



Thinkproject Live in Auckland

Welcome!

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07

From Handover to Operational Excellence



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Agenda



The Asset story – Design to Divestiture



Handover from end to end



Digital Asset Register



Work Management



TP ASSET Mobile



Conclusion



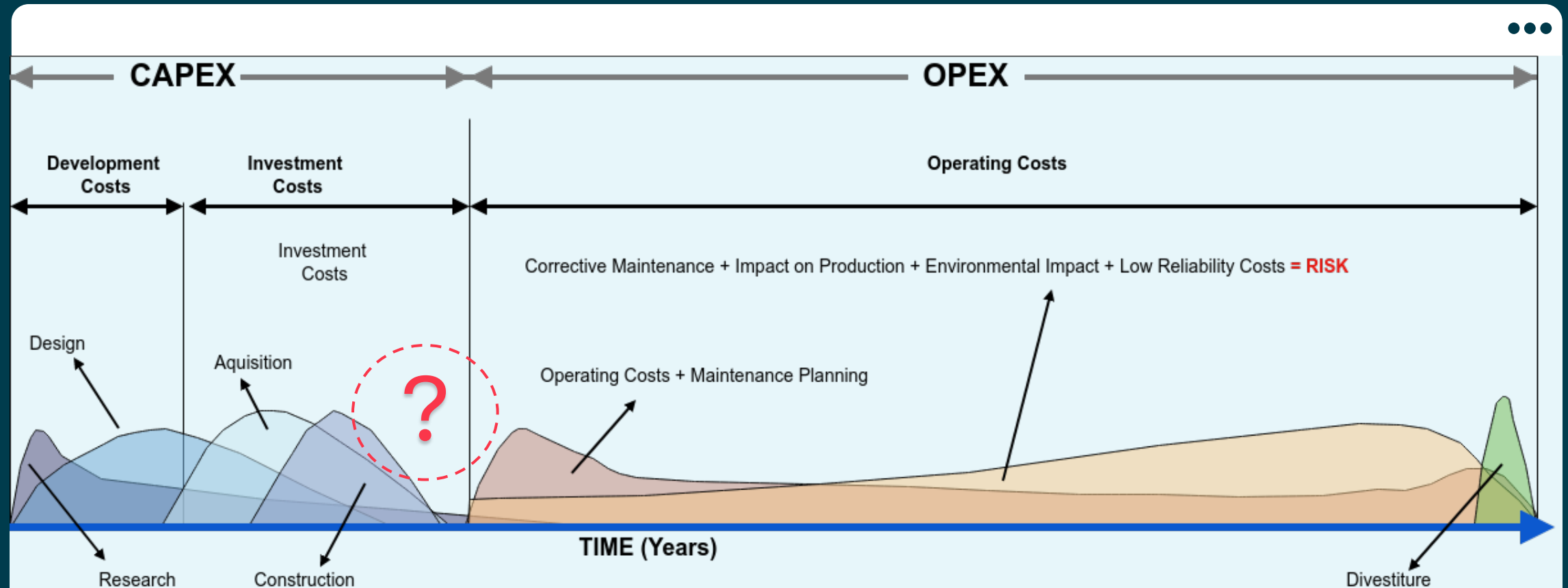
The Asset Story Design to Divestiture

“Give a person AWM data, and you support their project for a day. Give a person an AWM login, and you feed them Asset information for a lifetime”

Ben Cullen (Principal Street Lighting Engineer, Road Asset Maintenance & Renewals, Auckland Transport)

