



Advanced Asset Management BOA

Engineering and Construction Department

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Strategic Plan for Our Smart One Water Future



Vision

In every home, in every business, we make everything possible by ensuring access to dependable and safe water for everyday life.

Smart One Water Mission

WSSC Water ensures all communities thrive by ethically delivering safe, reliable and sustainable water and wastewater services.

Promise

Continue the legacy of treasuring our water, customers and employees through dedicated service for current and future generations.

Values

Just. Accountable. Caring.
Community-Focused. Excellent. Trustworthy.



34 Objectives to Navigate Team H₂O to Our Smart One Water Future 2

Strategic Planning Efforts and Initiatives



Program Team

WSSC Water Asset Management Program Team



Engineering & Construction

- Planning Team (AMD, EESD, Planning)
- Project Delivery Team (PDD, PCD, FDCD)
- Economic Development Team (DSD, RSD)

Production

Utility Services

General Services

Operational Reliability and Resilience

Police and Homeland Security

County Staff

4

Team Members:

Engineering & Construction

- Planning Team
 - Asset Management Division (AMD)
 - Engineering & Environmental Services Division (EESD)
 - Planning Division (Planning)
- Project Delivery Team
 - Pipeline Design Division (PDD)
 - Pipeline Construction Division (PCD)
 - Facility Design & Construction Division (FDCD)
- Economic Development Team

- Development Services Division (DSD)
- Regulatory Services Division (RSD)

Production

Utility Services

General Services

Operational Reliability and Resilience

Police and Homeland Security

County Staff



Agenda

1. Program Overview
2. Goals and Objectives
3. Scope of Work
4. Keys to Success
5. Questions



Program Overview

Overview of Current Program

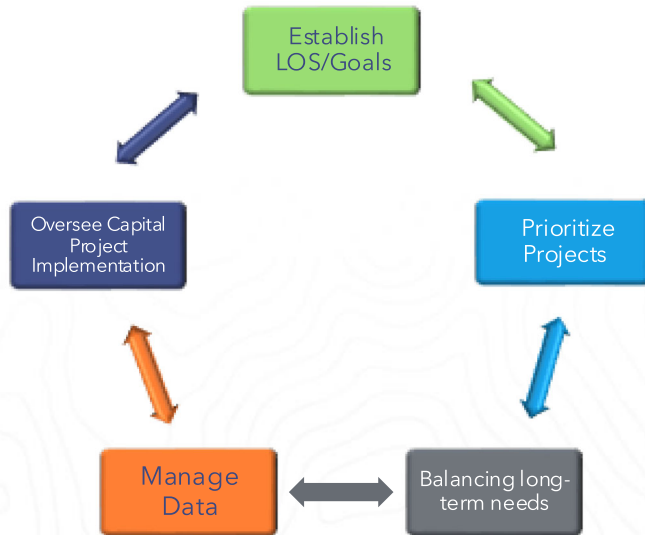


The Asset Management Division is responsible for the development and implementation of enterprise asset management strategies to strengthen current asset management practices and develop and identify future infrastructure needs:

- Minimizing the lifecycle cost of infrastructure assets and business risk exposure while meeting LOS goals.
- Sustain infrastructure assets to continue delivering the highest level of reliable and resilient water and wastewater service.
- Optimize decision-making processes.

Level of Service (LOS)

The Case for Change - Where We are Going



The Case for Change - Where We are Going (cont'd)



Asset management recommendations will be part of the System-Wide Master Planning, which will drive the CIP.

- **Establishing system performance and level of service goals**

- Establishing water and sewer replacement goals and facilities upgrade goals based on the LOS.
- Prioritizing all projects and bundling them in Programs that align with the water and sewer replacement goals and facilities upgrade goals.

- **Support operational efficiency efforts within Engineering and Construction**

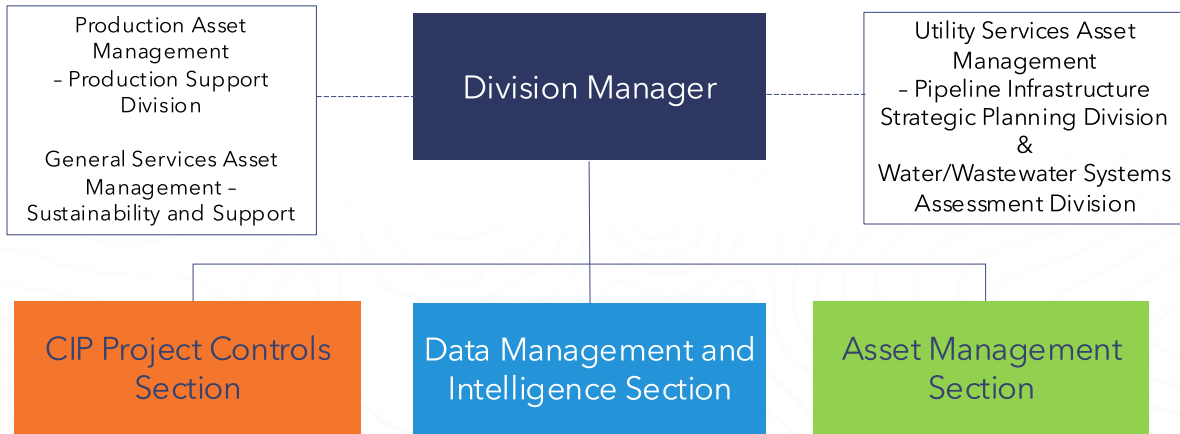
- Overseeing Engineering and Construction Data Management Needs by providing Data Governance and Software System support.
- Utilize AI and ML to enhance Planning and Asset Management efforts.

