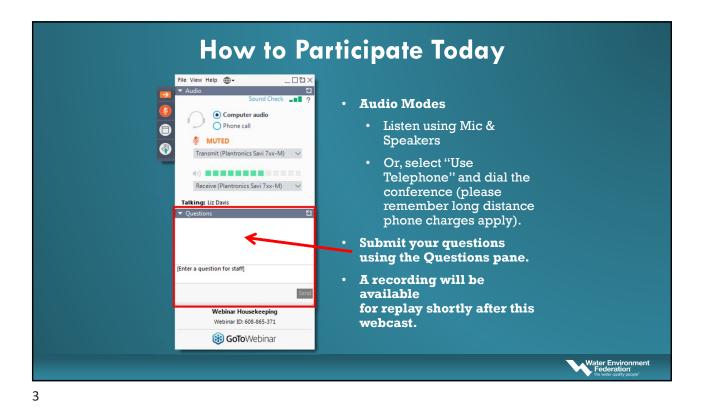




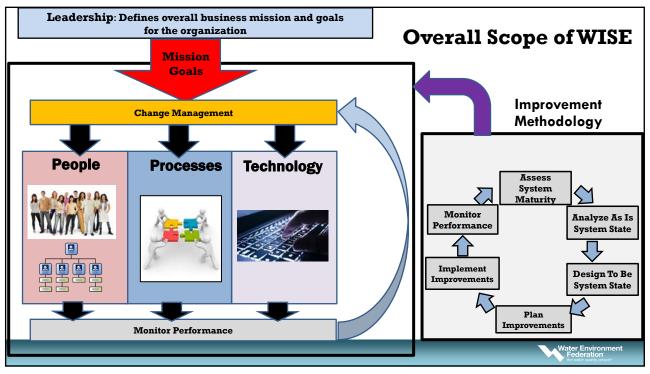
Water Environr

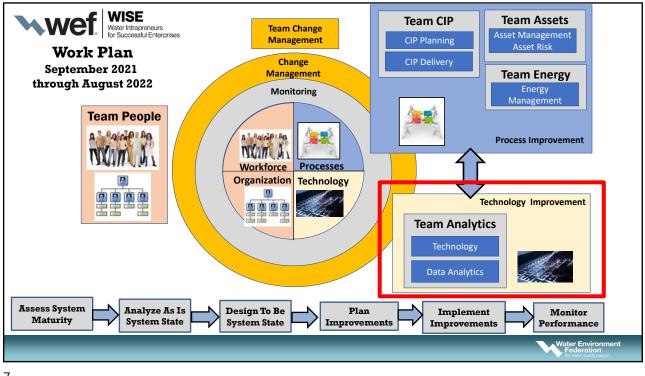


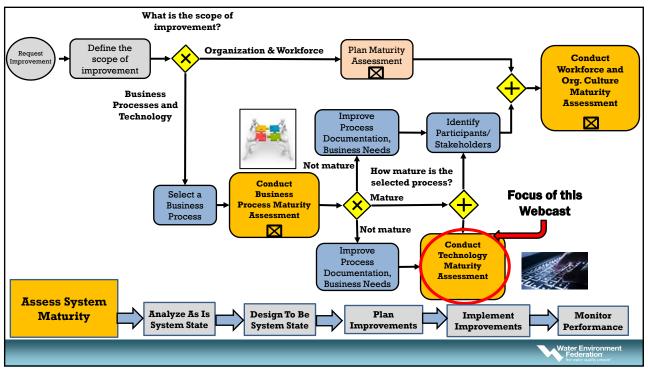


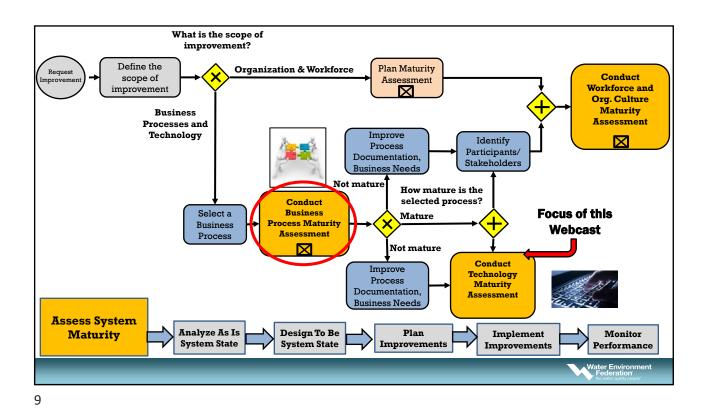


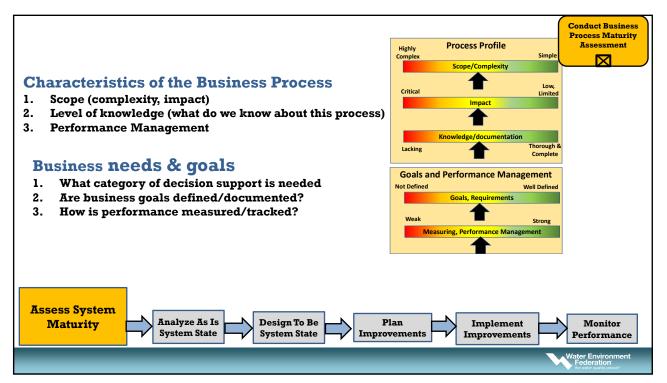


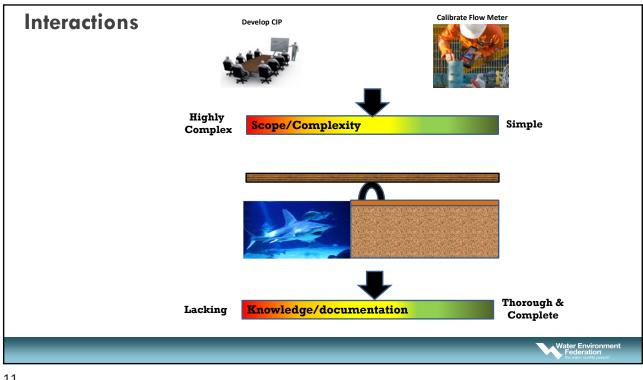




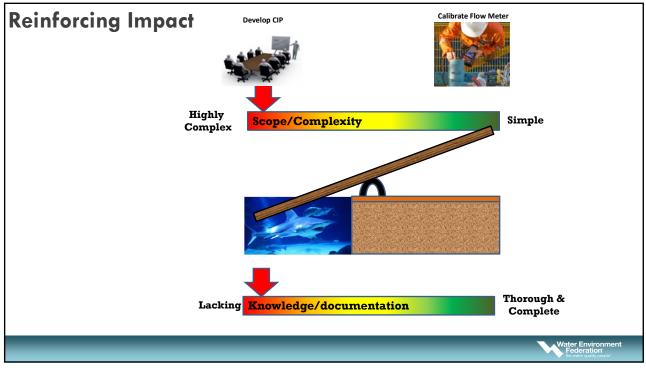


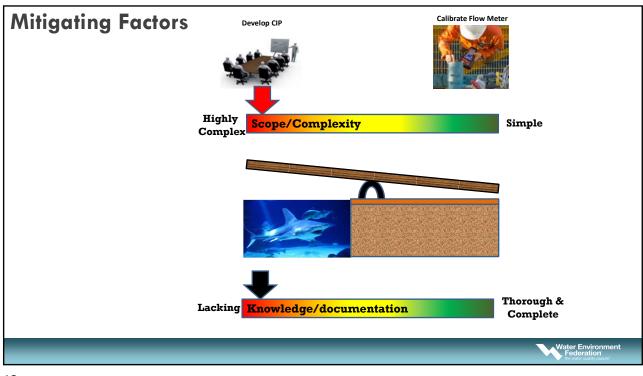




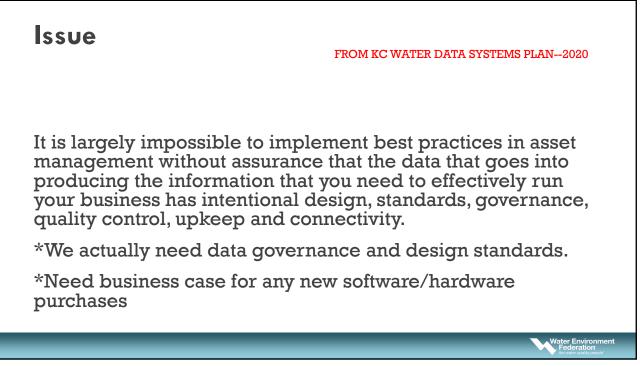












