# Stakeholder participation in conservation and ecosystem management

Louis F. Cassar & Elisabeth S. Conrad

# Stakeholder participation WHY?

- □ HUMAN RIGHT
- □ EFFECTIVENESS ~ can make conservation/SD more effective:
  - identifies different perspectives people feel more involved and motivated identification of issues missed by others
- □ LEARNING ~ provides a means of instruction within a group of stakeholders (could include experts) as a valid 'output' in itself

### WHY NOT ....

- □ REPRESENTATIVENESS ~ only reflects views of those involved in process with potential problems of capture
- □ EXPENSIVE ~ takes time and can be expensive
- □ RISKY ~ much depends on methods/experience & skill of facilitator/s as well as 'positionality' of stakeholders
- □ INEFFICIENT ~ reinvention of the wheel can occur as stakeholders may not be aware of previous work. May lead to a piecemeal & fragmented approach to sustainability
- □ COMPROMISE ~ may jeopardize conservation objectives

### Participation

- Why participation in the first place?
- Who should participate?
- Who is consulting whom?
- · For what purpose are stakeholders being involved in planning process?
- · What info arrangements are needed so that proposals are understood?
- · What are the rights of those being involved?
- · What are the benefits to individuals, groups & communities involved?
- · What are the disadvantages and who will be affected by them?
- · What is the time frame of participatory process?
- Are funds available and adequate to achieve targets?
- · What cultural protocols are being observed?

### Benefits of participation .... maximizing output

why involve people?

Knowledge

Perceptions

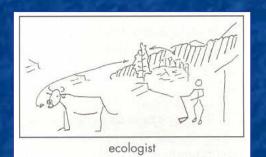
### Indigenous knowledge

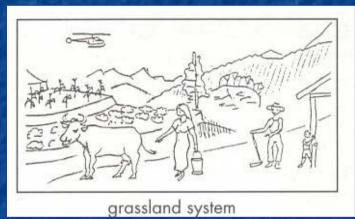
- knowledge that people have developed over time
- forms information base for a society
- facilitates communications and decision-taking

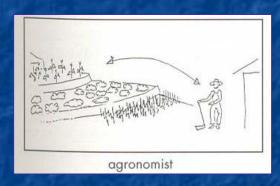
### Examples:

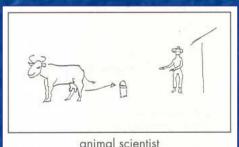
- Use of plant/animal species
- · Preparation, processing or storage of useful species
- Husbandry methods
- · Ecosystem conservation procedures

### Perceptions

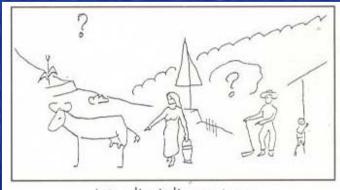




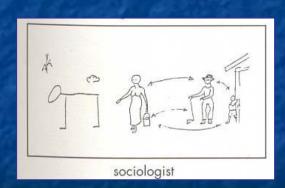








interdisciplinary team



### What are the benefits to locals?

- Long-term sustenance of resources/ecosystem services
- Recognition of links with land and/or tenure rights
- · External 'aid'
- · Economic benefits



### How far does participation extend?

International level

National level

Regional/Provincial level

District level

Sub-district level

Locality level

Community level

Group level

Household level

Individual level

### Participation across all levels of stakeholders

### Public sector

- Local administration
- Local government

### Transcends all key actor sectors

- Voluntary organisations
- · Cooperatives
- Scientific community
- Minority groups

### Private sector

- Service organisations
- Private businesses

## 10 principles for successful partnerships between conservation and local people

- 1. Provide benefits to local people
- 2. Meet local needs
- 3. Plan holistically
- 4. Plan protected areas as a system
- 5. Plan site management individually, with linkages to system
- 6. Define objectives for management
- 7. Manage adaptively
- 8. Foster scientific research
- 9. Form networks of supporting institutions
- 10. Build public support

### Local involvement in conservation

- · traditional & responsible use of resources
- knowledge & availability of genetic resources
- · indigenous understanding of natural processes
- · eco-tourism resources
- · subsistence hunting, gathering & resource use
- knowledge of medicinal properties



