

Inventory of water management actions in Montérégie ouest, Southern Québec, Canada

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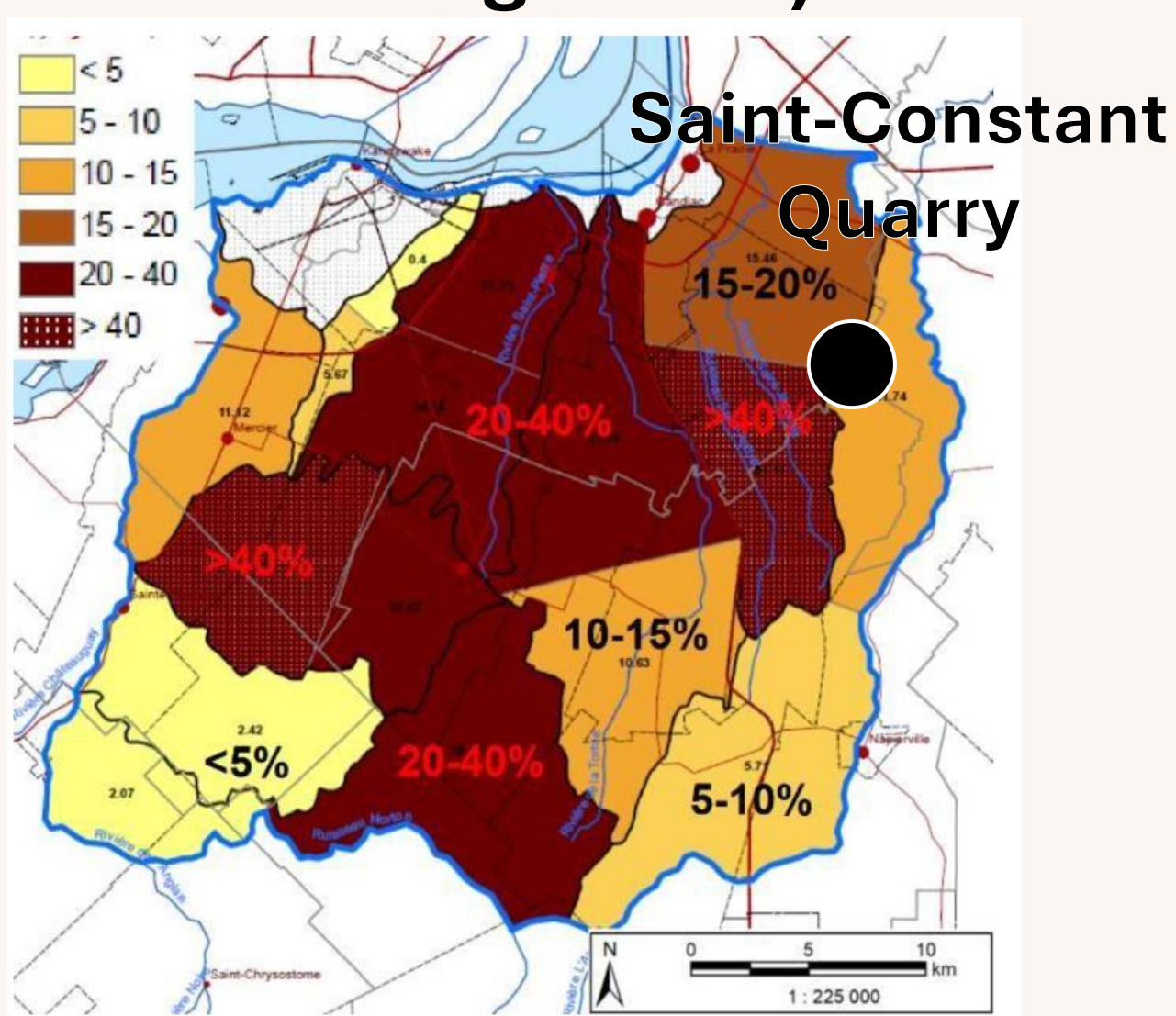
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*: student (M.Sc.), poster presentation.

Context

- ❖ Several regions in Quebec, including Montérégie-Ouest, are experiencing increasing **pressure on water resources** due to uneven availability throughout the year, resulting in shortages and conflicts over use.
- ❖ The **objective** of this study is to identify water management actions that can be implemented by stakeholders to **improve water resource management** in the region.

Pressure on groundwater (% of recharge used)



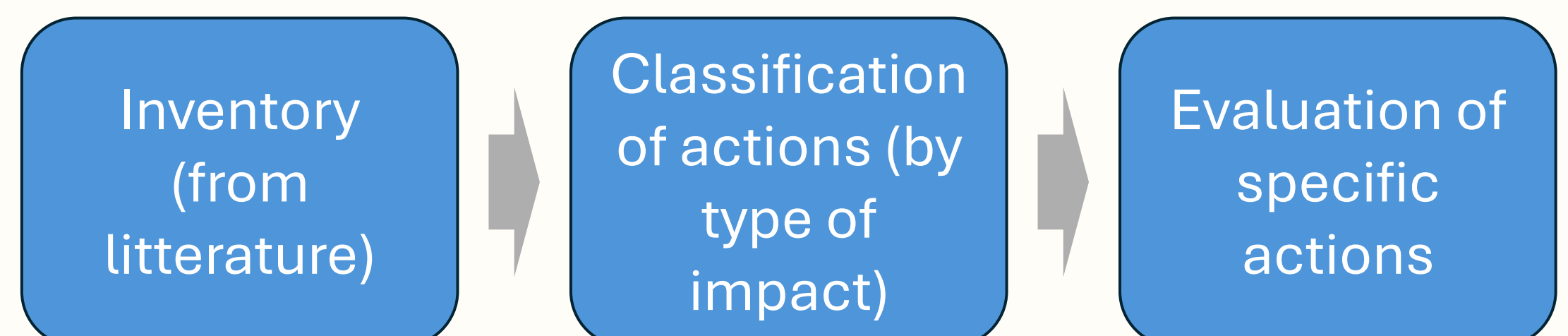
Classification of Water Management Actions

