

Community of Practice Webinar 17:

Asset Management Improvement Planning Guide - Launch

In partnership with





What is Asset Management?



Meet a required **level of service**, in the most **cost-effective** manner, through the management of assets for **present and future customers**













What are levels of service?



Describe the outcomes that customers can expect from the service. Justify the funding necessary to deliver service.

Service parameters

Quality, Quantity, Accessibility, Reliability, Affordability, Efficiency...

Objective

• Provide safe drinking water

Performance measure

 % of water quality tests that meet drinking water standards

Target

• 100%

Why is Asset Management important?



Ensuring the right assets, are in the right place, at the right time, managed by the right people.

- What are the required levels of service and performance?
- How will demand for this change over time?
- What is the current state of the assets?
- Are they capable of meeting demands now and in the future?
- What are the risks that the assets may not meet requirements?
- What are the best strategies for O&M, renewal, and upgrade?
- How much will providing the service cost over the long term?



Benefits of asset management



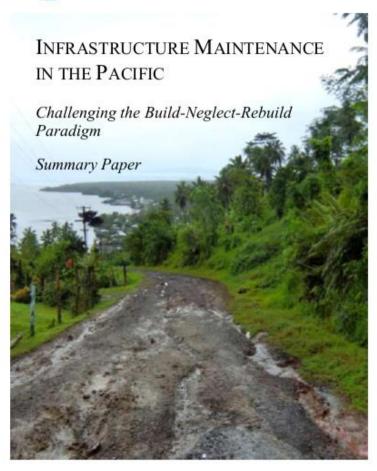
- Making more effective and sustainable decisions for infrastructure.
- Improving customer service and satisfaction,
- Improving financial efficiency,
- Demonstrating strong governance, and
- Effectively managing risks.

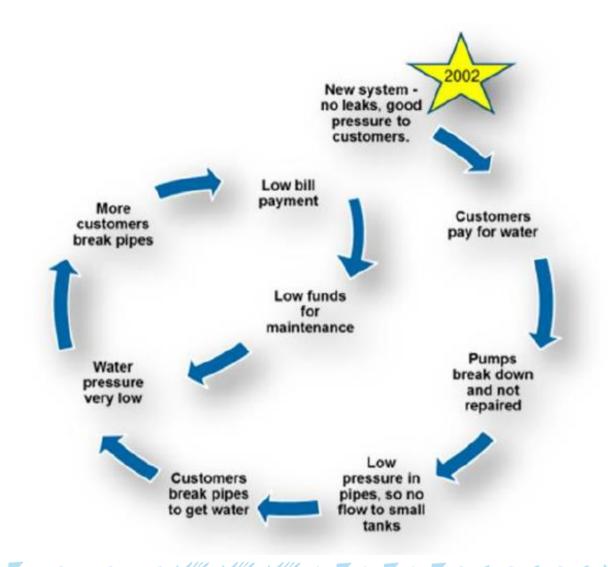


Avoiding the "build-neglect-rebuild" cycle









What does good AM look like for Samoa Water Authority?

Planning and Constructing New Infrastructure to cater for Demand and Population Growth





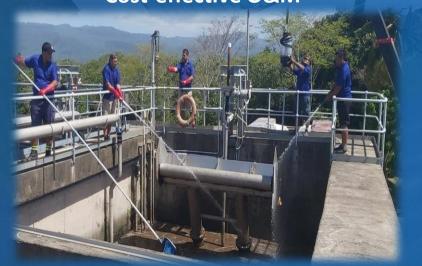
Excellent Service Delivery and Customer Satisfaction





Acceptable Water Quality (incl Treated WW)

Cost-effective O&M





Asset Management Training



2023 Training Program Participants



30 participants 5 water utilities across four countries.











Clean Water & Sanitation for a Better Life

2023 Training Program





30 Participants across 4 countries and 5 water utilities with targeted mentoring and development of AMMA and AM improvement plans.

Facilitated Online Training

AM 101 - Introduction to Asset Management

CC 101 - Climate Change

AM 202 - Understanding Requirements

AM 203 - Lifecycle Planning

AM 204 - Asset Management Enablers



FOCUS on Asset Management Maturity (AM 308)

2024 Training Program Participants



30 participants 12 water utilities across eight countries



2024 Training Program





Online Training (self-paced)

AM 101 Introduction to
Asset Management
CC 101 - Climate
Change

Facilitated Online Training

AM 202 - Understanding Requirements

AM 203 - Lifecycle Planning

AM 204 - Asset Management Enablers

FOCUS on Levels of Service (AM 431)



