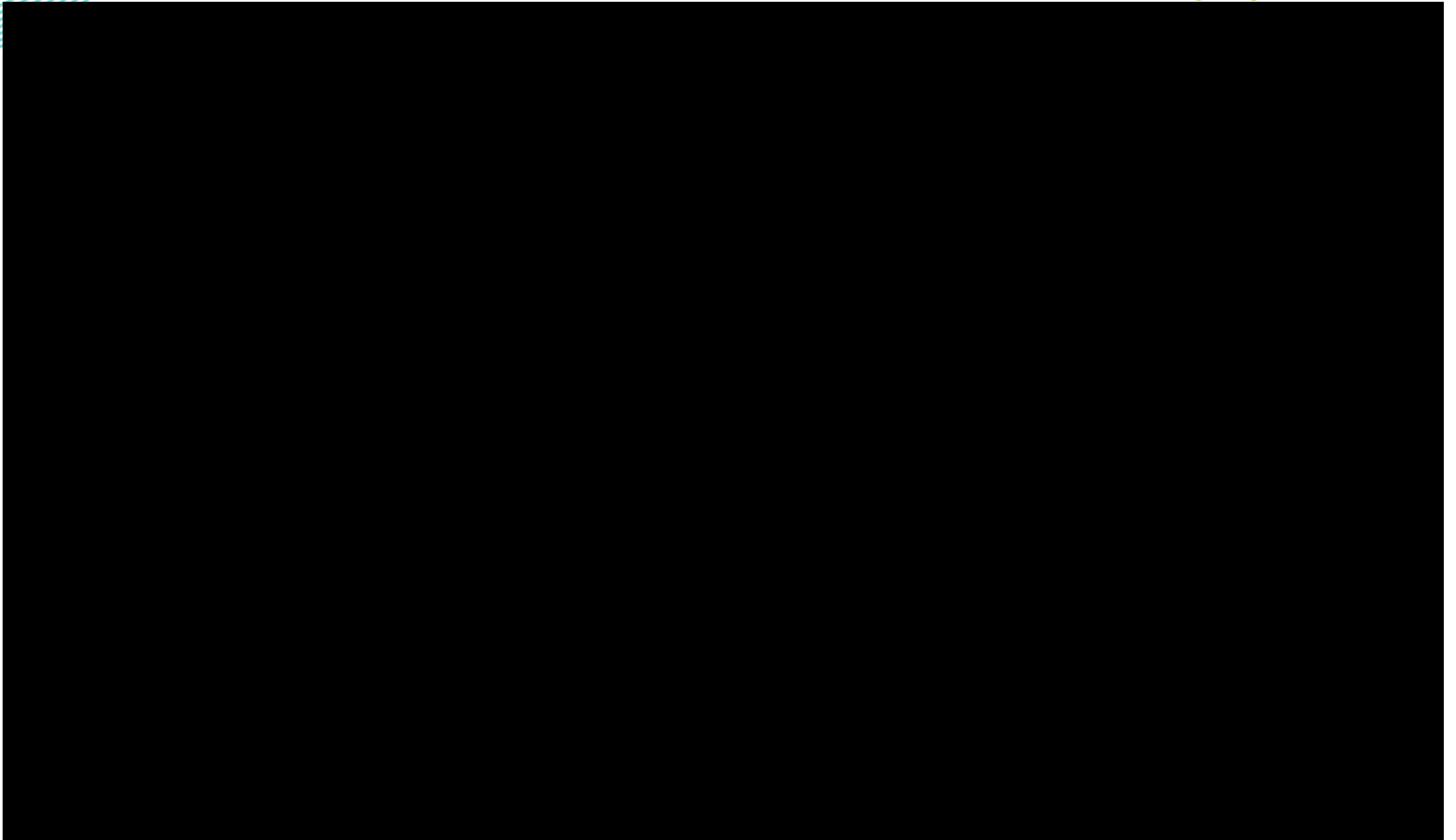
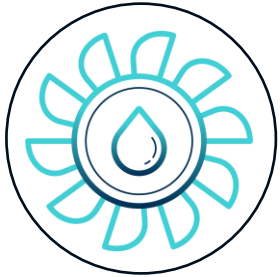


GETTING STARTED ON HYDRO TASMANIA'S ENTERPRISE PORTFOLIO AND PROJECT MANAGEMENT (EPPM) JOURNEY

Scott Geappen

Asset Initiatives Specialist





**Australia's largest generator of clean,
Renewable energy and the largest manager
of fresh water in Australia**



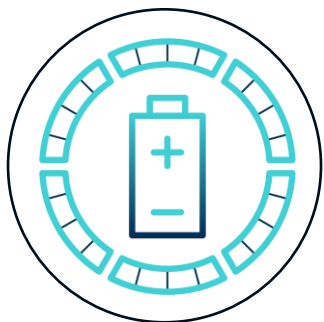
Operating for over 100 years



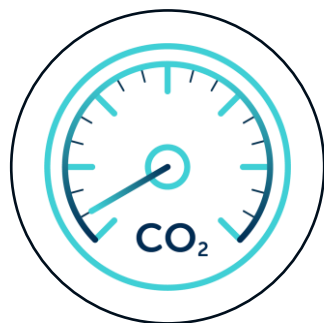
Undersea cable connects Tasmania to Victoria



Energy Market in Crisis



**A future of wind and solar backed
by batteries and hydro**



Circular Economy and the reduction of CO₂

OUR POWER STATIONS



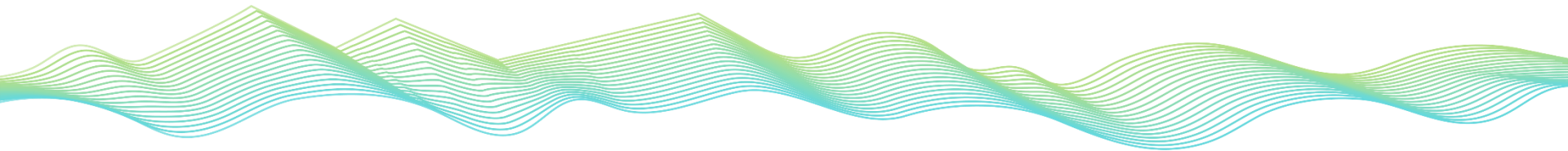
30 Power Stations

52 Generation Machines

54 Major Dams

**Thousands of kilometres
of waterways**

Catagunya



Mastering SAP November 2022



* Project Collaboration (Network)
** SAP Analytics Cloud

Portfolio Management

Portfolio Overview **

gain real-time cross-portfolio view, with insight capabilities to reduce need for drill-down. adopt filters to focus on strategic objectives / locations and other portfolio criteria

- Identify Business Opportunities
- Risk Assessment
- Rank Project Proposals **
- Budget Planning **
- Resource Requirements Planning **