....sustainable livelihoods



### Prevailing situation in most developing countries due to:

- ◆ lack of streamlining among national environmental agencies
- inadequate legal instruments & ineffective enforcement
- weak public info systems: inadequate flow of info to public
- lack of grassroots involvement including weak consultations with NGOs
- Environmental Education too low a priority

### Projects often fail because:

- · Problems/issues are poorly defined/analyzed
- Ideas/concepts are inadequately translated into:
  - development goals
  - · project objectives, design and scope

### Successful projects are based on:

- · a solid understanding of problems & needs
- a clearly defined proposal
- knowledge of social, economic & ecological consequences in both spatial/temporal dimensions
- an understanding of what is implementable given local capacity and resources
- consideration of all major stakeholders
- economic, social & environmental assessments within framework of sustainable development

### Integrated Coastal Management is a pro-active mechanism

Encourages communication, collaboration and coordination between stakeholders.

### Pro-active & integrated management approach that:

- Enhances social, aesthetic & cultural fabric of area & its surroundings
- Encourages education & research



- Public's right to know often neglected concept



### Ecosystem approach....

is based on the application of appropriate scientific methodologies focused on levels of biological organisation, which encompass the essential structure, processes, functions and interactions among organisms and their environment. It recognises that humans, with their cultural diversity, are an integral component of many ecosystems.

### The integrated concerns of conservation management

### BIOLOGY

- Ecology
- · Genetics
- Biogeography
- Natural history



### CONSERVATION MANAGEMENT



### **ECONOMICS**



- Ecological economics
- Budgeting
- Resource economics

### HUMANITIES

- · Philosophy
- Sociology
- Anthropology
- History
- · Political science
- Communications

### Wildlife corridors, patches and matrices

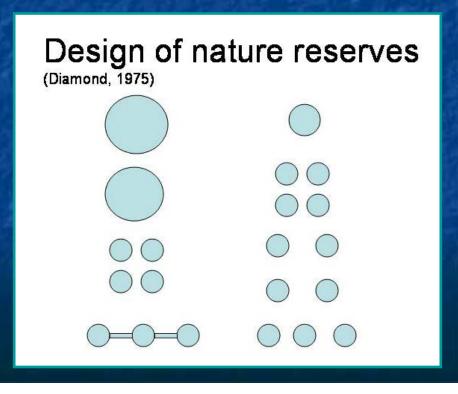
Seek to design wildlife corridors to ensure 'contact' to connect various habitats to ascertain genetic dispersal

### Ensure that wildlife corridors are respected

insufficient to delineate boundaries & embark on buffer

zone management programme

- imperative that cooperation of local resource users is sought
- conservation area system plans should be product of consensus among all interested parties



### Landscape assessment

Land-cover

1

natural features & anthropogenic environment

L

geology geomorphology vegetation Land-use



spatial utilization & resource use



conflicts
existing impacts
potential risks

### Survey ~ Analysis ~ Plan



### Fieldwork:

- standard searches
- profiles/transects
- · mapping
- interviews
- informants

### Report:

- · baseline
- classification
- list impacts
   Land-cover analysis
- · correlate data
- statistics

### Landscape assessment based on aspects of:

- Spatial dimension (topography)
- Stratigraphy (exposures)
- Slope (angle, orientation, contours)
- Soil cover (type, texture, moisture, salinity & depth)
- Species (biodiversity/habitats, status, assemblages, vegetation-types, communities)
- Stakeholders [informal/structured interviews with key actors)
- Sustainability (or lack of it ~ examine land-use practices; identify conflicts of use)
- Stress factors (pressures, impacts and risks)
- Susceptibility (vulnerability)

### Environmental appraisal: surveying & recording

appraisal to include physical aspects, ecological baseline & social surveys

Primary elements required for analysis:

### **Ecological**

main habitats & assemblages indicator species diversity endangered species endemism vulnerability

### **Economic**

dependency existing investment financial projections post-project plans

### Social

recreation & cultural value accessibility local involvement & interest public health educational role

### **Political**

legal status land tenure cooperation & commitment management effectiveness

### In addition .....

### identify anthropogenic pressures

- physical
- · cultural; traditional
- · habitual and ingrained
- socio-political
- · economy-driven
- focus on social aspects
- past uses ~ in relation to subsequent development
- · current use ~ socio-economic elements
- benefits derived & ripple effect

be aware of: key issues pertaining to site

### Social norms

relationship between development and current social norms, based on: religion, traditions and custom

