CONTEXT PROFILE





FARMER

Pedro Atalaya - Monte do Tojal



MAIN DOMAIN OF THE INNOVATION Animal management



AGROCLIMATIC AREA Mediterranean south



CLIMATE Little rainfall



INNOVATION Desilting the dam



SOIL TYPE Loam

6

MANAGEMENT Pasture beef



TECHNICAL











FINANCE/INVESTMENT Low

MARKET Local-rural

SOCIAL Full-time farmer



CONTEXT PROFILE PORTUGAL

Case Study: PT_08	Agroclimatic Zone								
Item (Key Innovation Elements)	Alpine	Atlantic Central	Atlantic North	Atlantic South	Boreal	Continental North	Continental South	Mediterranean North	Mediterranean South
30-hectare irrigated plot (but with the reservoir entirely depending on rainfall) in a context of rainfed dryland agriculture	+	+	+	+	+	+	+	+	+
Conservation agriculture practices (on the irrigated plot)	+++	+++	+++	+++	+++	+++	+++	+++	+++
Ccombine conservation agriculture with grazing cows adapted to low yields due to high rainfall variability	++	++	++	++	++	++	++	++	++
Availability of potential clients and (online) marketing to include tourism events/elements into the farm activities	+	+	+	+	+	+	+	+	+
Availability of potential clients, specific channels of communication and farm characteristics to include hunting components into the farm activities	+	+	+	+	+	+	+	+	+



+++ Strong transferability ++ Slightly limited transferability ++ Very limited transferability

Generic information/not relevant



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Implementation Gaps

- System appliable only to a very large farm (1,700 ha in this case)
- Hunting activity is hard to be replicated if the farm characteristics.
- High running costs to rent 1,200 ha

Research Gaps

- Ways to efficiently combine conservation agriculture with grazing cows to maintain the Montado and grassland areas, mitigate the drought and reduce the work labour and costs associated with animal production. The dam need to be desilted to increase the water holding capacity)
- Relationship between rainfall and conservation agriculture

also)



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Suggestions to Adapt

• Extend the market from local-regional to national for premium prices (quality label

COST-BENEFIT ANALYSIS

INVESTMENT COSTS

Total initial investment costs at start up:

- Initial authorisation costs (e.g. sanitary, veterinary, etc.)
- Initial advisory costs
- Initial buildings and machineries
- Initial certification costs
- Initial working capital (personal qualification, marketing and promotion, etc.)

ON-GOING COSTS

On-going advisory costs	low
On-going certification costs	low
On-going buildings and machinery costs	high
On-going working capital	high

BENEFITS RELATIVE TO ORIGINAL SYSTEM

• Economic

Reduction in energy consumption (electricity; fuel consumption)

Reduction in input use (fertilizers; pesticides; feed) etc.

Payback period

Product value added

Additional farm income through agroecological/agri-environmental payment schemes

• Environmental

Animal feed self-sufficiency increase

Biodiversity increase

Improved nitrogen cycling

Soil regeneration

Animal health and welfare improvement

• Social

Workload reduction

Engagement of young generation



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Literature

French

• <u>https://www.web-agri.fr/genetique/article/222131/croiser-pour-adapter-son-troupeau-laitier-a-son-systeme-d-exploitation</u>

English

- <u>https://www.encyclopediapratensis.eu/product/inno4grass/technical-leaflet/cross-breeding-and-grazing-management/</u>
- <u>https://www.sciencedirect.com/science/article/pii/S1751731114000901</u>