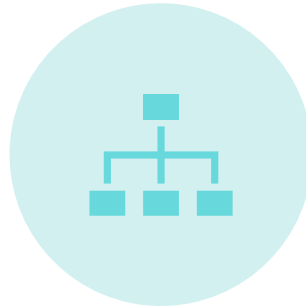
Where to start



Continuing our Asset Maturity journey



ASSET MANAGEMENT
PORTAL



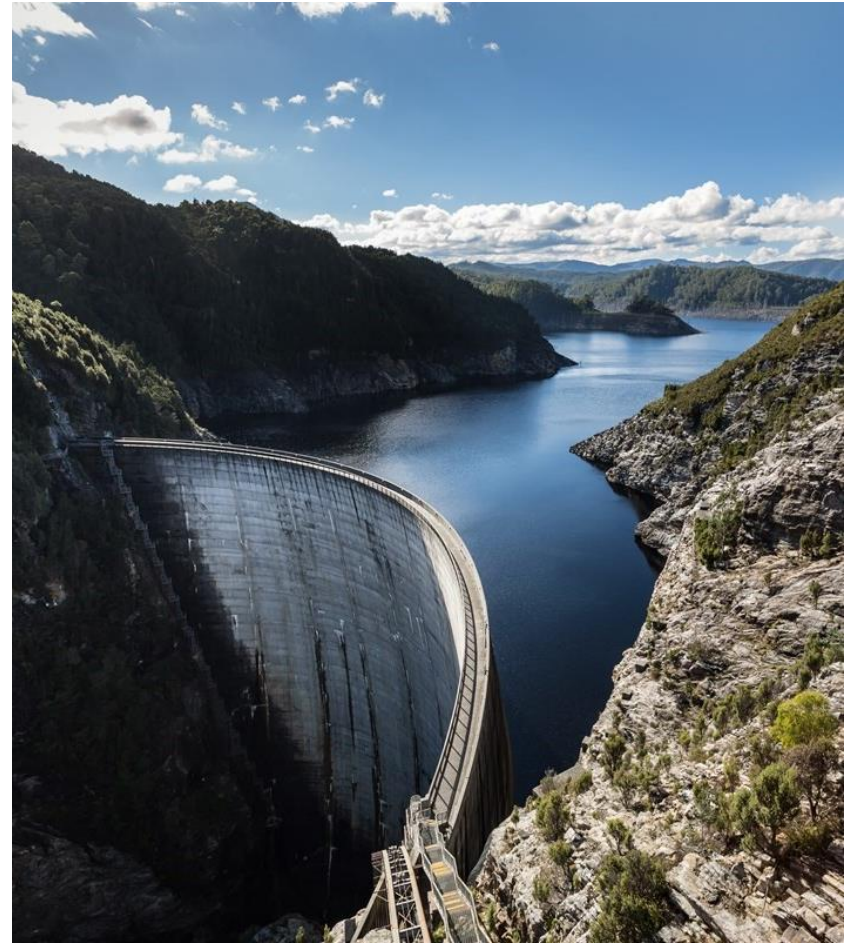
PORTFOLIO PROJECT
MANAGEMENT (PPM)



QUESTIONS AND
DISCUSSION



ASSET MANAGEMENT PORTAL





Asset Management System

[Admin](#)
[Strategy](#)
[Asset Planning](#)
[Maintenance Delivery](#)
[Project Delivery](#)
[Performance Monitoring](#)
[Operations](#)
[Asset Information](#)
[Risk Management](#)
[Stores & Procurement](#)
[Standard Work](#)
[...](#)
[Edit](#)

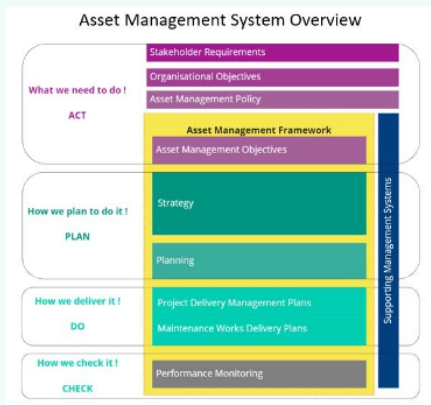
[+ New](#)
[Page details](#)
[Analytics](#)

Publ

Our Asset Management System provides the framework to enable us to deliver asset management activities, achieve our asset management objectives & ensure we return value from our assets to our Stakeholders.

Please use the tiles below to learn more about our Asset Management System and how it all works.

Follow the ribbon above to find & use processes, documents & links that make up our Asset Management System.



How does our Asset Management System work to realise value from our Assets?

Our Asset Management System has 4 parts as per the diagram on the left. These parts take the Business Objectives/ Requirements & place them into an Asset Management Framework for us to define the Asset Management requirements & deliver on these objectives.

[CLICK HERE TO LEARN MORE →](#)

ACT

What we need to do.

We utilise the feedback from our current performance (CHECK), along with direction from the overall business, to make decisions on our future Asset Management Strategies.



How does our AMS work to realise value?

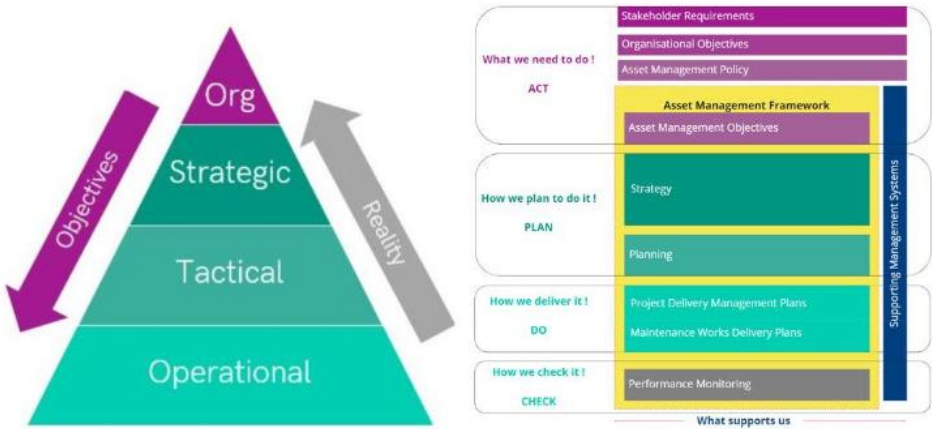
- What is Asset Management?
- What is an Asset Management System?

An Asset Management System is used to direct, coordinate and control the activities that realise value from assets.

The Asset Management System aligns asset decisions to corporate objectives and stakeholder expectations by providing a one-stop-shop for the policies, plans, business processes, documents and asset information systems that enable us to deliver asset management activities and achieve our asset management objectives.

The Hydro Tasmania AMS has been built to cover the elements of asset management in alignment with ISO 55001¹ and the [Global Forum on Maintenance and Asset Management \(GFMAM\)](#) & its [Landscape process groups \(6 of\)](#) which are further broken down into subject groups (39 of). Our Document or Links to the process that support our AMS utilise Metadata to define what Process Group & Subject Group they belong to within the Asset Management Landscape & the process owners which will allow for clear accountabilities & ability to audit easily.

Asset Management System Overview



- As per the diagrams overview above:
- the Asset Management System takes the Organisational Objectives (What we need to do - ACT),
 - which guide us in the creation of our Strategic Asset Management Objectives & Tactical Plans (How we plan to deliver our Asset Management Objectives - PLAN),
 - which are then detailed into Operational Delivery Plans (How we deliver the work - DO) &
 - the Reality is measured through Performance Monitoring (How we check the plan effectiveness & look for improvement - CHECK).

Delivering Asset Management



How does our AMS work to realise value?
Asset management is the coordinated activity of an organisation to realise value from...



PLAN - How we plan to realise value.
There are 2 major components that show how we plan to realise value. Strategic Asset...



DO - How we deliver Asset Management.
There are 2 ways that we deliver our Asset Management Activities. Maintenance Work Delivery Plans...



CHECK - How we monitor our progress.
Performance Monitoring is the way we check if we are meeting our Asset Management Objectives...



ACT - What we need to do?
We utilise the feedback from our current performance (CHECK), along with direction from the...



Asset Planning Processes

Here you will find links to the current Asset Planning processes utilised for Asset Management by Hydro Tasmania.

^ Develop Asset Class Strategies

Process

[Asset Class Strategies](#) are used to how show Hydro Tasmania will achieve the objectives for a specific asset class or an enabling strategy. They define asset sustainment requirements, performance expectations, life expectancies and operational risks by setting out detailed activities, resources, responsibilities, timescales & risks. They are maintained by the [Review & Update Asset Type Management Plans Process](#).

These need to include how the asset class will be managed through the asset lifecycle which includes design, procurement, operations and maintenance, the approach for capital replacements and upgrades over the asset's life cycle and retirement/ salvage.

