

Creating conservation portfolios: identifying areas optimizing biodiversity and ecosystem services in cork oak landscapes

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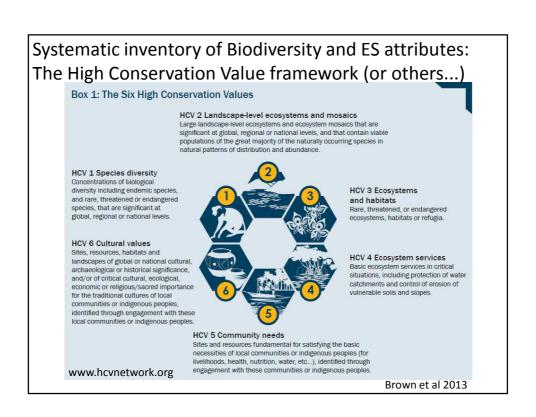
World Congress Silvopastoral Systems, Évora, 28th September 2016

Rationale

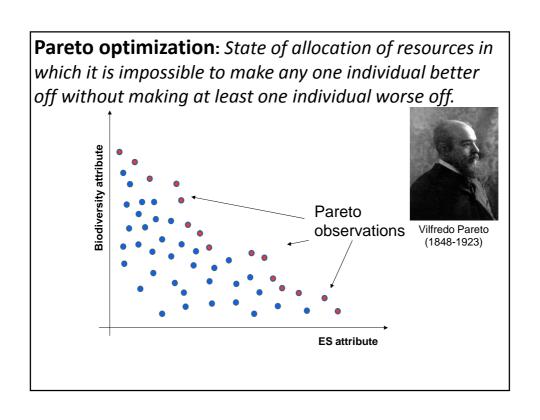
- •Sustainable Management (SM) of ecosystems (including silvopastoral) is crucial for the conservation of biodiversity;
- •Payment for Ecosystem Services (PES) may be used as a tool to incentivize SM in biodiversity x ES win-win locations.

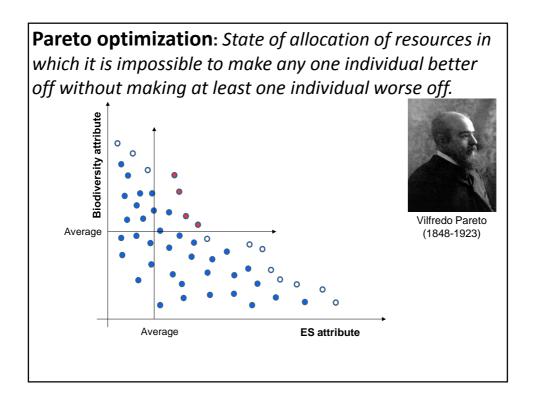
But... (some technical issues, among others...)

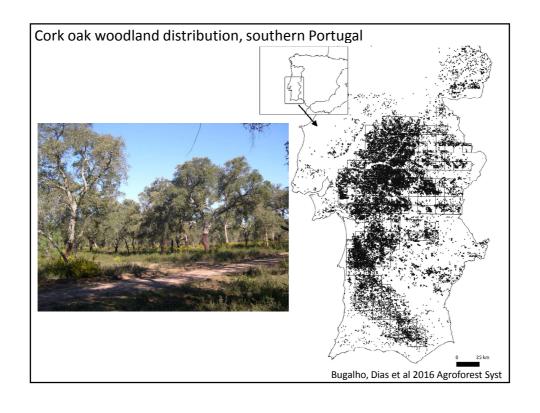
- Systematic, standardized, inventory of biodiversity and ES attributes needed;
- PES mechanisms assuring compliance with SM practices implemented;
- Matching ES providers with ES payers (donors) required;
- Dealing with multiple combinations of biodiversity and bundled ESs.

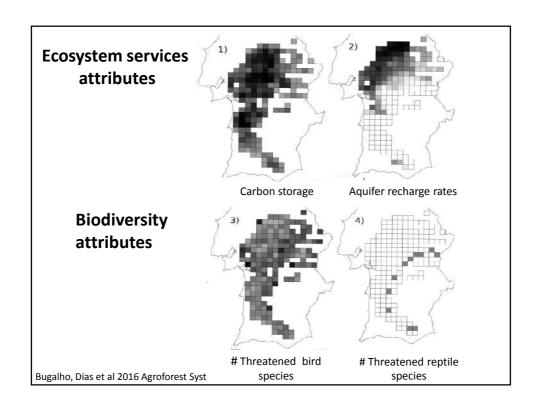


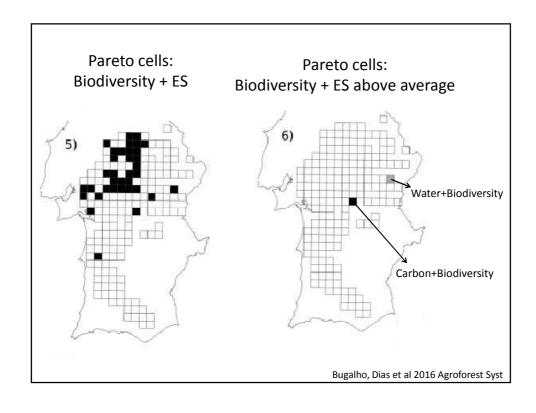
Compliance with SM practices: Certification schemes			
TABLE 1: CERTIFICA STANDARD		CATION STANDARDS SUPPORTING PRINCIPLES	
Forest Stew Forest Stew Council (FSC	Principle 9 High	Principle 3 Indigenous Peoples' Rights Principle 4 Community Relations Principle 6 Environmental values and impacts	
Roundtable Responsible (RSPO) RS Gueddin (Principle 1 Commitment to transparency Principle 2 Just land acquisition Principle 6 Responsible consideration of employees and of individuals and communities affected by growers and mills	
Bonsucro (st	UCRO" manage biodiversity and ecosystem services	Principle 1 Obey the law Principle 3 Manage input, production and processing efficiencies to enhance sustainability	
Roundtable Responsible		Principle 3 Responsible community relations Principle 5 Good agricultural practices	Brown et al 202











Take home message:

Creation of conservation portfolios (in silvopastoral or other systems) implies dealing with:

- •Multiple ecosystem services
- •Multiple biodiversity attributes
- Multiple landowners
- •Pareto optimization may be used to identify target areas