



David N. Barton Eeva Primmer Adriana Chacón-Cascante Daniel Caixeta Andrade

Final POLICYMIX Conference, Leipzig, 25-27 February 2014



Questions

- PES as an individual 'instrument'
- **PES as a policymix** 'rules-in-use' & Institutional Analysis and Design (IAD)
 - PES rules-in-use (Costa Rica)
 - PES regulation interactions
- Conclusion: rules-in-use to study instrument interaction



Payments for ecosystem services individual instrument

PES as an individual marketbased instrument



Wunder (2005) PES definition	Ostrom (2005) IAD terminology
(a) a voluntary transaction, where	Payoff rule
 (b) a well-defined environmental service (or a land use likely to secure that service) 	Scope rule
 (c) is being 'bought' by a (minimum one) service buyer (d) from a (minimum one) service provider 	Position rules
(e) if and only if the service provider secures service provision (conditionality).	Choice rules
	POLICY

PES as particular type of common pool resource (CPR) regime

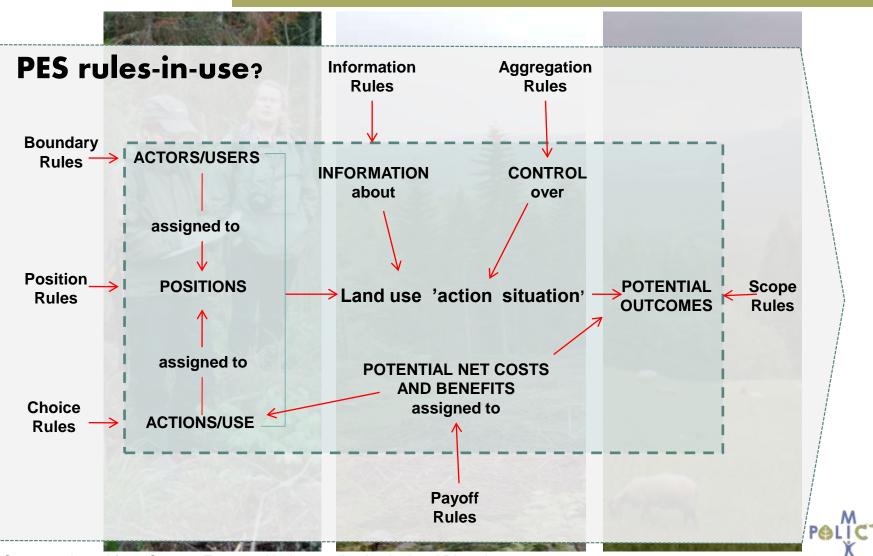
Muradian et al. (2010): "..broader analytical approach transcends the idea of PES as only a market-driven tool, links PES to the literature on CPR and incorporates a **broader range of situations and institutional arrangements**"