The story of Asset Management

CAPEX vs OPEX over time

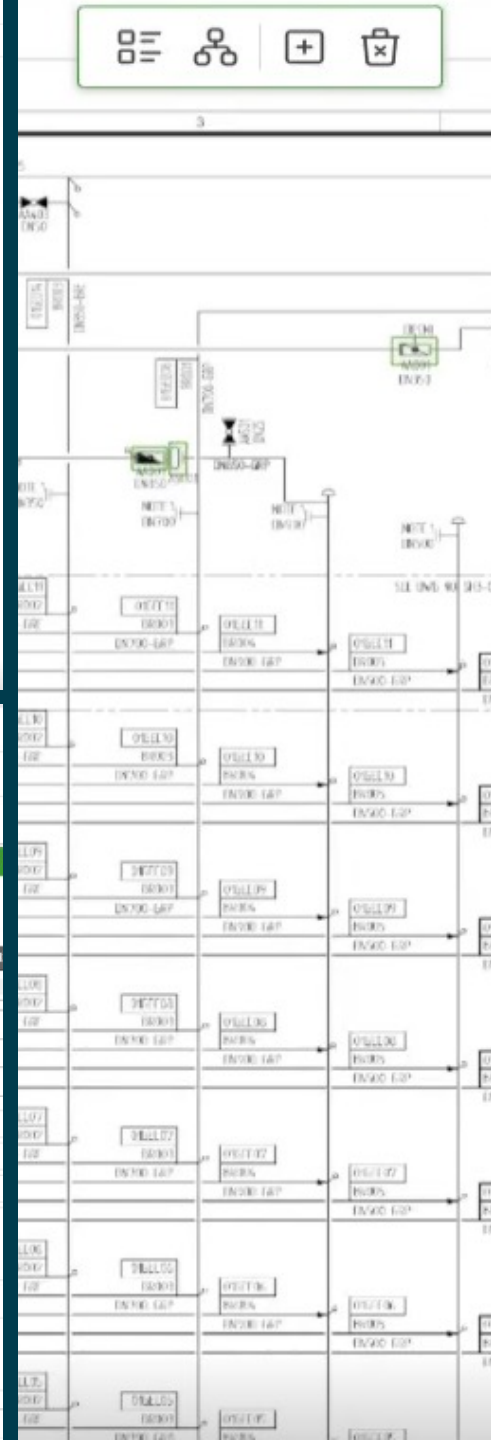
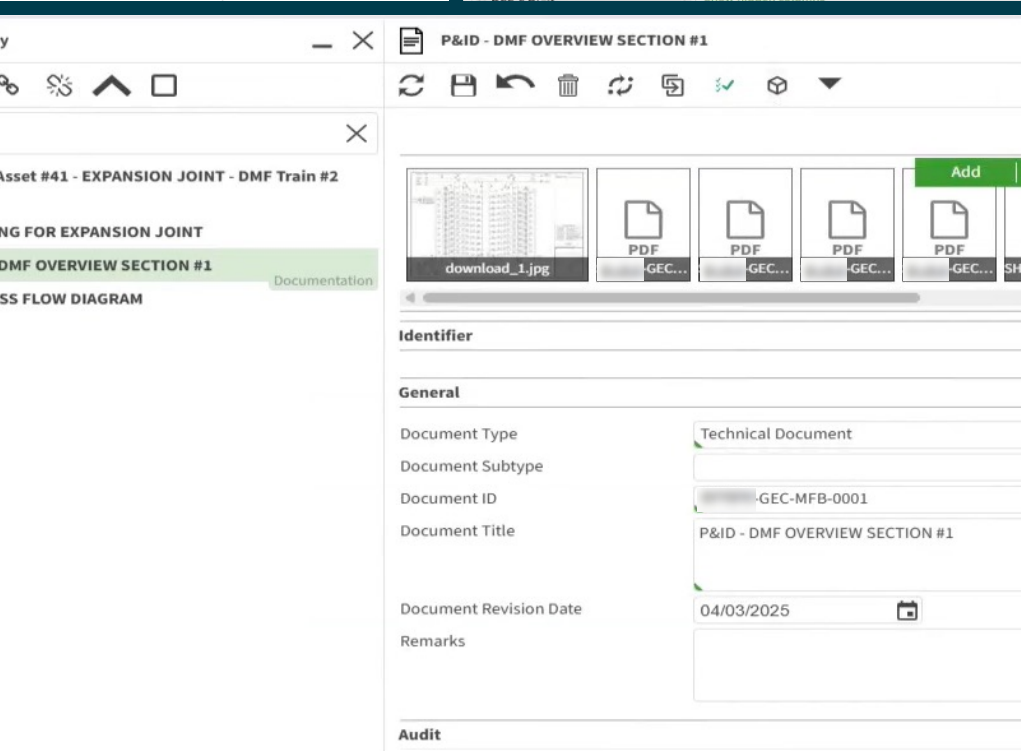
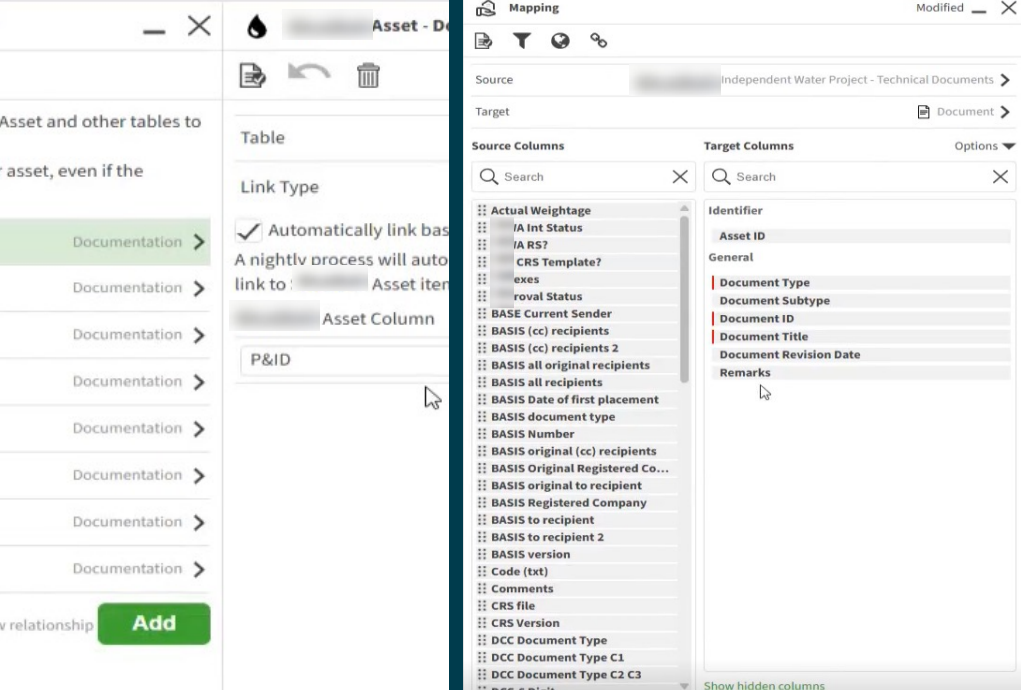




