CONTEXT PROFILE

PORTUGAL

FARMER
Luís Mendes – Herdade da Defesa da Pedra Alçada

INNOVATION
Forest management plan

Video

MAIN DOMAIN OF THE INNOVATION
Improvement of grassland management

SOIL TYPE
Loam

FINANCE/INVESTMENT
Mid

AGROCLIMATIC AREA
Mediterranean south

MANAGEMENT
Pasture beef

MARKET
Local-rural

CLIMATE
Little rainfall

TECHNICAL
Easy

SOCIAL
Part-time farmer

All contents of this document are expert opinions of the G4AE Scientific Technical Working Group

CONTEXT PROFILE

PORTUGAL

Case Study: PT_04	Agroclimatic Zone								
Item (Key Innovation Elements)	**Alpine**	**Atlantic Central**	**Atlantic North**	**Atlantic South**	**Boreal**	**Continental North**	**Continental South**	**Mediterranean North**	**Mediterranean South**
Reduced paddock/field sizes for better management (30 ha/padock)	++	++	++	++	+	++	+++	+++	+++
Sire breed	++	++	++	++	+	++	++	++	++
Forestry management plan	++	++	++	++	+	++	++	++	++
Sheep to manage vegetation in olive groves	X	X	X	X	+	X	X	++	++
Agro-forestry – montado	+++	++	+++	+++	+	+++	+++	++	++

+++ Strong transferability **++ Slightly limited transferability** **+ Very limited transferability** **X Generic information/not relevant**

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Implementation Gaps

- How did reduced sheep and cattle numbers affect profit
- Were the cork trees sown or already on the farm
- What is the benefit of the forest management plan
- What grasses were sown
- What are the benefits of the smaller paddock size

Research Gaps

- Best types of grasses to sow
- Optimum forest management plan

Suggestions to Adapt

- Demonstration
- Identification of markets

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COST-BENEFIT ANALYSIS

INVESTMENT COSTS

Total initial investment costs at start up:	low
• Initial authorisation costs (e.g. sanitary, veterinary, etc.)	not applicable/not known
• Initial advisory costs	mid
• Initial buildings and machineries	not applicable/not known
• Initial certification costs	not applicable/not known
• Initial working capital (personal qualification, marketing and promotion, etc.)	not applicable/not known

ON-GOING COSTS

On-going advisory costs	not applicable/not known
On-going certification costs	not applicable/not known
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)	high
Reduction in input use (fertilizers; pesticides; feed) etc.	mid
Payback period	high
Product value added	none or low
Additional farm income through agroecological/agri-environmental payment schemes	not applicable/not known

- **Environmental**

Animal feed self-sufficiency increase	none or low
Biodiversity increase	none or low
Improved nitrogen cycling	none or low
Soil regeneration	none or low
Animal health and welfare improvement	none or low

- **Social**

Workload reduction	none or low
Engagement of young generation	none or low

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Literature

English

- Almeida, M., Azeda, C., Guiomar, N. *et al.* The effects of grazing management in *montado* fragmentation and heterogeneity. *Agroforest Syst* 90, 69–85 (2016). https://doi.org/10.1007/s10457-014-9778-2
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