

UT Dallas Bioengineering and Sciences Building Water Conservation Trifecta







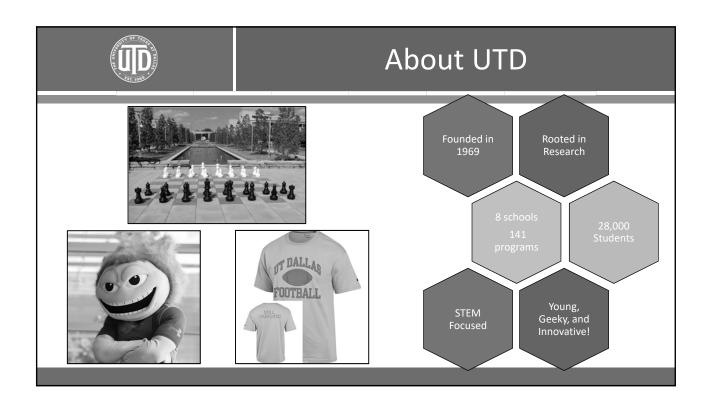
Rick Dempsey, PE University of Texas at Dallas Associate Vice President for Facilities Management

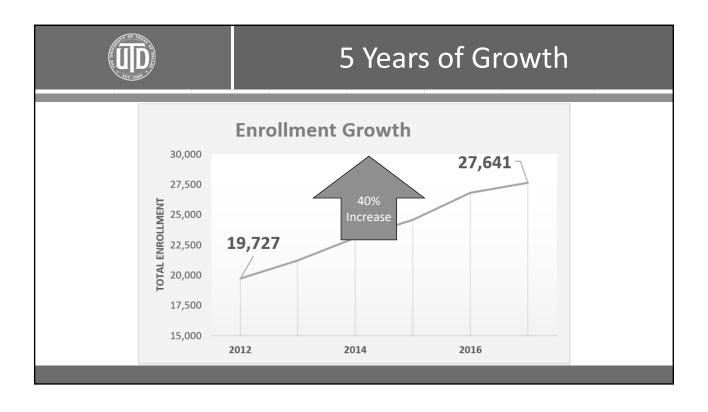


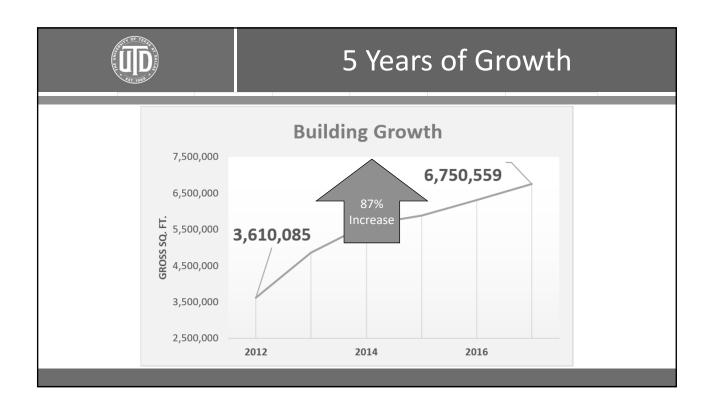
Shara Castillo, LEED AP BD+C ZGF Architects LLP Associate Partner

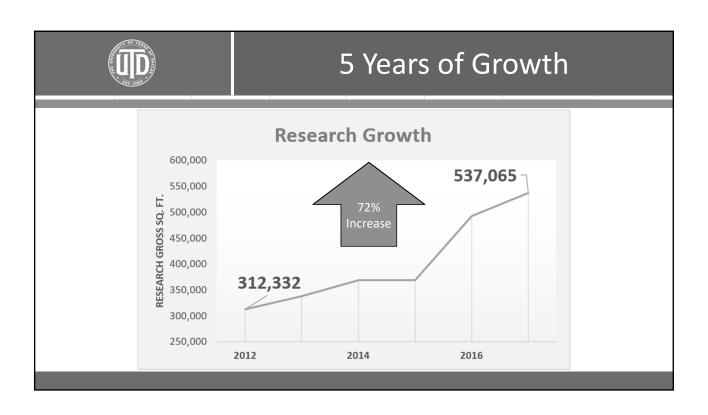


Kevin Masten University of Texas at Dallas Director of Research Facilities Operations