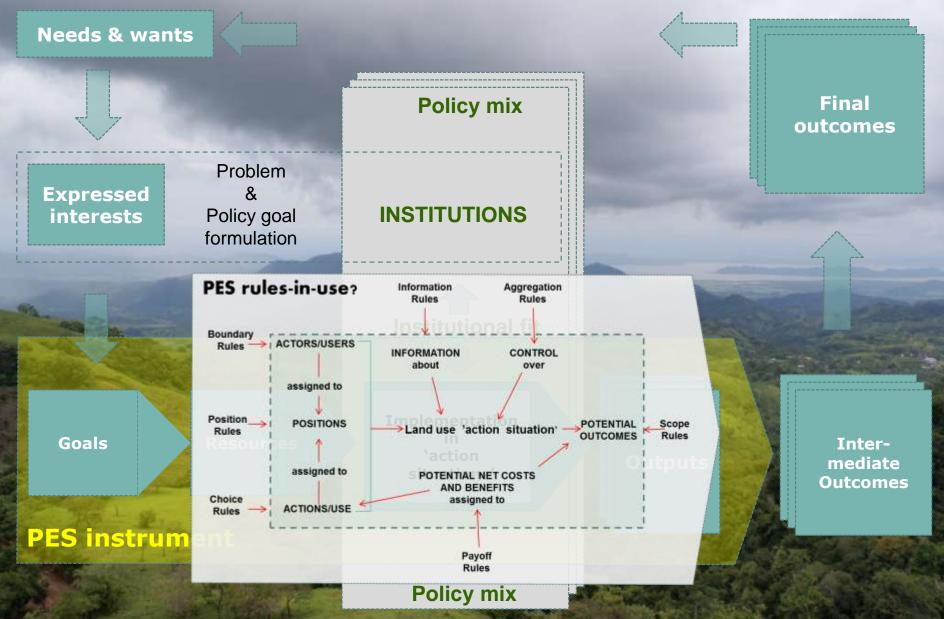
Payments for ecosystem services

as a policymix

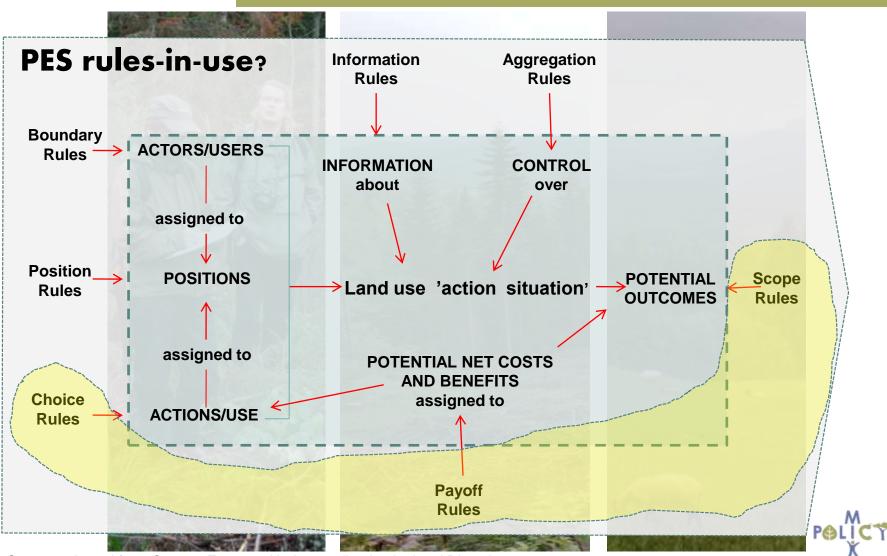
Institutional analysis and development (IAD) framework: «rules-in-use»



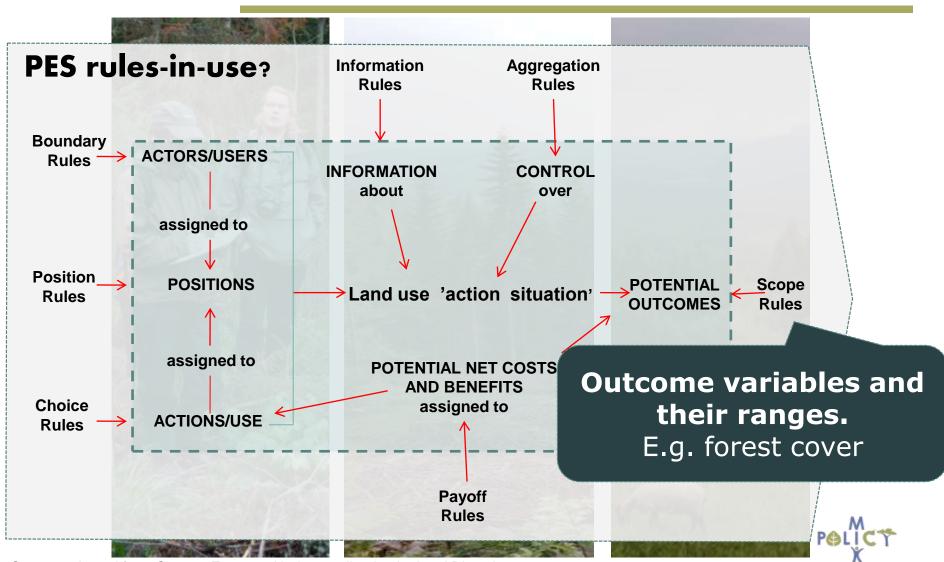
Framing: IAD Rules-in-use in the policy cycle...



