



Nature for Nature –Estancia Sheep Farm

Corporate Project Management I
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Introduction

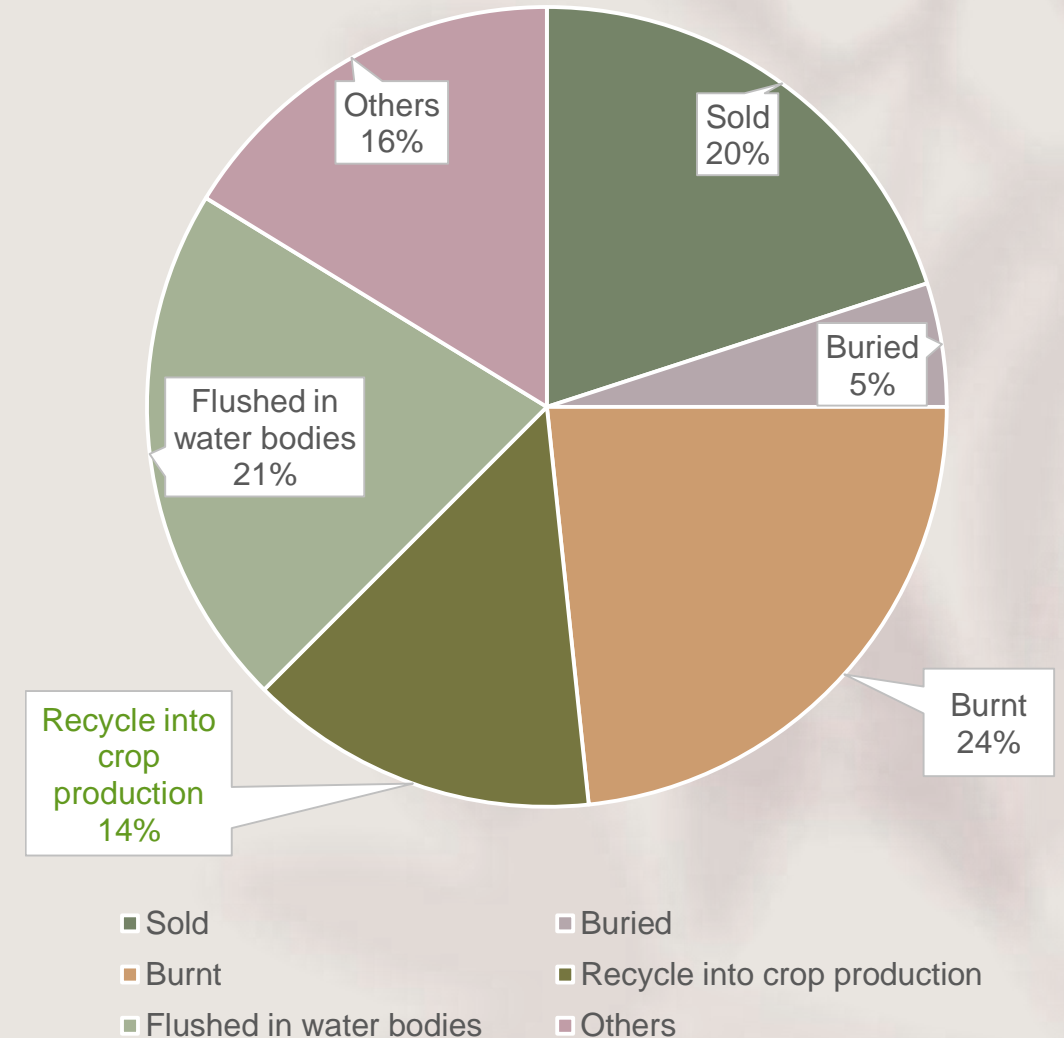
- Sheep meat, wool & milk production are some of the important farm enterprise in Europe.
- Sheep constitute a source of capital for financing purposes.
- Since year 2000, “the number of sheep meat and milk producers has declined in the EU by 50%”.
- 13% decline in the Sheep farming in last few years in Germany.



Problem Statement

- Low prices for their products, and competition from abroad.
- The sustainability in Sheep farming in the European Union is a major issue.
- Challenges related to sustainable waste management.

Manure Management



Objectives



INCREASE
PROFITABILITY AND
SUSTAINABILITY



COMMERCIALIZATION
OF SHEEP WASTE



EFFECTIVE WASTE
MANAGEMENT PLAN

The Brown Gold concept

- Sustainable manure management will directly benefit the environment & society.
- Instead of viewing manure as a waste, we can begin to view it as a product that can be
 - substituted for commercial fertilizer
 - an economic resource.



Source: <https://www.amazon.in/ecofynd-Vermicompost-Fertilizer-Nutrient-Gardening/dp/B085BKZZ5P> , accessed on 15/02/2021 at 19:52.

<http://soiltest.uconn.edu/documents/foodsafetycompostfactsheet6-14.pdf> accessed on 15/02/2021 at 20:06.

