

Cuyahoga River Fire – Cleveland Ohio USA – 1969



Cuyahoga River Fire – Cleveland Ohio USA – November 3, 1952

- I. Community Based Natural Resource Management
- II. Features of CBNRM
- **III.** Trends in Fisheries Policy Vietnam
- **IV.** Co-Management of Natural Resources

Assé, Rainer

REFERENCES CITED (Photos, Diagrams, etc.) – AVAILABLE UPON REQUEST

Conservation - definition

The study & strategy to safeguard the planet's biodiversity by protecting species from extinction through preservation of habitats and ecosystems.

Community Based Natural Resource Management CBNRM - definition

Strategies designed and implemented by natural resource users to use and conserve specific natural resources. Community Based Natural Resource Management - features

- Embedded in local cultural landscapes (e.g., sacred forests)
- Embedded in local knowledge
- Nested in social-ecological and socioeconomic systems of users

e.g., in local rules/conventions on resource use

- usufruct rights - rights to access natural resources

Biosphere

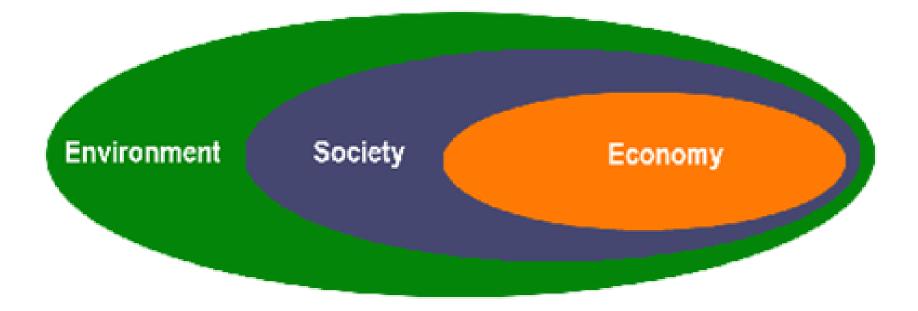
Species

Society

Family, social groups, bodies of knowledge

The person

Bodily subsystems: immune system, neural system, etc



Nested systems

Community Based Natural Resource Management - features

- ✓ Embedded in local knowledge
 - Site specific environmental or agroecological knowledge held by local people
 - Accessed via ethnographic & participatory action-research methods such as: Participatory Transect Walk/Community Mapping Decision trees Rapid Rural Appraisal (RRA) Participatory Rural Appraisal (PRA)

Sacred tree Chiang Mai, Thailand





Mong Clebrate Forest God Festival – Yen Bai, Vietnam -2013



Monks ordain a tree as monk – Cambodia 2010 Alliance of Religions & Conservation



Hung Kings' Festival – Nghia Linh Mountain Phu Tho –Vietnam Community Based Natural Resource Management - features

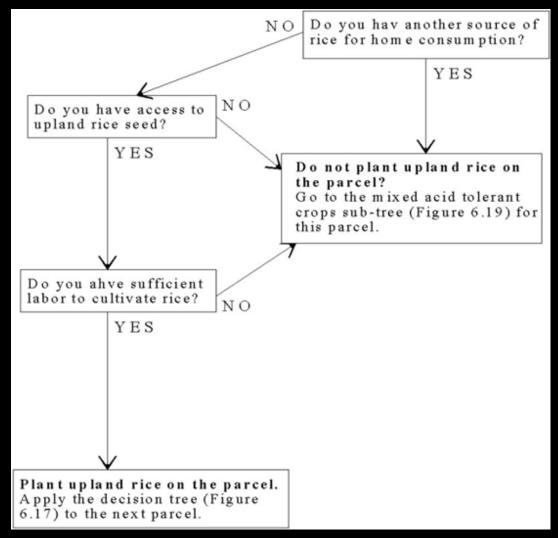
- ✓ Embedded in local cultural landscapes (e.g., sacred forests)
 - Cultural-political legitimacy
 - The right to rule, own, use, steward (watch over) natural resources
 - First settler rights traditional/customary land tenure systems

