Landscape Approaches; towards more sustainable governance of rural land-use in Mediterranean (Iberia)





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Structure & Contents

- Landscape approaches: what, why, how and where?.
- Land-use changes, and related challenges, in Mediterranean Iberia.
- > Opportunities.
- Where to from here?



Landscape Approaches (LAs).....

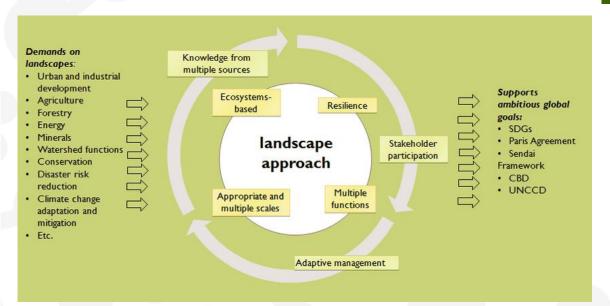
- > aim to foster sustainable strategies that reconcile agriculture, nature conservation and competing land-uses,
- have been advocated as strategic tools for devising and implementing novel governance strategies for rural regions.
- testing and operationalization of LAs is however still scarce across the Mediterranean macro-regional context,
- This is despite the region being a hotspot for the SDGs and 2030 agenda of the UN, which condenses the majority of the challenges for which the Landscape Approach is directly relevant.



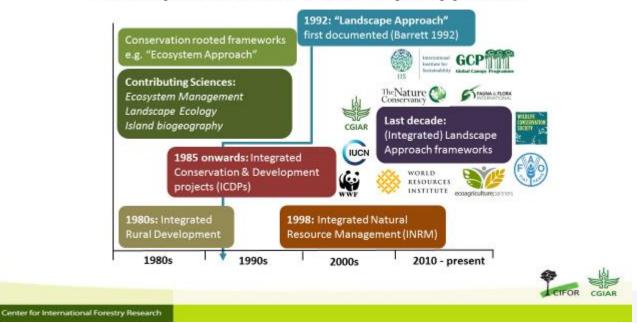
Conciling land-use conflicts (food production vs biodiversity vs landscape/culture vs climate vs economic development).

Multi-functionality.

- Acknowledge multiple forms of knowledge.
- Acting across scales (space & time).
- Adaptive Management (Resilience).
- Knowledge co-construction.
- Bottom-up + Top-Down.