Rules governing forest owners

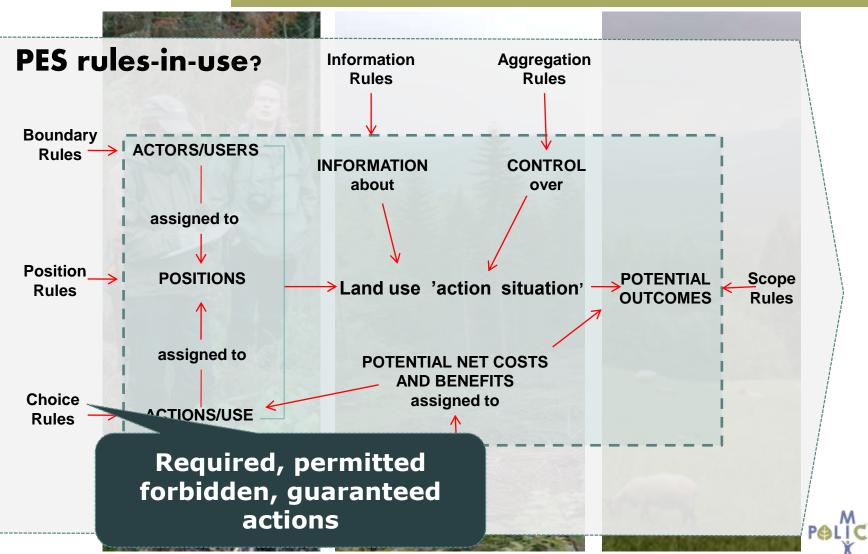


Scope rules: forest owner





Choice rules



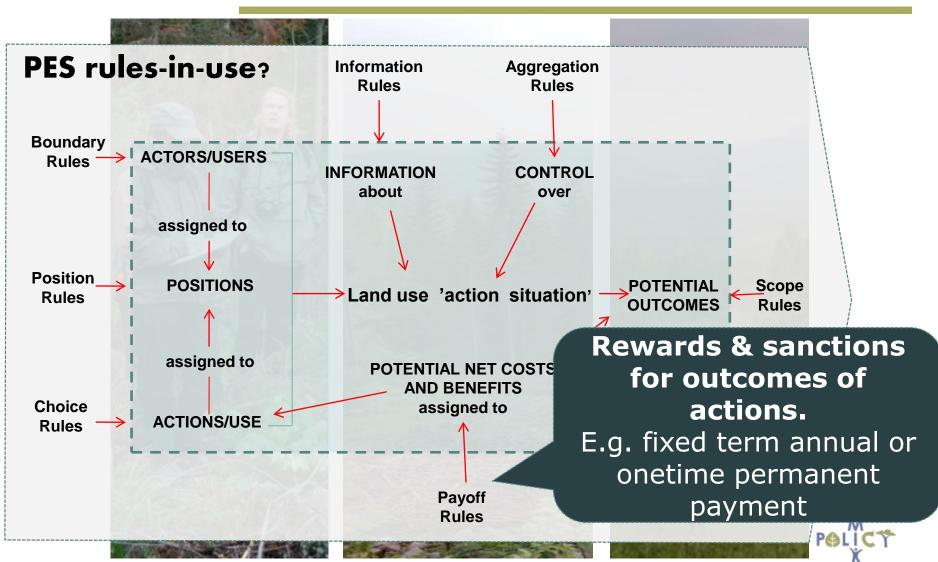
Medalidad deflaticado de Bonque En desas Silventres Prologidas Contrato no PN-01-224 0/02 2011 Sonia Caballaro Arauz Walter Arauz Nieto

Choice rule instrument interaction

The Forest Law ban on landuse change in forests is a general *choice rule* banning all forest clearing with a few exceptions*

*Exceptions can be granted for housing and infrastructure for the purpose of ecotourism, infrastructure of national interest, natural hazard mitigation and forest fire prevention

Payoff rules





Payoff rule instrument interactions I

Participation in PSA provides a guarantee of public eviction of squatters (**avoided costs**)



Payoff rule instrument interaction II

Private forest owners in PSA or in protected areas are exempt for property taxes (avoided costs).

