

Agriculture & Nature Based Solutions

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ALUS



Where agriculture and nature meet: ALUS empowers farmers and ranchers to establish and manage nature on their land one acre at a time.

ALUS focuses on:

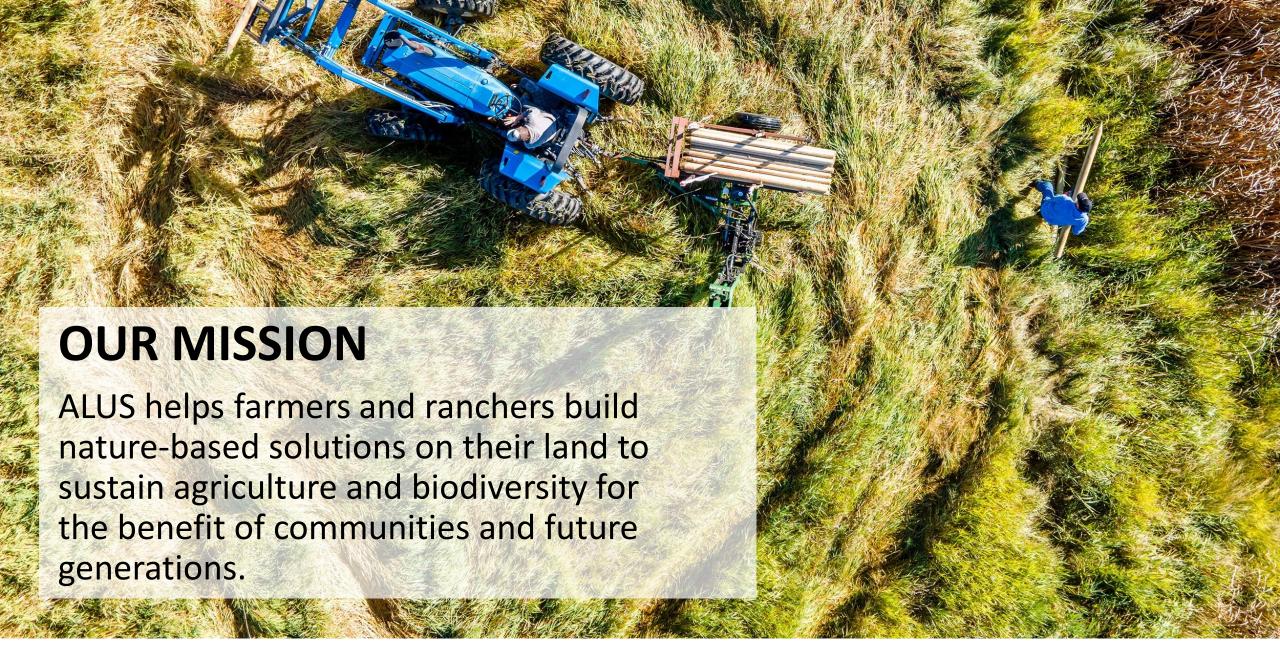
- Engaging farmers and ranchers as solution providers in conservation activities to achieve carbon sequestration, watershed and biodiversity outcomes
- > Building community-level collaborations as the basis for grassroots conservation programming
- Developing research partnerships to document and assess results to validate the outcomes of ALUS projects













