CONTEXT PROFILE

FRANCE

FARMER
Etienne Leretrif

INNOVATION
Three-way crossbreeding

Video

MAIN DOMAIN OF THE INNOVATION
Breeding advance

SOIL TYPE
Clay

FINANCE/INVESTMENT
Mid

AGROCLIMATIC AREA
Atlantic north

MANAGEMENT
Pasture Dairy

MARKET
Local-rural

CLIMATE
Moderate rainfall

TECHNICAL
Easy

SOCIAL
Full-time farmer

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

CONTEXT PROFILE

FRANCE

Case Study: FR_10	Agroclimatic Zone								
Item (Key Innovation Elements)	**Alpine**	**Atlantic Central**	**Atlantic North**	**Atlantic South**	**Boreal**	**Continental North**	**Continental South**	**Mediterranean North**	**Mediterranean South**
Know-how to cross-breed cows (in which order, which breeds)	+++	+++	+++	+++	+++	+++	+++	+++	++
Adequate knowledges and experience on selecting the breed suitable for grazing in the distance, for long periods, with higher milk solids and better fertility and longevity	+++	+++	+++	+++	+++	+++	+++	+++	++
Know-how to group calvings in spring	+++	+++	+++	+++	+++	+++	+++	+++	+++

+++ 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

- Time and knowledge to group all calving in Spring
- Acceptance of slightly reducing the quantity of milk production
- Self-management of the reproduction (choosing the right bull that fits the cross-breeding plan for each cow, ordering the semen, etc.)
- Use sexed semen only in order not to have cross-bred mal calves

Research Gaps

- Which breeds are better suited to do cross-breeding

Suggestions to Adapt

- Explore the possibility to include local breeds into the breeding program

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.)	not applicable/not known

ON-GOING COSTS

On-going advisory costs	low
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.	none or low
Payback period	not applicable/not known
Product value added	high
Additional farm income through agroecological/agri-environmental payment schemes	not applicable/not known

- **Environmental**

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

- **Social**

Workload reduction	mid
Engagement of young generation	not applicable/not known

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

National language

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

English

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

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.