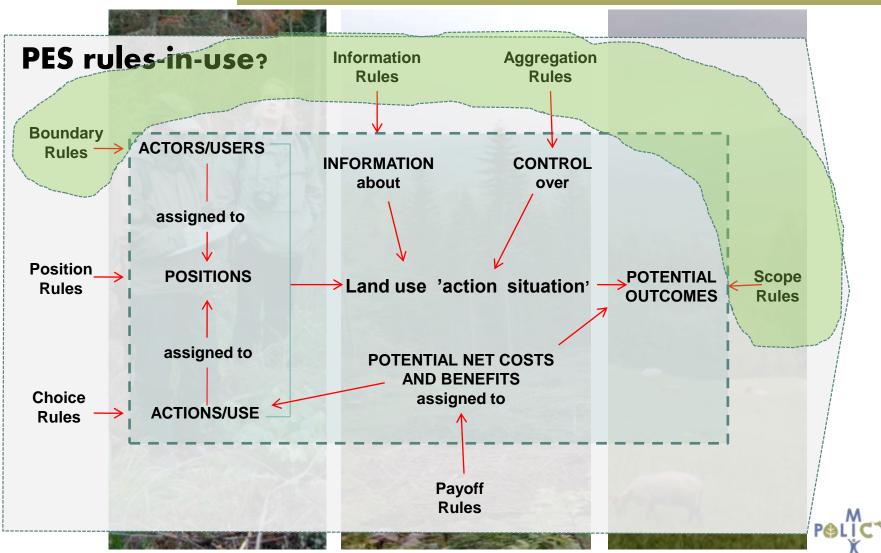
Payoff rule instrument interaction III

Landuse change with intent is illegal and punishable by prison sentences of up to 3 years (sanction).

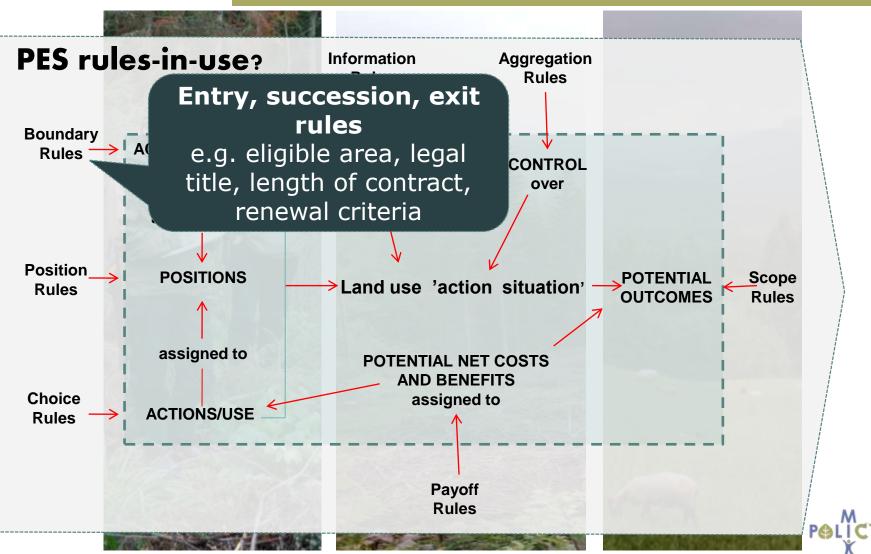
Payoff rule instrument interaction IV

Despite being protected by forest law, forest riprarian zones are counted as part of the PSA contracted area and subject to compensation (**redundant** *pay off*)

