

Améline Vallet
Bruno Locatelli
Harold Levrel
Nicolas Dendoncker
Cécile Barnaud
Yésica Quispe Condé











Power, equity and ecosystem services

- Addressing power and equity issues is crucial for more sustainable, equitable and resilient governance of ecosystems and their services (Berbés-Blázquez et al. 2016)
- The concept of ecosystem services is poorly related to the questions of equity, power and environmental justice (Ernstson 2013; Felipe-Lucia et al. 2015)
- Stakeholders play different roles in relation to the distribution of ES or natural resources and their management (Schlager and Ostrom, 1992)
- Distributive vs. Participation equity (Cutter, 1995, Schlosberg, 2003)

Stakeholders who benefit from ES do not always participate in ES management

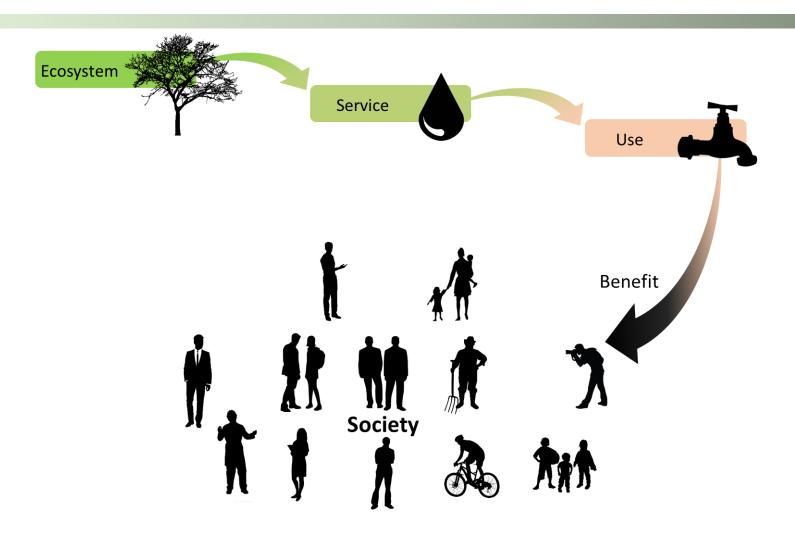


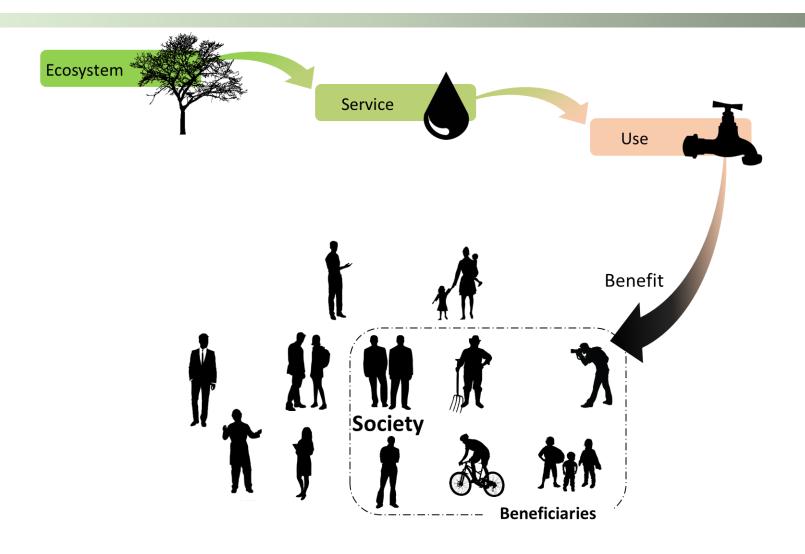


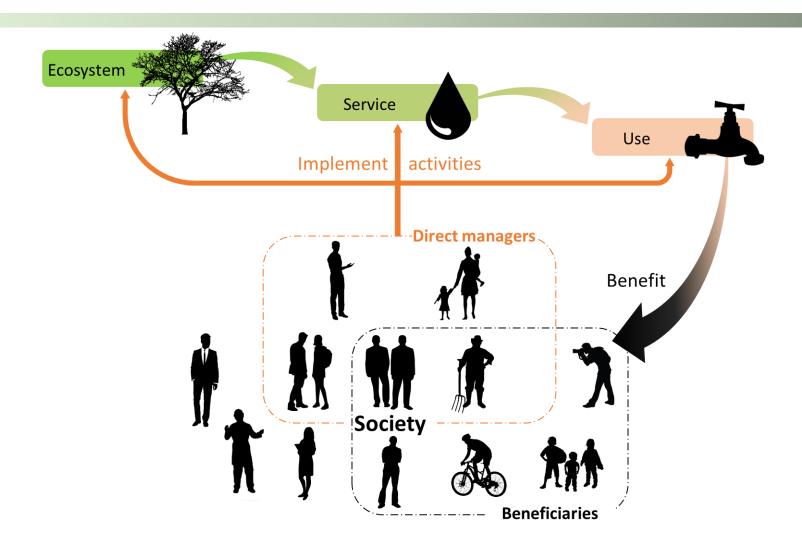
Questions and objectives

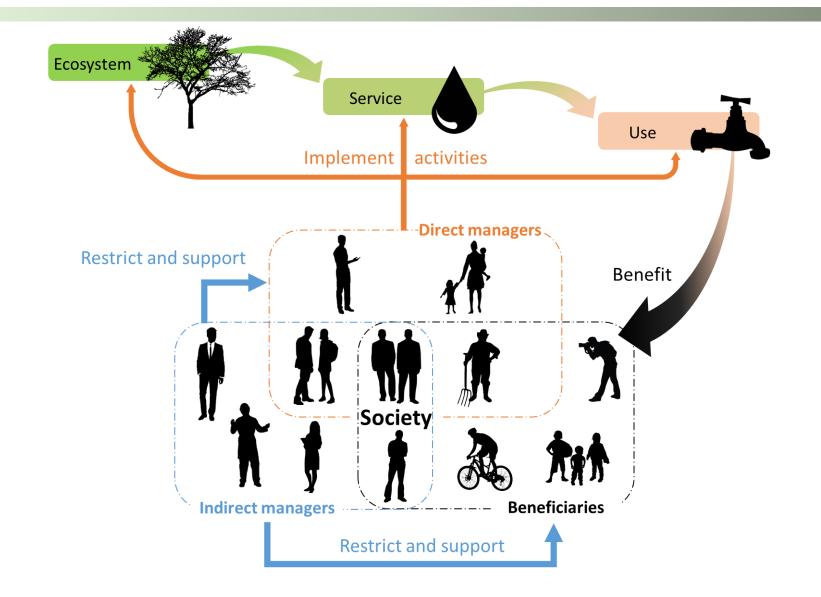
- Who participates in ES management? How are ES managed? How are benefits distributed among stakeholders?
- Propose an analytical framework for identifying and qualifying stakeholders' roles in relation to ES flows
- Apply and test it in a real-world situation





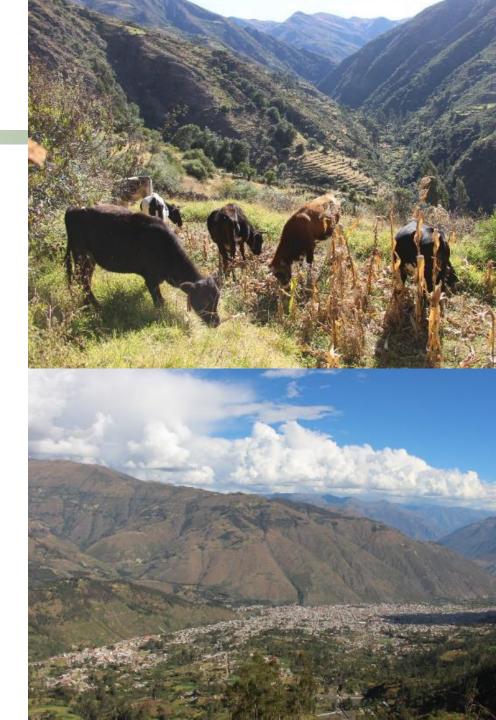






Study Site

- Andean watershed (Mariño), Peru
- 284 km²
- Agroforest mosaics
- Presence of a protected area (Ampay Sanctuary)
- Environmental conflicts (water scarcity, urbanization boom, mining activities)