Thirty-two (32) actions were identified and categorised according to different type of impact, as follows:

- ❖ **Nature of the action** : remediation strategies (12), social initiatives (6) technical solutions (14).
- ❖ **Type of users**: agriculture (59% of actions), industrial (28%), residential (47%), ecosystems (22%)
- ❖ **Water sources**: surface water (66%), groundwater (59%), drinking water (19%)
- ❖ **Scale of application**: regional (16%), municipal (72%), local (53%).

This classification is meant to help stakeholders quickly identify relevant water management actions based on their specific needs.

General Methodology



Evaluation of the Reuse of Quarry Dewatering Water

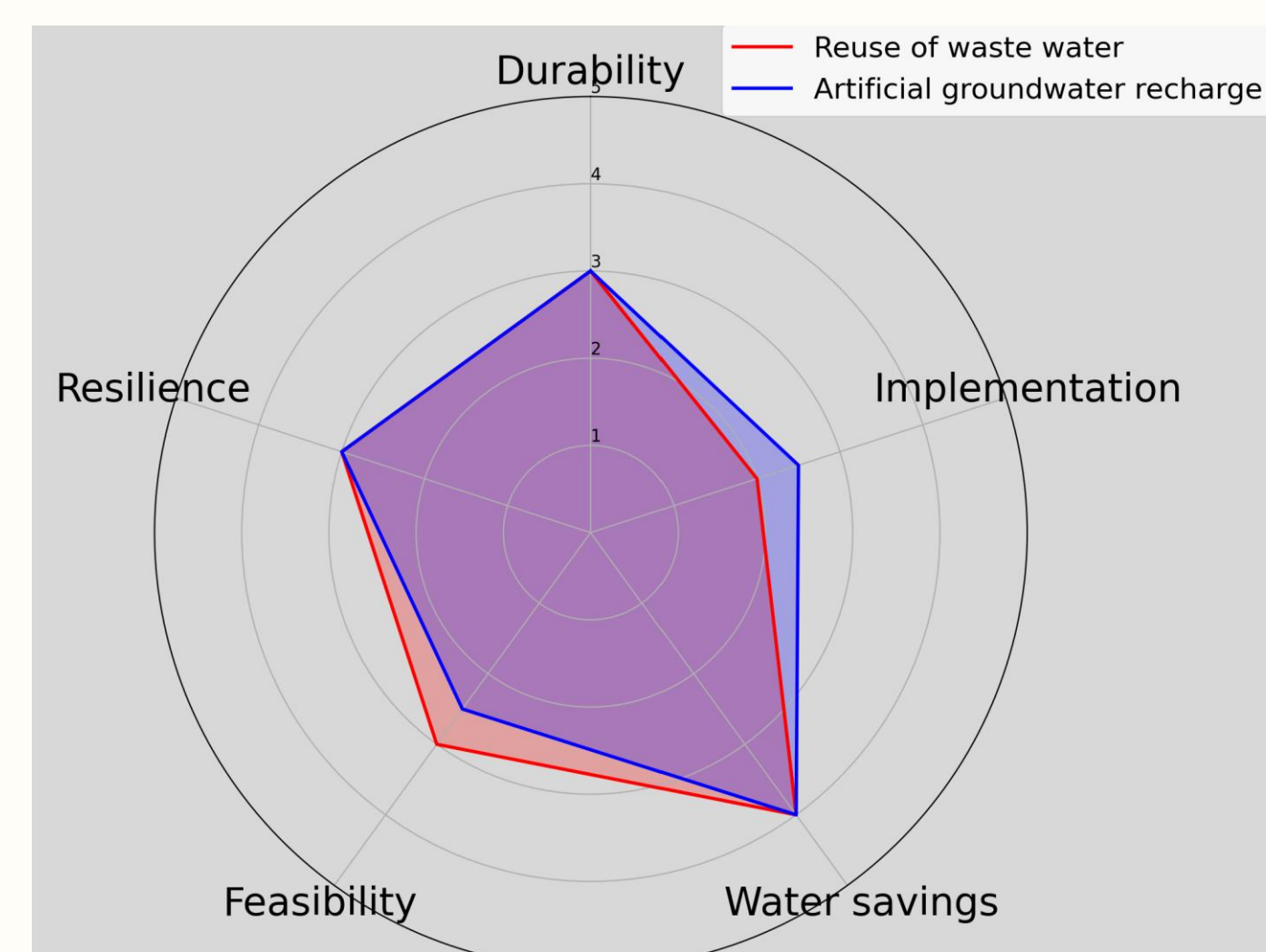
- ❖ **Objective:**
To offset water demand, particularly in agriculture, by reusing quarry dewatering water instead of discharging it into nearby streams.
- ❖ **Potential benefit:**
Up to 30% of agricultural water needs could be met through this reuse strategy.

Saint-Constant quarry



Source : Picture from CSCE Montréal

Summary Assessment of the Action



« Substantial water savings could be achieved at the local and municipal scales, but implementation would require infrastructure that is not currently in place. »

References

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