





Participatory Prospective Analysis (PPA):

Scenario building approach for improving, exploring and anticipating challenges in complex multi-stakeholders systems

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Thinking beyond the canopy

Center for International Forestry Research

Outline

- Overview of PPA method
- Case study
- Lessons learnt
- Challenges
- Implications







Participatory Prospective Analysis

An applied foresighting approach developed by CIRAD





Principles of PPA

- Sources:
 - The knowledge of actors and "experts"
 - Existing documents and data
- Forms of interaction:
 - Group work based on "Expert meeting"
- Methods:
 - Qualitative data
 - Quantitative analysis when possible





The 8 steps of PPA

1. Define the limits of the system

S0 – Definition of the system

S1 - Identification of

the key factors that

will shape the future

- 2. Identify the variables
- 3. Define the variables
- 4. Analyze their mutual influences
- 5. Identify and select the key variables
- 6. Define the states of the variables
- 7. Build up scenarios

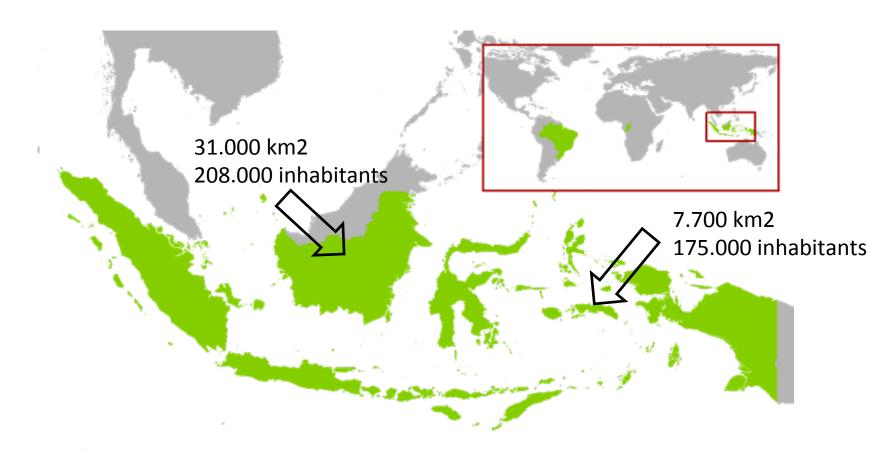
S2 – Identification and description of the possible futures

8. Implications of the scenarios and related actions

S3 – Definition of a strategy

PPA APPLICATION

Case study in Indonesia (Kalimantan & Maluku)









Forestry and Land use planning issues in Indonesia

- Overlapping authorities (central vs district), ambiguous regulations
- Lack of coordination within sectors in spatial planning; development vs conservation
- Driven by large scale business and political agenda
- □ Lack of community participation that caused of tenurial conflict (Status of State owned land vs Customary land; local people vs investor/concession holder;
- Lack consideration of Ecosystem Services in the process (Ecosystem based LUP, Ecosystem Based Adaptation)







Objective

What approach can allow multiple needs of land taken into account in land use decision making?

Organizing PPA

- Develop facilitator team
- Identification of stakeholders and Steering Committee
- 15-22 stakeholders: district government, parliament, NP, local community, customary leaders, private sector, NGOs, and universities
- Three series of "expert" group meeting



Define System Boundary (1)





- Q: What could be the future of land use?
- Time: 20 years
- Geographic boundary:
 - ✓ Kapuas Hulu regency
 - ✓ Central Maluku regency



