WaterSim: Will there be enough water in Arizona?



Try balancing water supply with demand

Ariana Fox Undergraduate Community Outreach Intern

WaterSim is an interactive model of water supply and demand for Greater Phoenix. It integrates information about climate, land use, population growth with policy decisions into a decision-support tool designed to help avert crises and improve the adaptive capacity of our desert city.

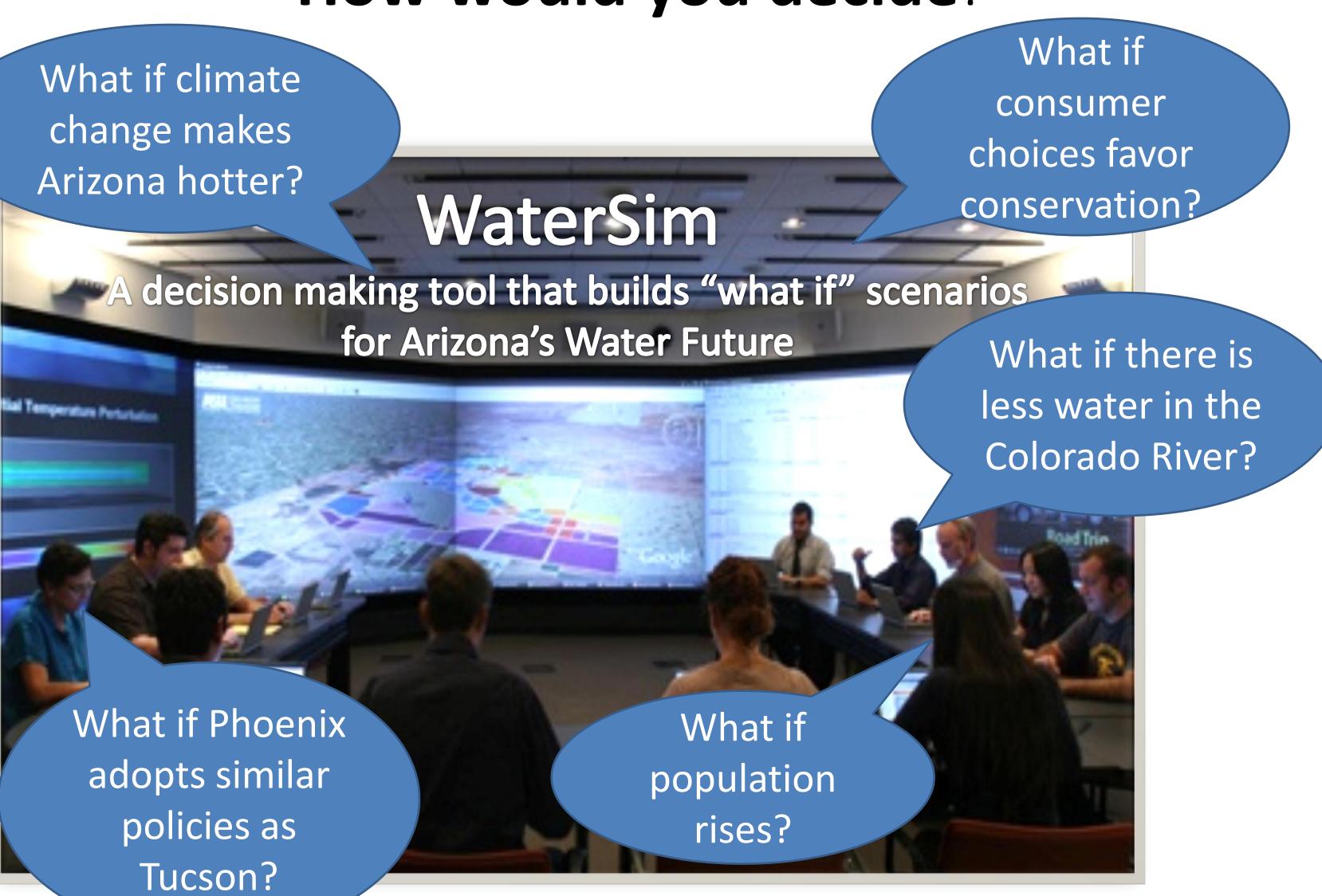


The DCDC is a boundary organization, a place where multiple perspectives from the scientific, professional and public spheres come together to collaborate on social decisions like water management. The DCDC helps plan for climate change with tools like WaterSim to ultimately help bridge the gap between science and policy

- The National Science Foundation (NSF) recognizes that research cannot remove all uncertainty from our understanding of climate change and has set up centers like the DCDC across the country to foster decision- making under uncertainty.
- DCDC is a boundary organization and works with water managers, scientists and community stakeholders to foster better decision making for water- management in the urbanizing desert of central Arizona.
- Visualization can support collaborative decision-making. WaterSim provides a way of visualizing climate and policy data so that users can explore plausible futures and consider strategies that are robust across a range of climate conditions.