Handover end-to-end

“Information created during design and construction must not be lost at handover — it is the foundation for the entire lifecycle of the asset.”

Mark Bew, former UK BIM Task Group Chair



Handover in AWM

Centralised repository

Structured data import & export

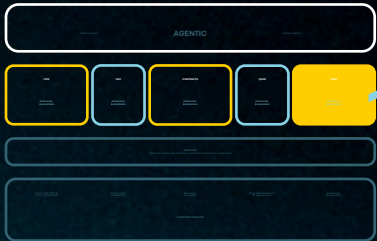
Linked to assets and locations

Supports decision making

No “end date”

Handover a quality assured, operations ready, digital deliverable

Seamless (and progressive) data transfer from projects (CDE) to operations (AWM)



The screenshot displays the 'ASSET & WORK MANAGER' interface with a 'TP Live Demo' dropdown. The left sidebar contains a 'Menu' with options: 'Map', 'Facility', 'UDT Manager' (highlighted in green), and 'AC Unit'. The main content area is divided into three panels. The first panel shows a 'ud_asset_inspection Column Template' with a green 'Apply' button. The second panel, titled 'Asset Inspection - Data Validation Rules', lists three rules: 'Next Inspection Date' (Set value for Next Inspection Date), 'Inspection Status' (Set value for Inspection Status), and 'Inspection Overdue' (Next Inspection Date > 0 Days Ago, Show warning "Inspection Overdue"). The third panel, titled 'Asset Inspection - Data Validation Rule', shows the configuration for the 'Inspection Overdue' rule, including its description, condition, trigger (On Load), and action (Show warning "Inspection Overdue").



