# CONTEXT PROFILE





**FARMER** Karl-Johan Lennartson -Intakan



**INNOVATION** Alder – a challenge on semi-natural grasslands



**MAIN DOMAIN OF THE INNOVATION** Improvement of grassland management



AGROCLIMATIC AREA Atlantic central



**CLIMATE** Moderate rainfall



**SOIL TYPE** Loam



**MANAGEMENT** Pasture dairy



**TECHNICAL** Computer-based



















## **CONTEXT PROFILE** SWEDEN

Case Study: SE_11	Agroclimatic Zone								
Item (Key Innovation Elements)	Alpine	Atlantic Central	Atlantic North	Atlantic South	Boreal	Continental North	Continental South	Mediterranean North	Mediterranean South
Availability of agri-environmental schemes with adequate payments for landscape management	++	+++	+++	++	+++	++	++	++	++
Contrast of the natural decline of semi- natural grasslands due to bush encroachment by periodical clearing of bushes and trees	+++	+++	+	+++	+++	++	+++	+++	+++
Grazing management also under waterlogging conditions	++	++	+++	++	++	X	X	X	++



Generic information/not relevant



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## **Implementation Gaps**

- High dependency on financial state support schemes: abandonment as a risk when schemes reduce or cease
- Labour costs for periodically clearing the alder

## **Research Gaps**

• Cross-breed towards traits which favour grazing under waterlogging conditions and woody plant utilization

• Use breeds which efficiently control alder and other shrubs, e.g. highland cattle



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## **Suggestions to Adapt**

## **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	
On-going certification costs	
On-going buildings and machinery costs	
On-going working capital	

### **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

## English

- Spatial Distribution of Highland Cattle in Alnus viridis Encroached Subalpine Pastures: https://www.frontiersin.org/journals/ecology-and evolution/articles/10.3389/fevo.2021.626599/full
- Hessle, A., Wissman, J., Bertilsson, J., Burstedt, E. 2008. Effects of breed and season on defoliation and faecal composition in cattle grazing semi-natural grasslands. Grass & Forage Science 63, 86-93.

## French

• Composition chimique et digestibilité in vitro des feuilles d'arbre, d'arbuste et de liane des milieux tempérés en été: https://afpf-asso.fr/index.php? download=3961&token=f2300d6baf8fbe0c99fed50d8f585228



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