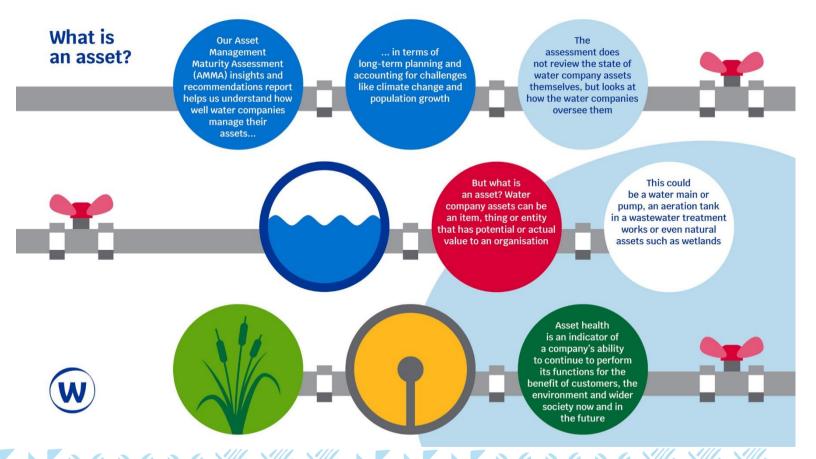
Guide to Asset Management Improvement Planning

Why assess asset management maturity? UK



"Need to secure resilient water services, but first we need to assess where water companies are now, so that can find out where improvements are needed." Ofwat UK





Why assess asset management maturity? NZ



The biggest single challenge in the infrastructure sector may be the cost of repairing or replacing infrastructure that's wearing out.

NZ Infrastructure Commission, November 2024

Third of Wellington's most critical drinking water pipes in poor condition







Taking care of tomorrow today

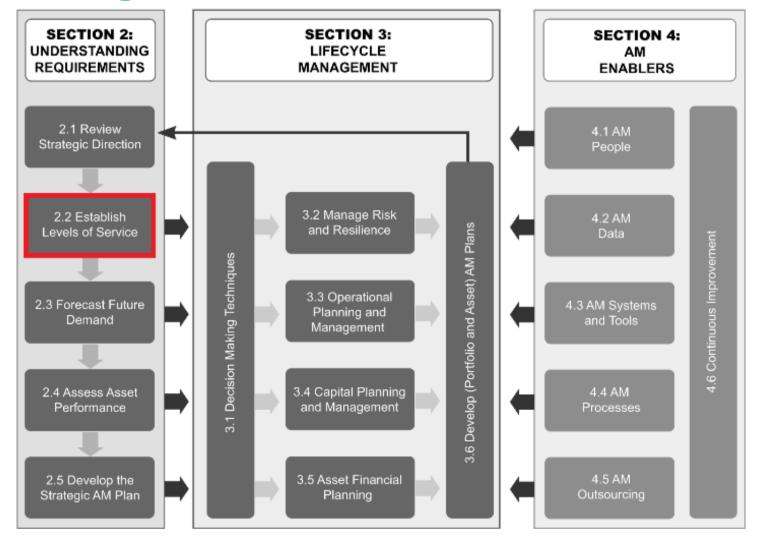
Asset Management State of Play

November 2024

TeWaihanga.govt.nz

Asset Management Framework







https://apopo.co.nz/product/asset-management-maturity-assessment-tool-xlsx

Assessing Asset Management Maturity



Maturity Level	Generic Description				
Aware (0-20)	The organization demonstrates an awareness of this element of asset management planning.				
Basic (21-40)	The organization has a basic level of understanding of this element, this may include the existence of a repeatable process.				
Core (41-60)	The organization has a moderate level of understanding and applying this element, this is likely to include the existence of well-defined and repeatable processes.				
Intermediate (61-80)	The organization has an intermediate level of understanding and applying this element. The organization is managing this aspect with well-defined and repeatable processes.				
Advanced (81-100)	The organization has an advanced level of understanding and applying this element. The organization has optimized their processes for managing this aspect.				