Workshops

- Selection of ecosystem services
- Identification of stakeholders



Workshops

- Selection of ecosystem services
- Identification of stakeholders



















Workshops

- Selection of ecosystem services
- Identification of stakeholders





















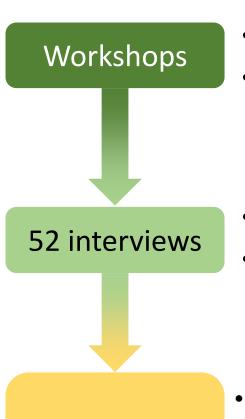


- Selection of ecosystem services
- Identification of stakeholders



- What are the services you benefit from?
- What are the services you manage? How?





- Selection of ecosystem services
- Identification of stakeholders

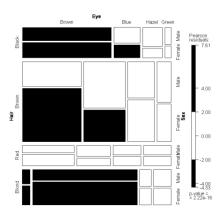


- What are the services you benefit from?
- What are the services you manage? How?

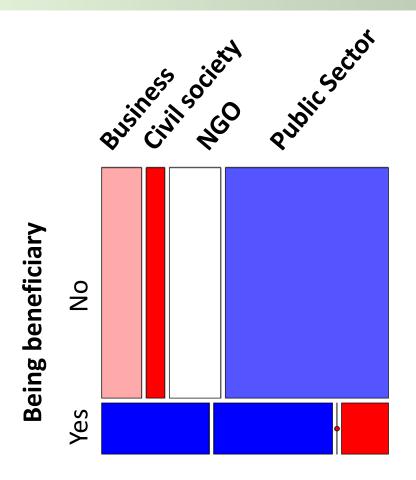


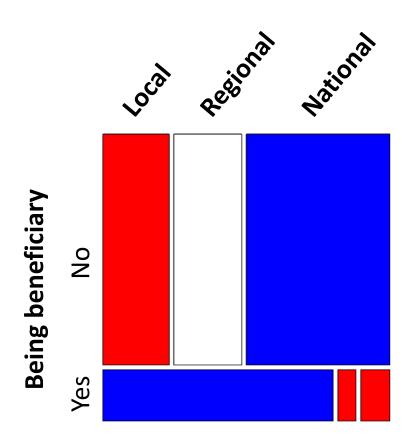
Analysis

- Qualitative description
- Retranscription and coding
- Statistical analyses

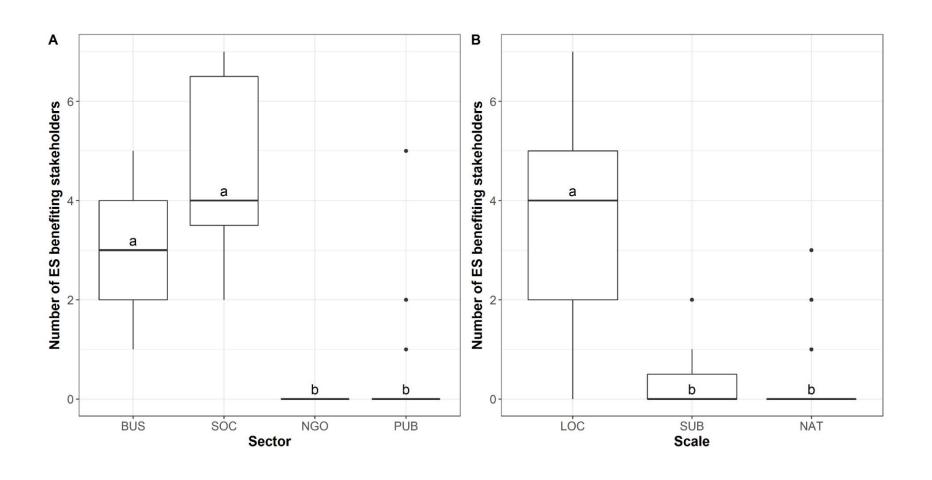


Who benefits from ecosystem services?