Supporting Documents

Click a link ▾

[AB&I Business Calendar](#)

[AMS Business Linkage Diagram](#)

[AMS Framework](#)

[Asset Class Leads](#)

[Asset Class Strategy TEMPLATE](#)

[Asset Classification Standard GS-AM-320](#)

[Asset Management Documents Dashboard](#)

[Develop and Maintain Asset Type Management Plans Procedure](#)

[Electrical Protection Strategic Spares Audit](#)

[Electrical Strategic Spares Audit](#)

[hydroAMP Guide 2.0](#)

[Mechanical Strategic Spares Audit](#)

Links & Tools

Click a link ▾

[Asset Compliance Heatmap](#)

[Asset Reliability Overview](#)

[Environmental Management System \(EMS\)](#)

[SAP FLOC Classification Attribute Report](#)

[Water 2 Wire \(W2W\) Consolidated Results](#)

Asset Planning

Asset Planning Processes

Other Useful Links & Tools

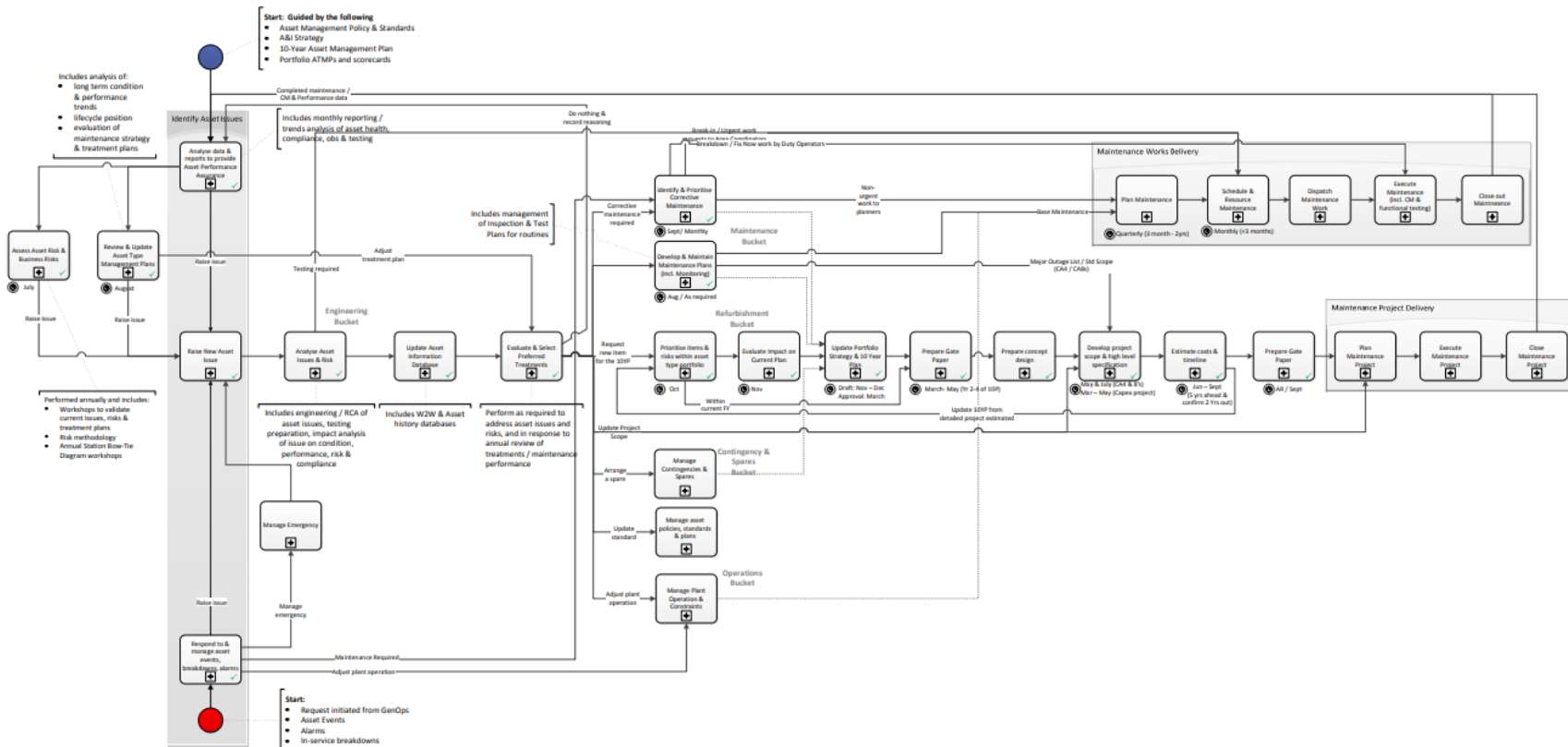
^ Asset Intervention Planning (10 Year Plan)

^ Determine Maintenance Requirements

^ Review & Update Long Term Outage Plan

^ Determine Resource Plans

Level 4 Process Map



Asset Information Definition for Decision Making, Document Management and Access/Interface System
Governance Reporting to A&I
Workforce Planning for 10-Year Plan Input to A&I Workforce Plan
Production Planning

How do we turn a framework into a process (& an IT solution)?

Mid-Level Process

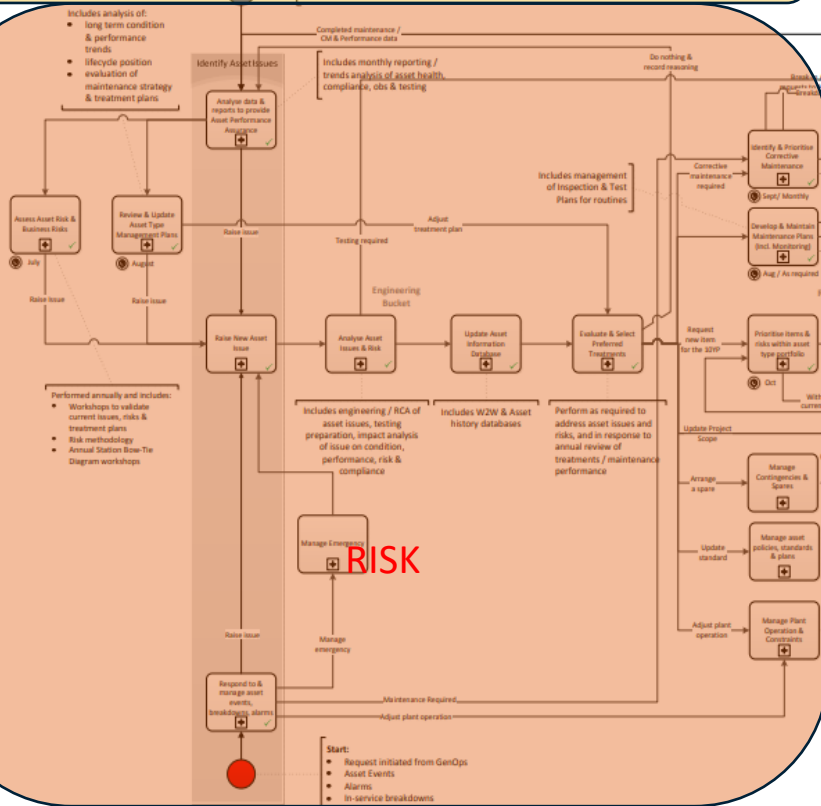


Asset Portfolio Management End to End Process

Level 4 Process Map

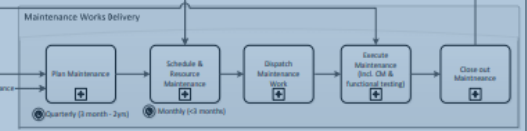
STRATEGY

- Start: Guided by the following
- Asset Management Policy & Standards
 - ABT Strategy
 - 10-Year Asset Management Plan
 - Portfolio ATPMs and scorecards

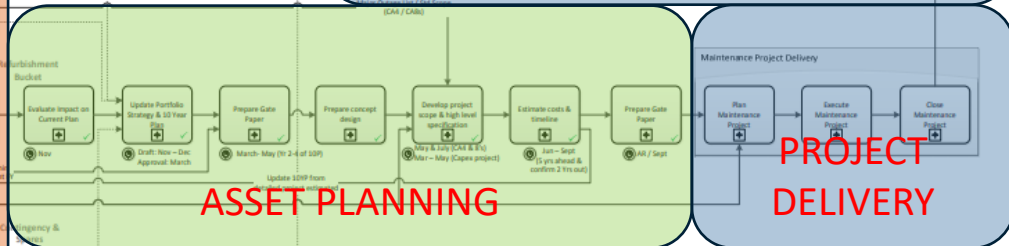


RISK

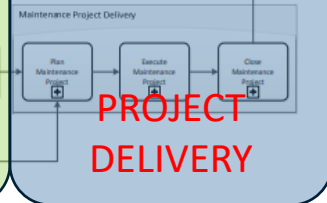
MAINTENANCE DELIVERY



ASSET PLANNING



PROJECT DELIVERY



**ASSET INFORMATION
PERFORMANCE MONITORING**

Asset Information Definition for Decision Making, Document Management and Access/Interface System

