

Advanced Water Treatment Research

Yuliana Porras Mendoza

Advanced Water Treatment Research Coordinator

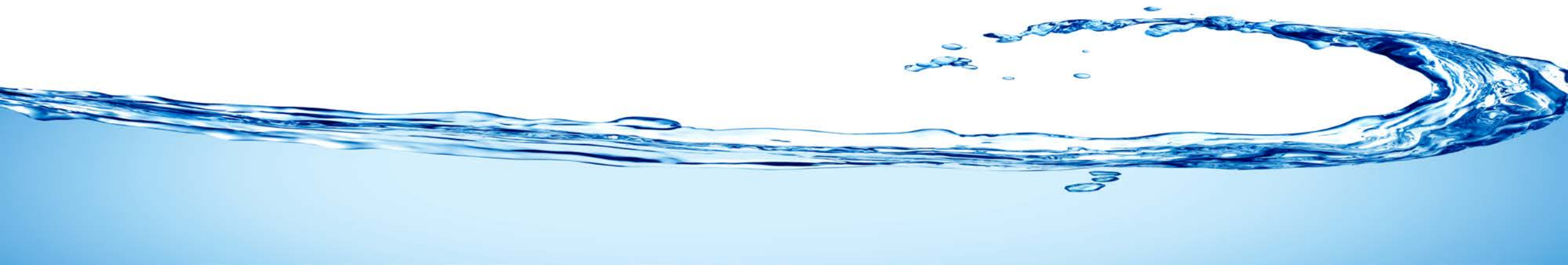
Programs

- **Science and Technology (S&T)**
- **Desalination and Water Purification Research (DWPR)**
- **Water Prize Competition Center**



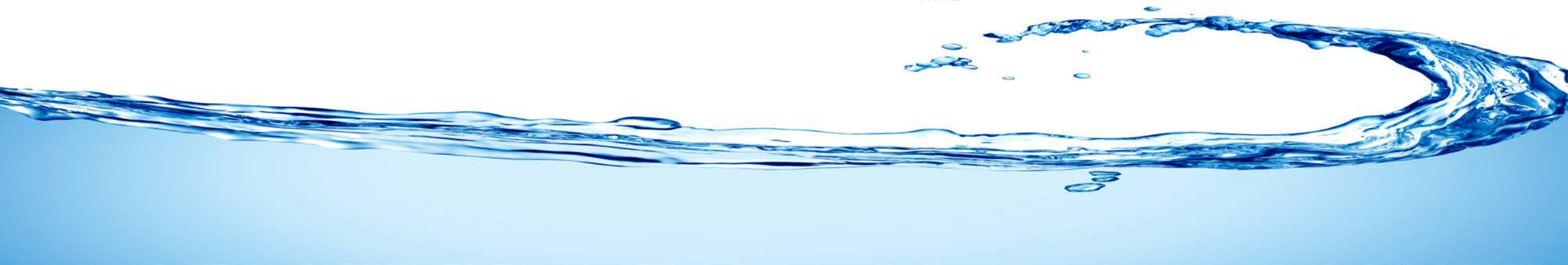
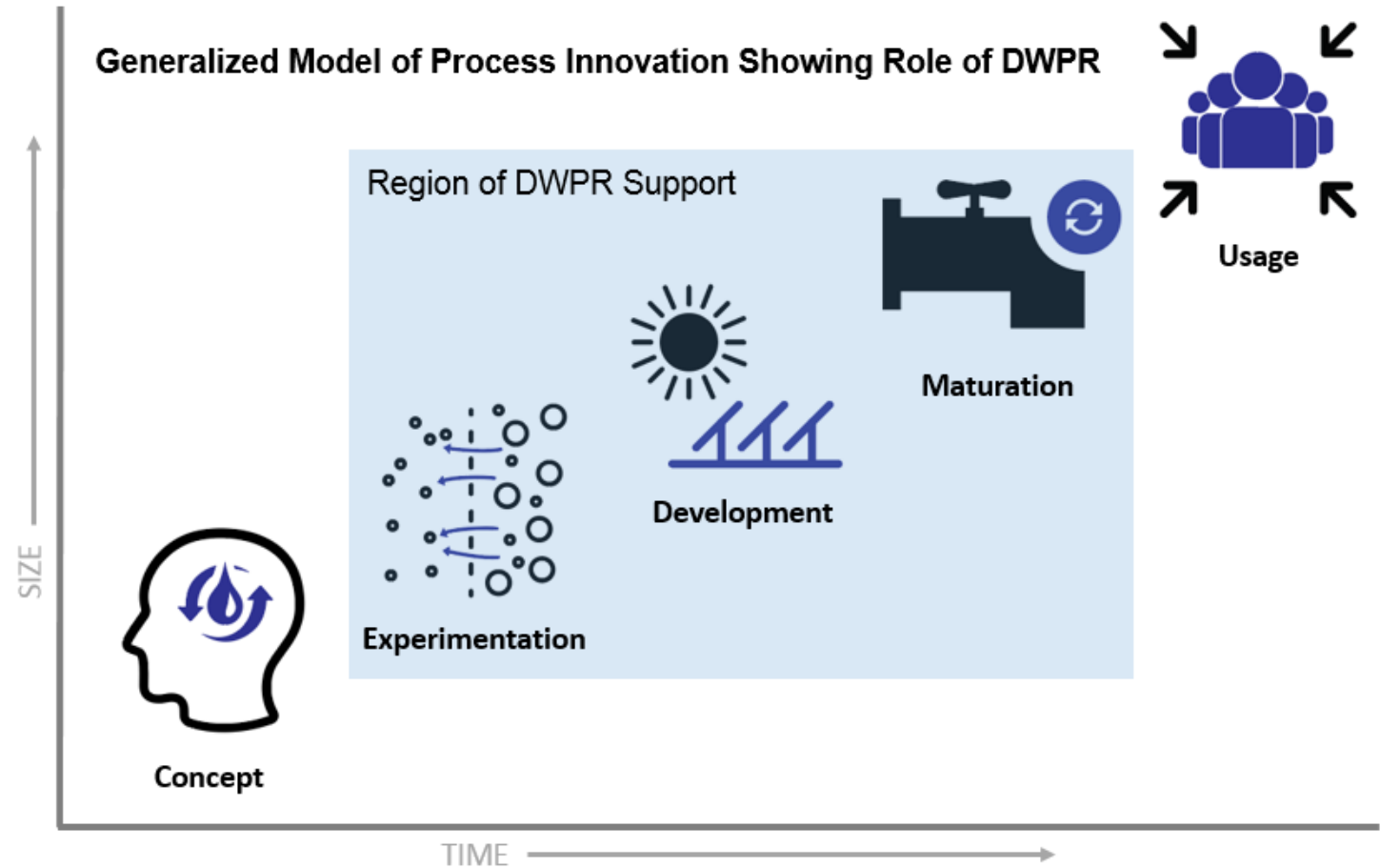
Science and Technology Program