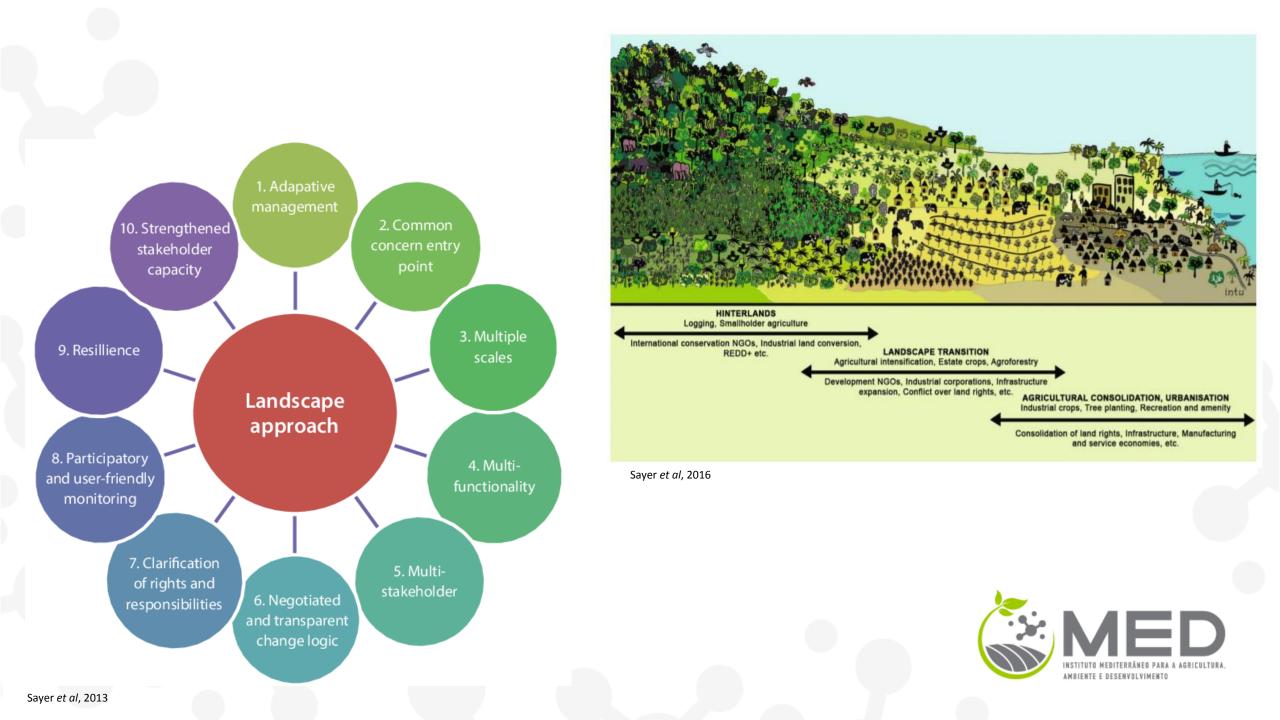


Development of the "Landscape Approach"

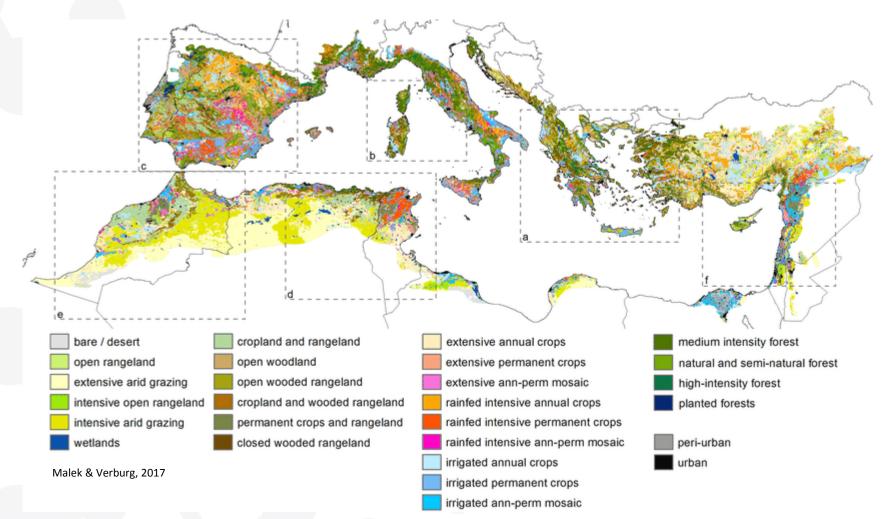


https://blog.worldagroforestry.org/index.php/2015/09/10/approach-a-landscape-from-the-ground-or-lose-your-way-in-words/





Land-Use Change in Mediterranean (Iberia)