Governance Reporting to ABT

Workforce Planning for 10-Year Plan Input to ABT Workforce Plan

Production Planning

Asset Management Maturity over Time

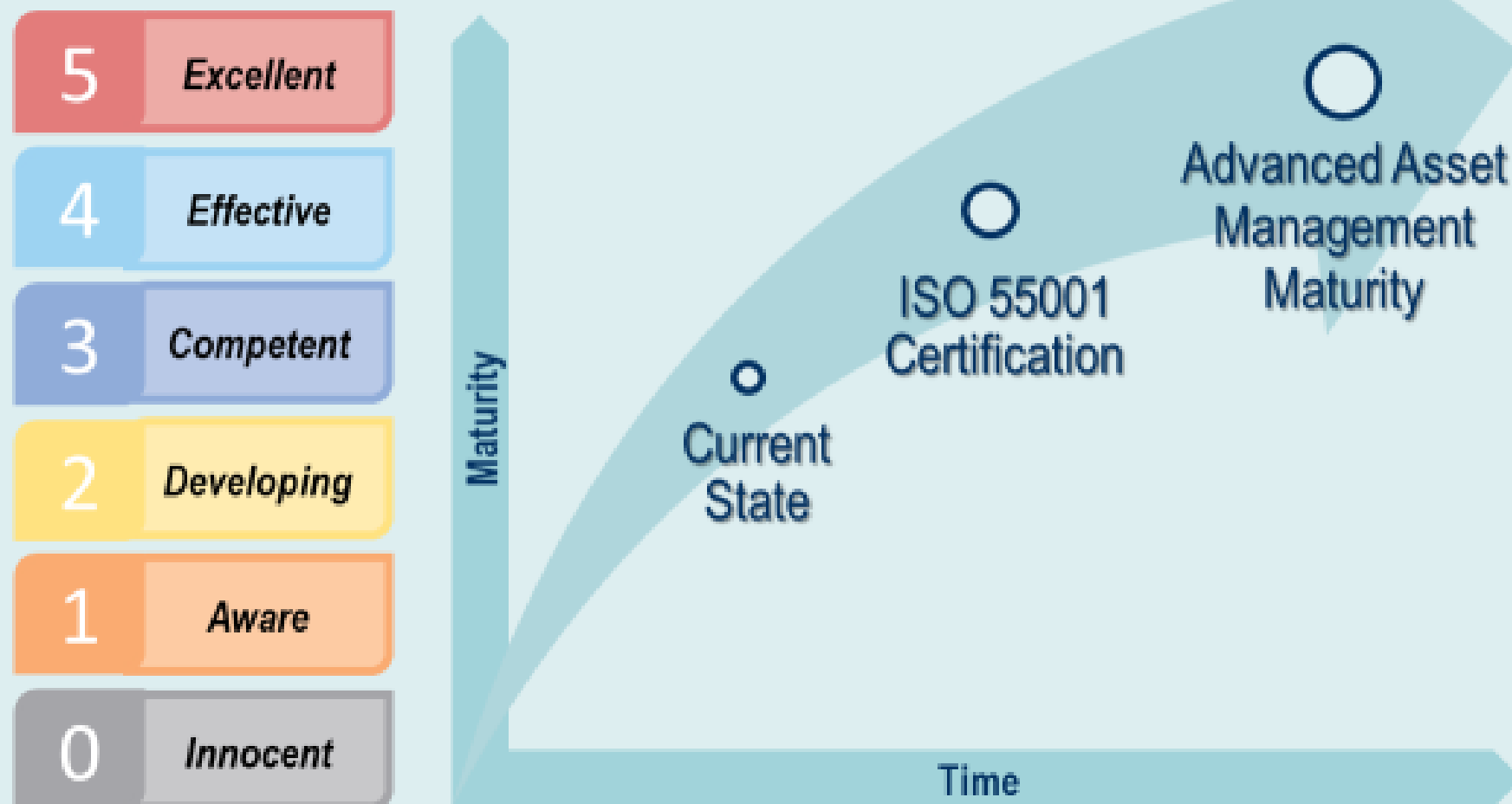


Figure 4 - Asset Management Maturity Journey



PORTFOLIO PROJECT MANAGEMENT (PPM)

Mastering SAP November 2022



* Project Collaboration (Network)
** SAP Analytics Cloud

Portfolio Management

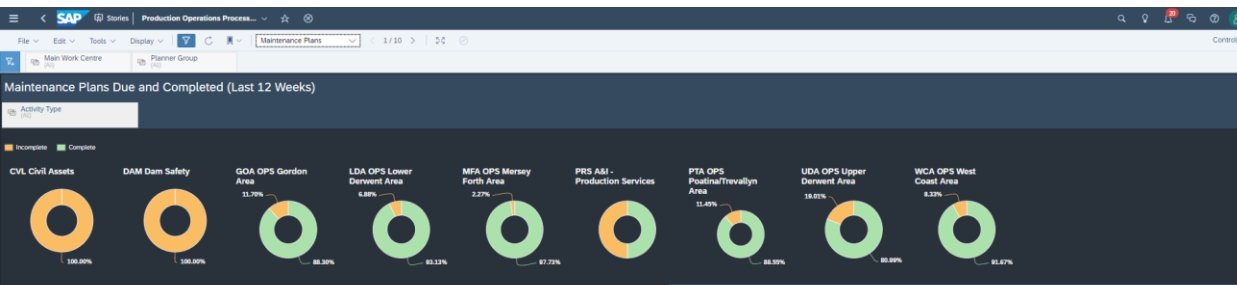
Portfolio Overview **

gain real-time cross-portfolio view, with insight capabilities to reduce need for drill-down. adopt filters to focus on strategic objectives / locations and other portfolio criteria

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- Risk Assessment
- Rank Project Proposals **
- Budget Planning **
- Resource Requirements Planning **