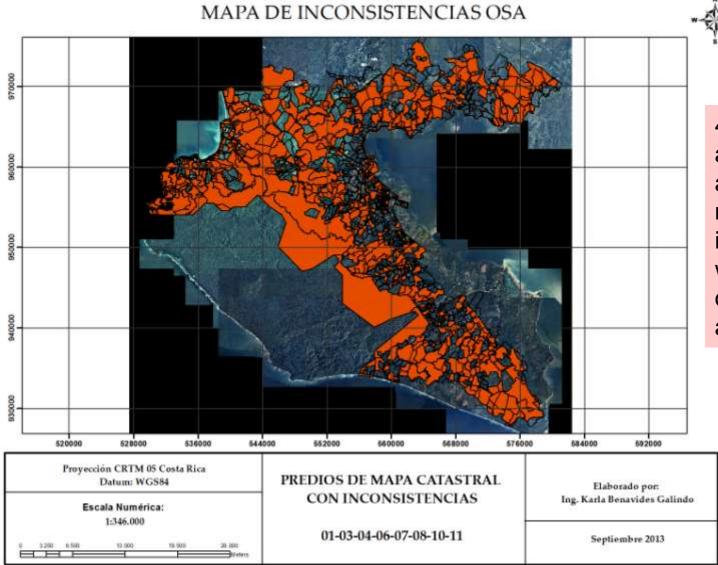
Rules governing the regulator



Boundary rules



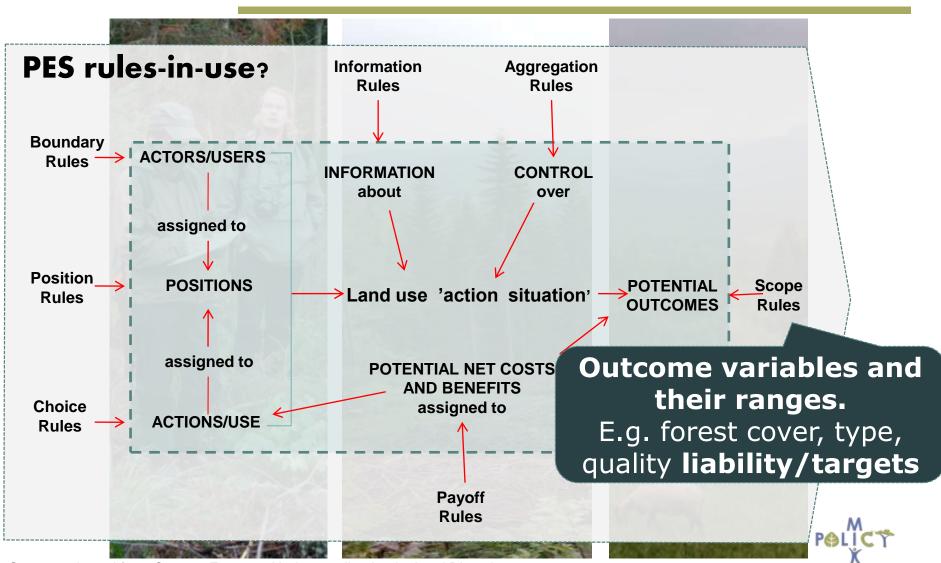
Boundary rule instrument interactions



42% of properties and 70% of land area have one or more cadastral inconsistencies which could delay or stop PES applications...