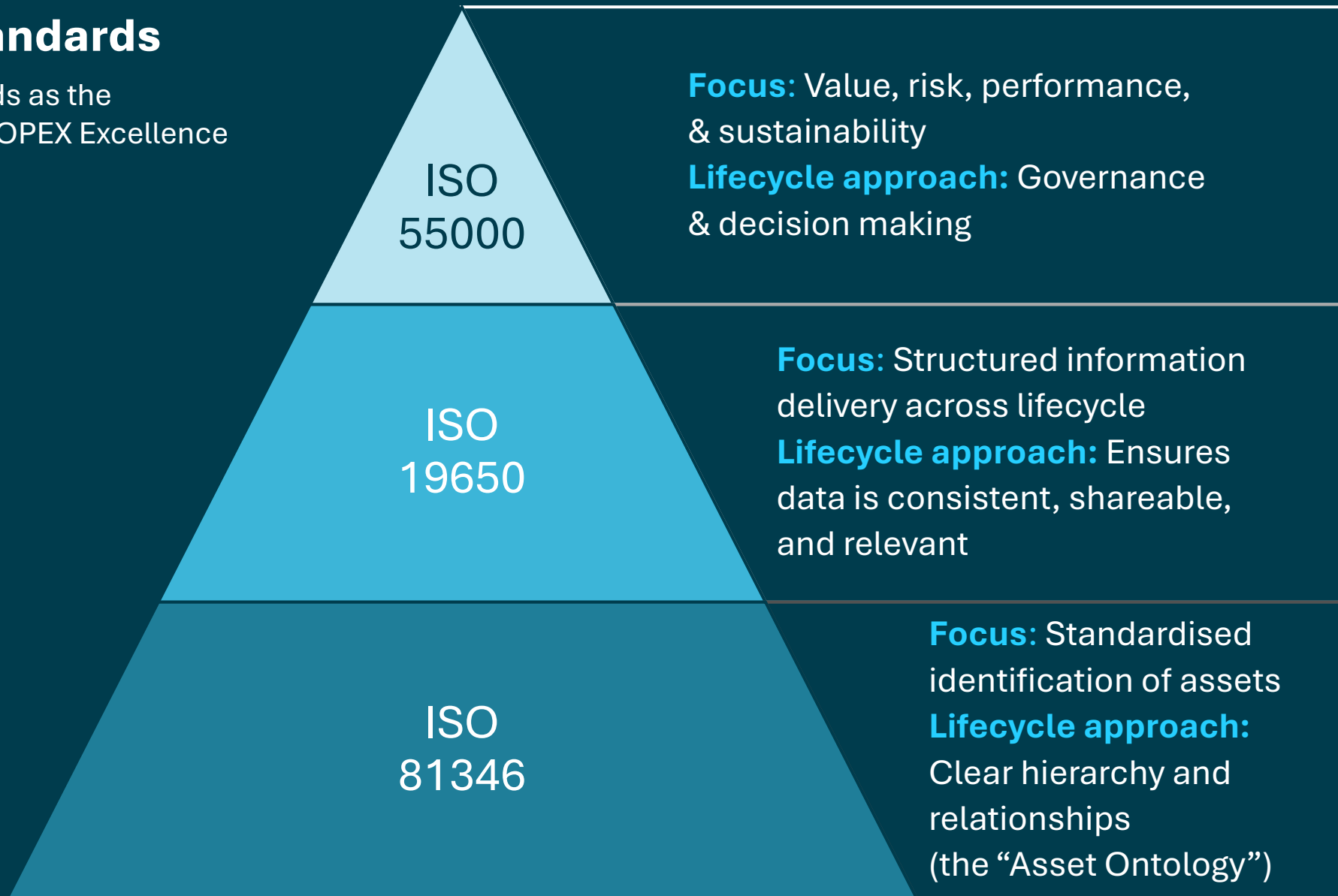
Digital Asset Register

“You can’t manage what you don’t measure — and you can’t measure without standards.”