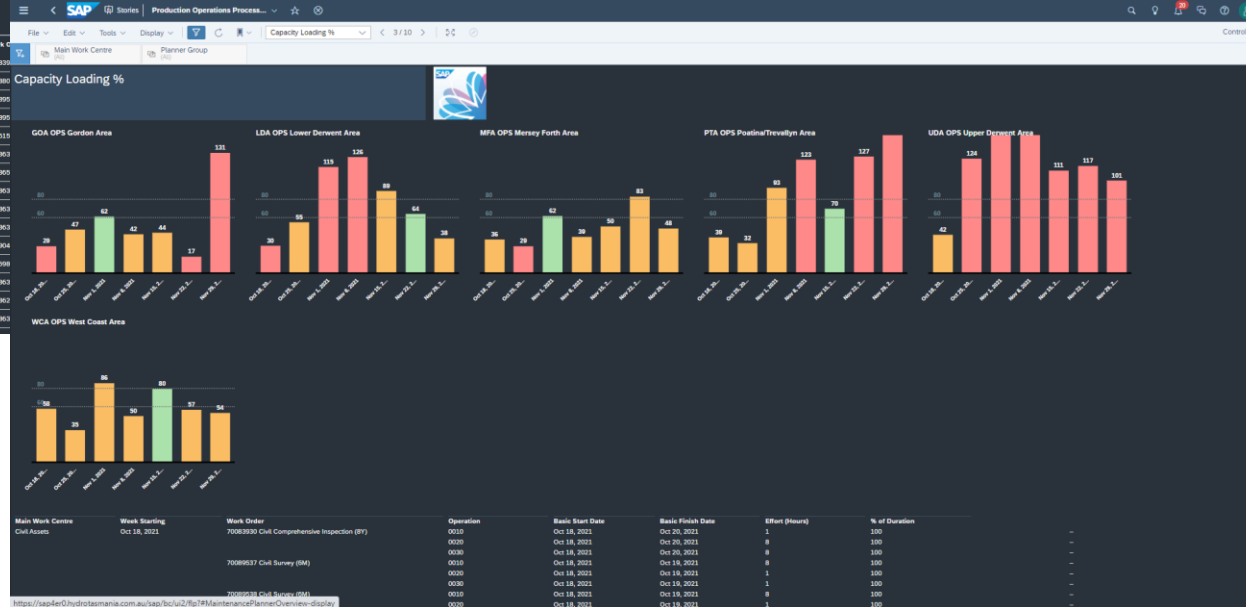


We have some dash boards

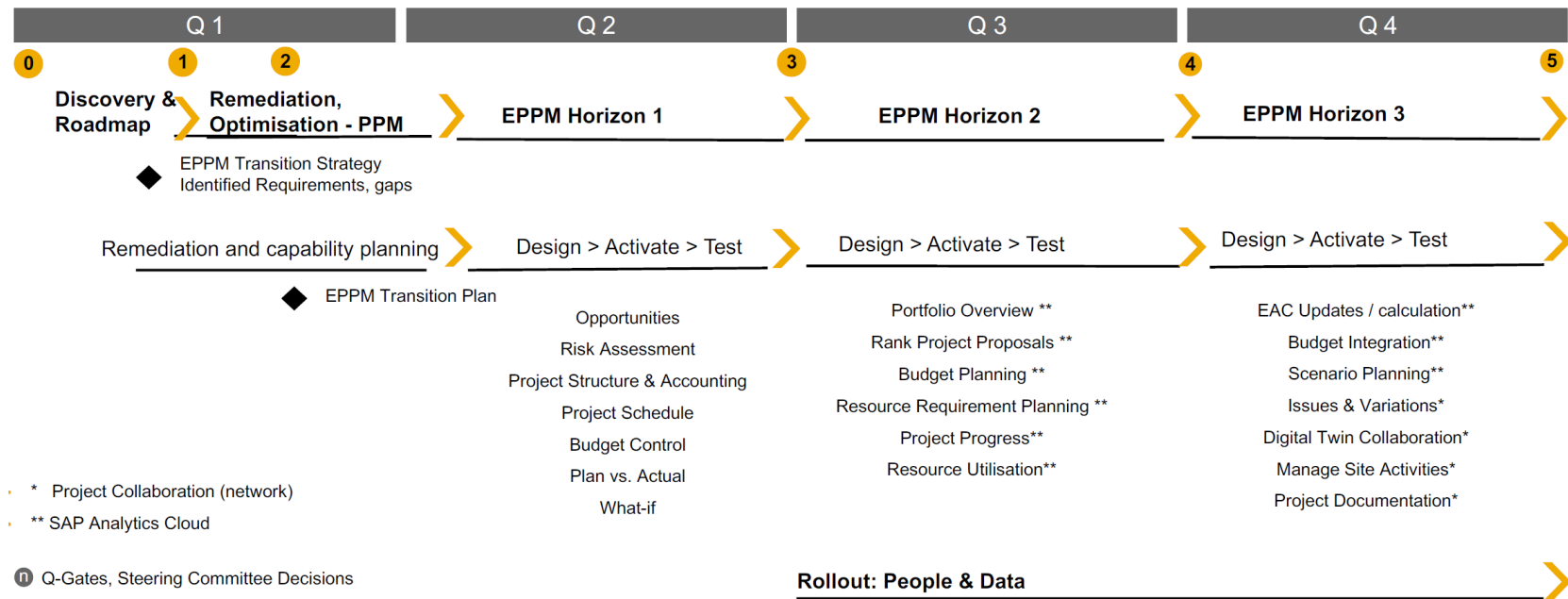


Production Operations - Maintenance Plans Completed

Main Work Centre	Planner Group	Location	Functional Location	Plan Date	Work Order
Civil Assets	Gen West	Lake Margaret Power Station	L.R.C.PK1 L.R.C.PK2	Oct 18, 2021	700836
	Gen Up/Down	Tasmanian Power Station	TA TA	Sep 20, 2021	700880
				Oct 18, 2021	700895
		Tungamah Power Station	TU TU	Oct 18, 2021	700895
Dam Safety	Gen Gordon	Gordon Power Station	GO-C-DAM D02 CD1 GO-C-DAM D02 CD1	Sep 1, 2021	700915
	Gen West	John Butters Power Station	JB-C-DAM D02 JB-C-DAM D02	Sep 1, 2021	700903
		Macdonald Power Station	MA-C-DAM D01 MA-C-DAM D01	Sep 1, 2021	700905
			MA-C-DAM D02 MA-C-DAM D02	Sep 1, 2021	700903
Gen Mersey		Roads Power Station	RC-C-DAM D01 RC-C-DAM D01	Aug 2, 2021	700963
		Cathana Power Station	CE-C-DAM D01 CE-C-DAM D01	Sep 1, 2021	700963
		Devil's Gate Power Station	DG-C-DAM D01 DG-C-DAM D01	Sep 1, 2021	700904
		Poulton Power Station	PO-C-DAM D02 PO-C-DAM D02	Oct 12, 2021	700998
Gen P/L		Trevallyn Power Station	TR-C-DAM D01 TR-C-DAM D01	Sep 1, 2021	700903
		Tasmanian Power Station	TA-C-DAM D07 TA-C-DAM D07	Sep 20, 2021	700903
		Tungamah Power Station	TU-C-DAM TU-C-DAM	Sep 1, 2021	700903



Overview of Proposed Program



Proposed Teams & Roles

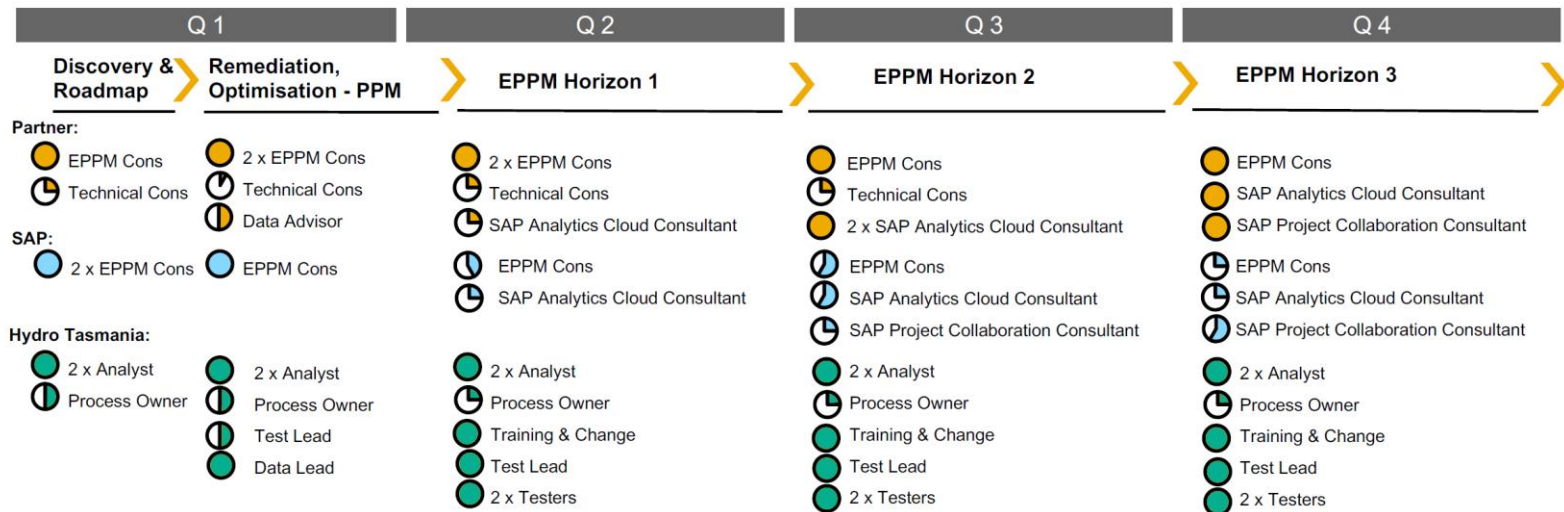
● Full Time ● Part Time

Project Management & Governance:

