





LIVING LAB - QUEBEC

A WONDERFUL ADVENTURE!

International Forum on Agroecosystem Living Labs, Montreal, October 6, 2023











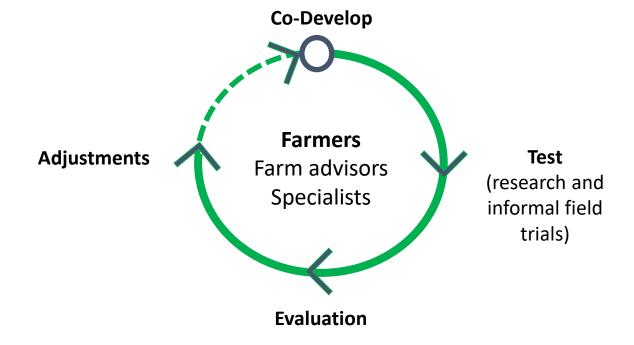






OBJECTIVES

- > Accelerate adoption of agricultural practices that:
 - Improve water quality in Lake Saint-Pierre
 - Improve soil health and biodiversity
 - Reduce greenhouse gas emissions from farms
- > Implement the following approaches:
 - Living lab to co-develop innovations
 - Research and informal field trials
 - Knowledge transfer activities



- > Be complementary to numerous initiatives already in progress, for example:
 - Research activities of the *Pôle d'expertise multidisciplinaire en gestion durable du littoral du lac Saint-Pierre (consortium of three universities)*
 - Local regional UPA federations and watershed organisation projects,
 supporting adoption of best management practices at the farm level
 - Advisory services provided by the Agri-Environmental Advisory Clubs

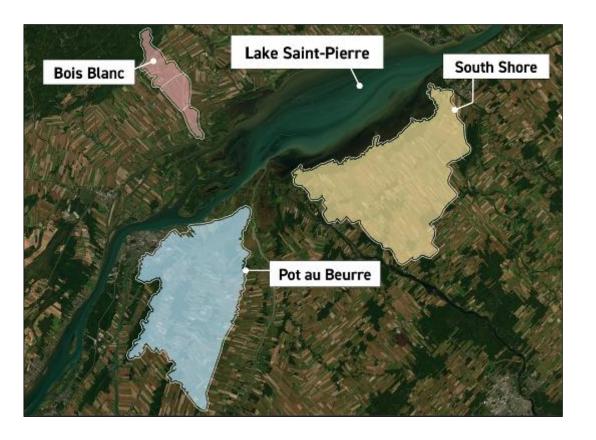






TERRITORY

- > 3 watersheds with approximately 275 farms
 - Directly upstream of or very close to Lac St. Pierre (part of the St. Lawrence River)
 - Environmental impacts of agricultural practices documented
 - Initiatives already implemented to mobilize farmers
- ➤ Main agricultural productions:
 - Animal: dairy, hogs
 - Plant: cash crops













FIELDS	W	S	В	G
Optimal fertilizer use		•		
Cover crops				
(intercropped or				
after main crop)				
Agroforestry		•		
Water table control		i		

lanting trace			
lanting trees nd shrubs	•	•	
ptimizing parian strips		•	
parian strips			

W	S	В	G
•		•	
		W S	W S B







.EGEND W 🔼 B 🕝 These letters indicate that effects were observed on the following: W water quality 🔼 soil quality 🖪 biodiversity 🥫 greenhouse gas emissions

Agriculture et Agroalimentaire Canada









Participation of more than 100 farmers



30 co-development workshops









20 research activities



18 informal field trials



Crédit : Club conseil Les Patriotes







9 information days



9 information articles









16 videos

- Research activities
- Informal field trials
- Information days



Information day: July 13 2022



Research: sedimentation pond



Informal field test: winter rye for soil cover and forage







16 videos

Including 5 videos summarizing project results for practices experimented:

- 1 For the barn
- 2 For the fields
- 3 For field edges
- 4 For watercourses
- 5 Application of the living lab approach









PROJECT STRENGTHS

- ➤ Research activities better aligned with agricultural reality, farmer interests, and needs
- ➤ Greater appreciation by farmers of the time and effort involved in conducting research and identifying significant resultats
- > Co-analysis of research results with farmers







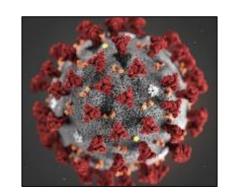






PROJECT CHALLENGES

> Team: conducting activities during the pandemic





Researchers: continuing to integrate farmers in the research process (experimental design, interpretation of results)

➤ Producers: exercising patience in receiving research resultats! ③









THE TEAM

Research coordinators for AAFC



Martin Chantigny
Quebec



Guylaine Talbot Sherbrooke



Etienne LordSaint-Jean-sur-Richelieu

Approximately 40 scientists and specialists involved in information transfer and communications



Agriculture et Agroalimentaire Canada Agriculture and Agri-Food Canada



Environnement et Changement climatique Canada Environment and Climate Change Canada



Ressources naturelles Canada Natural Resources Canada



Other présentations during the Forum (virtual posters)
Research activities resulting from co-development processes

From waste land to retention ecosystem, a successful living lab adventure. J. Lafond, AAFC.

Participatory modeling of soil carbon dynamics following the adoption of agroecological systems in Quebec, Canada. S. Delmotte, Consultant.



THE TEAM

Local watershed coordinators



Amélie St-YvesBois-Blanc
AGIR Maskinongé



Yasmina Larbi-YoucefPot au Beurre
UPA Montérégie Federation



Yann BourassaSouth Shore
UPA Centre-du-Quebec Federation







THE TEAM



Chantal FouldsCoordinator, UPA



Nathalie Roullé Coordinator, UPA



Georges ThériaultCoordinator, AAFC





Coordinator activities with

Indigenous communities,

W8banaki







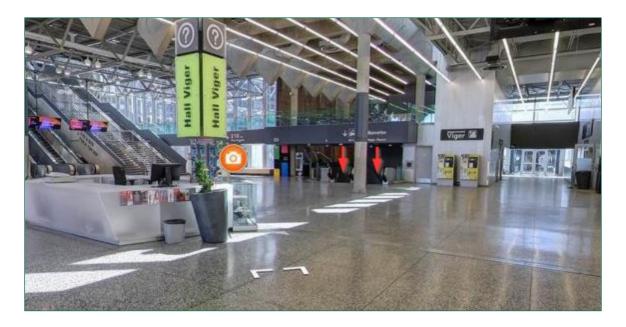


FIELD TOUR – FRIDAY OCTOBER 6 INNOVATION AND ADAPTATION BY QUEBEC FARMS IN THE CONTEXT OF CLIMATE CHANGE (Ferme Cristallina, Saint-Barthélemy) BOOKED – WAITING LIST

> UPA projects:

Living Lab – Quebec 2020-2023, Agrisolutions climat

- ➤ BUS BOARDING: starts at 12:30 pm, 1015 rue de Chenneville via avenue Viger Ouest
- BUS DEPARTURE: 1:00 pm sharp!



- > Washroom on bus and at farm
- Lunch served on bus, substantial snack served at 4:30 pm
- > Return time to Montreal: approximately 7:50 pm
 - Comme dressed for a farm visit (fields, barns), according to weather forecast
 - Not having been on a farm for 7 days













THANK YOU!

For more information visit: https://www.upa.qc.ca/en/producteur/outils-et-ressources/agroenvironnement