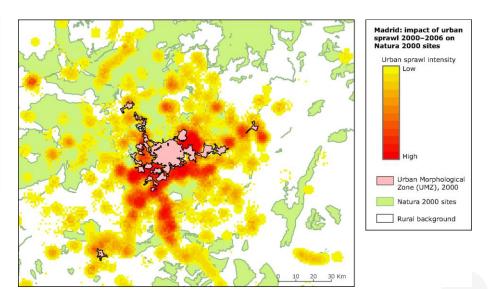


A. Urban Sprawl

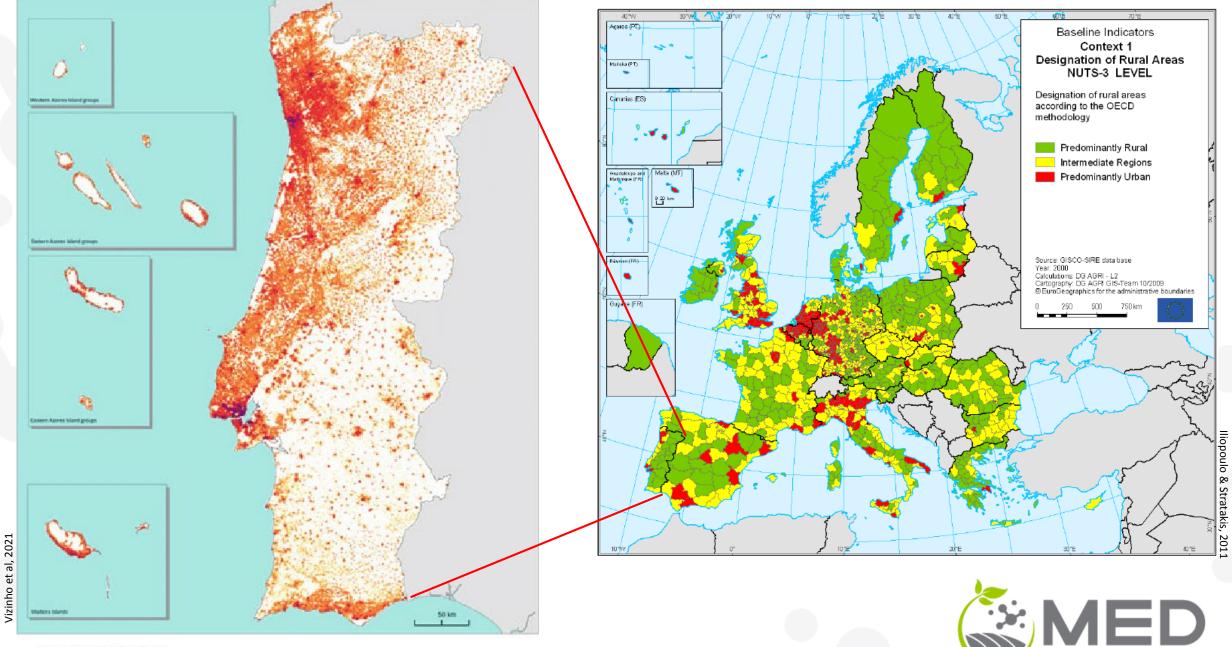


https://www.eea.europa.eu/data-and-maps/figures/polarised-urban-sprawl-around-major-cities-and-the-coast-of-portugal-and-spain-1990-2000









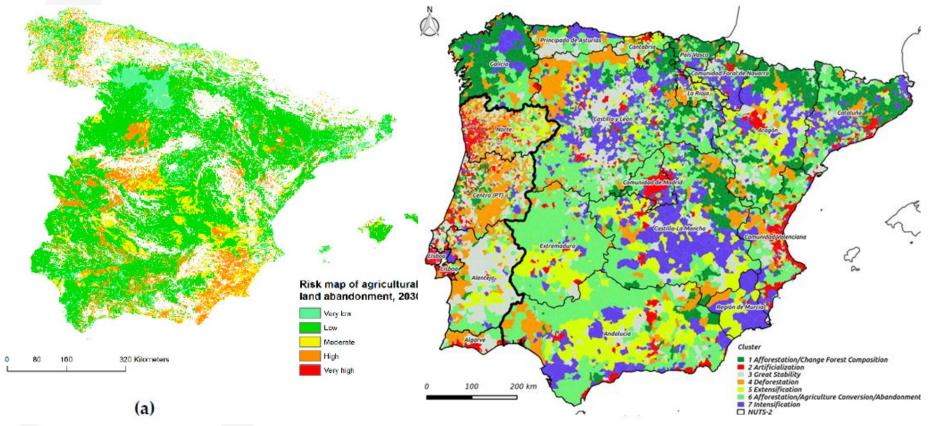
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AMBIENTE E DESENVOLVIMENTO

Population per grid cell (N°)