Hydro Tasmania:
 Project Manager
 Project Sponsor

Partner:
 Project Manager

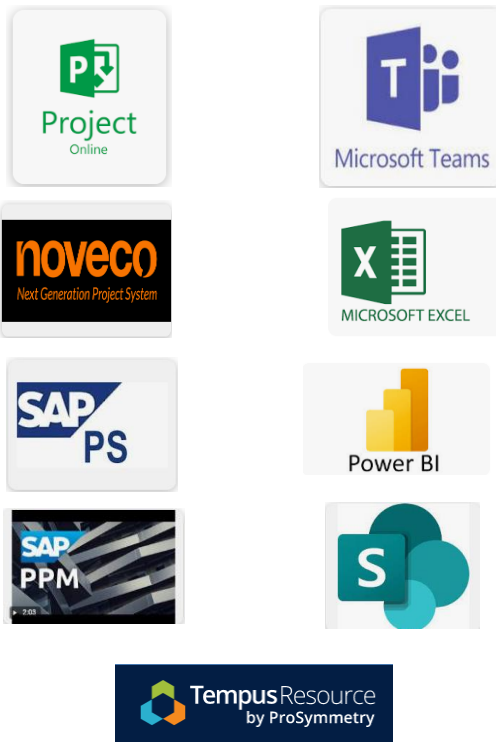
SAP:
 Project Manager



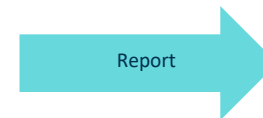
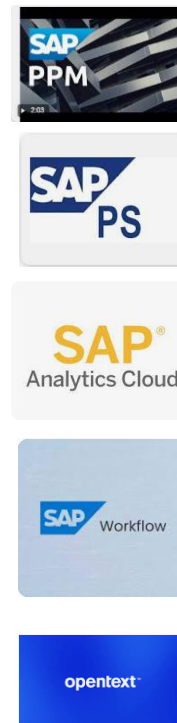
Reason for change



