

IS THERE SUCH A THING AS INNOVATIVE FINANCING FOR ECOSYSTEMS MANAGEMENT?

SESSION 1: ENABLING CONDITIONS FOR IMPLEMENTING ECOSYSTEMS MANAGEMENT

Tariff Reform for Green Infrastructure in Peru

Ivan M. Lucich President of the Board - SUNASS

ADB, IDB, SIWI & TNC

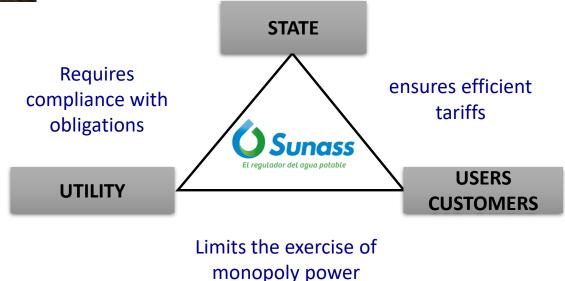
Tuesday August 28th / 09:00 - 10:30



National Superintendence of Sanitation Services – SUNASS

The Water Utility Regulator

Economic regulator that balance the interest of:



Sets tariffs for retrieving the economic cost of providing sanitation services

Why is Peruvian WUR interested in GI?









The watershead degradation increases the cost of drinking water service

The water utilities should have control of the raw water supply chain, in order to avoid....

- Additional use of chemical inputs.
- Interruption of DW distribution.
- Investment in pre-treatment units.
- Investment in new sources of water.
- Deterioration of the infrastructure.
- Social conflicts

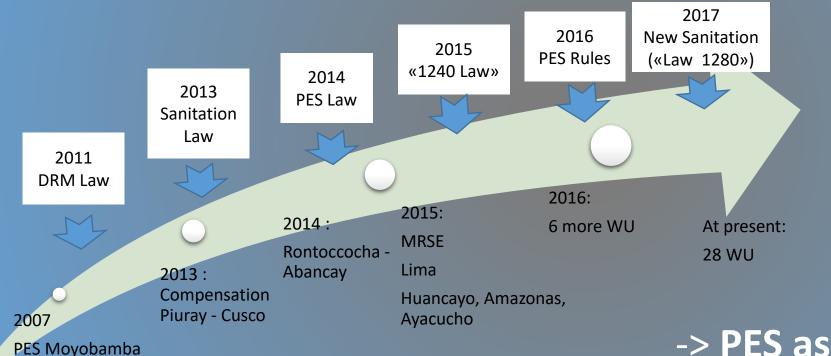
There is a direct relationship between Water Ecosystem Services Conservation and Sanitation Services

hid páramo (PdU) trans (PdU) t	Actual problems registered in Water Utilities	Problem Causes	Affected Water Ecosystem Services
Huni (Hu) (Hu) (Hu) (Hu) (Hu) (Hu) (Hu) (Hu)	Discontinuity of service, due to lack of water in the sources, especially during low water level periods	Decrease in baseflow, due to anthropogenic pressures: bad practices in ecosystems management within the contribution watershed and especially in the main area of water recharge.	Water regulation
Pina (Td)	Interruption of service due to clogging and obstruction of grids in the collection	Deforestation in the upper watershed causes soil erosion and landslides that drag palisades.	Sediment Control
Image: service in the service in th	Very high turbidity of raw water causes greater consumption of chemical inputs and sometimes stops the water production system	Change of land use in the upper watershed from forest to coffee plantations, mainly without management, causes soil erosion.	Sediment Control

When did the Tariff Reform begin ?