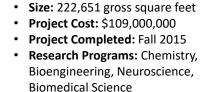






Bioengineering and Sciences Building (BSB) Project Overview











About Bioengineering and Sciences Building



- 72 Research Labs
- 690 work stations
- 142 offices
- 12 conference rooms
- 8 Integrated collaboration areas
- Connections to sister facility (NSERL)



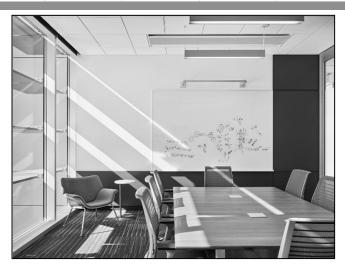
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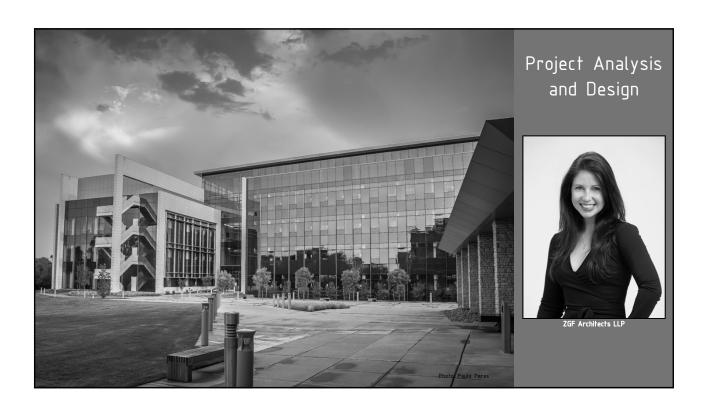
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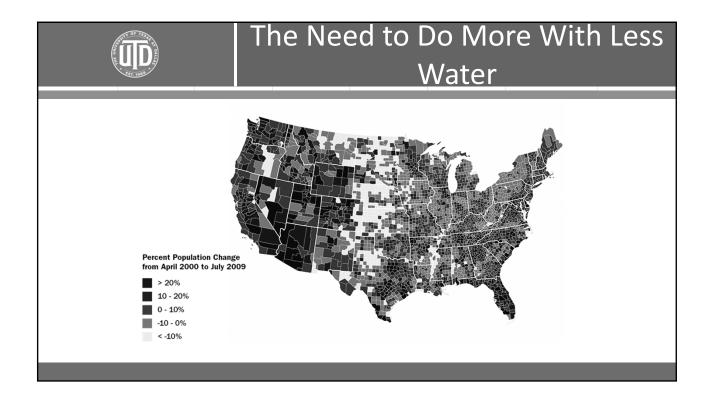