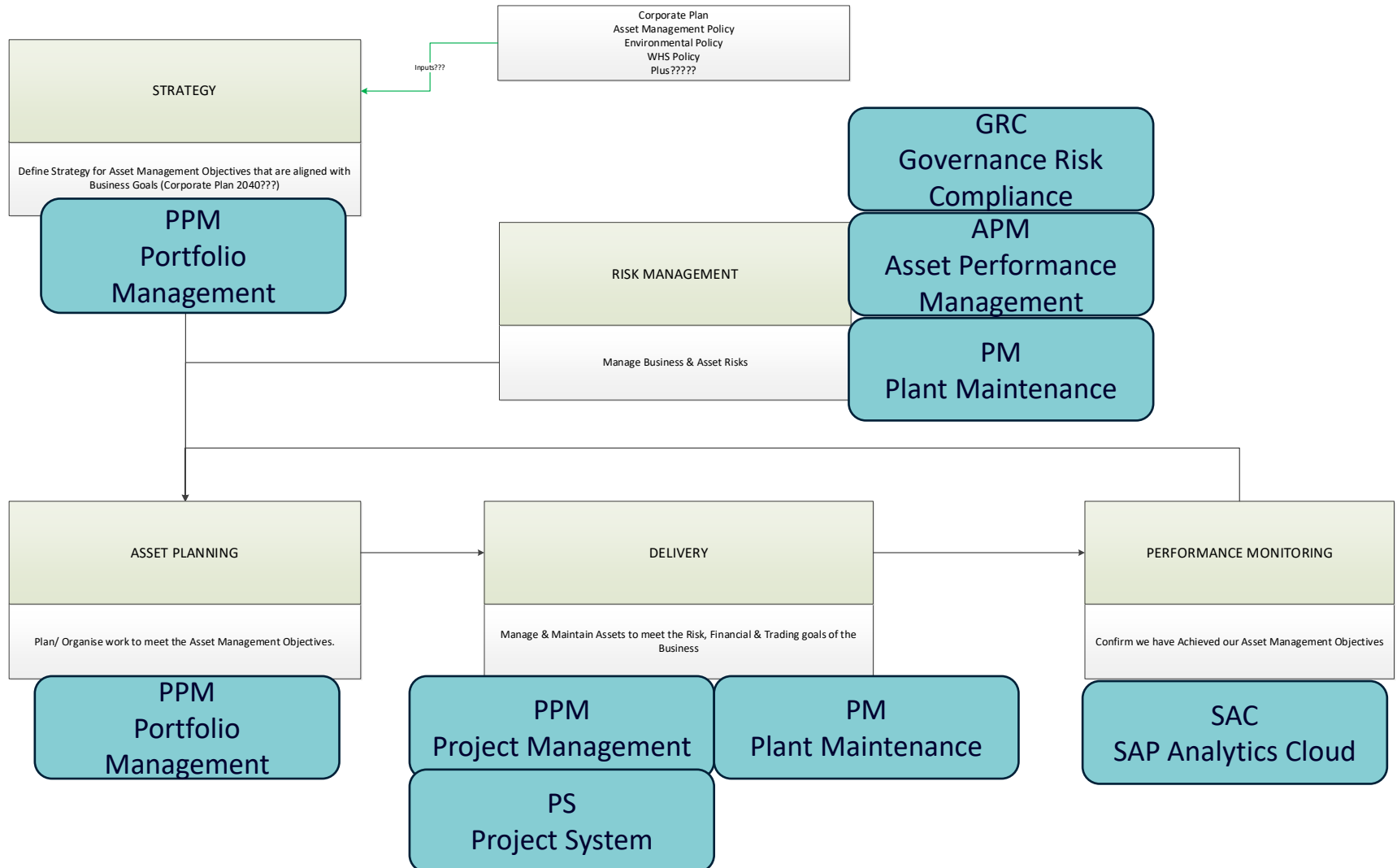
Current State



Future State




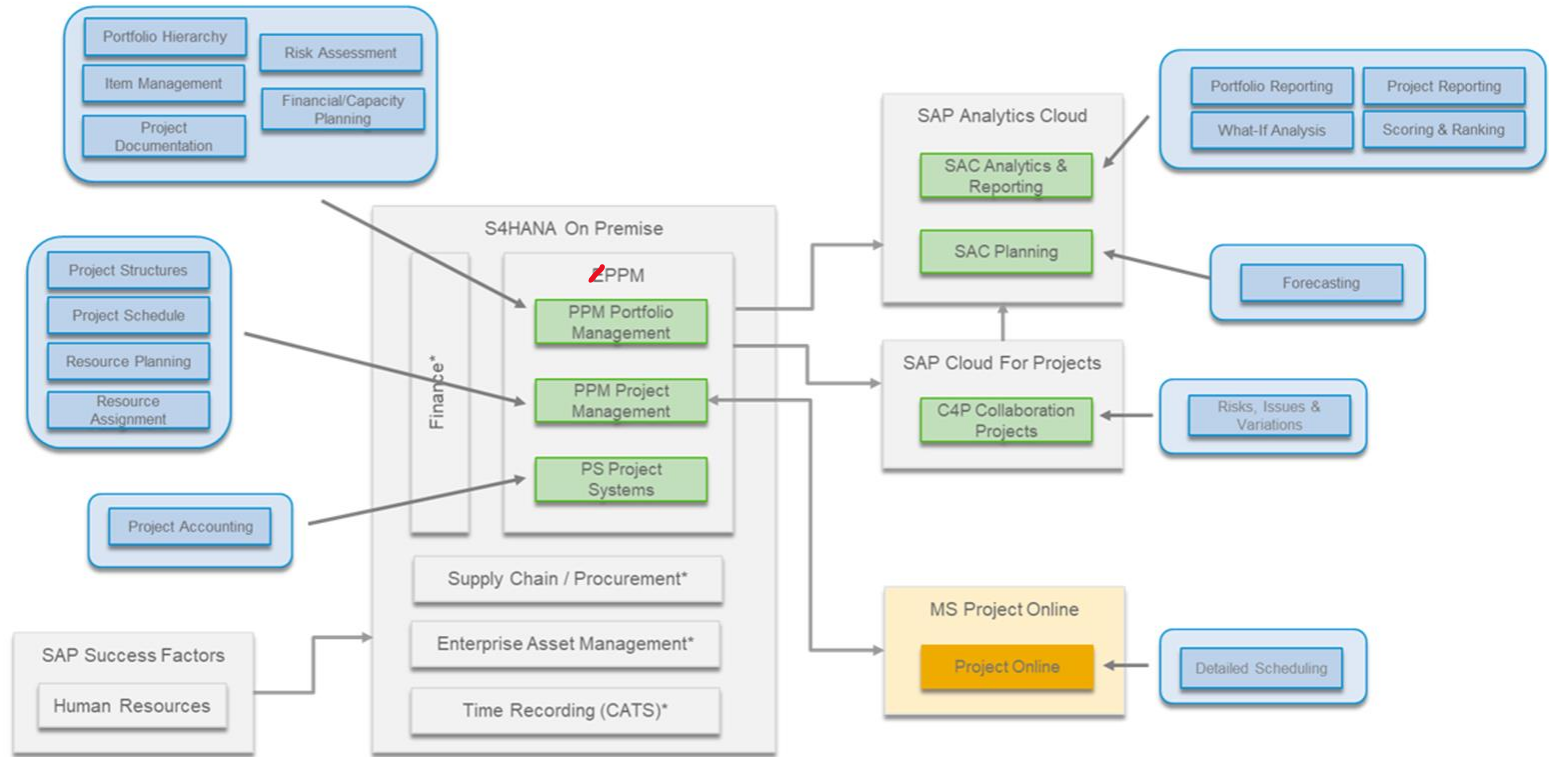
Where do the IT Solutions fit?



The IT Solutions detail

EPPM Capability to Application Map

The diagram below indicates where the  EPPM capabilities are supported across the target system landscape

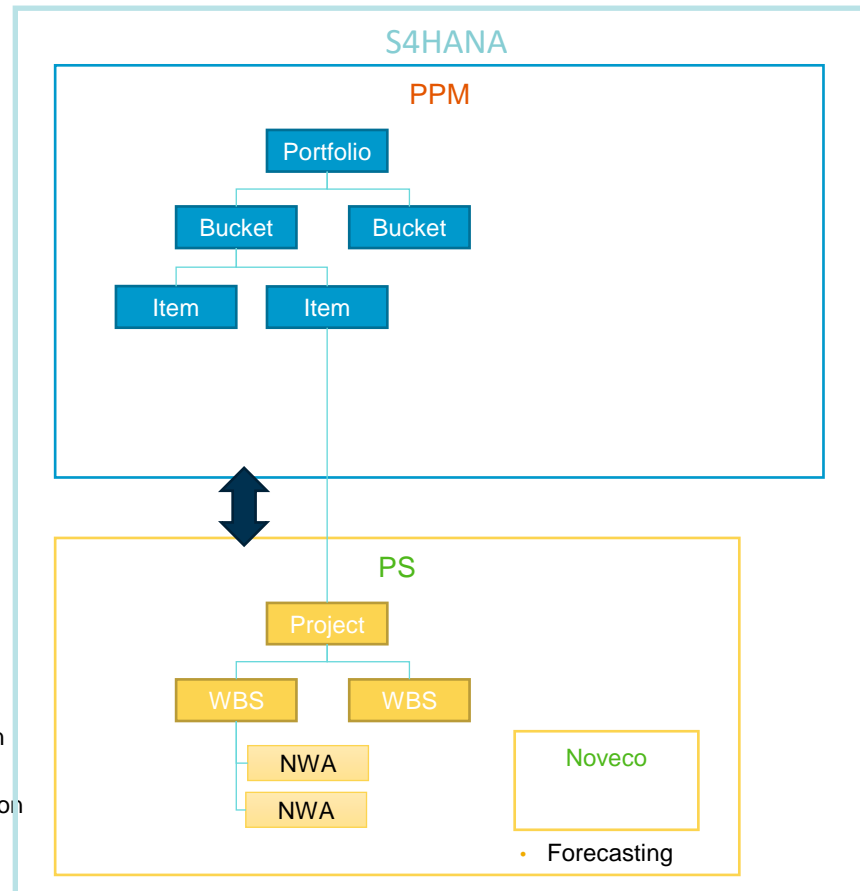


As-Is State

- Portfolio Structure
- Financial Planning
- Capacity Planning

- Data Synch PPM-PS

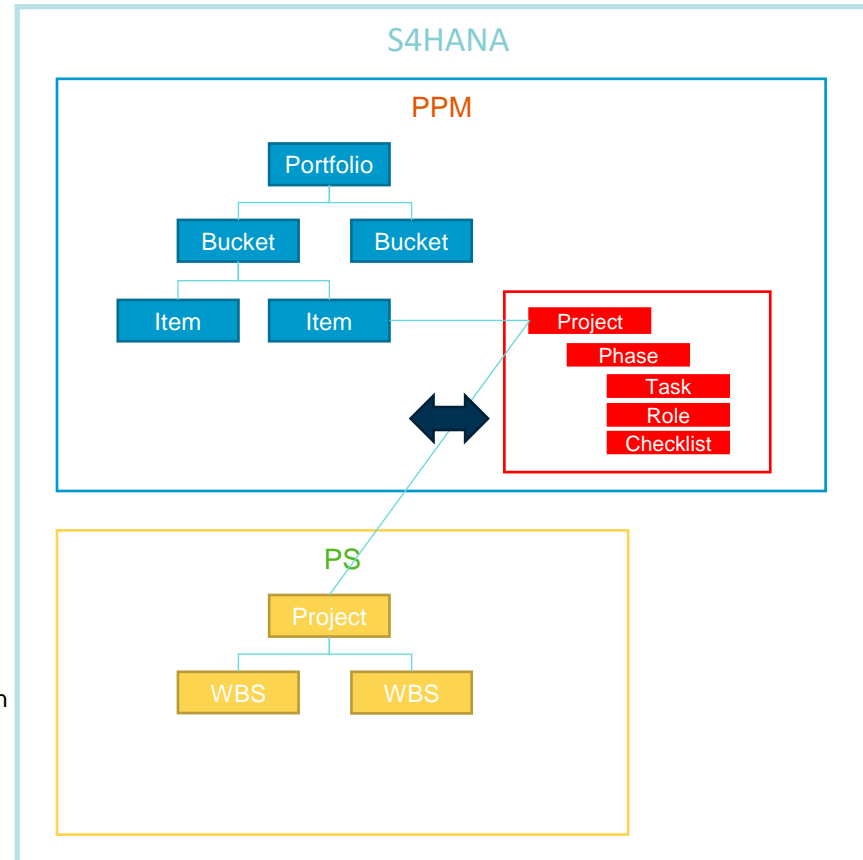
- Accounting integration
- CATS integration
- Procurement integration