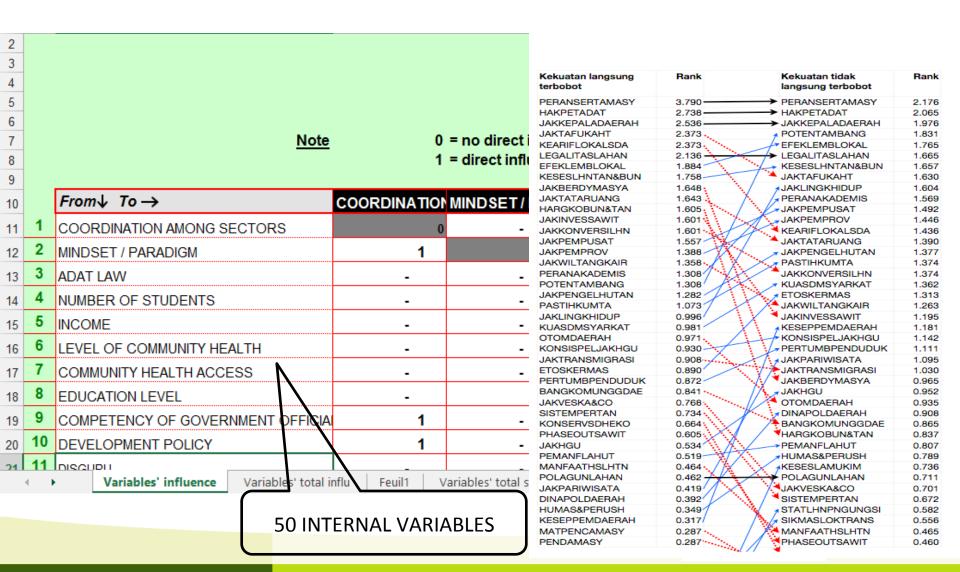
Identification of Variables (2,3)

- Economic, social, politic, environment
- For example:
 - Customary law
 - Education
 - Income

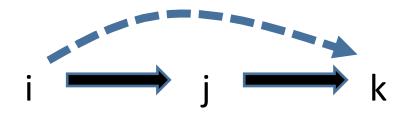


No	Nick name	Variable	Definition			
1	KOORD	COORDINATION AMONG SECTORS	The pattern of work among sectors (Dinas), in accordance with the duties and functions			
2	POLAPIKIR	MINDSET / PARADIGM	Perspective in viewing and analyzing the problem			
3	HKADAT	ADAT LAW	Recognition and law enforces within adat community and outsiders who go inside the a territory			
4	MURID	NUMBER OF STUDENTS	Number of children at school who attend the school			
5	PENDPATAN	INCOME	Community income earned w a period of time			
6	KESHATAN	LEVEL OF COMMUNITY HEALTH	Level of community health			
7	AKSEHAT	COMMUNITY HEALTH ACCESS	Availability of facilities and he workers in serving the needs public health			
8	PENDIDIKAN	EDUCATION LEVEL	Average level of education attained by the community			
9	KOMAPEM	COMPETENCY OF GOVERNMENT OFFICIALS	Ability of the officers in the implementation of governme public service			

Influence/Dependence Analysis (4)



Influence/Dependence Analysis



- Direct influence variable i to variable j ;
- Direct influence = 1; No influence = 0

• Indirect influence $(i \rightarrow k)$:

Direct influence table:

Copied for multiplication

1		Var A	Var. B	Var. C
	Var. A	$M_{A,A}$	$M_{A,B}$	$(M_{A,C})$
	Var R	$M_{B,A}$	$M_{D,D}$	$(M_{B,C})$
	Var. C	M_{CA}	M	$M_{c,c}$

Direct influence table

	Var A	Var. B	Var. C
Var. A	M _A	$M_{A,B}$	$M_{A,C}$
Var. B	$M_{B,A}$	$M_{B,B}$	$M_{B,C}$
Var. C	$M_{C,A}$	$M_{C,B}$	$M_{c,c}$

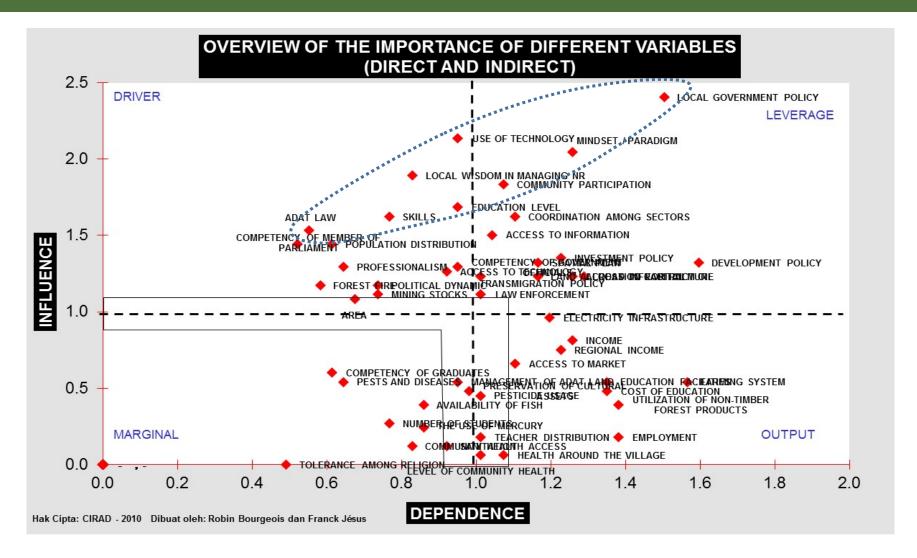
 $RTI_{A,C} = M_{A,A} * M_{A,C} + M_{A,B} * M_{B,C} + M_{A,C} * M_{C,C}$