Factors affecting water demand

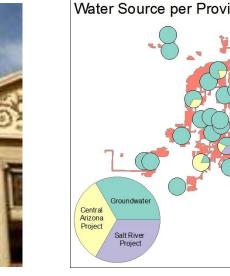














Factors affecting water supply



- Drier
- Hotter
- More Severe Storms

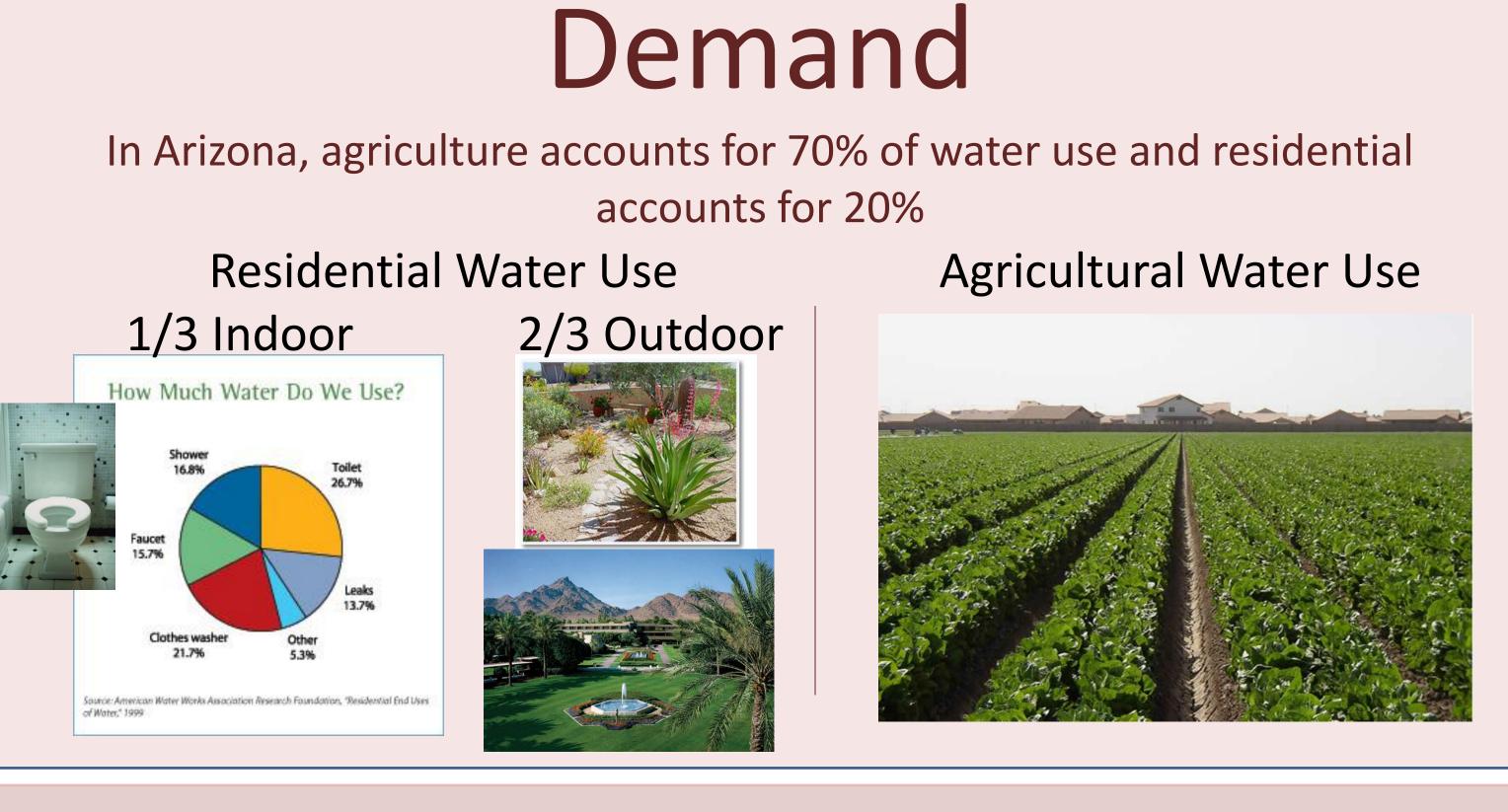
Drought





Water

Reuse



Acknowledgements: This material is based upon work supported by the National Science Foundation under Grant No. SES-0345945 Decision Center for a Desert City (DCDC). Any opinions, findings and conclusions or recommendation expressed in this material are those of the author and do not necessarily reflect the views of the National Science Foundation (NSF). Tim Lant developed the original WaterSim model. Michael Tschudi and David Sampson continue to make improvements. Special thanks to Katja Brundiers for input and guidance on this poster.