PPM Project for Scheduling & Resource Planning

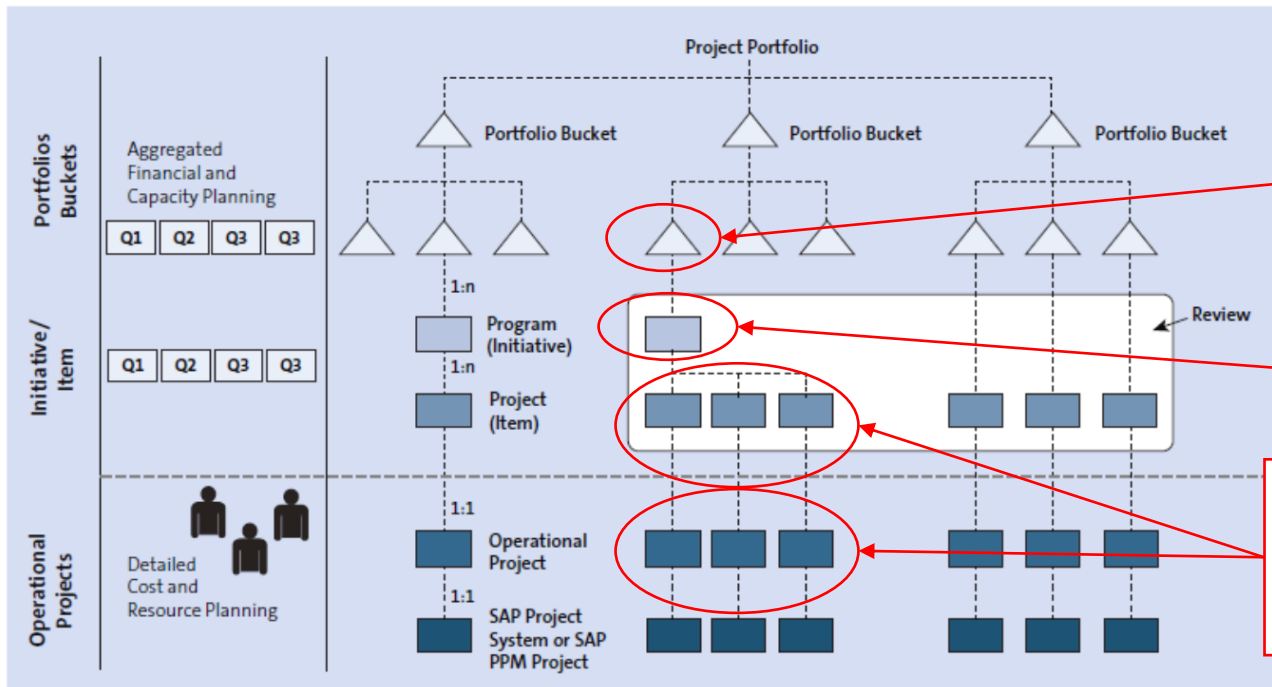
- Portfolio Structure
- Financial Planning
- Proposals
- Data Synch PPM-PPM

- Accounting integration
- Procurement integration



- Scheduling
- Phase Approvals
- Checklists
- Resource Planning
- CATS integration

The PPM Configuration ????????

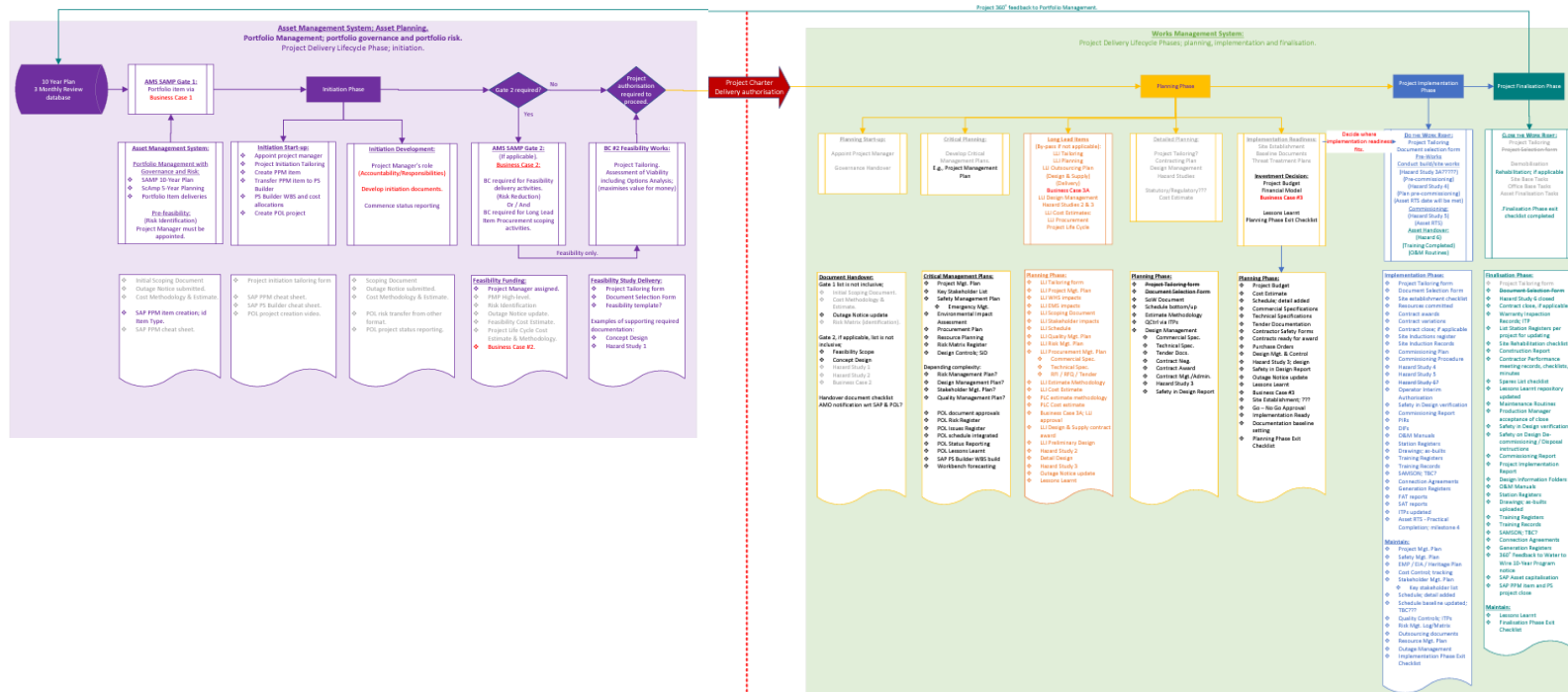


????

Tungatinah 3
Refurbishment Program

1. Turbine Replacement Item/ Project
2. Controls Upgrade Item/ Project
3. Stator Replacement Item/ Project

Aligning with the WMS



Hydro Tasmania Portfolio > [HT Portfolio Top Bucket](#) > [Operate](#) > [Sustain](#) > [Bass Strait Islands](#) > [King Island](#) > [Distribution](#) > Test for PPM-3

H-00101111

Called From: Portfolio Hydro Tasmania Portfolio ID: H-00101111 Name: Test for PPM-3 Type: HT Type 4: PR

✓ Pre-feasibility → ✓ Feasibility → ✓ Development → ✓ Initiate → ✓ Plan → ✓ Execute → ✓ Close

Overview

Phases and Decisions

Deliverables

Relationships

Documents and Notes

Miscellaneous

Custom Component

General Information

Additional Information

Classification

Financial Information

Capacity Information

Custom Longtext Fields

Reporting Data

IMT Reporting Required?: ☐

Number of Variations:

Will any savings be realised?: ☐

Roadblocks in the next 30 Days?: ☐

Quality

Scope Document Prepared?: ☐

Project Review Complete?: ☐

Planning

Is Permit required for Endangered Species?: ☐

Is Permit required for ACDC?: ☐

Is a Development Application required?: ☒

Is Project eligible for R&D Tax rebate?: ☐

Equipment Lead time > 1 year?: ☐

Will there be a Contract value greater than \$1M?: ☐

Is the Project value greater than \$4M?: ☒

Likely contingency will be used?: ☒

Will Objectives be achieved?: ☐

% Complete:

Go / No Go Approved?: ☐

Project/Outage Completion Report?: ☐

Does there need to be an Aboriginal Heritage Assessment carried out?: ☐

Is an Environmental Permit required?: ☐

Is a Building Permit required?: ☒

Is Permit required for Hazardous Goods Transport?: ☐

Is Project importing equipment / Materials from Overseas?: ☐

Will there be a Contract value greater than \$2M?: ☐

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** SAP Analytics Cloud

Portfolio Management

Portfolio Overview **

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Questions and discussion