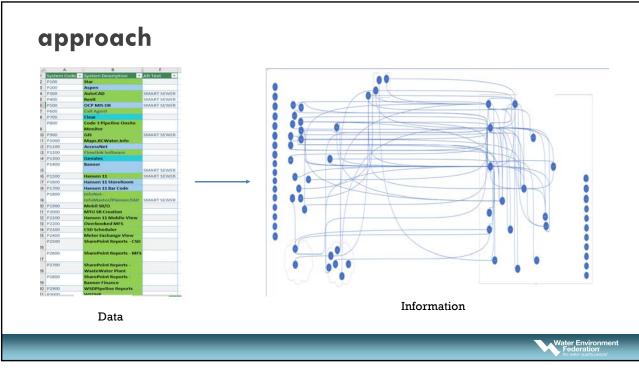
Problem statements

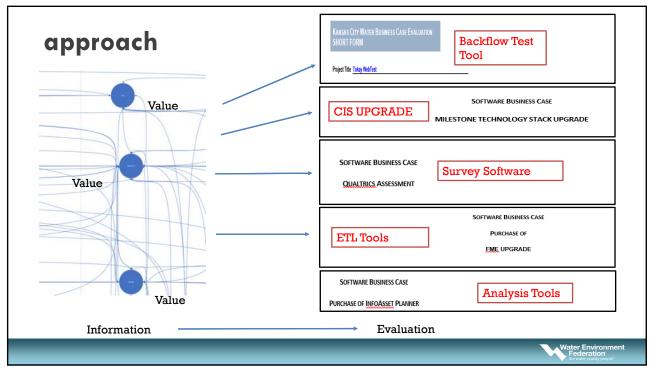
- Work order and asset management systems developed in a discombobulated, uncoordinated way
- Several core systems are not modern and in need of updating, particularly (CMMS, CIS, AMI, SCADA – Water).
- An acceleration of new systems that we are being asked to support (BIM, Zonescan, Opti, Smart Sensor Network
- Inconsistencies in data and more work for our staff to accommodate those requirements. This leads to different outcomes when we try to use the data to support decisions.
- A lot of interfaces are not clean, which causes issues when updates or patches are necessary. We also need more staff as the systems get more complicated.
- A lot of tools were uniquely built to accommodate one person/process, which has led to a lot of customization in the tools that have been built.