> POLICY X

Scope rules:regulator



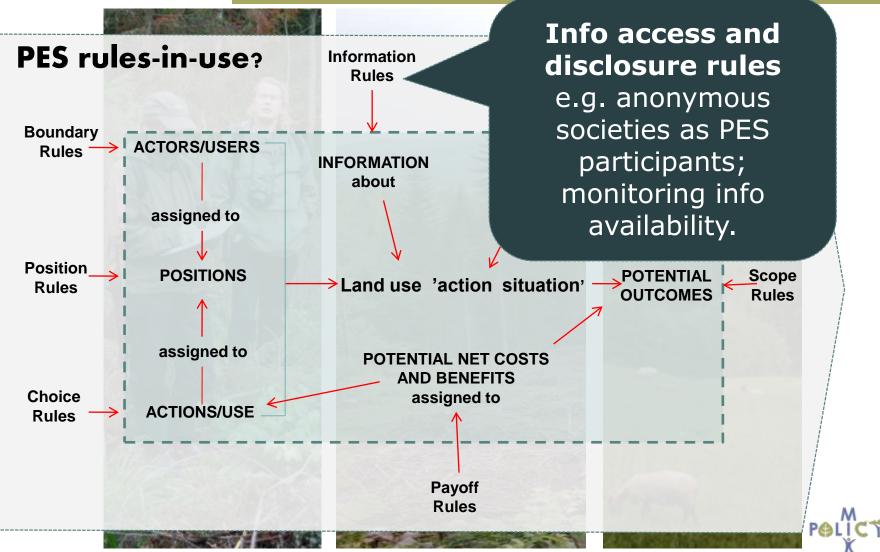
Boundary rules evolving into scope rules

Eligibility criteria 🔿 targeting criteria

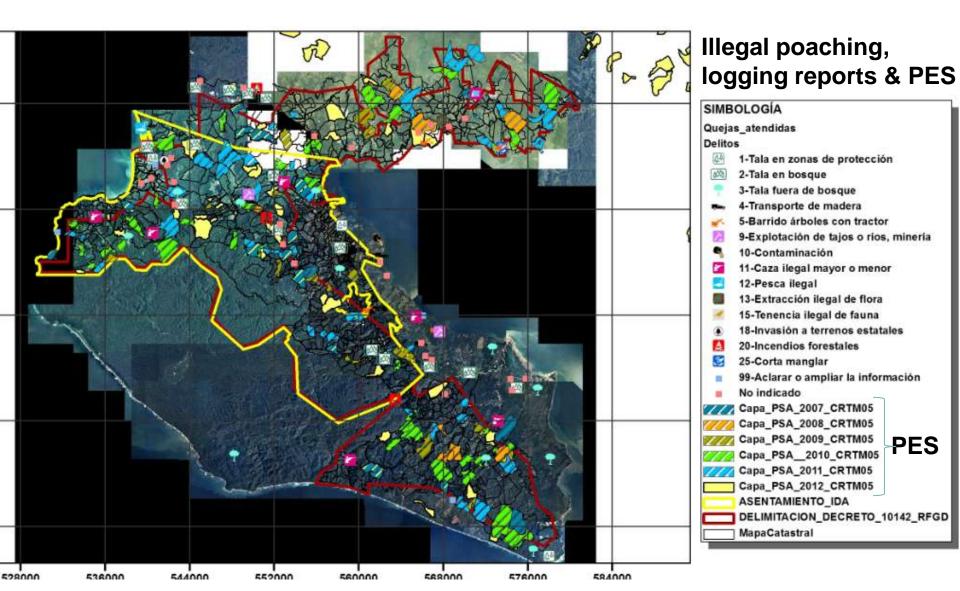
		FIRST PERIOD				SECOND PERIOD								THIRD PERIOD			
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
PRESIDENTIAL DECREE #	25828	26977	27808	28610	29394	30090	31081	31767	32226	33226	33852	34371	35119	35762	36516	36935	
	26141																
Criteria:																	
Conservation area (CA) specific criteria		See Note below															
Non-priority Forest															60	55	55
Indigenous territories													6.	6.	80/75*	85	85
Conservation gaps (GRUAS II)													§/3.	§/3.	80/75*	85	85
Protected areas (PA)	spatial priorities												1.§ /4.	1§/4.	80/75*	75	75
Forest protecting water resources	Ipric														80	80	80
Biological corridor (GRUAS, CBM)	oatia												2.§/5.	2§/5.	80/70*	80**	80**
Ecomercados#, KfWproject areas	ls ou																
Non-expropriated properties	Whole country / no												9. PA	9.PN/ RB	AP	AP	AP
Expiring forest management PES													8.	8.	65		
Expiring contract this year			-												+5	+10	+10
Expired PES contract													7.	7.	+5		
Expired CAFMA >10yrs																	
Low SDI (<40%)					-								10.	10.	+5	+10	+10
Contracts ¹ , properties ² <50 ha															+101	+252	+252



