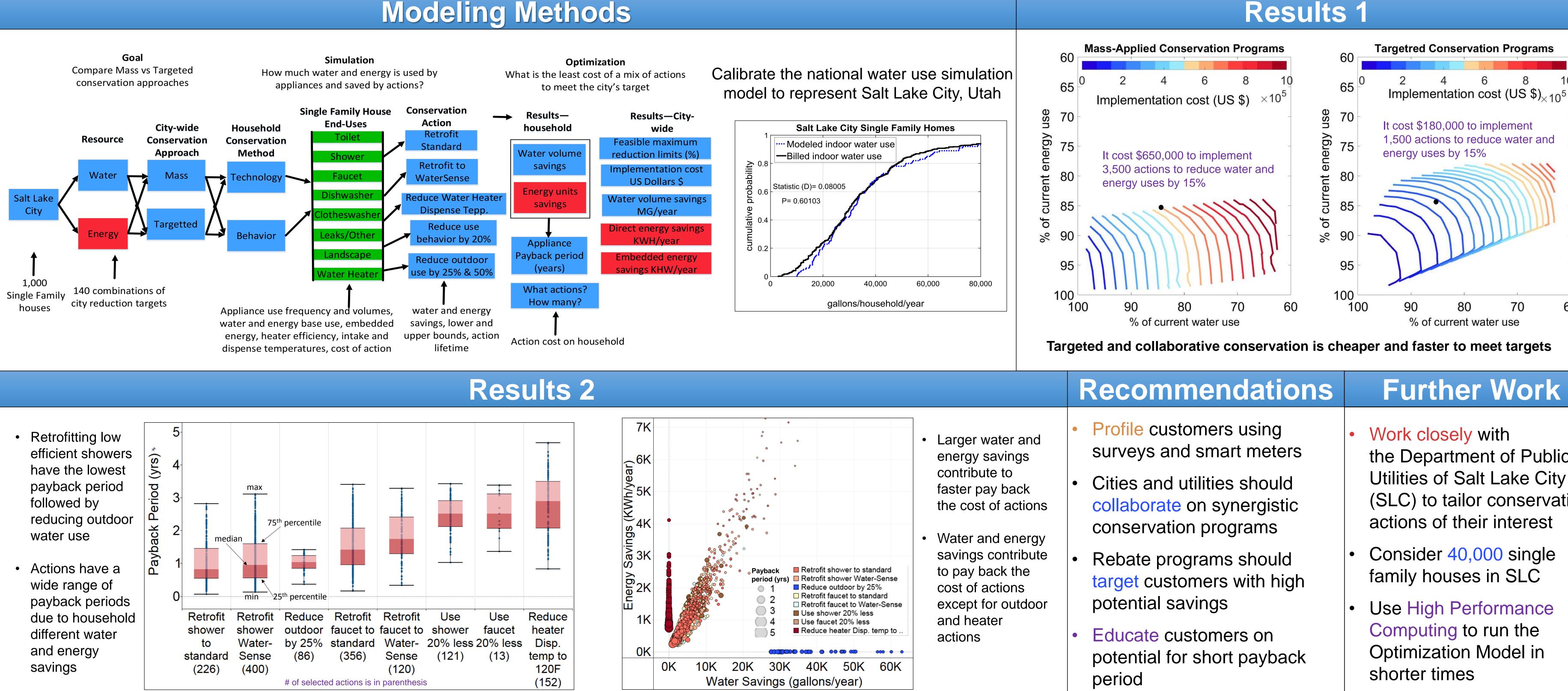


Motivation

- How can home owners jointly conserve water and energy?
- What conservation actions are cost effective and should cities synergically promote?



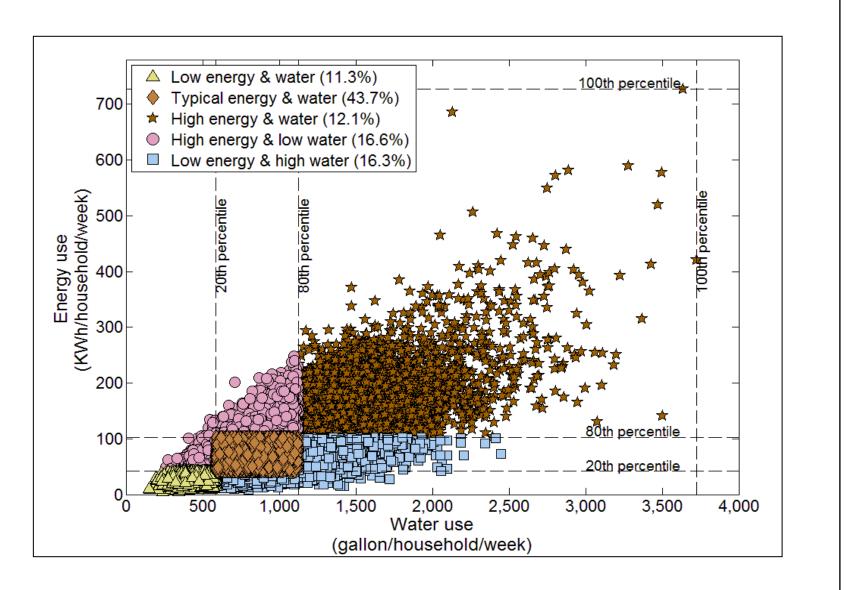
Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation

Let's Target Collaborative Water and Energy Conservation Actions?

Adel M. Abdallah and David E. Rosenberg Utah Water Research Laboratory, Utah State University - Logan, Utah, USA Water Smart Innovations 2015, Las Vegas, NV

Previous Work

Residential water and energy uses are heterogeneous, skewed, and linked (Abdallah and Rosenberg, 2014)









Conservation Programs

Results 1

Targeted and collaborative conservation is cheaper and faster to meet targets

Targeted

programs

focus on high

potential

saving

households

Further Work

- Work closely with the Department of Public Utilities of Salt Lake City (SLC) to tailor conservation actions of their interest
- Consider 40,000 single family houses in SLC
- Use High Performance Computing to run the **Optimization Model in**