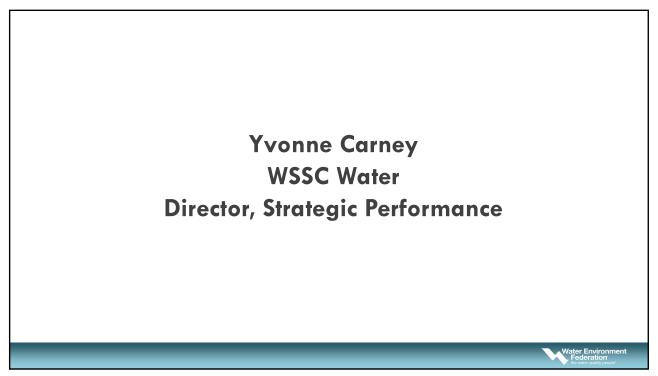
Water Environment

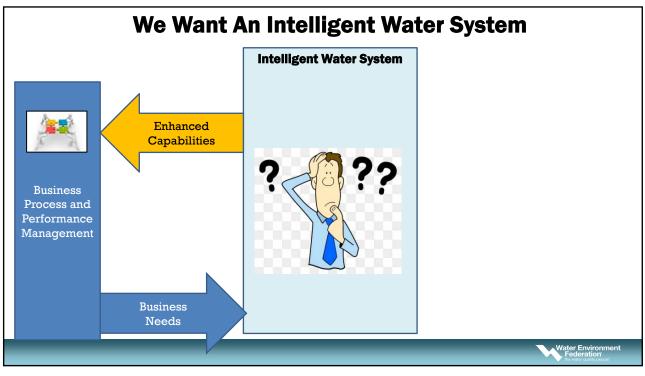


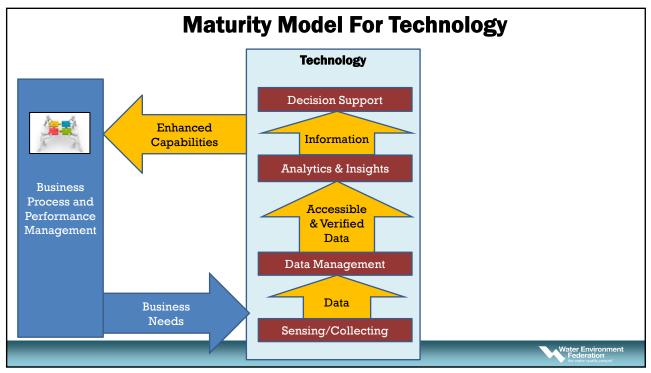


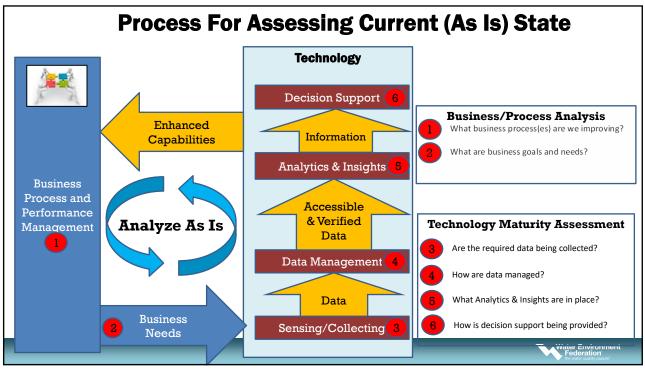


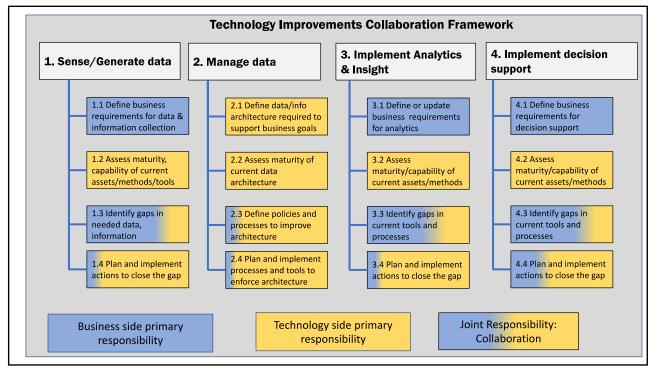