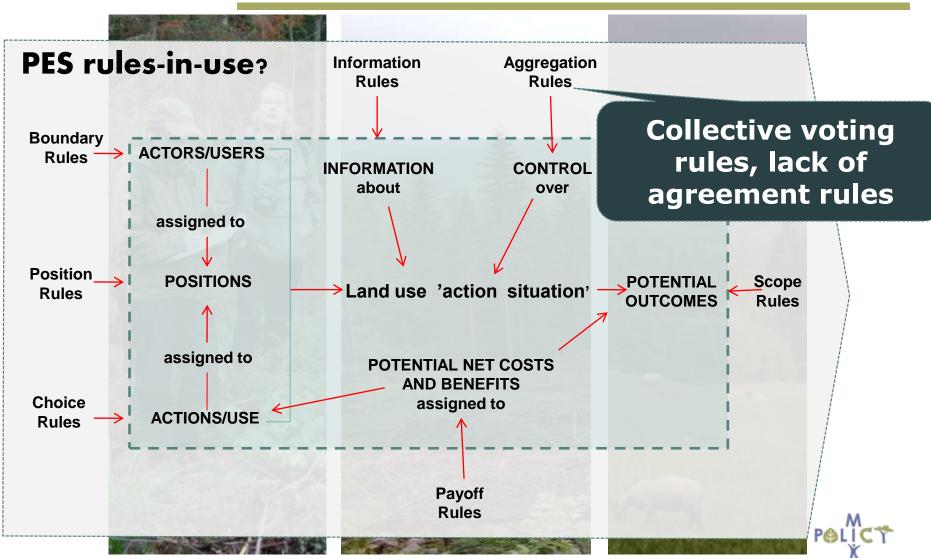
Information rules



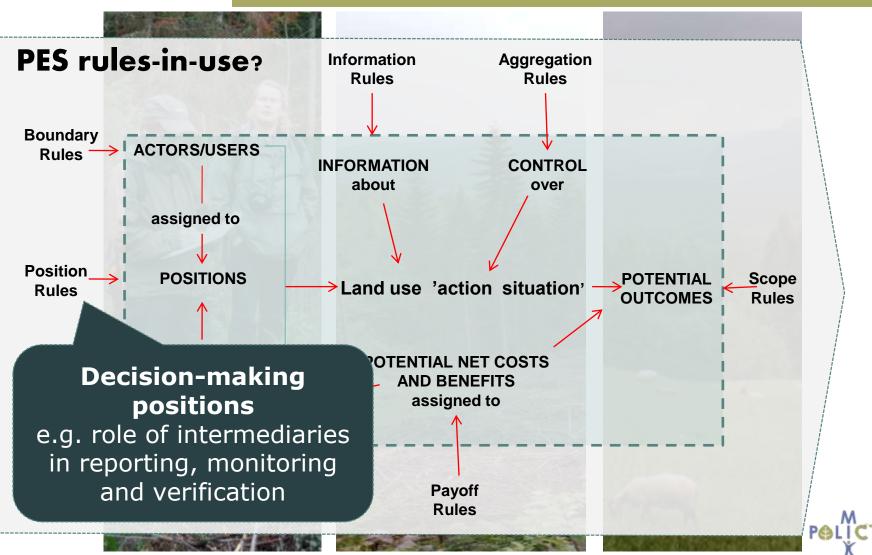
Information rules institutional interaction