0 - 1 - 4 = 5 - 19 = 20 - 199 = 200 - 499 = 500 - 5000 = > 5000

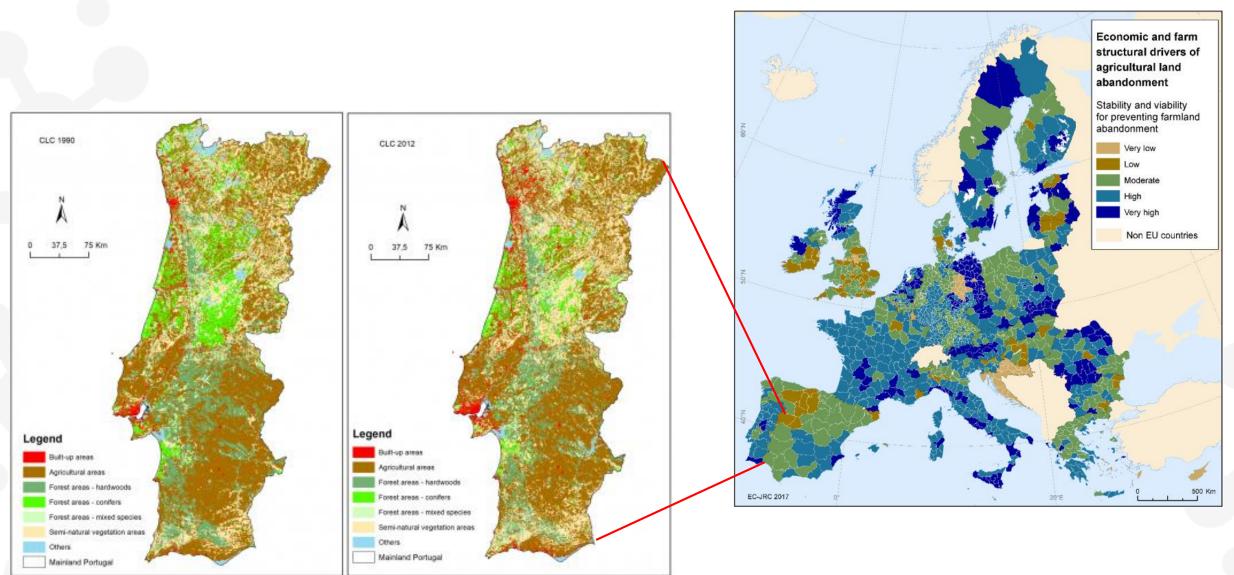
B. Land Abandonment





Fernández-Nogueira & Corbelle-Rico, 2018