- Internal research
- Contaminants of concern (CEC) in water reuse concentrate
- Concentrate management toolbox
- Chlorine resistant membrane
- Oxnard saline wetland



DWPR Program

- External research
- Laboratory scale (18 mo)
 - Up to \$150,000
- Pilot scale (2yrs)
 - Up to \$400,000
- Full scale (3yrs)
 - Up to \$1,500,000



DWPR Program

- **Funding opportunity announcement – Nov/Dec 2017**
 - www.grants.gov
- **Innovative treatment, reduce cost, reduce environmental impact, any water source treated for any use**
- **United States-Mexico binational research foundations and interuniversity research programs are eligible to apply**



Water Prize Competition Center

- Solve some of the most critical water and water-related resource problems facing our Nation
- Three areas
 - Water Availability
 - Environmental Compliance
 - Infrastructure Sustainability



Hundreds of thousands in prize \$\$\$!

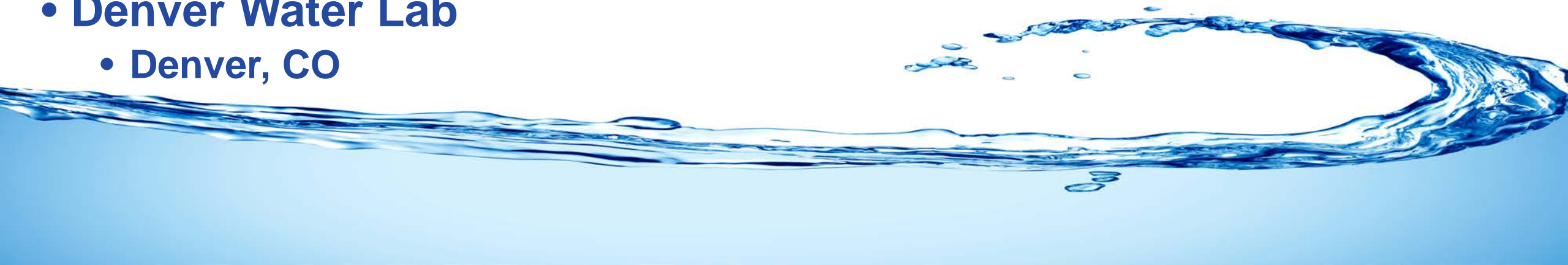


usbr.gov/research/challenges



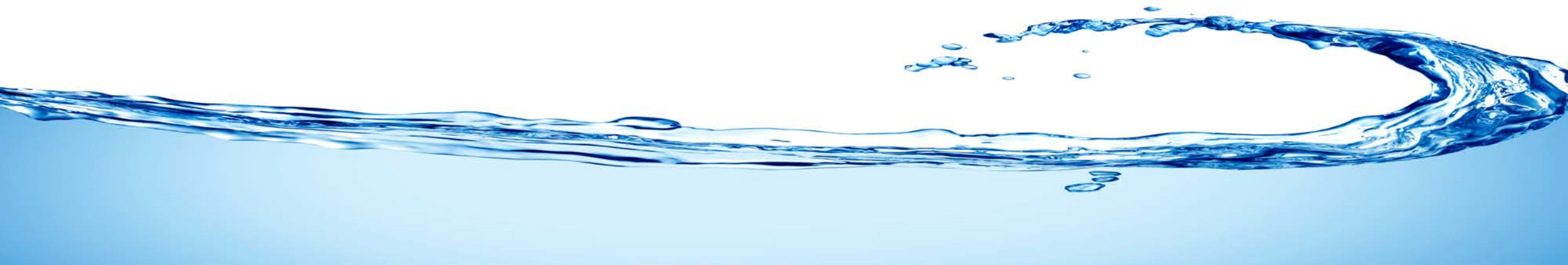
Research Facilities

- **Brackish Groundwater National Desalination Research Facility (BGNDRF)**
 - Alamogordo, NM
- **Water Quality Improvement Center (WQIC)**
 - Yuma, AZ
- **Denver Water Lab**
 - Denver, CO



Areas of Interest

- **Water Treatment Roadmap**
 - Updating research needs
 - Focus group webinars
- **Water Treatment (WaTr) Interagency Working Group**
 - Federal agencies funding research in water treatment
 - Annual meetings
 - Increase communication



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www.usbr.gov/research



www.usbr.gov/research/projects/index.html

www.usbr.gov/research/dwpr/DWPR_Reports

www.usbr.gov/research/challenges



Rio Grande

<https://fnsnews.nmsu.edu/files/2015/11/P1070854.jpg>