Aggregation rules

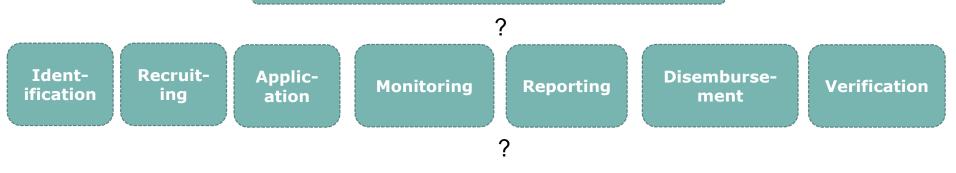


Position rules



Position rule: role of intermediaries

FONAFIFO (Public PES authority)



Forest owner





P

PES as a policymix within a policyscape Conclusions



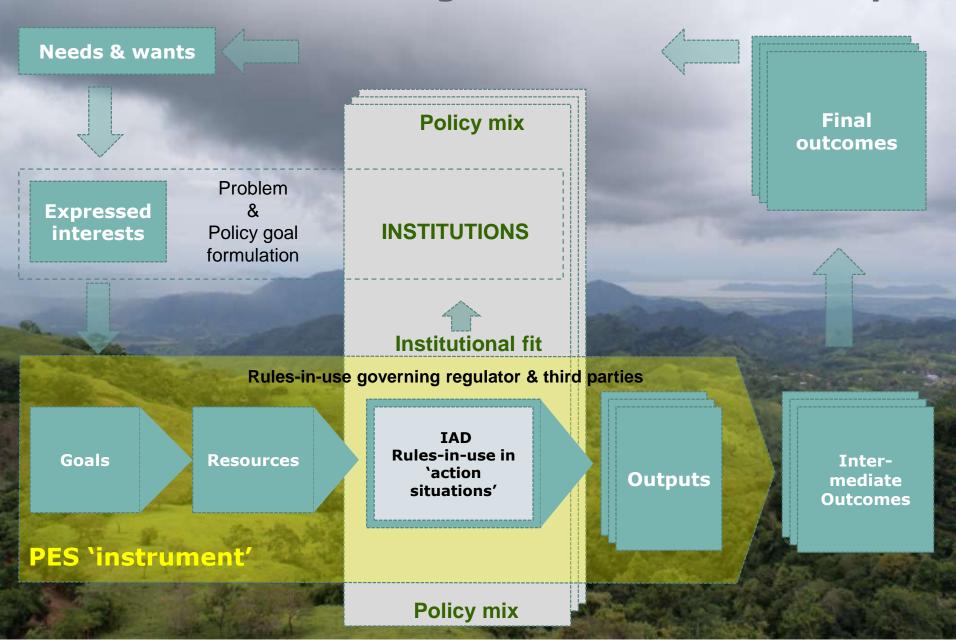
What have we left out?

Rules-in-use governing the policy process & evolving from contestation of interests

Rules-in-use interdependence. «Classification is not causation either...»

Rules-in-use shifting transaction cost between actors

Perceptions and motivational structure of landowners facing formal versus informal rules-in-use **Rules-in-use governing PES...interacting with other resource regimes...within a landscape**



PES as a mix of rulesin-use

... governing the landuser decision of the forest owner directly ... governing the landuse decision indirectly through rules for the regulator and third parties ...together define PES as a 'policymix' in itself, within a 'policyscape'.

Rules-in-use as potential entry points for the analysis of PES' multiple interactions with other instruments.

POLICY

References:

Barton, D.N., E. Primmer, A. Chacón-Cascante, D. Caixeta Andrade (2014) Cross case comparison of payments for ecosystem services in forest(PES) in Santos, R., P. May, D.N.Barton, I.Ring (eds.) Comparative assessment of policy mixes across case studies – common design factors and transferability of assessment results

Porras, I., Barton, D.N, Miranda, M. and Chacón-Cascante, A. (2013). *Learning from 20 years of Payments for Ecosystem Services in Costa Rica*. International Institute for Environment and Development, London.





REDES



Finnish Environment Institute HELMHOLTZ CENTRE FOR ENVIRONMENTAL RESEARCH - UFZ





FundAg



the surface services

IVM Institute for Environmental Studies

policymix.nina.no