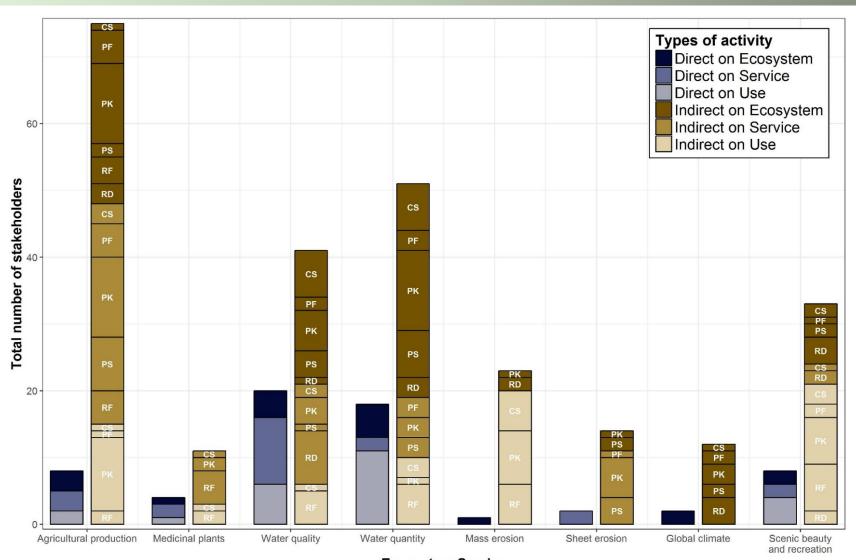




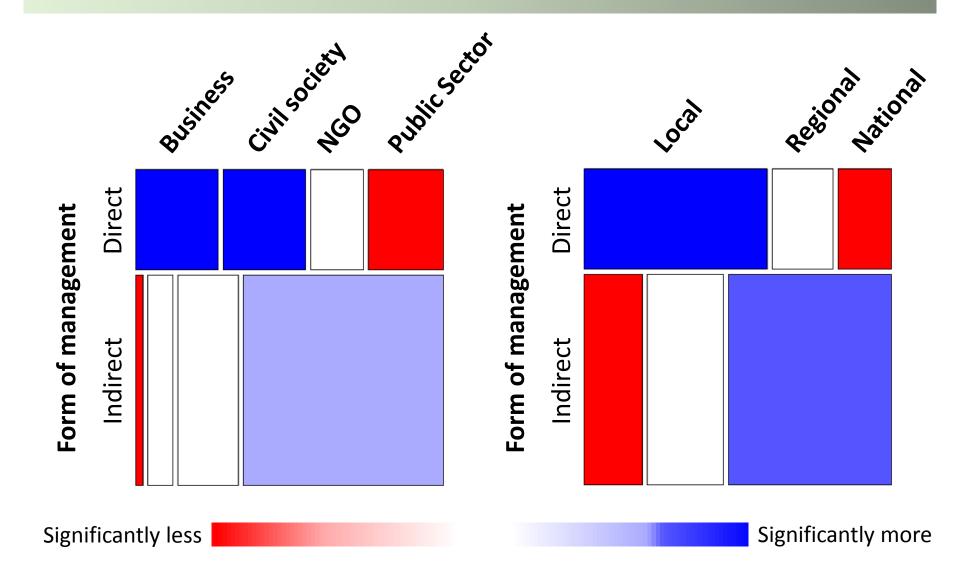
Stakeholders benefited from different numbers of ES



