuge/Exclusion)
- Territories of Daily Life/Being in Relation
- Ownership vs. Practice



# Territories 2

- Polygons/Bounded Surface Areas
- Networks in Abstract and Material Sense
- Webs (Complex, Constructed, Intentional )
- Tangles (Complex, Constructed and Chaotic)

# Transitions in Complex Ecologies/Territories Worlds

Moral Ecologies

“More than Human” Worlds

“More than Material” Worlds



# New grammars of dealing with difference

- From being **Different**  
.... to **Being**, differently

From Adjective to Adverb