SUNASS decided to promote the inclusion of PES in the WU tariff through the Sanitation Law

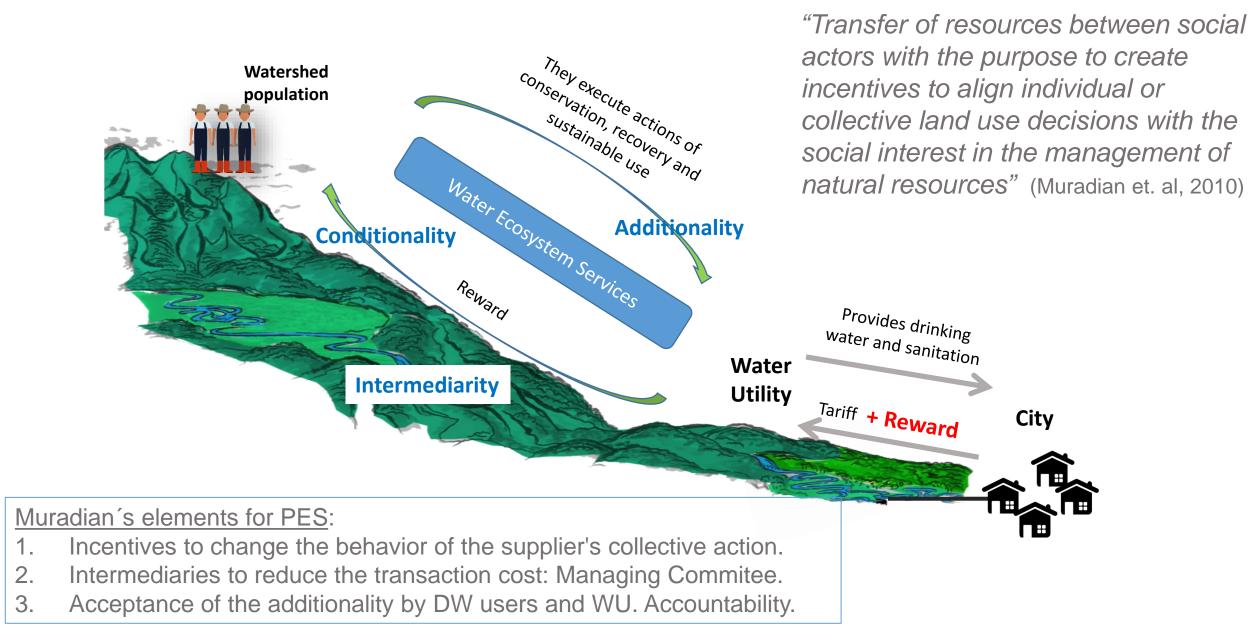


A large process.....
✓ Moyobamba 2007
✓ DRM Law
✓ Sanitation Law
✓ PES Law

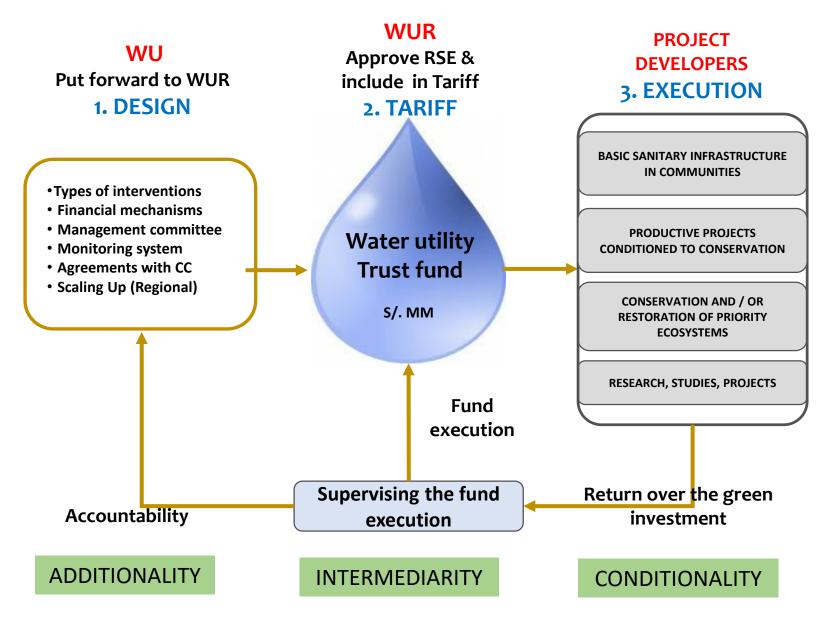
New Sanitation Law

-> PES as a Public Policy