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Villagers doing transect walk & participatory community mapping FAO - 2003



Decision Tree Modeling

Decision Support Systems in Agriculture: Some Successes and a Bright Future -Russell Yost et al. 2011



Participatory community mapping – Palawan , Philippines - 1999



Participatory Rural Appraisal - PRA Jhalokhati, Bangladesh – 2013 - Worldfish

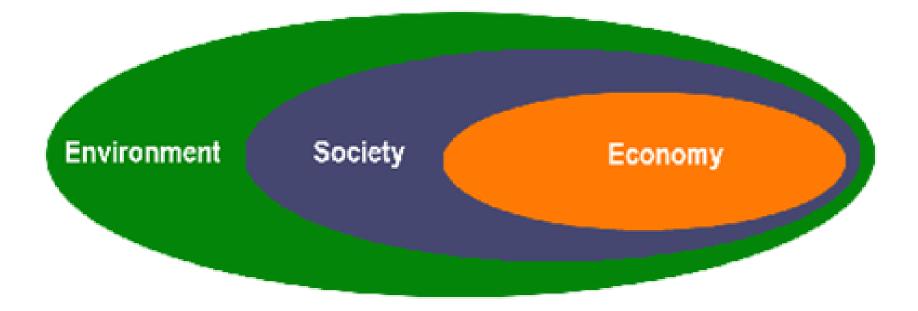
Knowledge Generation

Action research uses participatory methods for knowledge generation to

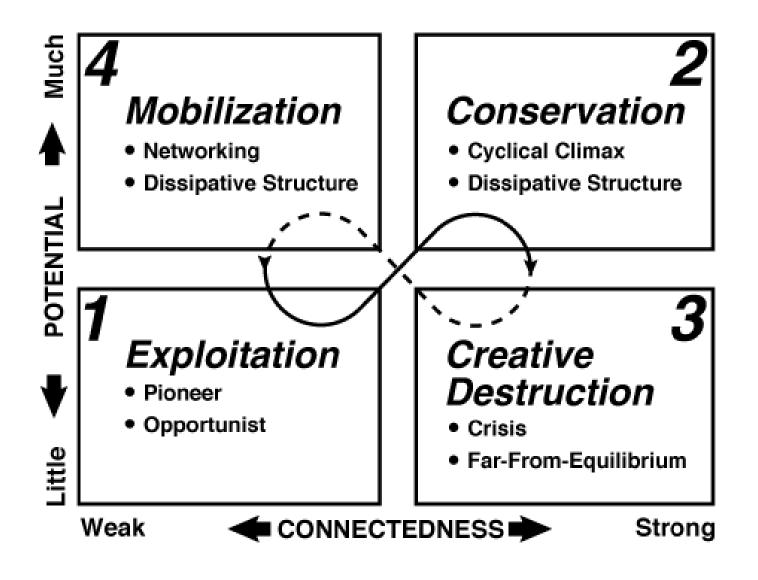
- integrate local knowledge within science knowledge
- democratize knowledge generation & science-making
- include the excluded
- connect knowledge & action of all actors
- build understanding & solutions on integrated knowledge

Vietnam Marine Policy

- Pre 1945
- 1945 1954 local demand
- 1955-1975 North: collectivization + state South: market, mechanization
- 1975-1985 Central planning
- 1986 Doi Moi renewal & open to free market & exporting
- 1989 open access seen as a problem + devolution of responsibilities to provincial departments & Peoples Committees
- 1990 laws recognize management = conservation + co-management/traditional systems Van Chai
- 1997 rational exploitation to counter overcapacity & overfishing Masterplan
- 2003 attempts at ecosystem approaches + decentralized management



Nested systems



Adaptive cycle of Complex Systems – Hollings 2001