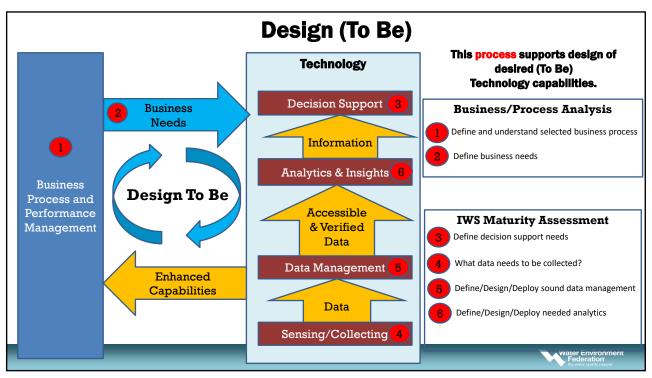


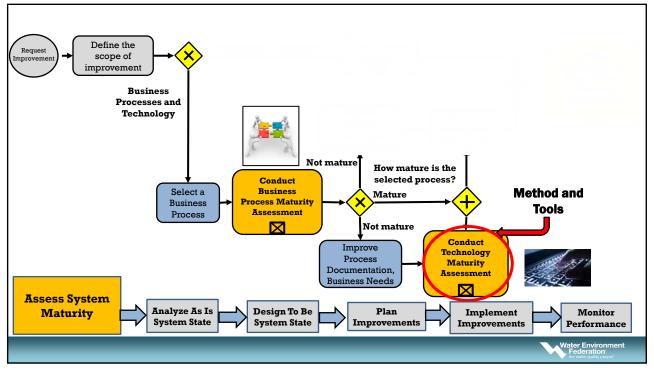


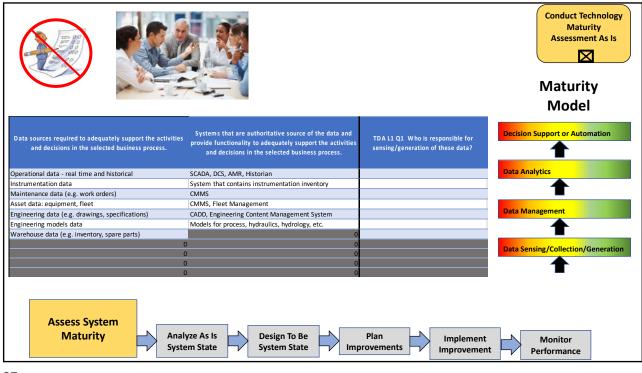


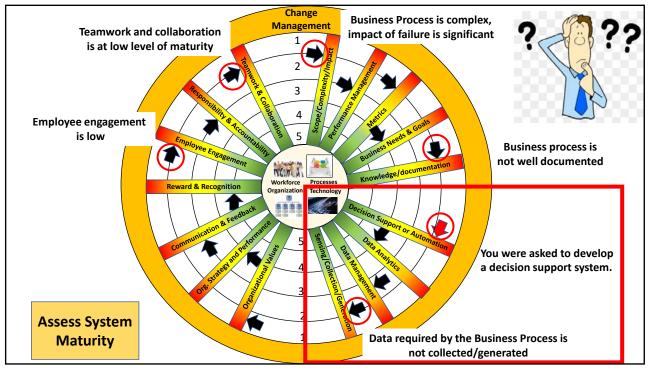






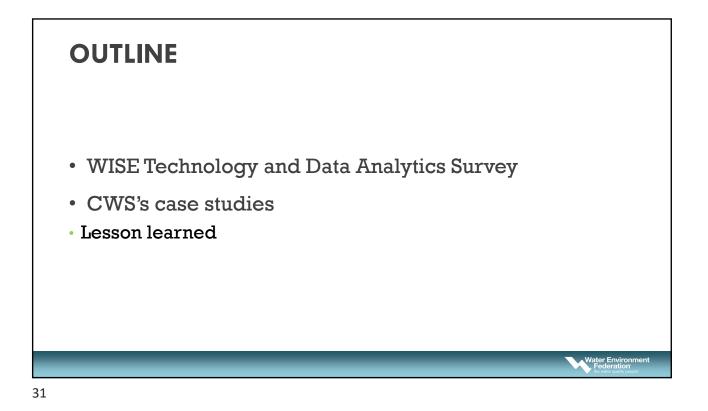