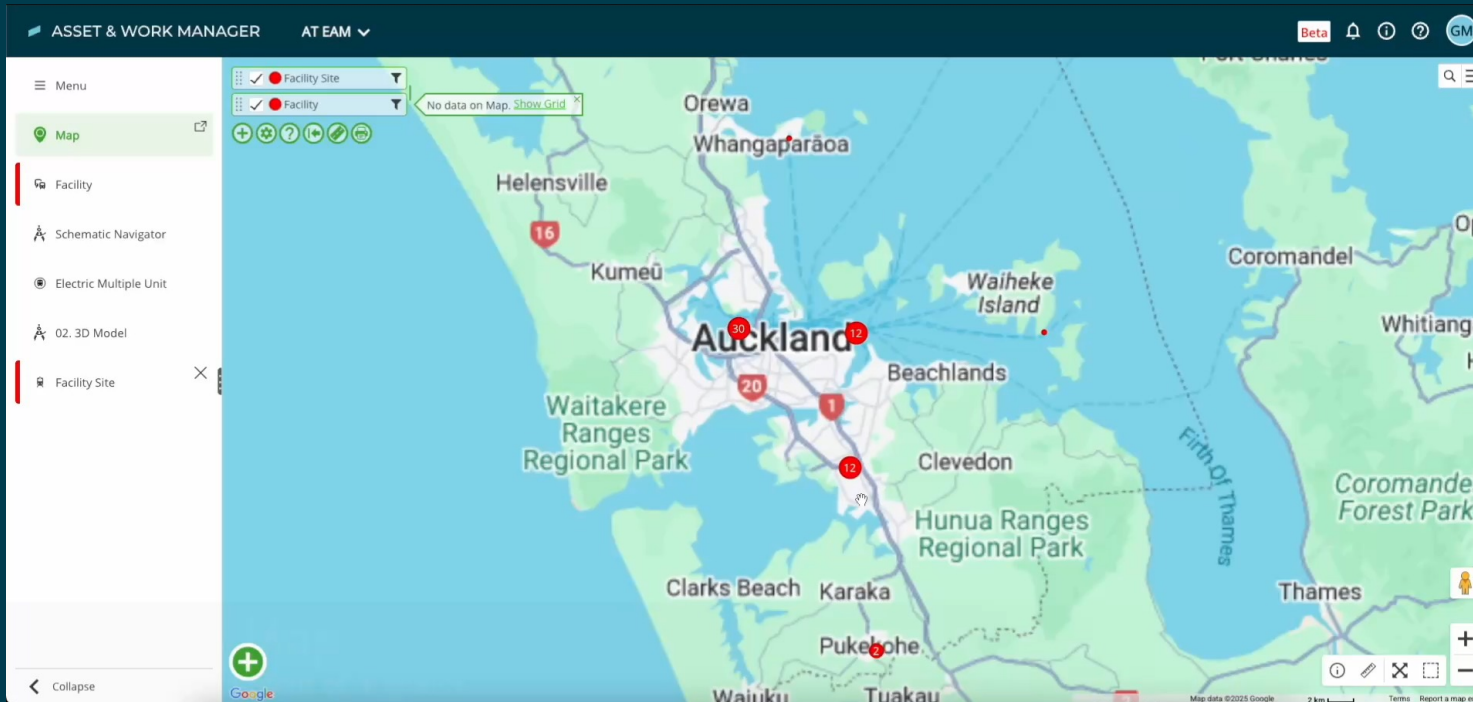
John Woodhouse, Author of ISO 55000 and leading figure in global Asset Management

Asset Standards

Asset Standards as the
Foundation of OPEX Excellence



Digital Asset Register - DAR



DIGITAL ASSET REGISTER delivers a single, traceable model for every asset area, system, asset or component.

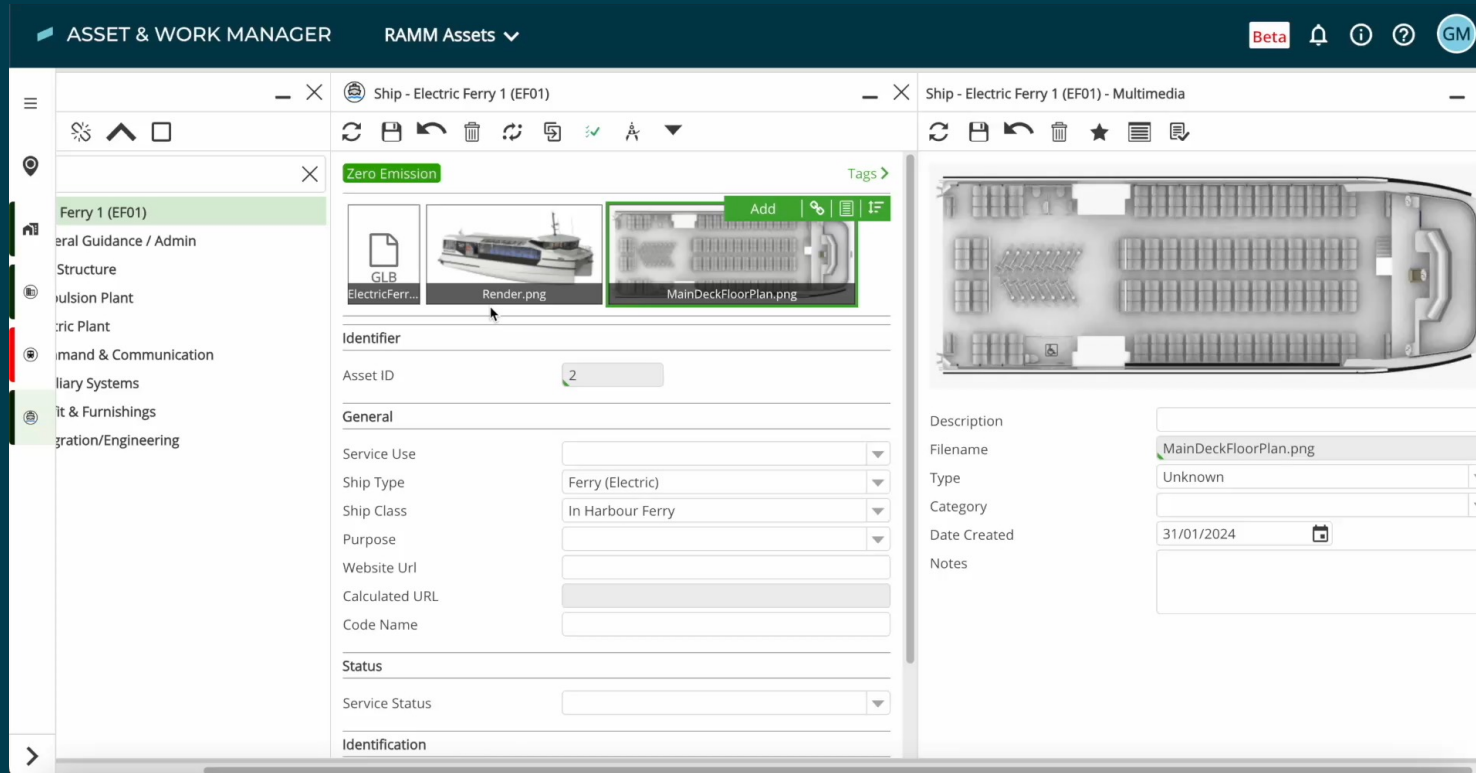
Standard templates create comparable datasets, enabling portfolio-wide analytics.