The Peruvian PES: Mechanisms of Rewards for Ecosystem Services - MRSE



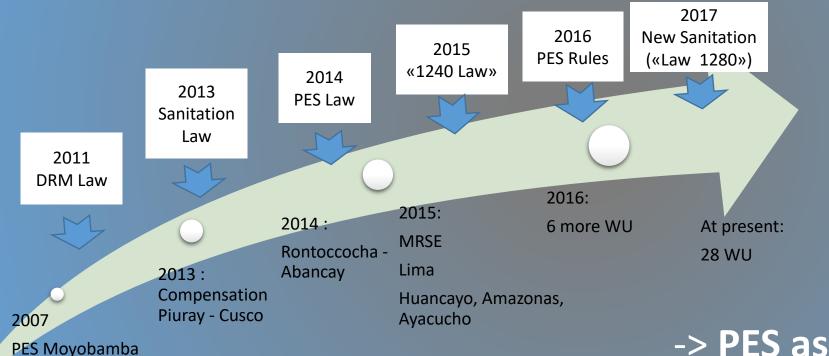
WU & WUR Roles in the MRSE



The story of the Tariff Reform



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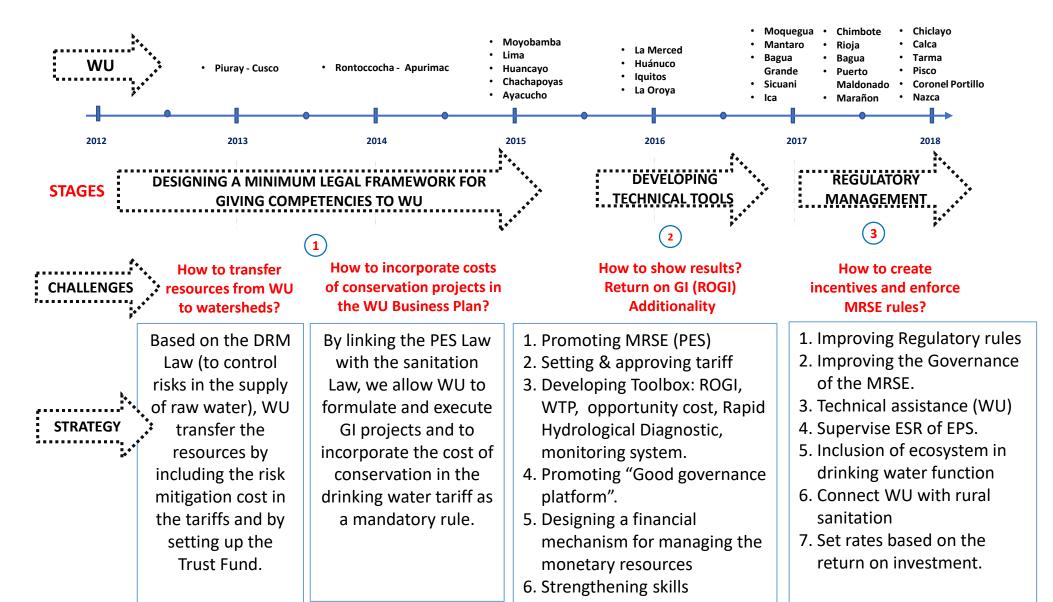