- · may or may not be codified by law
- have to do with ethics, value systems, language, education, family and other interpersonal relations (incl. between sexes and age groups)
- difficult to define and measure, as a result:
   social limits are difficult to determine/evaluate

### Approaches to environmental strategies

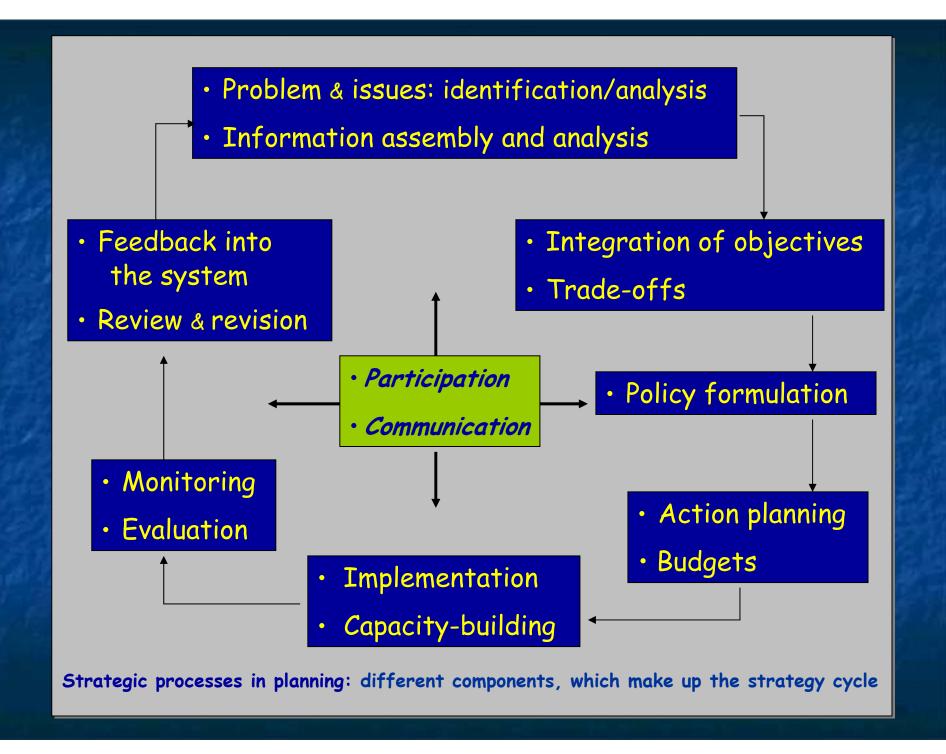
Broaden plan-making to integrate socio-developmental concerns

Successful strategies involve three elements:

- identifying priority problems
- defining priority actions
- ensuring effective implementation

To implement environmental strategies with success, a multifaceted plan must come into play, bringing together:

- nature conservation
- management of natural resources through existing legislation
- socio-economic requirements of stakeholders



### Towards a participatory management style...

Organisations can improve their own performance through adopting working principles such as:

- Empowerment
- Transparency
- Procedural equity
- Social learning

### Stakeholder involvement

- · Locals
- · Resource users
- Official agencies
- Specialists and NGOs

### Locals

- · familiarity with native land
- · more aware of specific characteristics & constraints
- · sensitive and strongly biased

### Resource users

- · vested interests
- primary goal: adequate profit margin

### Official agencies

- too bureaucratic/uncompromising
- · assess areas in sectoral manner

### Stakeholder involvement

### Specialists

- · expert knowledge
- · experience in subject matter
- · often too academic or mono-disciplinary in approach

### NGOs

- · keen interest
- · less bureaucratic
- · may raise direct funds
- · unaccountable
- · institutional frameworks too informal

Consciousness of 'politique' is essential

### NGO involvement

### NGOs have advantages that complement official management efforts:

- NGOs less bureaucratic than official agencies; therefore more flexible in their management
- NGOs may have more hands-on and scientific expertise than government departments
- NGOs have access to funding sources not usually offered to governments
- NGOs can raise funds for direct use in conservation areas as opposed to government
- NGOs are usually less politically influenced than government departments

### Conflict resolution

Be aware of existing feuds/conflicts

Distinguish between peoples' interest and their position

Interest: fundamental need/concern

Position: idea put forth to further one's interests

(Lewis, 1993)

example: conflict between agricultural practice and dunal systems

### Address the issue of 'power'

may come in many forms ~

- · personal
- political
- · economic

or it may be .....

