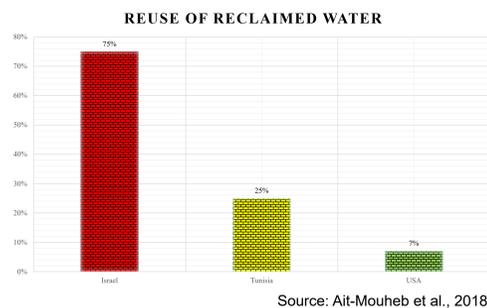


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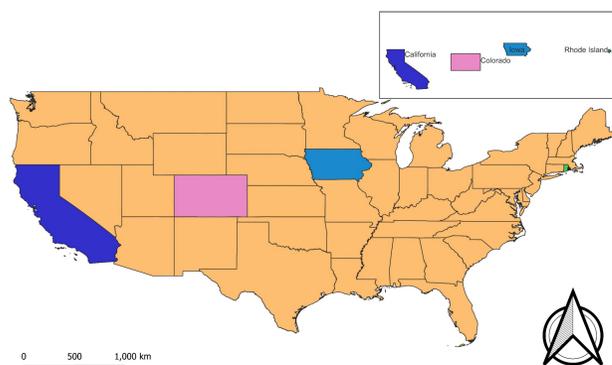
Cost curves: A novel decision making tool in the water industry with focus on water reuse.

Background and Introduction

- For decades, traditional water management pricing has omitted environmental and social costs and benefits that could alter the true cost of using a specific water supply.
- Environmental intangibles can be quantified or even monetized using current valuation techniques such as contingent valuation.
- Cost curves have minimal application to the water sector. This tool is used to set market floor prices for items, which will be utilized in this project to diversify a community's water supply by including intangible benefits, hence creating economic prospects.
- Water resource planners can benefit from cost curves since they offer a sustainable, cost-effective decision solution, taking into account environmental and social benefits.



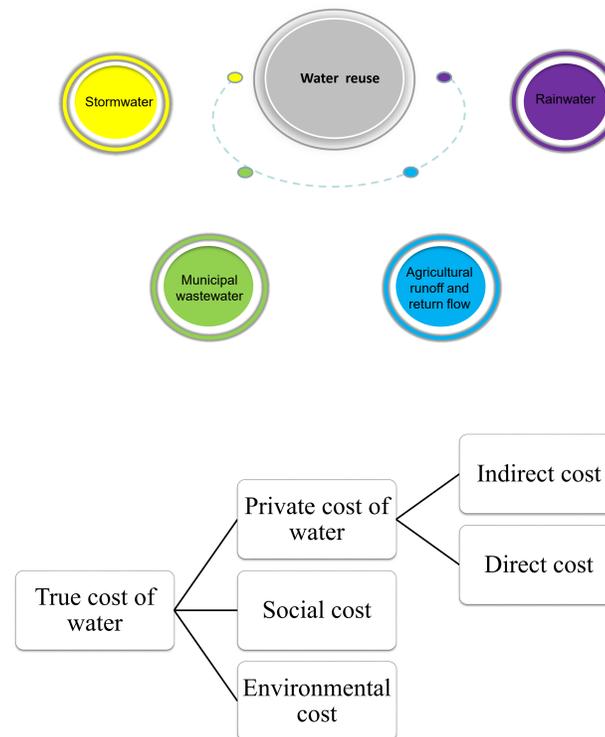
CASE STUDY MAP



Objectives

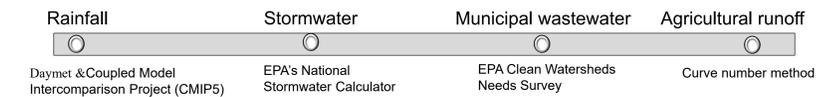
- Accelerate technical and community readiness for water reuse in small systems.
- Develop an inventory that measures the amount of water that is readily available and the cost of reusing it.
- Construct cost curves for fit-for-purpose water reuse for small systems.

Preliminary data



Methods

- Quantify available water reuse sources.



- Analyze low-input technologies, cost, and treatment methods suitable for small water systems'.
- Estimating the private cost associated with each source of water.
- Monetizing environmental externalities that have no market value around system boundaries using empirical valuation methods like life cycle impact analysis, hedonic pricing, contingent valuation. Etc.

Future work

- Generate a decision tool for benefit-cost analysis designed for small systems that will compare water reuse with traditional methods while taking benefits of reuse into account.

