



LIFE Montado-Adapt project An example of adaptation solutions at farm level in the domain of permanent crops

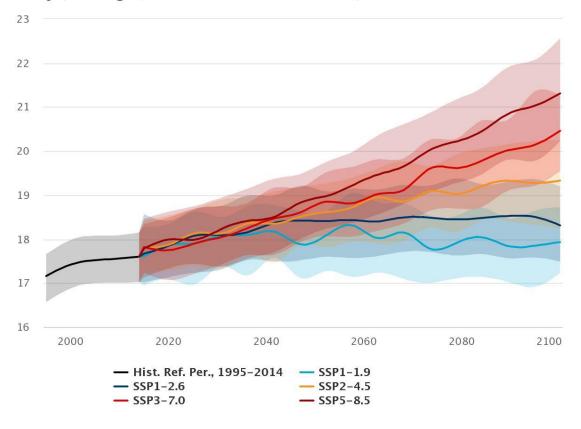
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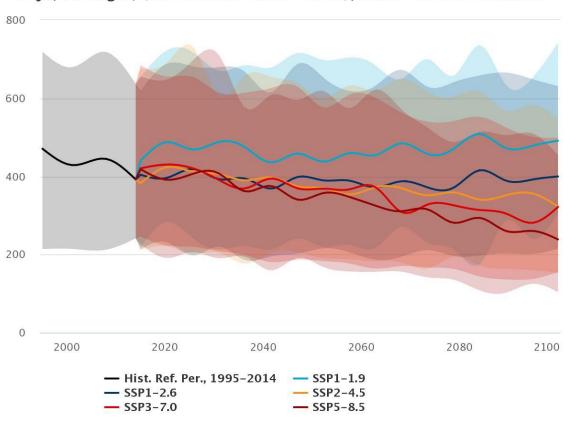


Climate change

Projected Mean-Temperature Beja, Portugal; (Ref. Period: 1995-2014), Multi-Model Ensemble

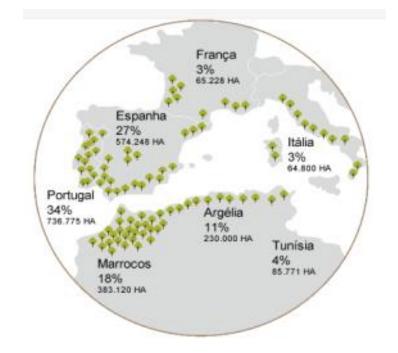


Projected Precipitation
Beja, Portugal; (Ref. Period: 1995–2014), Multi-Model Ensemble



Montado/Dehesa system

- It is heterogeneous set of non-timber forest production system, based on the exploration of quercus species, in combination with a nonintensive use of agricultural, livestock and/or hunting. It is classified as an agro-silvo-pastoral and multifunctional system, typical for southern and central Portugal and Spain.
- Conservation habitats "Dehesas with evergreen Quercus spp" (6310)







Effects of CC on Montado/Dehesa system



>50% Dense Montado

1990 - 2006 ~90.000 ha loss

Reduction > 5500 ha/year

Estimated reduction ~9000 ha/year



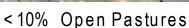
20-50% Open Montado



10-20% Clear Montado







Causes

Land use change (replacement by intensive permanent crops), abandonment or intensification and unsustainable agricultural practices.

Climate change effects

Increased tree decline and mortality; Decreased productivity and quality of pastures; Reduction of animal production; Decrease of available water; Soil degradation and Decrease of profitability.





LIFE Montado-Adapt

LIFE MONTADO -ADAPT

- 17 partners (multi-actor approach;
 - 2 countries; 3 regions)
- Goal: promote the climate change adaptation of the Montado/Dehesa by increasing the sustainability at an economic, social and environmental level.



















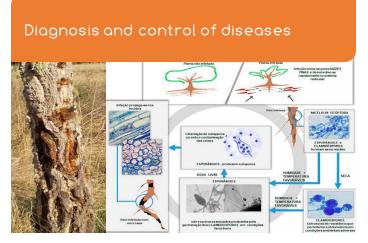


- Protection of natural regeneration (4)
- Plantation or seeding (7)
- Diversification (1)
- Promotion of auxiliary fauna(2)
- Promote tree vitality (2)











- Improving the productivity and quality of pastures (3)
- Diversifying the sources of livestock feed (1)
- Improving animal welfare (2)
- Increase livestock self-sufficiency (1)









Water retention in the landscape (3)



Improving water quality (2)

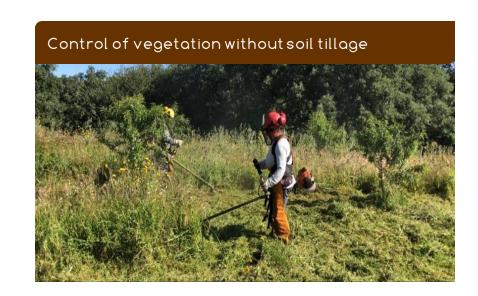








- Increasing soil moisture, biodiversity and fertility (5)
- Reduce soil compaction and erosion(3)







Conclusions

- The climate change adaptation have challenges at legal, procedural, financial, technical and market-based level.
- The success of adaptation depends on an effective governance model with all actors of the sector.
- An agriculture Knowledge and Innovation Systems strong is mandatory.
- It is essential to eliminate contradictions and create synergies between policies and support.







Thank you!

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EU CAP Network workshop 'Enhancing food security under changing weather patterns: farm adaptation'

14-15 March 2023 Bologna, Italy

All information on the workshop is available on the **EU CAP Network website**

On the event webpage: https://eu-cap-network.ec.europa.eu/events/eu-cap-network-workshop-enhancing-food-security-under-changing-weather-patterns-farm en