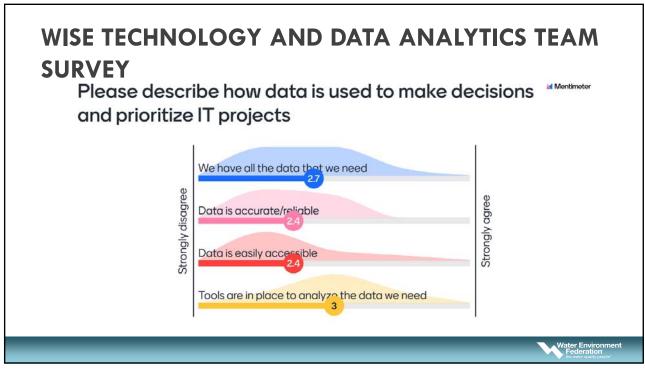


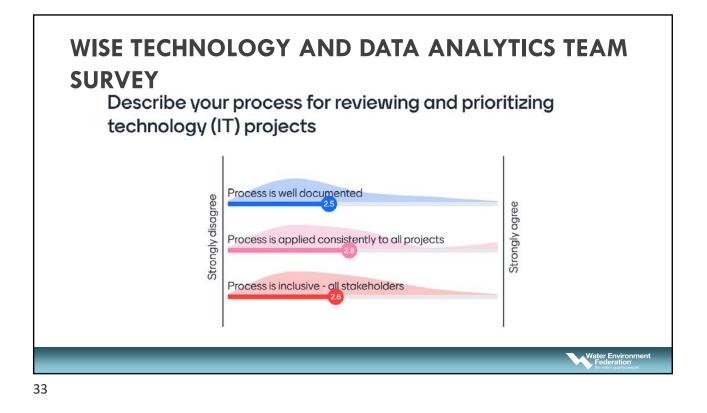


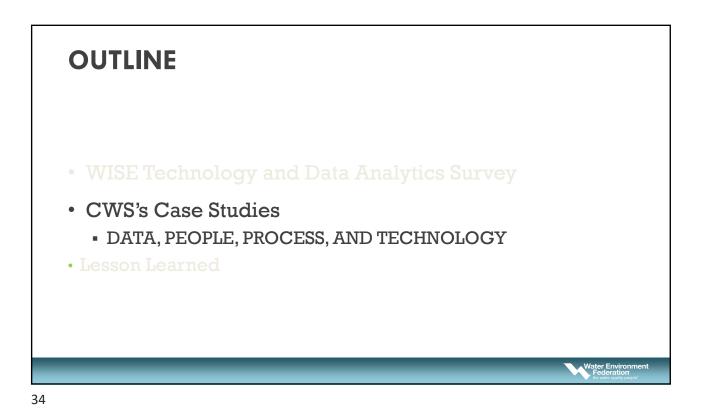
Ting Lu Clean Water Services Business Practice Leader, Digital Solutions