ALUS moves beyond conservation to production













Harnessing the Power



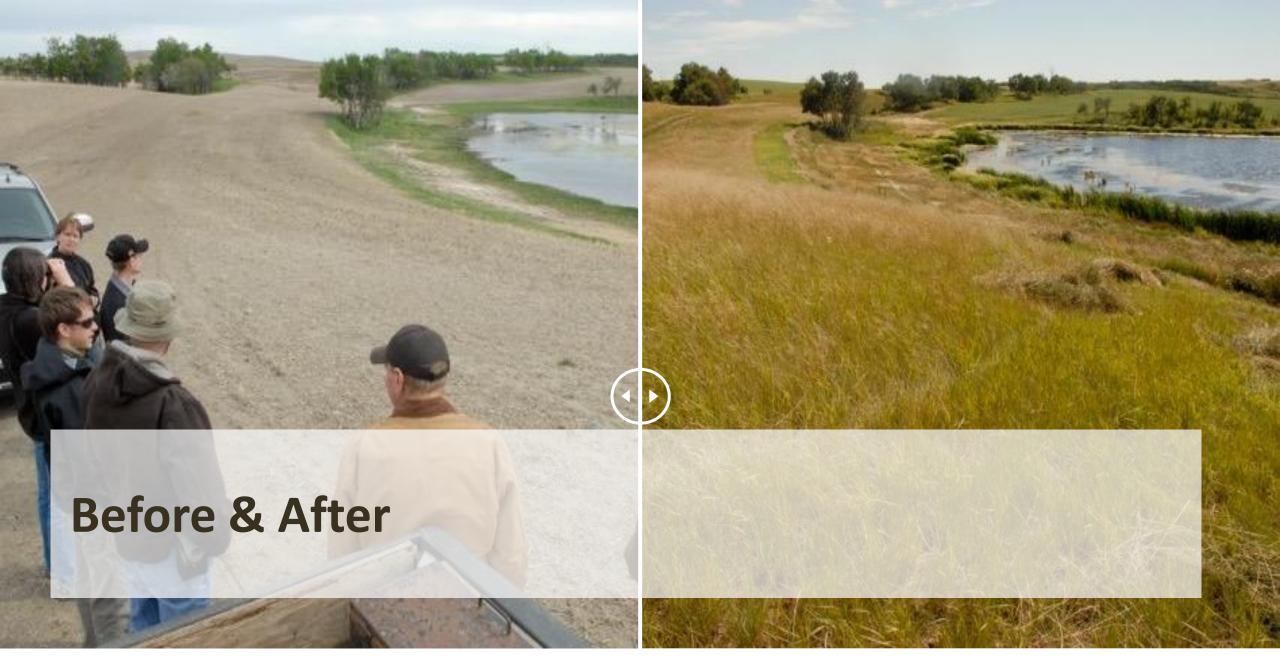




Let's talk productivity







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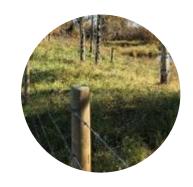
Production of Ecosystem Services Using Nature Based Solutions







Grasslands



Exclusion Fencing



Trees & Shrubs

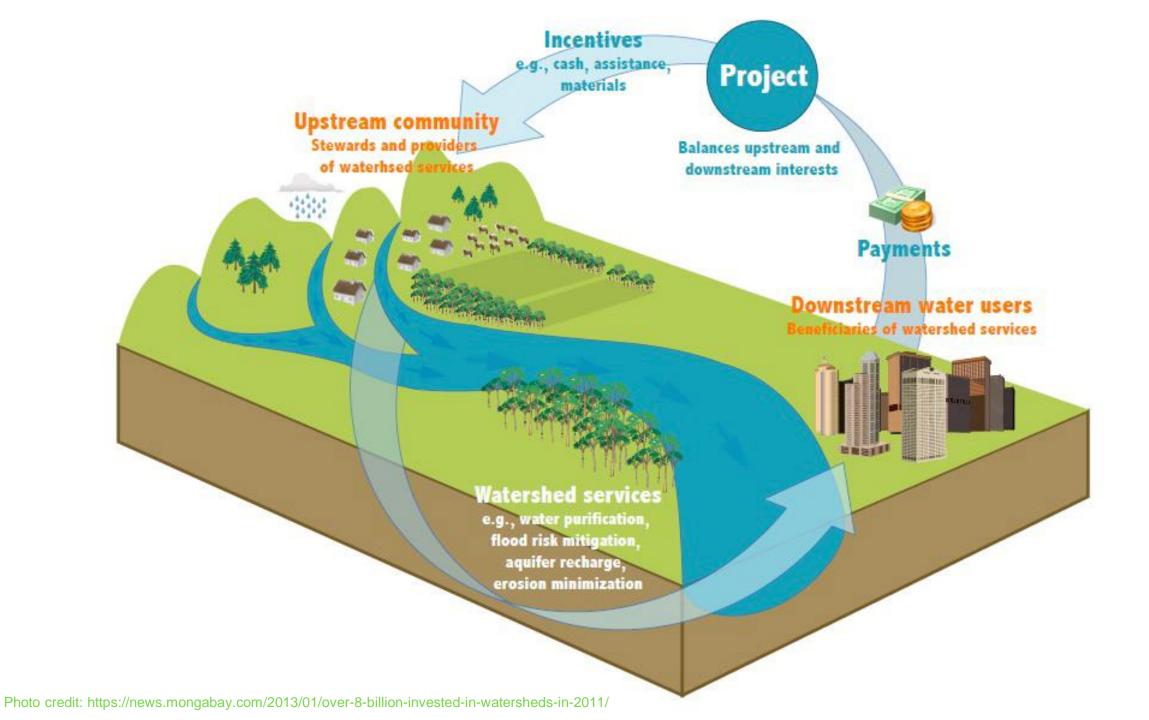


Riparian Buffers



Modified Ag





Project Example





Project Example





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Natural Infrastructures Benefits



Mitigates floods and droughts by storing and slowing the release of water and reducing erosion



Extends life of built or "grey" infrastructure such as floodways, culverts, bridges, and water treatment plants



Retains and filters water after flooding, which replenishes groundwater and cleans drinking water