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New Sanitation Law

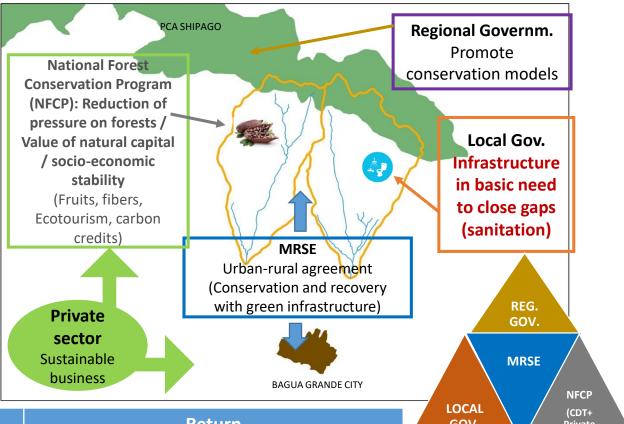
-> PES as a Public Policy

Stages in the Tariff Reform for the PES implementation



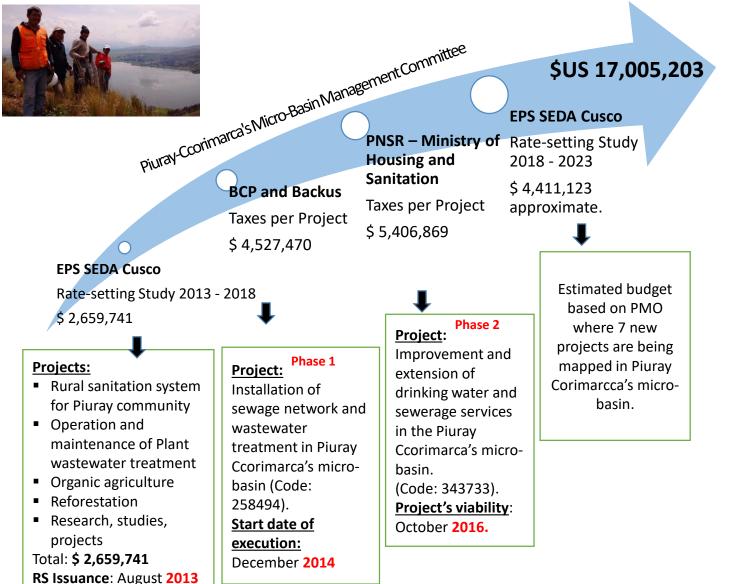
MRSE as an instrument to attract more resources

- Ecosystems: multiple goods and services.
- Investment generates positive externalities.
- Water utility should invest in:
 - 1) conservation / restoration projects
 - 2) opportunity cost (poverty reduction-rural sanitation)
 - 3) Disaster Risk Management based in ecosystems



	Agents	Use of resources	Return	GOV. (CD1+ GOV. Private Sector)	
	Water utility	Conservation or restoration, opportunity cost	Water availability; cost reduction, risk and disaster reduction.	Link the MRSE	
	Local and regional government	Rural sanitation	Communal participation Improve livelihood	with different	
	responsability. reput		Tax reduction, avoid social conflict, reputation.	processes	
			Programs, projects, partnerships		

MRSE scaling up – SEDA Cusco case



The first "seed capital" (collected in 5 years) Approved between 2013-2015

EPS	Users	∆% Tariffs ESR + CC	Investment (US\$)
SEDACUSCO Cusco	73,000	9%	2,659,741
MOYOBAMBA San Martin	13,000	4.4%	389,492
EMUSAP Amazonas	90,000	11 %	208,967
EMUSAP Apurímac	12,300	15%	400,000
SEDAM Junín	68,000	4%	1,000,000
SEDAPAL Lima	1,500,000	4.8%	112,000,000

Enabling conditions to the scaling up of the financing of ecosystem services in other sites. The Challenges



- Incorporate ecosystem in the production function of "water delivery system": G&G
- Show profitability and additionality.
- Define governance of the MRSE.
- Ensuring "the cash flow" of the conservation projects for a large horizon.
- Linking sanitation-MRSE with other sectors and at a government level (CAPEX & OPEX).
- Development of the DRM based in ecosystems.
- Linking MRSE with other instruments throught Environmental Funds.

Recomendations

- 1. First, design <u>a minimum legal framework</u> in order to allow the WU to invest in conservation projects in the watershed.
- 2. After, promote the mechanism, set tariffs, and develop a toolbox for measuring & monitoring because drinking water users demand a return on GI.
- 3. At the end, <u>with several experiences in course</u>, improve your regulation to attract more resources. Focus in the governance. This stage allows consolidation and sustainability.



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