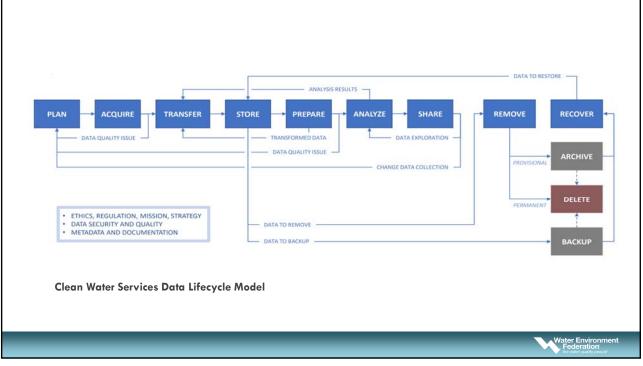


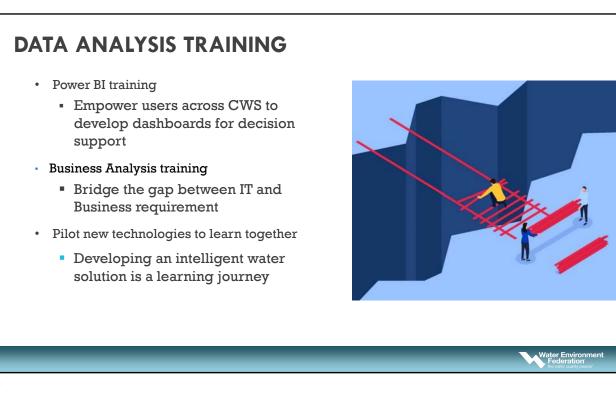
DATA MANAGEMENT HUB

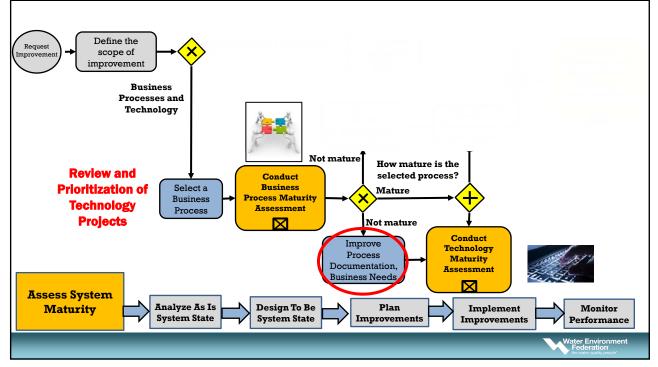
- Bring awareness of data as an asset and uncovers dark data
- Create best practices for data management
- Develop a community of data management experts and users
- Foster data-driven culture to support informed decision makings

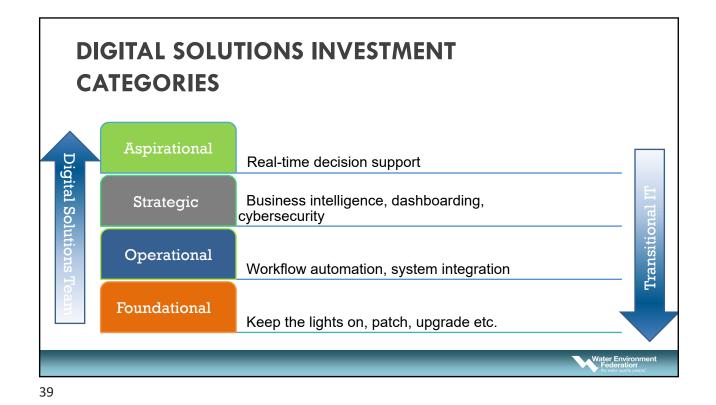


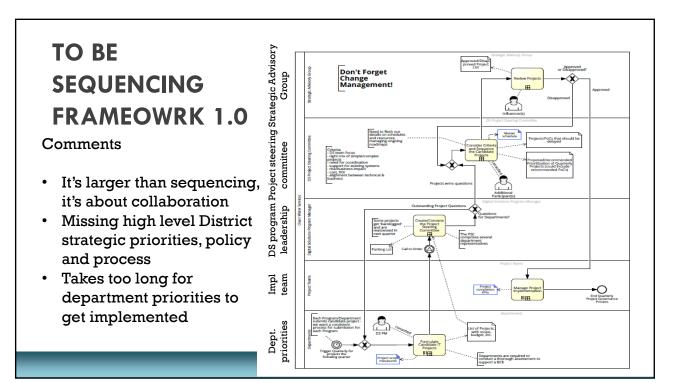
Water Environment











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