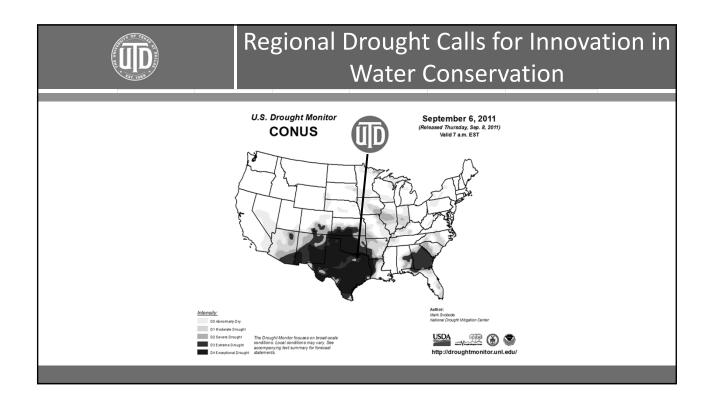
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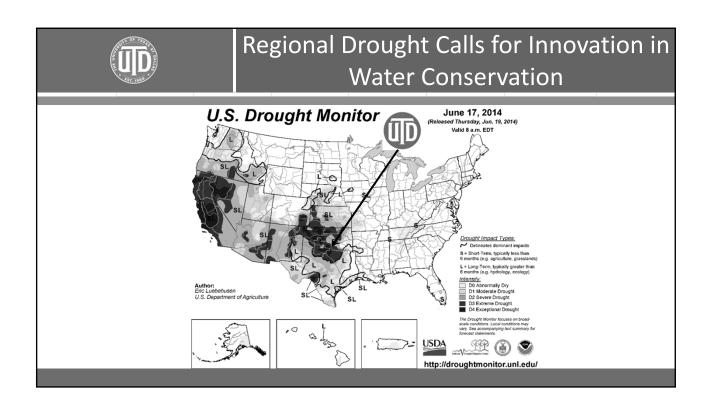


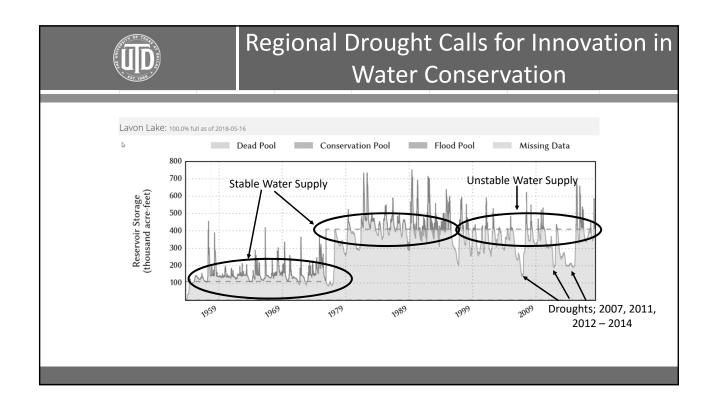
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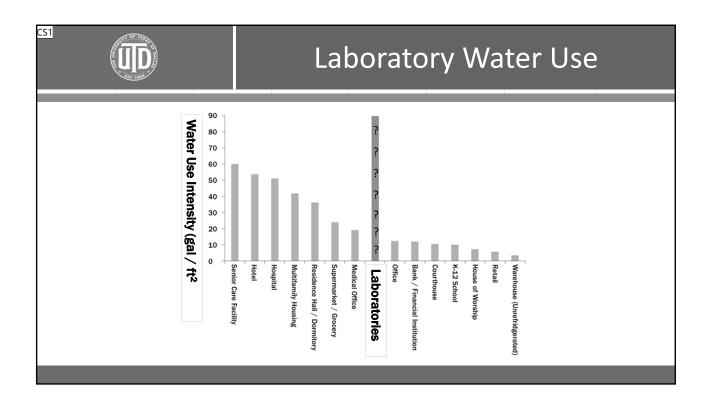




