



The Mayor's K-12 Smart City Challenge

2022: Water Resources



What San Antonio Challenges Might You Take On?

and where you can learn more on the SA Smart YouTube channel

www.tinyurl.com/sasmart-youtube

SPECIFIC CHALLENGES, and whose interview to watch

CUSTOMER COMMUNICATION	
Different ways/channels to communicate with customers	Meghan Patronella Anne Hayden Gregg Eckhardt
Getting people to sign up for the SAWS online portal	Meghan Patronella
EQUITY, DIVERSITY, INCLUSION	
Digital inclusion challenges in SAWS communication	Meghan Patronella
Finding ways to help vulnerable customers	Greg Wukasch
Specific support for the elderly and military veterans	Greg Wukasch
CONSERVATION	
Challenges in conserving water	Karen Guz SA Smart Virtual Launch
Conserve water specifically in your home/school/community	Karen Guz
Harvesting rainwater	SA Smart Virtual Launch
New water sources / self- and community-based help	Andrea Beymer Ryan Beltrán

WATER PURIFICATION / RECYCLING	
Removing salt from our water	SA Smart Virtual Launch
Using chemistry to clean water	Andrea Beymer
SYSTEM PROBLEM PREVENTION AND MAINTENANCE	
Helping the public what to flush/not flush	Gregg Eckhardt
So-called “flushable” wipes	Gregg Eckhardt
Keeping the 12,000 miles of pipes maintained	Andrea Beymer Keisuke Ikehata
Using Artificial Intelligence to predict maintenance needs	Andrea Beymer
DATA	Meghan Patronella
Summarizing meter read data for customers	Meghan Patronella
Accessing, analyzing, and extracting meaning from data	Jacob Covarrubias
Making data available to the public in useful ways	Jacob Covarrubias
CYBERSECURITY IN WATER SYSTEMS	
Cybersecurity in water control systems	Michael Kampstra SA Smart Virtual Launch
ENERGY AND WATER	
Saving energy when moving water	Jaime Castillo
JOBS AND HIRING	
Hiring staff for SAWS	Sandie Thompson Michael Kampstra (cyber)
PUBLIC POLICY	
Managing politics, policy, organizations, relationships	Jaime Castillo
WATER SYSTEMS AND PUBLIC HEALTH	
Using water systems to monitor public health, including COVID	Davida Smyth

Overviews and the Big Picture

The Water System	Steve Clouse Gregg Eckhardt
Data analytics	Jacob Covarrubias
Customer communication	Anne Hayden
Reading water meters	Meghan Patronella
Cybersecurity	Michael Kampstra
Water chemistry	Keisuke Ikehata
Policy and politics	Jaime Castillo
Conversation	Karen Guz
Jobs	Sandie Thompson
Energy and water	Jaime Castillo SA Smart Virtual Launch