Sequesters carbon into wetland and riparian areas



Co-benefits of Natural Infrastructure



Improves biodiversity

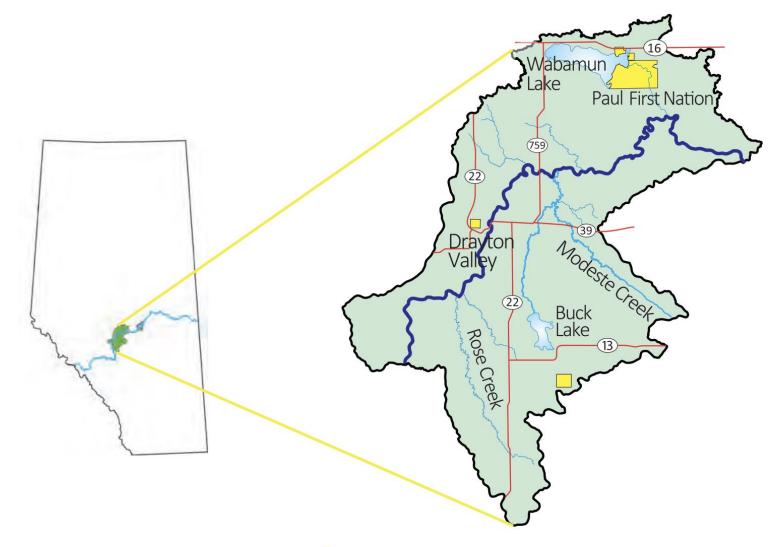




Community benefits



Modeste Watershed – Natural Infrastructure Project

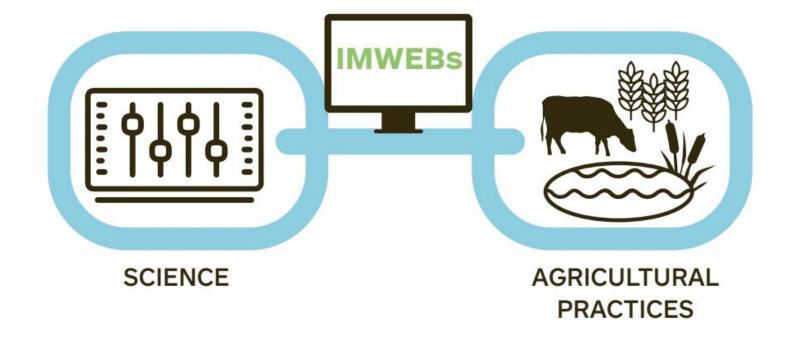




IMWEBs and ESAT: Bridging the gap between science and farming practices

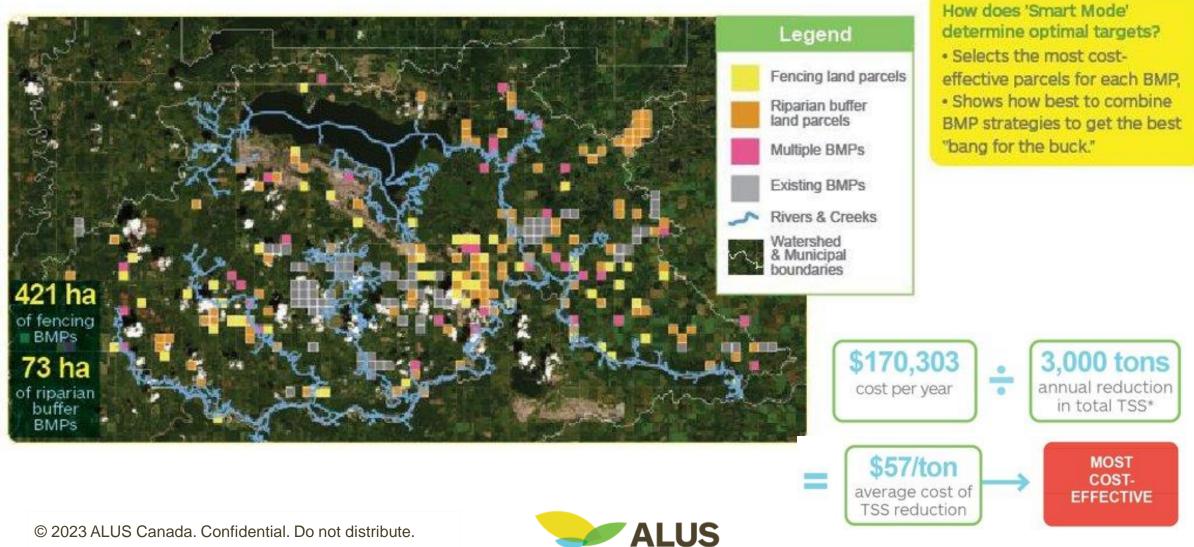
What is IMWEBs?