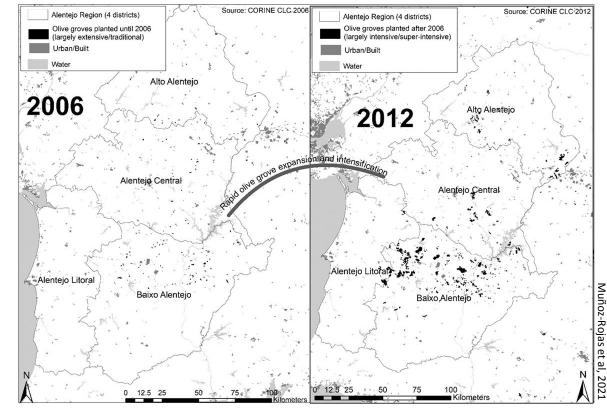
Bento-Gonçalves et al, 2018



C. Agricultural Intensification

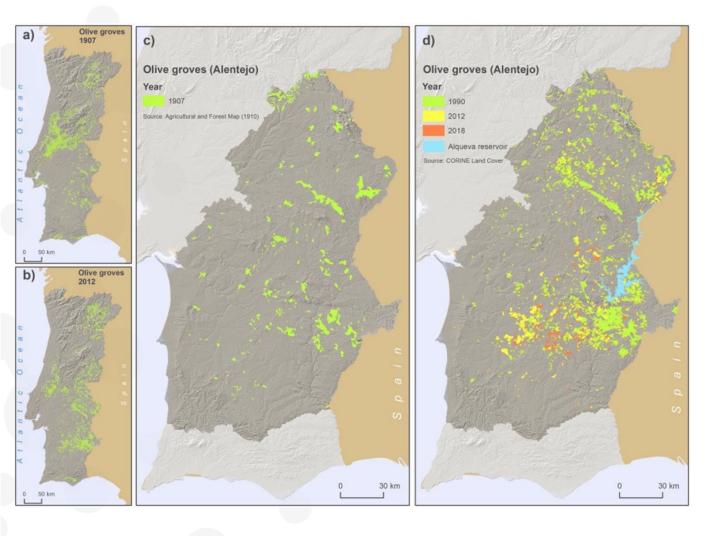


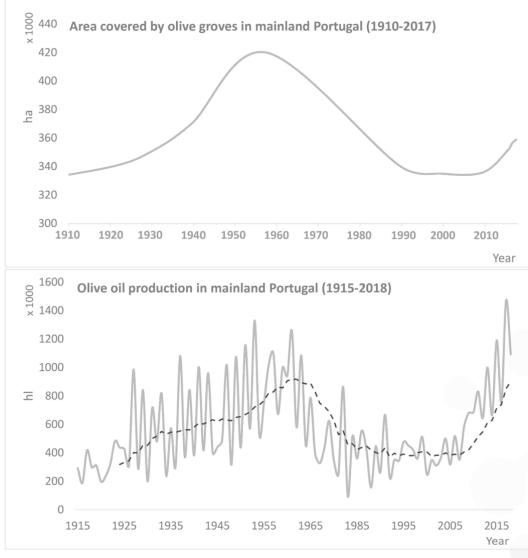