	Var. A	Var. B	Var. C
Var. A	$M_{A,A}$	$M_{A,B}$	$M_{A,C}$
Var. B	$M_{B,A}$	$M_{B,B}$	$M_{B,C}$
Var. C	$M_{C,A}$	$M_{C,B}$	$M_{c,c}$

Result: Indirect influence table







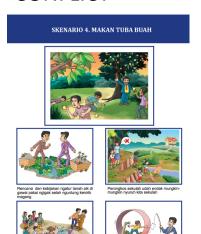
(5) Key drivers: Government policy, use of technology, customary law and wisdom, mindset, participation, education and skills

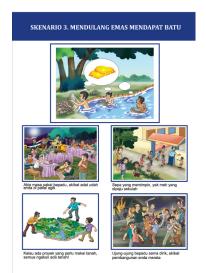
Building Scenarios (6,7)

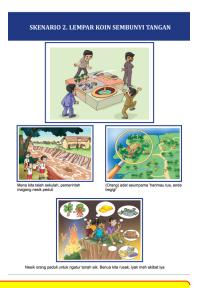
г			T	T			
	No	No Key variables Similar variab		States			
		,		Α	В	С	D
Community		Community Participation		Community involved in planning, implementing, and monitoring of land use in a transparent system.	Top-Down approach in planning and land management (community, as the executor).		Communities manage land regardless of the formal rules.
•				*	, in the second		
participatio	n	ality	Customary Land Tenure	Customary rights and local wisdom are arranged in local	State controls of customary land and ignores the values of	There is no certainty of customary land law are loss of	Retuanan customary rights of indigenous
Legality of	Legality of land Government		Lo cal Wisdom	legislation, and a e implemented.	local wisdom.		peoples ters with o
Government			Petuanan Customary Rights				regulation
policies		olicies	Central Government Policies	Head of Regional Policy and the Certral Government accommodate the	Head of Regional Policy and the Central Government is authoritarian, only	Regent policies and regulation do not considered sustainable and use	Communities reject all policies, i.e., Regent's and the Ceptral
Spatial plan policies	Spatial planning policies			interests and relate of the con 1	in favor of certain	(social economic, and physical).	Government's policy in land use.
Community empowerm policies		lanning t	Forest Land Uses and Planning Policies Palm oil Investment Policies Forest Land Uses Land Conversion Policies Land Suitability for	Spatial Policy in a rational and realistic manner, based or regional characteristics.	spatial planning	Determination of forest are other forest are other proportional to the spatial planning policies.	Spatial planning tpolicies are not in accordance with regional characteristics.
			Plantation and Agriculture				
		Community Empowerment Policies		Community empowerment policy in accordance with the capacity of community	Community empowerment policy which does not correspond to the	Society refuses or does not utilize the empowerment of government policy	
Thinking beyond th				and business characteristics based on	capacity of the	government poncy	