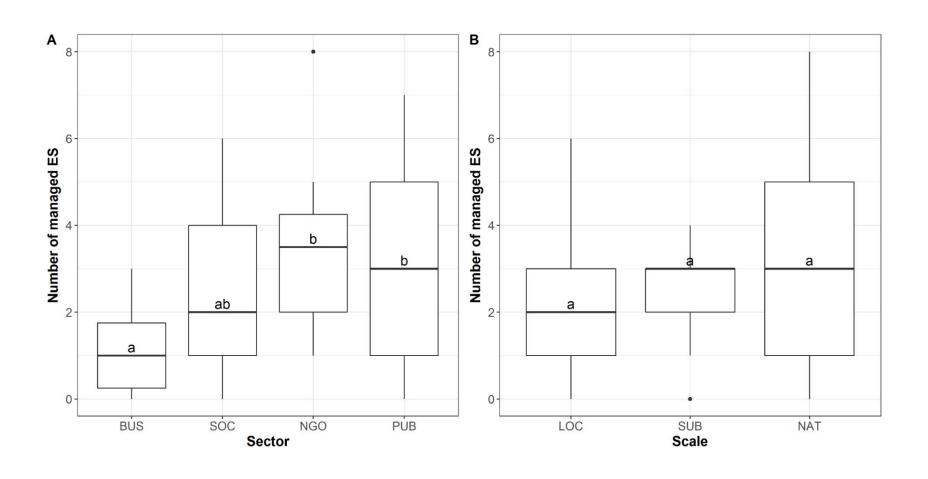
How are ES managed?



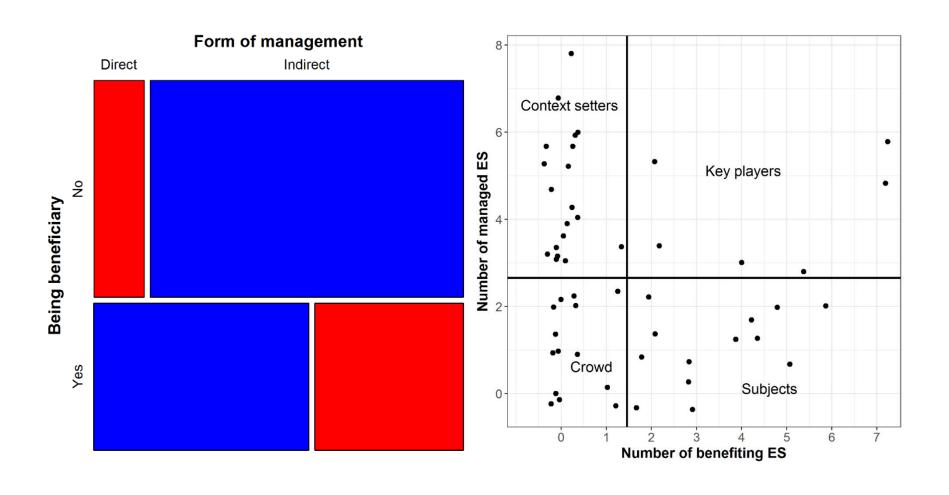
Who manages ecosystem services?



Stakeholders managed different numbers of ES



Stakeholders who benefit from ES do not necessarily participate in ES management





Conclusions

- Clear differences between those who managed ES and those who benefited from them (Alonso Roldán et al., 2015, Ernstson et al., 2008, Felipe-Lucia et al., 2015)
- Some stakeholders have the power to control directly or indirectly ES flow... And other not!
- Different from formal power
- Why does this matter?
 - Reduced adaptive capacity of the system (adaptation issue)
 - Mistrust in institutions that manage natural resources (legitimacy issue)
 - Created/enhanced conflicts (social unrest issue)

If you have questions or comments on this presentation:

ameline.vallet@agroparistech.fr



@ameline191