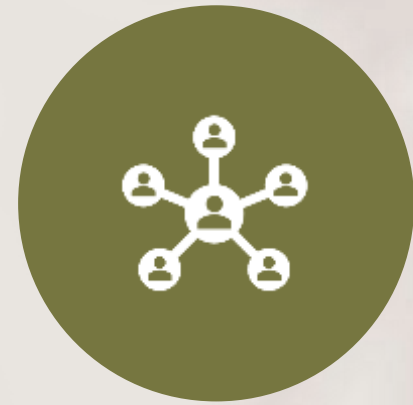
Benefits of sustainable manure management



ENVIRONMENT

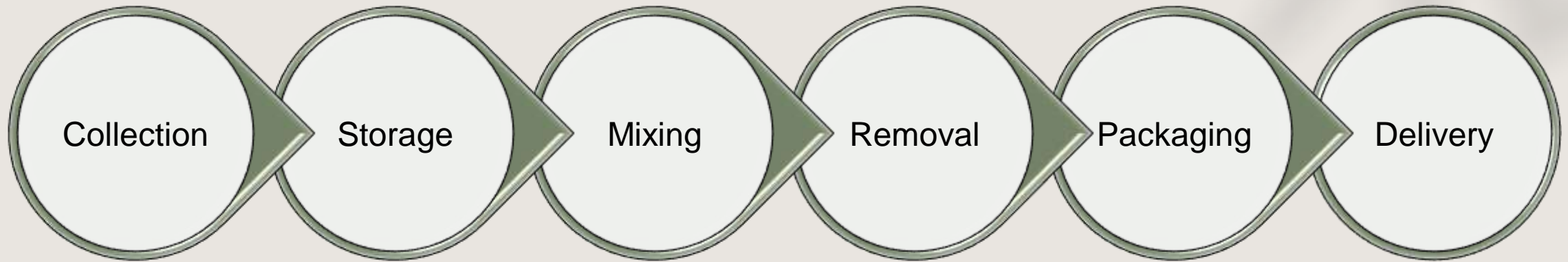


ECONOMY

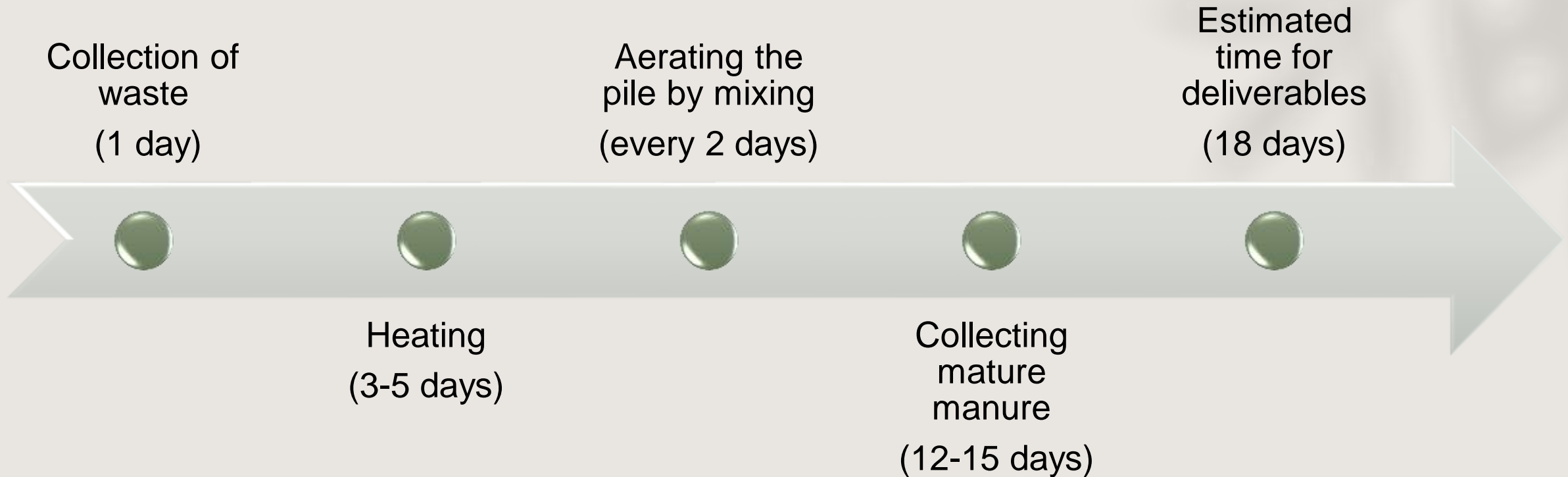


SOCIAL

How to Implement: Composted manure



Estimated Timeline



Feasibility

- The total amount of compost we can have with Estancia's sheep capacity considering 600 Sheep.
- The average mature sheep produces 1360 kg of manure (leaves, grass clippings, animal manure) annually.
- Around 4000 bags of 5 kgs of compost monthly.
- Other possibility, black wool: fertilizer pellets.

Resources required



Initial investment:
<€500, basically zero
since you're using waste



Turnaround time: 1-6
months



Area required:
approximately 1 acre



Daily time required:
approximately 1 hour



Profit potential: € - € € €

Market Groups

LOCAL FARMERS



HOME GARDENERS



BIO-GAS PLANTS



Source: http://est.scribd.com/article_6188.html?lang=en, accessed on 11/02/2021, at 20:30.
<https://www.sunwindenergy.com/bioenergy/1-mw-biogas-plant-Australia>, accessed on 16/02/2021 at 22:00.

Achinas, Spyridon, Yu Li, Vasileios Achinas, and Gerrit Jan Willem Euverink. "Influence of sheep manure addition on biogas potential and methanogenic communities during cow dung digestion under mesophilic conditions." Sustainable Environment Research 28, no. 5 (2018): 240-246.
accessed on 16.02.2021 at 23:54

Conclusion

- Instead of viewing manure as a waste, producers can begin to view it as a product that can be substituted for commercial fertilizer and as an economic resource.
- Composting is an effective manure management tool that reduces volume, kills pathogens and weed seeds, and also improves soil health and fertility.
- A great opportunity for Estancia to enter a new market via this nature friendly project.