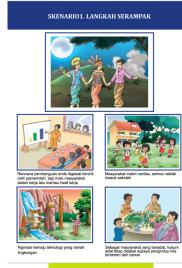
CONFLICT

EXCLUSION OF PEOPLE REJECTED PARTICIPATION COLLABORATION

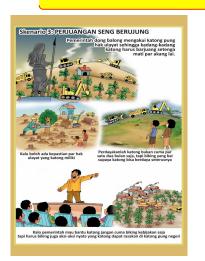




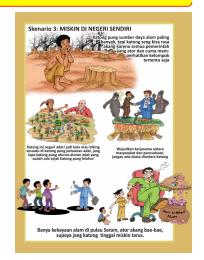




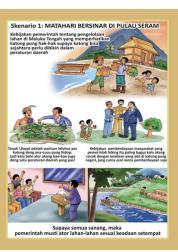
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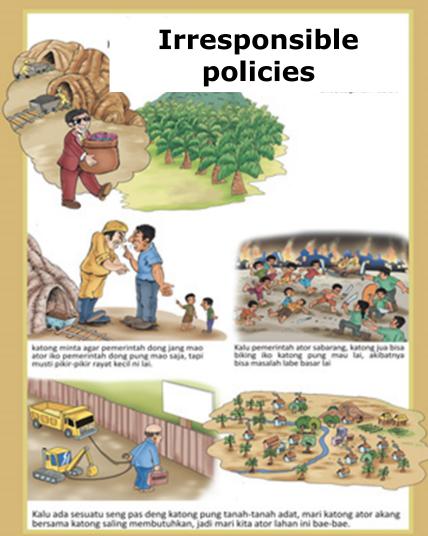




Maluku Scenarios

VS

The sun is shining on **Seram Island** Tanah Ulayat adalah warisan leluhur per Kebijakan pemberdayaan masyarakat yang katong deng ana-cucu pung hidop. pemerintah biking itu paling bagus kalo akang Jadi kalu bole alor akang bae-bae juga cocok dengan keadaan yang ada di katong pung deng satu peraturan daerah yang pas! negeri, jang cuma asal nama pemberdayaan saja Supaya semua sanang, maka pemerintah musti ator lahan-lahan sesuai keadaan setempat



I Forestry Res

Kalimantan Scenarios

VS

SKENARIO1. STEPS IN HARMONY





Policies that favor and compiled together with the community, enhance public participation in the planning process to monitoring and



PEOPLE MASTER APPROPRIATE AND ENVIRONMENTALLY FRIENDLY TECHNOLOGY.



Access to education and skills are improved



Synergy between customary law and positive law supports the course of development

SKENARIO 3.

PANNING THE GOLD GETTING THE STONE





the weakening of customary law and indigenous knowledge



the stakeholders seek to win personal and group interests over the land use

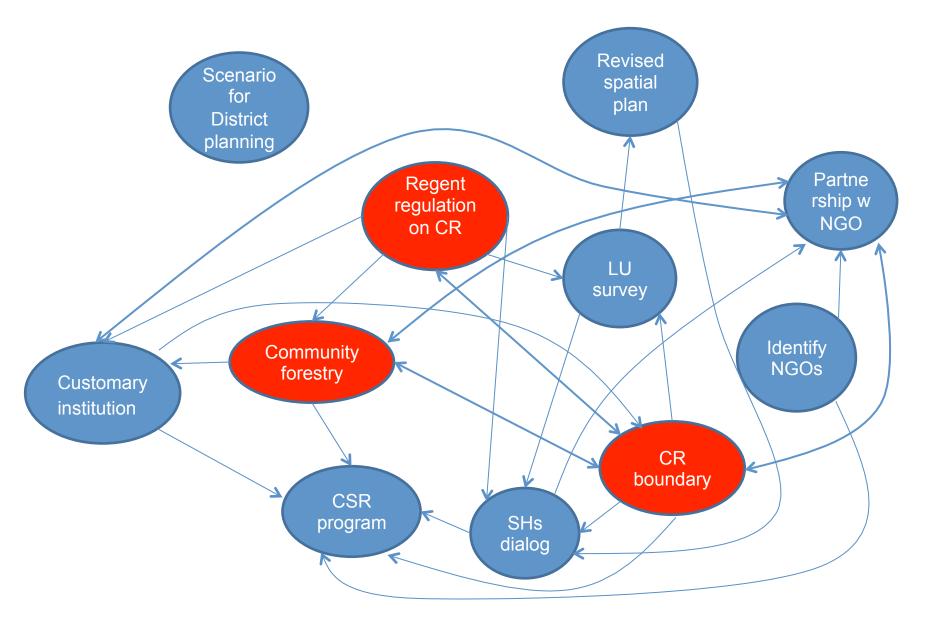


EDUCATION IS NOT ACCESSIBLE FOR ALL



Conflicts in society escalate triggered by the exclusion of the society in the development process

System map of proposed plan



From scenarios to Action (8)

Proposed action:

- Integrated action plan for district mid-term planning
- Commitment of all stakeholders to implement the action plan
- LUP dialogue at national level involving key decision makers at MoF

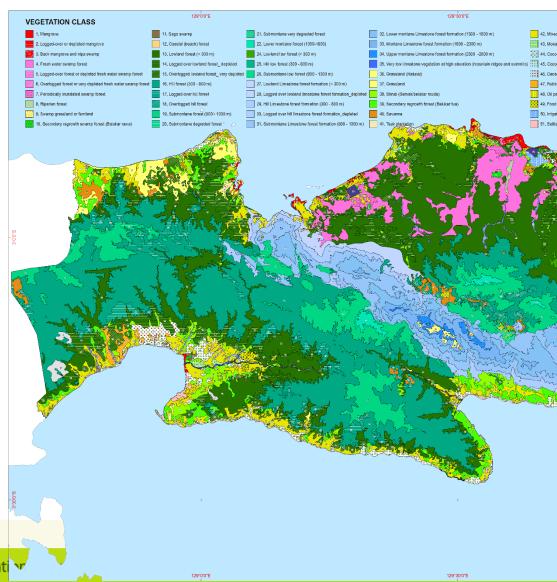
Evidence:

- Decision maker agreed to legalize group PPA for future activities
- The district government prioritized programs relevant to key variables of scenario

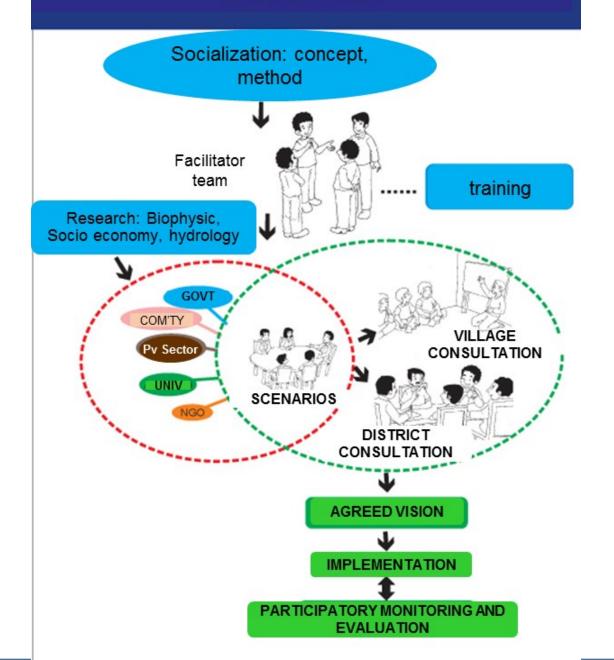
 National stakeholders workshop stimulated policy discussion at national level

Ongoing Action

Recommendation to use 1:50.000 scale of land allocation map for district level



PARTICIPATORY PROSPECTIVE ANALYSIS (PPA) PROCESS FLOW



Lessons learnt

- ☐ The process involved many stakeholders that synergizes different interests on forest management
- □ PPA can improve governance, e.g. inclusive coordination, building trust
- ☐ Using bottom-up approach, will help the policy maker to better understand the needs of forest stakeholder's
- Applicable approach for multi-stakeholders of forward looking forest management
- □ Element of success: involvement of key decisions makers since the beginning



PPA and policy making

PPA approach can be used to improve planning and programme in complex multi-stakeholders environment by:

- Incorporating long-term perspective to better inform decision making processes
- Integrating key drivers for better natural resource management decisions
- Influencing policy makers to integrate aspirations from many groups of stakeholders leading to better coordination between sectors
- The method is replicable, in other situation, other part of the world
- PPA is not only the tools but also new way of thinking



Future challenges

- How to ensure nongovernment stakeholders are equal partner in participatory decision making process?
- Embedding participatory forward looking process (PPA) into government system





Collaborative Land 1980 Planning and Sustainable Institutional Arrangements for Strengthening Land Tonure, Forest and Community Rights in Undonesia (ColUPSIA) LOKAKARYA PROSPEKTIF Masa Depan Peurbangunan Kabupaten Kapuas Hulu tahun 2030 PONIJANAK, 23 - 25 JUNI 2011

Thank you

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