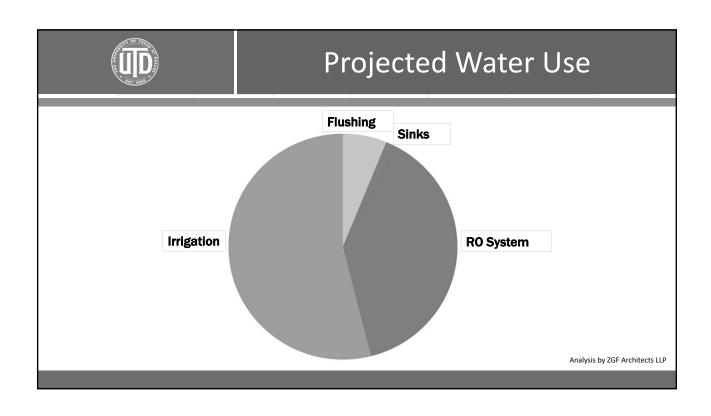


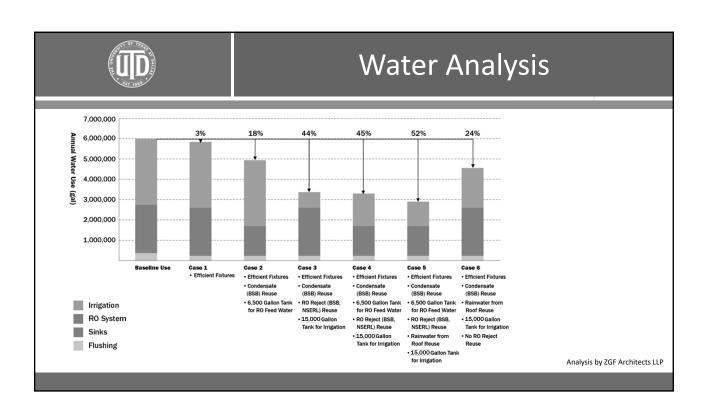


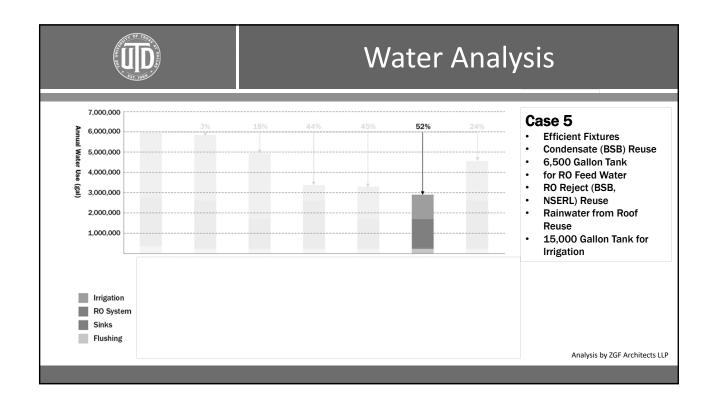


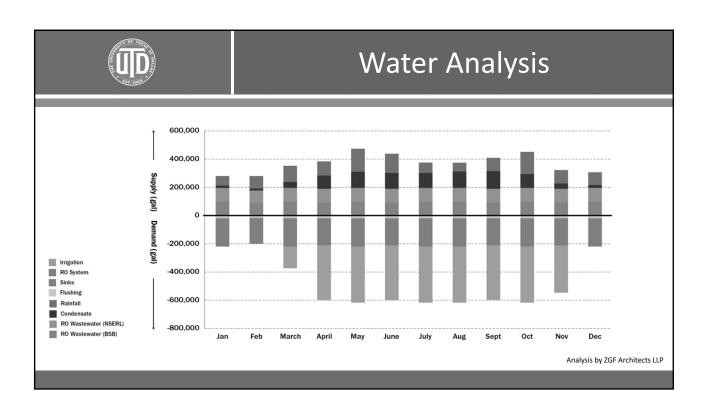


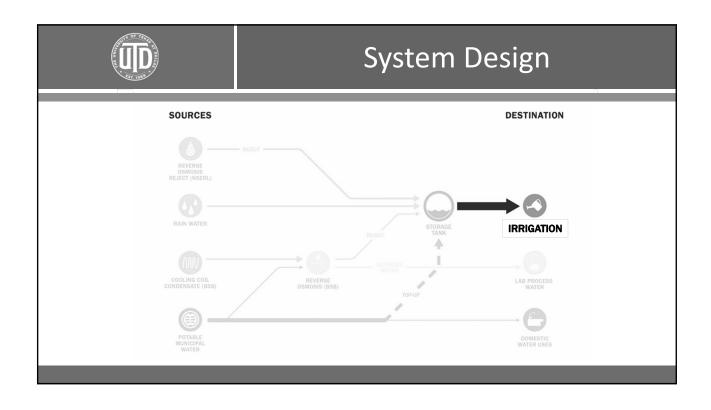
CS1 Castillo, Shara, 6/26/2018

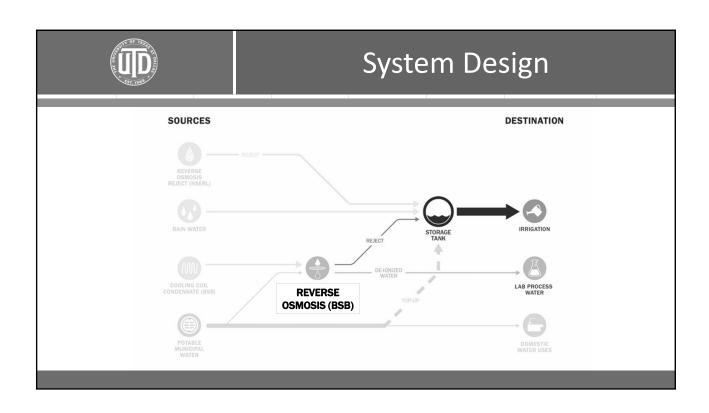


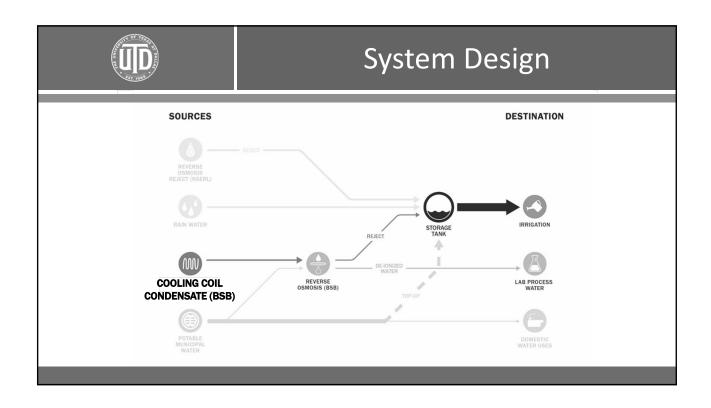


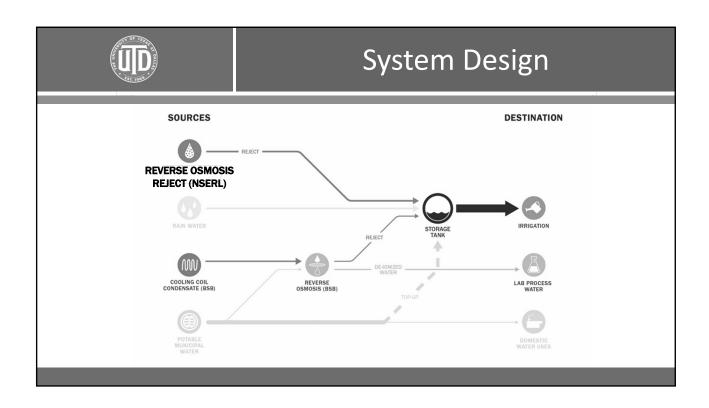