- power of information
- · legal or strong-arm backing

Important to be conscious of real & perceived power

stakeholders act according to their perceptions of power balance

### Resistance & hostility

- inadequate information flow
- weak consultations
- inappropriate attitude
- tactless approach

### Opposition towards controls due to:

- · lack of info
- · egoism
- · political instigation; or simply
- · genuine concern

Ensure that all significantly affected stakeholders

are included in resolution discussions



### Best to avoid conflict:

- by consulting with potentially affected stakeholders and ensure their active participation in management issues
- by being flexible & adaptable to local circumstances

### Political support

Decisions of when & where to declare protected areas or how much money is allocated, fall within the domain of politicians.

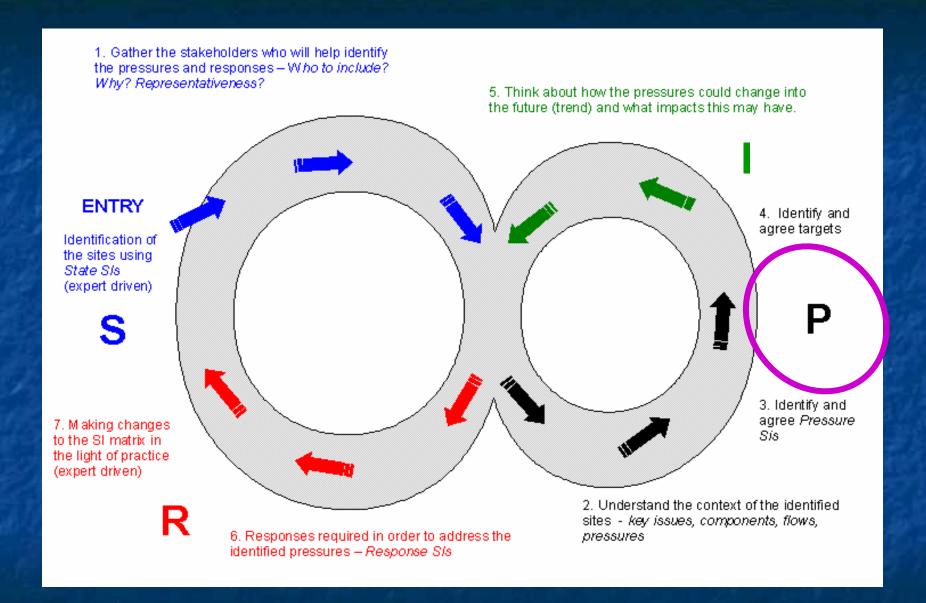
### Informed public could:

- influence decisions on conservation issues
- rally political support necessary to declare and maintain protected areas

Derive support from among 'affected locals' & 'resource users' in/around protected areas

- those benefiting from protected area will defend it against incompatible uses
- support initiatives designed to maintain resources from which their benefits derive

# Lake Maryut



Classic PSIR model combining participation with expert knowledge

### Systemic sustainability analysis ~ Lake Maryut











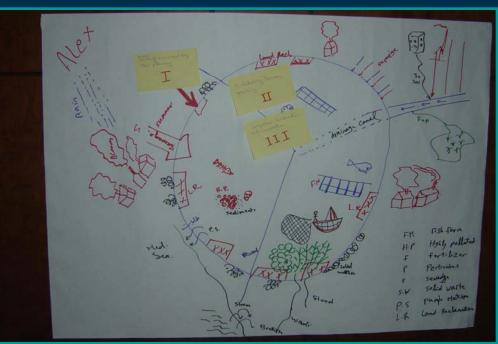






Lake Maryut: 'rich' pictures







### Lake Maryut: issues identified

- Urban encroachment and land reclamation
- Pollution and impacts on biological quality
  - pollution from agriculture
  - pollution from industry
- Mismanagement
- Aesthetics
- · Money

### Lake Maryut: potential solutions identified

- Planning
- Cooperation and solidarity in decision-making
- · Enhancement of public awareness and participation
- · Better enforcement
- Reclaiming most polluted areas of land
- · Improve water treatment methods
- · 'Beautification' of tourism development
- Rehabilitation of degraded biological resources
- · Decentralisation of population and use of desert
- · Culture of certain fish species
- Development of new water sources

