

UNIVERSITY OF ARIZONA Water & Energy Sustainable Technology Center

Building Water Resource Resilience by Strengthening Academic-Water Utility Partnerships



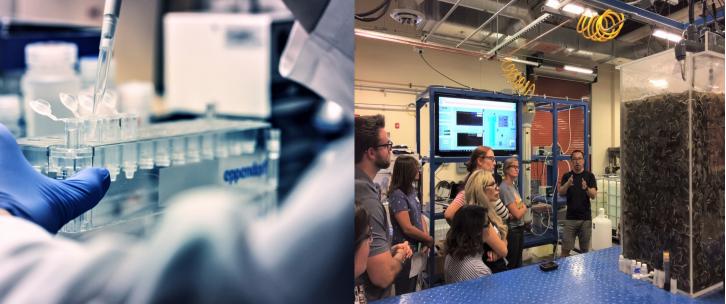
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UArizona - Local Water Utility Collaborations



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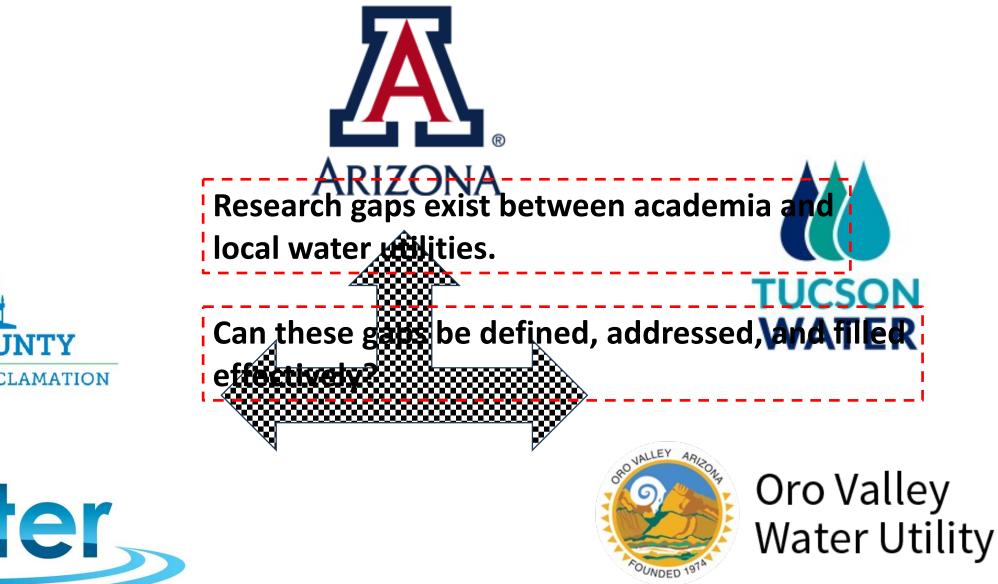


- Public health
- Community engagement
- Water infrastructure
- Water quality & reuse
- Workforce development

UArizona - Local Water Utility Collaborations



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1. *Characterize and address* the **barriers and accelerators** to academic-water utility research collaboration.

2. *Identify* the **most pressing needs of local water utilities** anticipated during the next 5 to 50 years ----> assess alignment with academic research interests.

GOALS:	, , , ,
• Generate further insights to advance more successful partne	erships.
• Increase water utility capacity to address future challenges.	

Methods: A Qualitative Approach



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Focus groups formed (conducted via Zoom):

- Local water utility personnel only (4 utilities)
- Academic research faculty (UArizona) only
 - Public health, microbiology
 - Engineering
 - Community engagement
- Combined water utility personnel and UArizona faculty

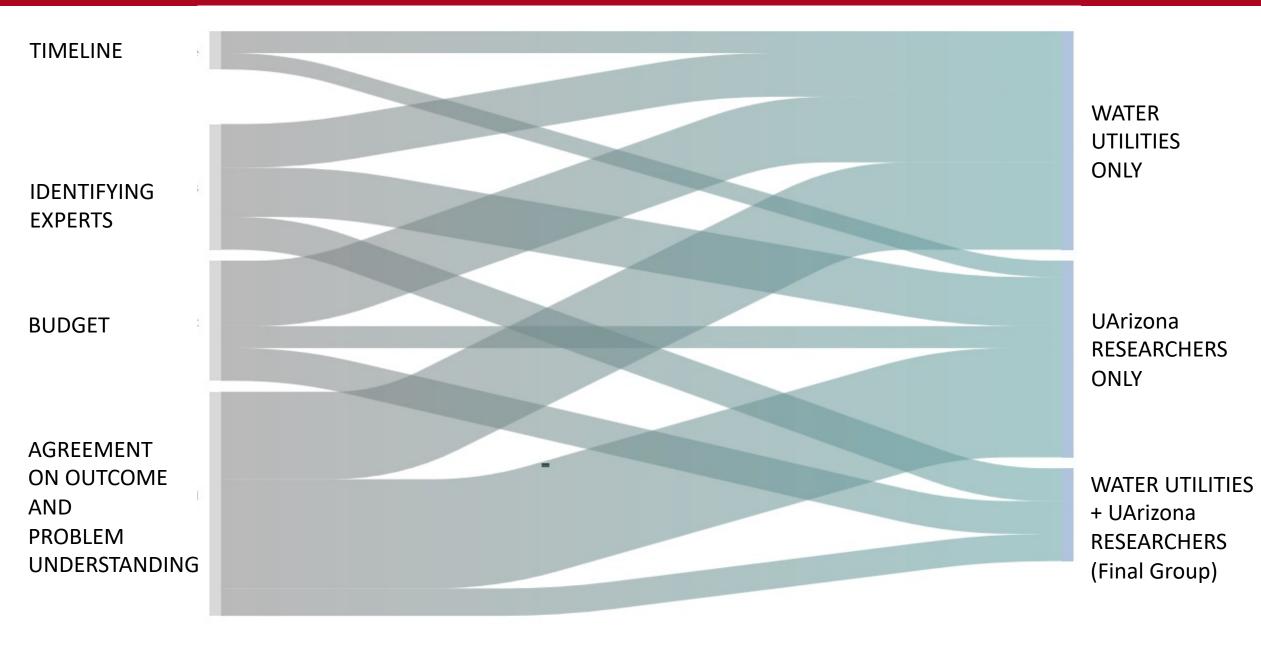
Focus Group Meeting	Participants	Number of Participants
1*	Combined UArizona Faculty Only	9
2	Water Utilities Only	5
3	Water Utilities + UArizona Engineering Faculty	8
4	Water Utilities + UArizona Public Health and Environmental Microbiology Faculty	7
5*	Water Utilities + Combined UArizona Faculty	12

- Focus group conversations transcribed verbatim
- Transcripts coded
- Analyzed using ATLAS.ti
- $\circ~$ Sankey Plots generated

Sankey Plot: Collaboration Mechanisms



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- Academia and water utilities are influenced by different drivers including accountability, funding, and timeline structures.
- Expectations for institutional roles (academic and government) and anticipated goals must be stated and early.
- Frequency of communication is critical.

More frequent interactions desired by both entities \rightarrow annual meetings to stay informed on latest research needs, methods, and findings.



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Thank you all for your time today!

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