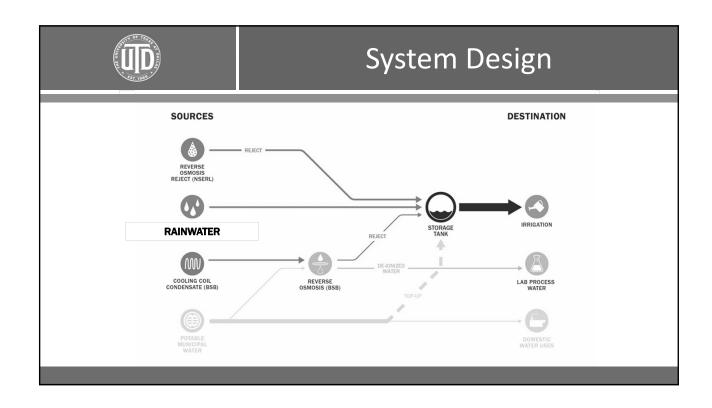


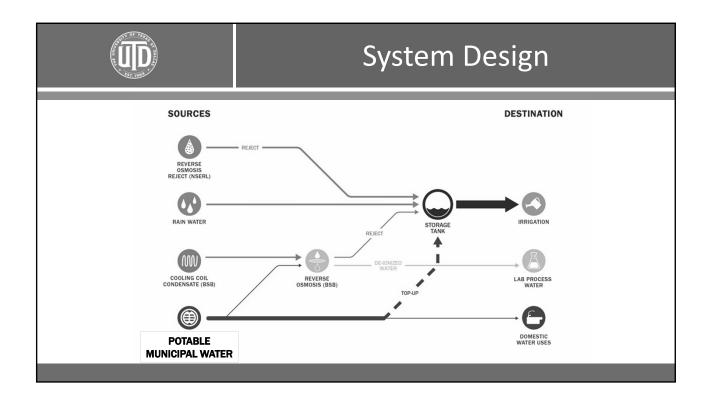


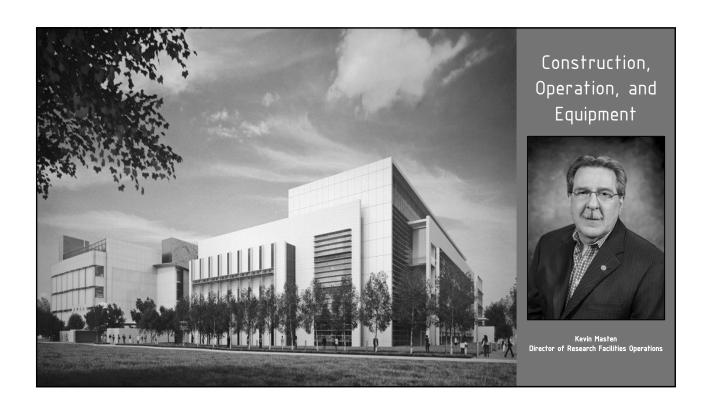










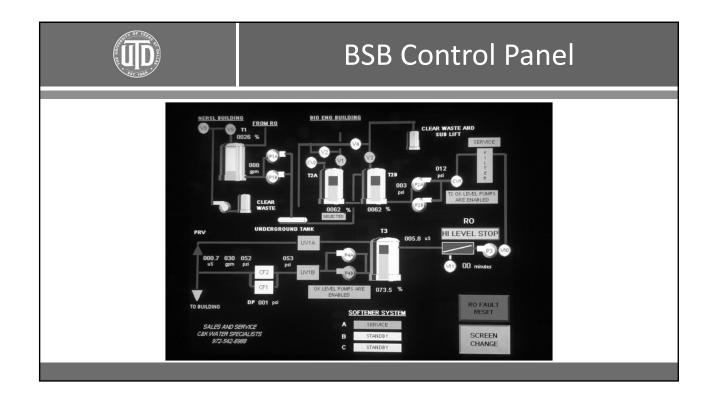






BSB 15,000 Gallon Cistern







BSB RO Controller, Membranes, and Storage







BSB Softener and Brine Tank





BSB Metering







Numbers and Outcomes



- 2.5 million gallons saved from RO capture
- Metering installation for other components in progress.
- Double value by capturing waste for reuse.
- Water costs have doubled over the last decade. Savings will magnify as cost of water rises.
- ROI will not justify project alone.
 Consider issues of regional importance and campus resiliency when planning.



A Solution That Makes Sense for UTD





Questions?