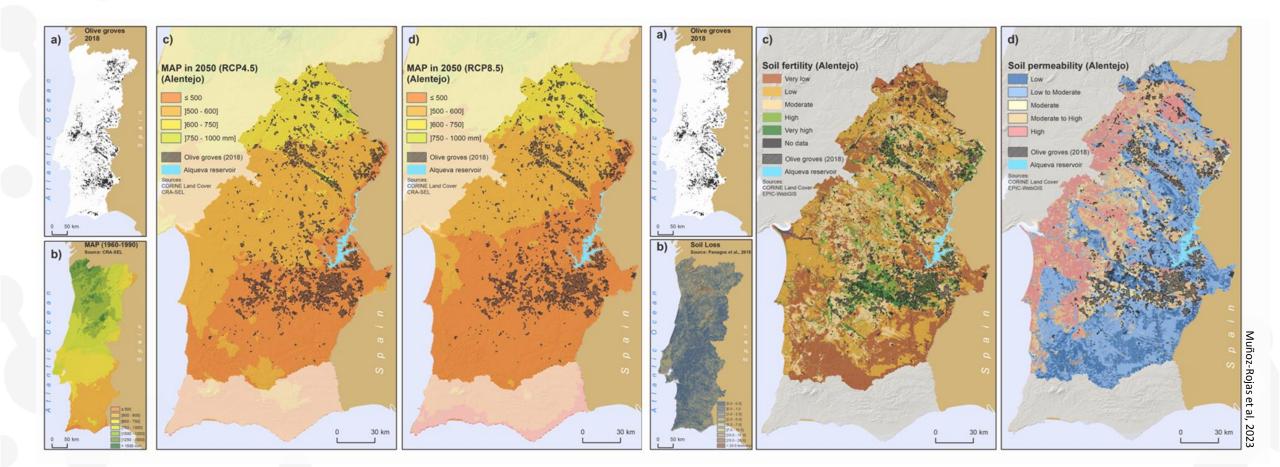






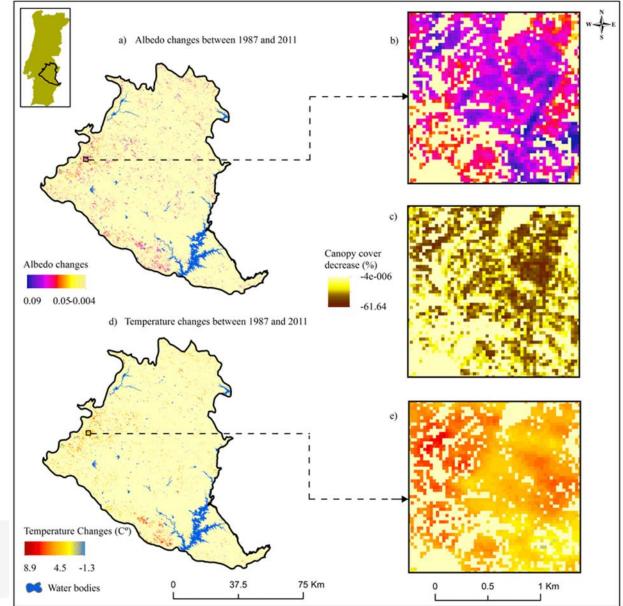








D. Land Degradation.

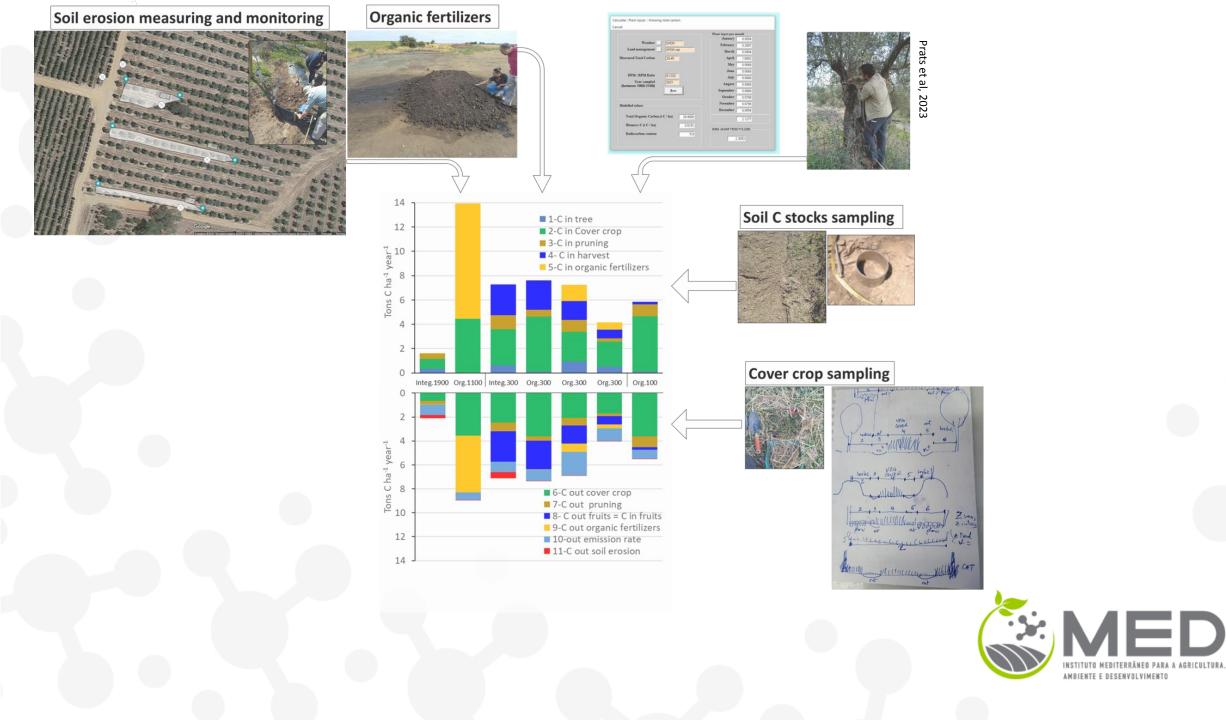


Godinho et al (2015)

