CONTEXT PROFILE

ROMANIA

FARMER
Răzvan Raduca- family farm

INNOVATION
Fenced grazing in the Romanian Carpathians

Video

MAIN DOMAIN OF THE INNOVATION
Workload reduction

AGROCLIMATIC AREA
Alpine

CLIMATE
Moderate rainfall

SOIL TYPE
Clay

MANAGEMENT
Pasture beef

TECHNICAL
Easy

FINANCE/INVESTMENT
Low

MARKET
Global

SOCIAL
Part-time farmer

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

CONTEXT PROFILE

ROMANIA

Case Study: RO_02	Agroclimatic Zone								
Item (Key Innovation Elements)	**Alpine**	**Atlantic Central**	**Atlantic North**	**Atlantic South**	**Boreal**	**Continental North**	**Continental South**	**Mediterranean North**	**Mediterranean South**
Concrete steel poles	+++	+++	+++	+++	+++	+++	+++	+++	+++
Insulators	+++	+++	+++	+++	+++	+++	+++	+++	+++
Electric fence wire	+++	+++	+++	+++	+++	+++	+++	+++	+++
Power for fence	+++	+++	+++	+++	+++	+++	+++	+++	+++
Rotational grazing	+++	+++	+++	+++	+++	+++	+++	+++	+++
Temporary fences	+++	+++	+++	+++	+++	+++	+++	+++	+++

+++ **Strong transferability**

++ **Slightly limited transferability**

\+ **Very limited transferability**

× **Generic information/not relevant**

Funded by the European Union

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Commission . Neither the European Union nor the European Commission can be held responsible for them.

Implementation Gaps

- Need time to prepare the poles;
- Need to be able to weld;
- Transportation suitable for specific terrain in different agroclimatic zones to place the poles. Walking is going to be too much effort in many cases

Research Gaps

- Big carnivores protection;

Suggestions to Adapt

- These type of poles can be purchased from fencing suppliers; e.g. Sweden: https://www.bole.se/fjaderstalstolpe-foga-original-30-pack. E.g. Netherlands: https://www.agrishop.nl/schrikdraad/mobiele-schrikdraadpalen/metalenpalen.html. However in the Netherlands we don't really have robust poles with the possibility to add two wires.
- Solar energy power supply
- In dry, clay or loamy soils, the poles with the blunt tip maybe difficult to insert; adapting the tip of the poles may help.
- Suitable to be used with other animals adapting the height and spacing of wires: eventually, use additional commercial insulators
- Best used as line posts in combination with corner posts. In fact, there is the need for special poles in the angles of the fence to increase its strength (i.e. placed deeper in the soil? Or use of close-range poles?)

Grazing4AgroEcology
Funded by the European Union
Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Commission . Neither the European Union nor the European Commission can be held responsible for them.

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	not applicable/not known
• Initial buildings and machineries	not applicable/not known
• Initial certification costs	not applicable/not known
• Initial working capital (personal qualification, marketing and promotion, etc.)	low

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	not applicable/not known
On-going working capital	not applicable/not known

BENEFITS RELATIVE TO ORIGINAL SYSTEM

- **Economic**

Reduction in energy consumption (electricity; fuel consumption)	not applicable/not known
Reduction in input use (fertilizers; pesticides; feed) etc.	mid
Payback period	high
Product value added	not applicable/not known
Additional farm income through agroecological/agri-environmental payment schemes	not applicable/not known

- **Environmental**

Animal feed self-sufficiency increase	mid
Biodiversity increase	not applicable/not known
Improved nitrogen cycling	not applicable/not known
Soil regeneration	not applicable/not known
Animal health and welfare improvement	not applicable/not known

- **Social**

Workload reduction	mid
Engagement of young generation	mid

Grazing AgroEcology

Funded by the European Union

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Commission . Neither the European Union nor the European Commission can be held responsible for them.

Literature

English

- https://doi.org/10.2111/1551-501X-31.5.11
- https://doi.org/10.1071/CP16396

Grazing AgroEcology

Funded by the European Union

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Commission . Neither the European Union nor the European Commission can be held responsible for them.