OTL integration ensures consistent, compliant asset metadata.

Offline-first TP ASSET Mobile streams daily site work management, condition rating, asset data, and KPIs into the DAR.

User Defined Data

“Lego block” type asset definition



Fully configure asset ontology.

Model ANY asset type or hierarchy.

Control the object type library of every asset.

Construct Asset forms the way you want.

Add standard modules such as Linear referencing, Work Management, Valuation, Assessments & more.

Use column templates.

Data Validation

Clean data is critical

Wheel - Data Validation Rule

Description: A validation rule

Condition

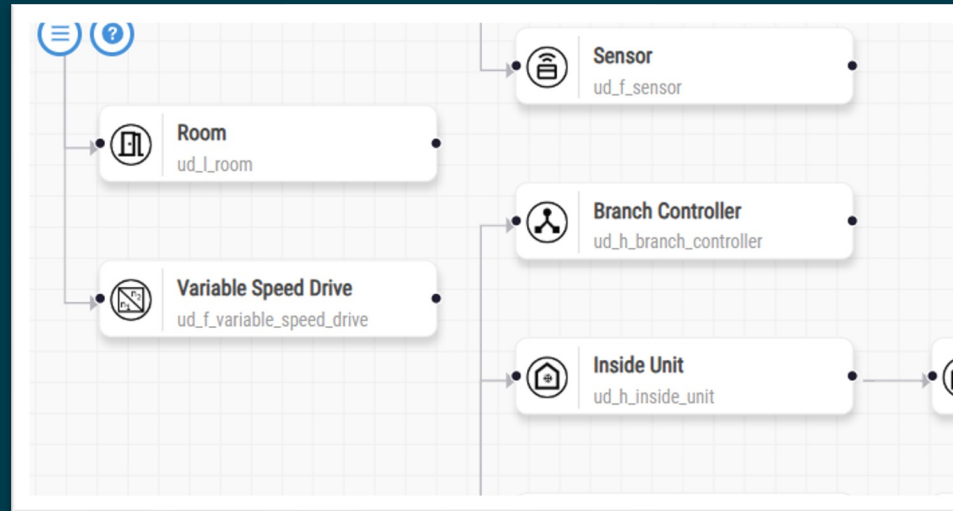
Trigger

☒ On Save

On change to: Flange height (Fh)

Actions

Add a new action



Maintain data integrity using data validation.

Build checks and triggers for data.

View reports on data correctness.

Use calculated fields from fields on that asset or other assets data.

Use calculations to determine custom identity designations (e.g. RDS), aggregations and more.

The image shows two side-by-side configuration windows:

Wheel - Custom Columns

Column Name	Field Name	Data Type
Flange height (Fh)	flange_height, Decimal	
Flange width (Fw)	flange_width, Decimal	
Flange slope (qR)	flange_slope, Decimal	
Wheel width (W)	wheel_width, Decimal	
Hollow tread (HT)	hollow_tread, Decimal	
Rollover (RO)	rollover, