## INSTITUTIONS AND INSTITUTIONAL DESIGN

Erling Berge

Part IVb: Property Rights to Nature

NTNU, Trondheim Fall 2004

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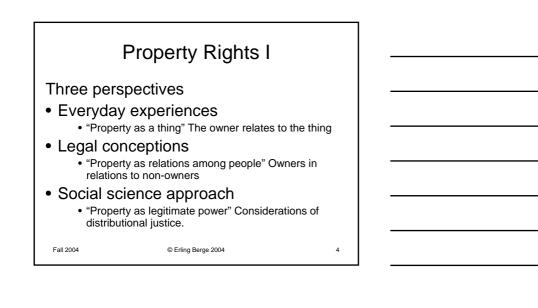
Literature
Hanna, Susan; Carl Folke, and Karl-Göran Mäler (eds.) 1996 "Rights to Nature", Washington, Island Press,
Ostrom, Elinor, and Edella Schlager "The Formation of Property Rights", pp.127-156
Ensminger, Jean "Culture and Property Rights", pp.179-203

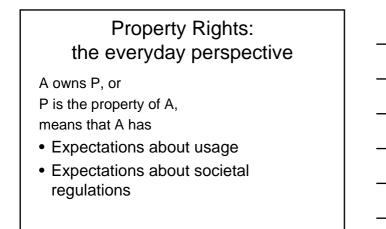
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## Property Rights: the everyday perspective

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#### USAGE

- 1. A has exclusive access to P
- 2. Other persons have access to P only if granted permission by A
- 3. A has the right to transfer to others rights under 1) and 2)

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# Property Rights: the everyday perspective

#### SOCIETAL REGULATIONS

- Those interfering with A's rights under 1, 2, or 3, or gets access to P without permission are liable to punishment
- 5. Those causing damage to P are liable to pay damages to A
- 6. If the usage of P hurts others than A, A is liable

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## Property Rights in Law:

#### Property rights as

- Rights against other people
- Liberties (for acting without the consent of other people)

#### References:

- Hohfeld, W.N. 1913&1917 in Yale Law Journal
- Commons, John R 1932 "Legal Foundation of Capitalism"

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Defining the rela	ation	its limit
(jural correlates)		(jural opposite)
OWNER	NON-OWNE	ER
claim-rights	duties	exposure
liberty	exposure	duties
powers	liability	disability
immunity	disability	liability



## Ostrom and Schlager 1996

# The Formation of Property Rights

### Some Facts 1

- Overuse, conflict, and potential destruction of natural resources producing highly valued products is likely to occur where those involved act independently due to lack of communication or incapacity to make credible commitments (model: "Tragedy of the Commons"
- If those who directly benefit can communicate, agree on norms, monitor each other, and sanction non-compliance with agreements, individuals can establish rules to control overuse, conflict, and destruction of natural resources

(Self-governance is possible!)

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Some Facts 2
The variety of locally selected norms, rules, and property rights systems used in field settings is immense, but can be characterized by general design principles
Locally selected systems of norms, rules, and property rights that are not recognized by external authorities may collapse if their legitimacy is challenged, or if large exogenous economic of physical shocks occur

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### Some Facts 3

- Control of natural resources by state authorities is effective in some settings but is frequently less effective and efficient than control by those directly affected especially related to smallerscale, natural resource systems
- Efforts to establish marketable property rights to natural resources systems have substantially increased efficiency in some cases and encountered difficulties of implementation in others

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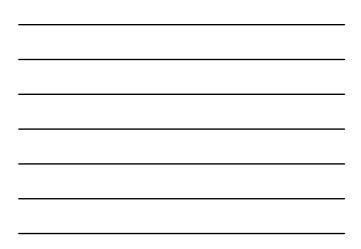
## Some questions to discuss

- What are the attributes of Common Pool Resources?
- What are property rights?
- How do property rights get established, and what are the effects of diverse property rights regimes?
- What social and physical factors affect the formation of property rights?
- Why are local, self-organized property-rights regimes important, but not sufficient, in achieving sustainable natural resource systems?

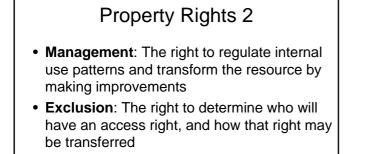
 Why are property-rights regimes organized at many diverse scales necessary to achieving sustainable natural resource systems?

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Classification of Goods				
	APPROPRIATORS ARE			
	Excludable	Non-excludable		
RESOURCE IS				
Subtractable	PRIVATE GOODS	COMMON POOL GOODS		
Non-	CLUB	PUBLIC		
subtractable	GOODS	GOODS		
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Property Rights 1	
<ul> <li>Access: The right to enter a defined physical area and</li> </ul>	
enjoy non-subtractive benefits	
<ul> <li>Withdrawal: the right to obtain the resource units or</li> </ul>	
"products" of a resource	
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• Alienation: The right to sell or lease either or both of the above collective-choice rights

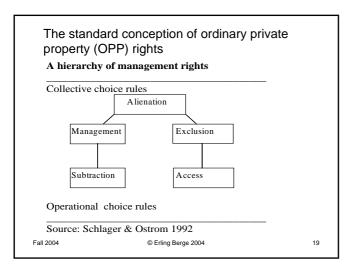
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managen	nent sy	ystem			
Rights of	Owner	Proprietor	Authorised claimant	Authorised user	Authorised entrant
Access	X	X	X	X	X
Withdrawal	X	X	X	X	
Management	X	X	X		
Exclusion	X	X			
Alienation	X				



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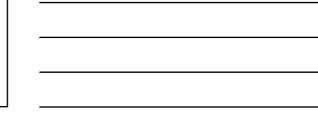




#### Trust management roles

Bundles of rights associated with positions in a consumption oriented management system

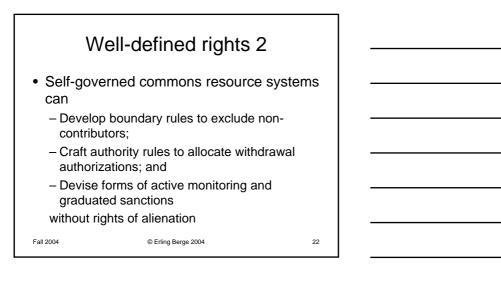
	Trustee (owner)	Cestui que trust (beneficial use)	Manager (managerial use)	Rights sum up to
Access	(X)	(X)	(X)	Х
Subtraction	(X)	(X)	(X)	Х
Management	(X)	(X)	(X)	Х
Exclusion	(X)	(X)	(X)	Х
Alienation	Х			

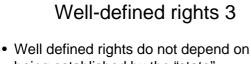


### Well-defined rights 1

- Security for the future
- Well-established property rights do NOT require alienability
  - Alienability promotes efficient resource allocation
  - But it is not a necessary condition for the promotion of efficiency

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- being established by the "state"
  - Roman law traditions
  - Common law tradition
- Collective-choice arenas are needed
- Conflict resolution mechanisms are needed

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# Failure of government property rights because (1)

- The vastness of the areas transferred to state ownership (in most counties over 50% of total land area);
- 2. The speed and manner in which the transfer of ownership has been made;
- The failure to recognize and accommodate the customary rights of individuals and communities to the forest, which has created resentment among local populations;

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# Failure of government property rights because (2)

- 4. The limited budget and administrative, technical, and enforcement capacities of the newly established estates
- 5. Growing pressures from expanding rural populations; and
- 6. The failure of rural development to provide alternative employment and income opportunities

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## Reduction of externalities (1)

- 1. Accurate information about the condition of the resource and expected flow of benefits and costs are available at low cost
- 2. Participants are relatively homogenous in regard to information and preferences about the use of the resource
- 3. Participants share a common understanding about the potential benefits and risks associated with the continuance of the status quo as contrasted with changes in norms and rules that they could feasibly adopt

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# Reduction of externalities (2)

- 4. Participants share generalized norms of reciprocity and trust that can be used as initial social capital
- 5. The group using the resource is relatively small and stable
- 6. Participants do not discount the future at a high rate
- 7. Participants have the autonomy to make many of their own operational rules which if made legitimately, will not be interfered with, and even potentially supported and enforced by, external (local, regional, and national) authorities

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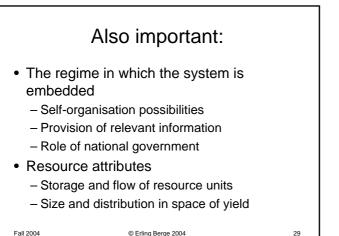
## Reduction of externalities (3)

- 8. Participants use collective-choice rules that fall between the extremes of unanimity or control by a few ( or even bare majority) and thus avoid high transaction or high deprivation costs
- 9. Participants can develop relatively accurate and low-cost monitoring and sanctioning arrangements

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## Scaling up

- Dilemmas and problems of collective action are repeated at higher scales (larger resource systems and more people)
- Larger resource systems need organisations of local organisations (nested/ federal systems)

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 Conclusions
 No single, uniform set of rules can possibly address the myriad problems faced by most resource users
 No one knows the nuances of the physical and cultural environment better than the resource users themselves
 Local-level organisations are not panaceas. Some problems require higher level coordination
 Local level governance structures are not anachronisms. They will continue as long as local users are allowed to govern themselves

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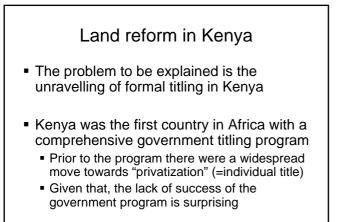
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Ensminger 1996

# Culture and Property Rights



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# The problem of compliance with formal rules

The main problem is described differently

- Anthropology: Contextual fit of institutions
- Sociology: Embeddedness of institutions
- Economics: Formal institutions building on informal institutions

In our case this means:

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Reasons for failure (1)

- High transaction costs
- Lagging factor markets in capital and labour
- Asymmetric information work to the advantage of the better educated in the establishment of property rights,
- Lack of "fit" between property rights and system of production

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	Reasons for failure (2)	
•	Household consumption needs varied considerable over time, fixed land rights did not	
•	Lack of fit between property rights and system of inheritance	
•	Lack of fit between ecological conditions and property rights	
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