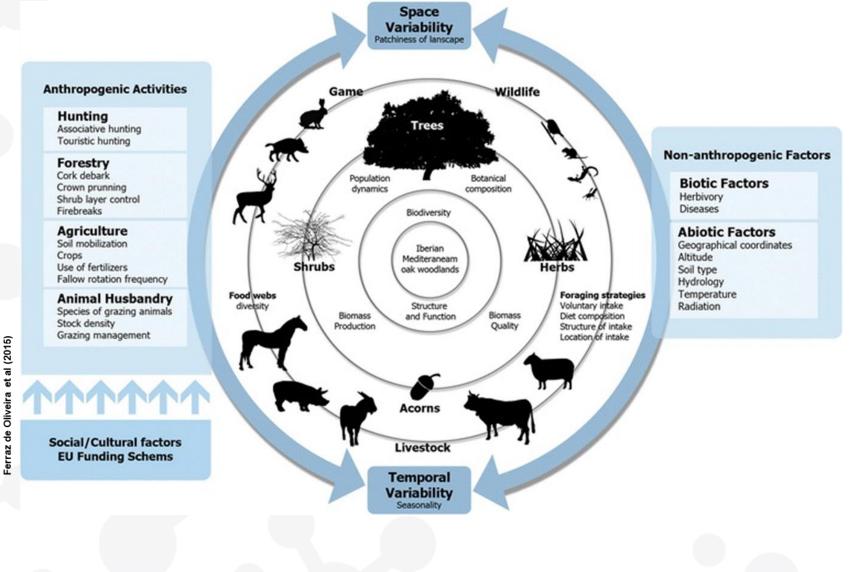




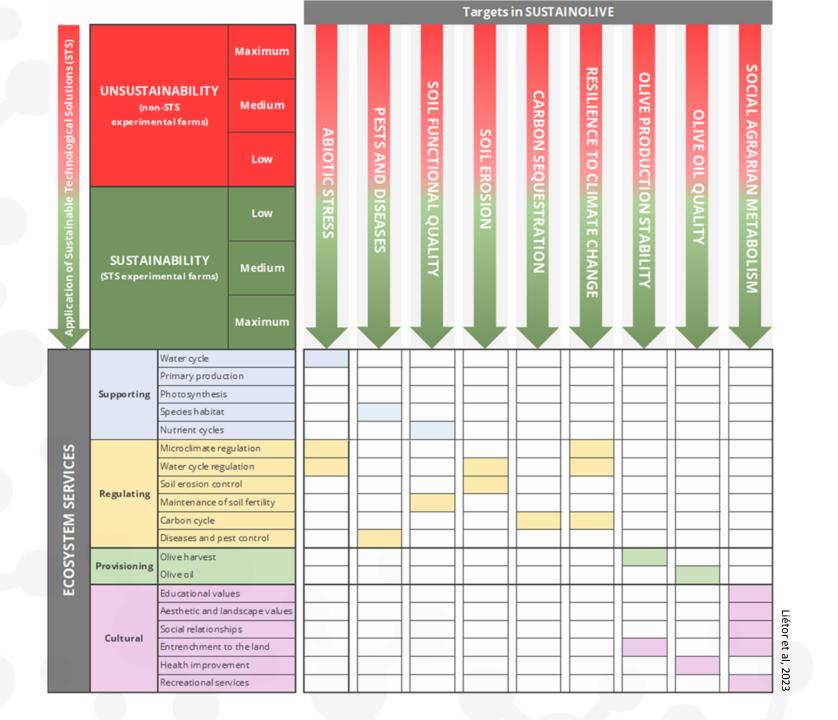




F. Landscape and Biodiversity Decline.

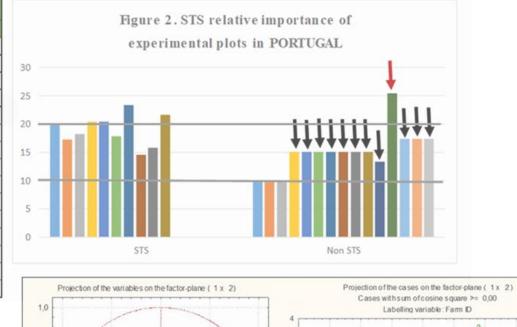


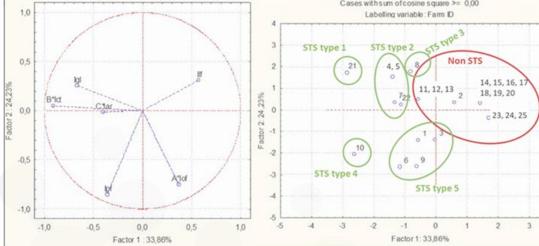
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POR	PORTUGAL				
STS	Non STS				
20,2	10				
17,2	10				
18,2	10				
20,4	15				
20,4	15				
17,8	15				
23,4	15				
14,6	15				
15,8	15				
21,6	15				
	13,4				
	25,4				
	17,4				
	17,4				
	17,4				











Opportunities

Key land-use trends in Mediterranean Iberia/ Key land-use trends in Mediterranean Iberia	Urban sprawl	Land Abandonment	Agricultural Intensification	Desertification and Land Degradation	Landscape & Biodiversity Decline
1: Continual learning and adaptive co- management.	x	x		x	x
2: Common concern entry point.	x	х		x	x
3: Multiple scales.			х	х	х
4: Multifunctionality.	x		x	x	x
5: Multiple stakeholders.	х	х	х	x	х
6: Negotiated and transparent change logic.	Х	х	х	X	x
7: Clarification of rights and responsibilities.	х	х	х	x	x
8: Participatory and user-friendly monitoring.		x		x	x
9: Resilience.	Х	х	х	X	Х
10: Strengthened stakeholder capacity.	x	x	x	x	x



Barriers Challenges

- Cultural barriers towards innovation, cooperation and mutual trust may prove especially tough to overcome,
- Land property structures and related inequalities do not facilitate the implementation of negotiated and transparent negotiation mechanisms for the resolution of land-use related conflicts,
- Administrative procedures are largely inflexible, hampering implementation of LAs and related principles



Despite all the aforementioned barriers challenges, multiple opportunities are also in place that relate to the increasing acknolwedgement by farmers, local actors and policy makers about the need to move towards enhanced sustainability standards and practices.



Open for discussion (short)

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Obrigada pela vossa atenção <u>www.med.uevora.pt</u>