- Integrated Modelling for Watershed Evaluation of BMPs
- A scientific model that examines the benefits of Nature-based Infrastructure

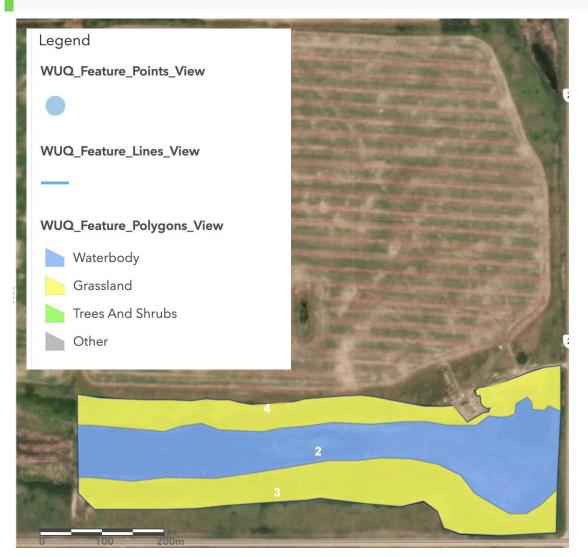




Ecosystem Service Assessment Tool (ESAT)



Natural Infrastructure Execution with Farm Participants







Before / After







Farmers are Rewarded on a Fee-for-Service Basis

Annual payment for EG&S production including ongoing management and maintenance of projects to ensure the best project performance.





Outcomes of the Project

DELIVERABLES



- Improved water & ecosystem health
- Improved riparian health
- 1,116 hectares of enhanced or restored agricultural land

OPPORTUNITIES



- Stronger community partnerships
- Landowner-led projects
- Watershed health awareness
- Connection to bigger picture outcomes

CHALLENGES



- Creating and gaining community trust
- Natural infrastructure and restoration buy-in



Modeste Natural Infrastructure Project Partners























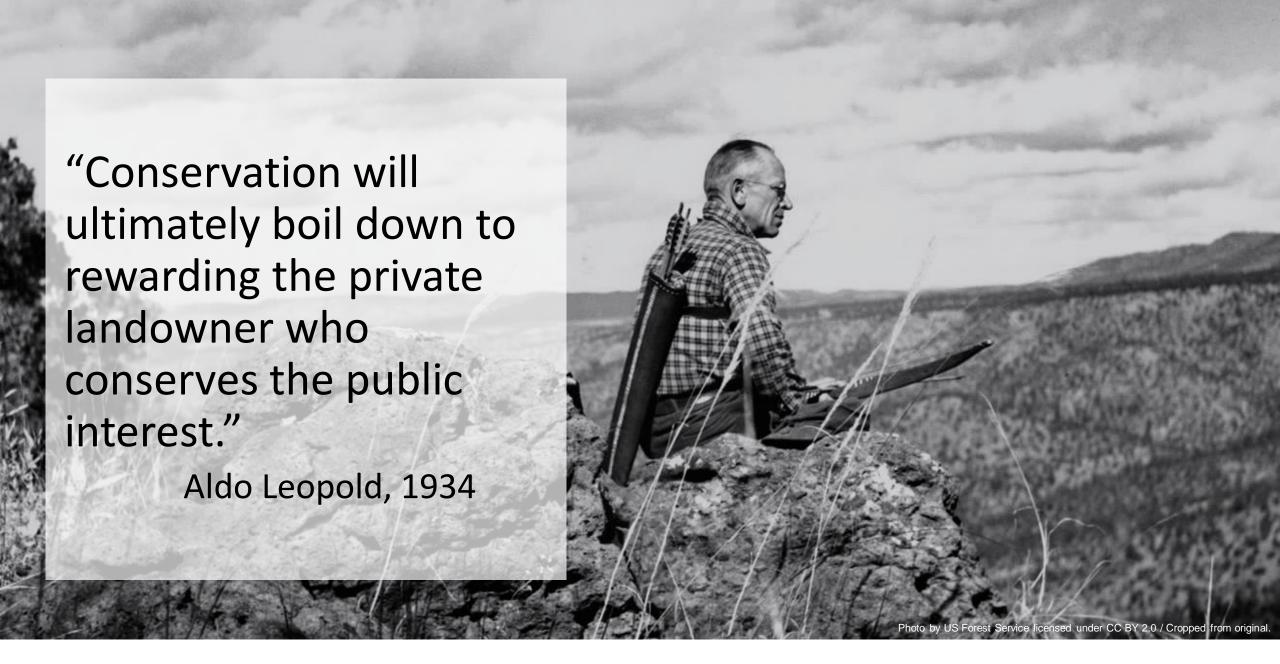
The primary funder of the project is Alberta Environment and Parks' Watershed Resiliency and Restoration Program (WRRP). This project is funded in part through Natural Resources Canada's Climate Change Adaptation Program. Additional funding is supplied by the City of Edmonton, EPCOR, and the McConnell Foundation.



Ressources naturelles Canada











Thank You!