Assessment Tool

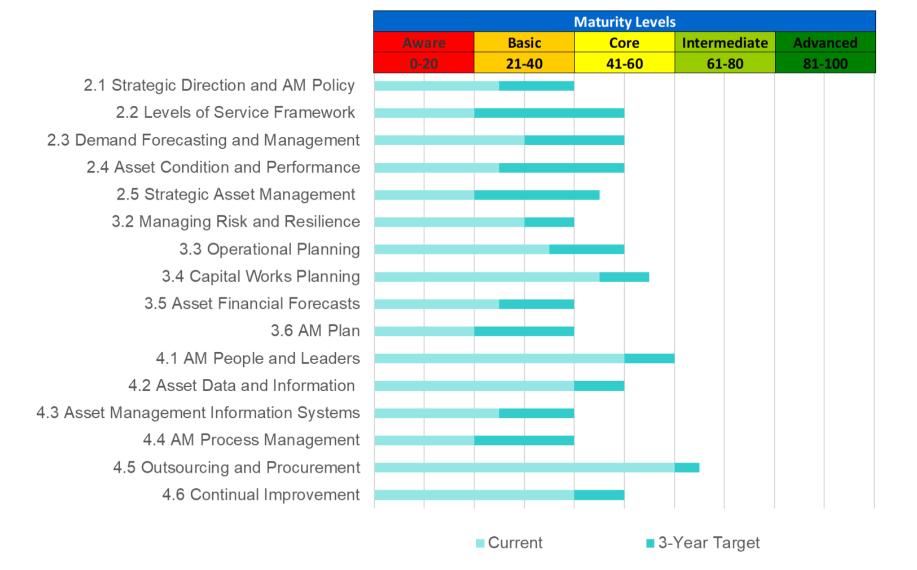


Section 3 Asset Management Maturity Assessment Tool (2020).			Maturity Levels							
	Portfolio:Water Supply	bly		Aware Basic		Core	Intermediate	Advanced	O)	ars
IIMM Ref	Section	Questions	Implications/ risks of not achieving appropriate maturity		21-40	41-60	61-80	81-100	Current Score	Appropriate Target in 3 years
		ning Requirements								
2.3 3	Demand Forecasting and Management	How well does your organisation: · forecast demand for its services? · assess the possible impact on its asset portfolios? · evaluate demand management options as part of its network and/or project analysis?	changes, possibly resulting in service shortages, demand constraints, unexpected funding requirements, reduced levels of service.	requirements generally understood but are not well documented (evident in responses to interview questions).	Demand forecast trends based on knowledgeable staff. Demand drivers are understood and described. Demand management strategies are being developed. Some basic demand information is being collected and monitored.	relevant primary demand factors (e.g. population growth) and extrapolation of historic demand trends. Demand forecasts are presented in the AMP with supporting assumptions. Risk associated with demand change are broadly understood and documented in the AMP. Strategies to manage demand (demand management strategies, asset-responses) are documented in the AMP. Demand management is considered in investment evaluations.	analysis of historic demand trends and all material demand factors. A range of demand scenarios is developed (e.g. high/medium/low) and presented in the AMP with supporting assumptions. Strategies to manage demand (demand management strategies, assetresponses) are documented in the AMP with supporting evidence that costs and benefits have been evaluated in determining the best strategy.	evaluated in determining the appropriate demand forecast	25	50

https://apopo.co.nz/product/asset-management-maturity-assessment-tool-xlsx/

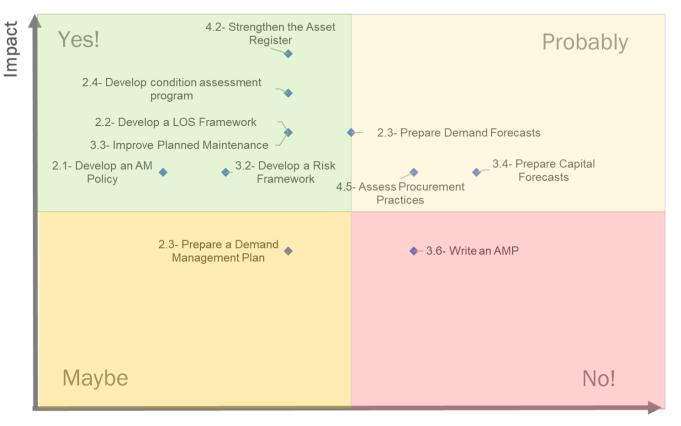
Developing a list of improvements





Developing an Improvement Plan











PRIF-PWWA Strengthening Asset Management Project 2023 Improvement Action - Update and embed AM Policy

IIMM Section

2.1 Analysing the Strategic Direction (AM Policy and Objectives)
Digital Badge https://apopo.co.nz/section/asset-management-strategic-direction/

Current status

SWA had an existing policy from 2001 which was deemed no longer relevant after review in 2023. A completely new AM Policy has been written, discussed and approved by Management. The AM Policy is now pending approval of the SWA Roard of Directors before rollout to the rest of the organisation.

Why is this improvement action important?

AM policy review and update needs to be priotised to show commitment of SWA to asset management (high-level buy in from Board and Management). Needs to delivered within this financial year. AM Team to lead with assistance from the Senior Policy Analyst and Legal. Inhouse work with options to get a consultant for external advice. The AM Policy will help to implement the actions in the AMPs). Everyone in the organisation needs to be aware of it. Everyone will benefit from having the AM policy in place (helps with SWA's financial sustainability). Also supports the AMP works.

Scope Description

The AM Policy was written as a very high-level document and in accordance to the ISO 55000 standards. The policy is two pages long and clearly states SWA's commitment to AM, including the responsible parties.

Risks of not doing this improvement

AMPs will not be used or even prioritised

Predecessors	Dependencies
	Critical for implementation of the AMPs and Masterplan but can be prepared in parallel (doesn't need to be completed before preparing AMP)
	nood to be completed botter opiopaling / min /

Project Team	Timeframe	Duration to complete	External Resource requirements
AM Team (yet to be recruited)	Within 1 Financial year		External Adviser/Consultant to provide guidance (TA ADB WASH project)
Start date	31/10/2023	Completion date	TBC

Project risks Internal commitments (months by staff Comments on staffing Limited human resources or SL Two weeks for internal staff member plus two

staff turnov er				weeks support from an external consultant			
ordin tumor di	0.5			under the ADB Pacific Wash program technica support.			
External cost estimate	Comments	Comments on cost including potential donors and linked donor projects					
	Funded under ADB Pacific Wash program technical support.						



We need to look after our existing assets better, as well as plan for, and build better, to improve access to safe drinking water in the future.





Pacific Region Infrastructure Facility

theprif.org