The Case for Change - Where We are Going (cont'd)



- **Overseeing the implementation and execution of the CIP (Project Controls)**
 - Balancing CIP asset renewals against operations optimization and innovative approaches to extend the assets' life cycle; working with Production, Utility Services Department, and the newly formed Department of Operational Reliability and Resilience
 - Balancing CIP asset renewals against projected long-term system needs; working with the Planning Division as they model future needs, and working with FDCD as they develop facility plans

Proposed Organizational Structure





Goals and Objectives

Goals and Objectives

WHAT:

Improve the alignment of our Smart One Water Utility efforts by refining our asset management framework to better meet our business needs and achieve financial efficiency, optimizing the life cycle of our assets.



Goals and Objectives

HOW:

- Collaborate with all WSSC Departments to enhance the maturity level of WSSC's Asset Management Program through comprehensive frameworks outlined in a Strategic Asset Management Plan.
- Revise the Asset Management policy and risk framework to refresh the enterprise asset portfolio and hierarchy. This includes expanding and redefining the asset definitions and risk calculations.
- Integrate ongoing initiatives (AMPs, Master Planning, Strategic Priorities, etc.) into our asset management performance reporting framework.
- Expand the capabilities of AMD to encompass roles in Capital Improvement Program controls and data management.

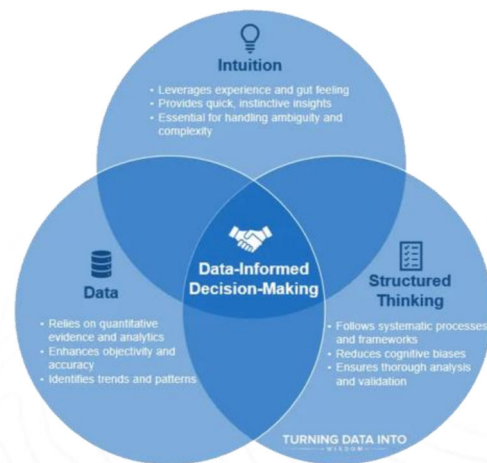


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Goals and Objectives

WHY:

- Utilize our data systems and information streams to enhance decision-making that is informed by data.
- This approach meets or exceeds regulatory requirements and mitigates Business Risk Exposure (BRE) associated with health and safety concerns while simultaneously identifying opportunities for improved operational efficiency.
- We will achieve this by implementing strategic plans, policies, and initiatives that address environmental challenges and climate change, emphasizing equity.
- Our objective is to achieve the existing Level of Service (LOS) standards while simultaneously preparing the system to meet the future Target LOS required for enhanced operational sustainability and reliability.





Scope of Work

Institute of Asset Management Programs Framework

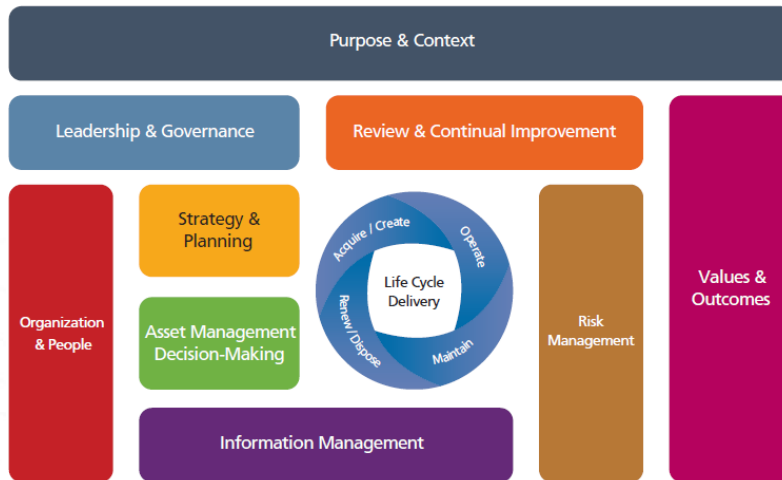


Figure 4: The IAM's 10-box Capabilities Model

Scope of Work - Functional Areas



The Consultant shall provide professional services to support the WSSC Water AMP in the following functional areas:

1. Asset Management Support
2. Level of Service
3. Asset Lifecycle Cost
4. Advanced Asset Management Plans & Integration with Master Plans
5. Business Risk Exposure
6. Infrastructure Funding and Investment Requirements
7. Data Analytics and Optimization Modeling
8. Operations and Maintenance
9. Capital Improvements Program Controls
10. Staff Augmentation



Keys to a Successful Proposal

Keys to a Successful Proposal

- Explain in detail how to unite activities into programs, driving us toward our goals and initiatives for the growth and expansion of the Asset Management Program (AMP), as outlined in our current Strategic Plan documents.
- Submit documentation demonstrating how the Team Lead has effectively addressed comparable business needs in their respective fields of expertise in the ten functional areas within the past seven years.
- Effectively showcase how your team will work with the WSSC Water AMP to realize a compelling maturity progression vision for the future, providing a clear implementation strategy to support this.



Questions?

Submit your questions to askprocurement@wsscwater.com

For past event's presentations and sign in sheets, visit www.wsscwater.com/work-us/procurement/outreach-events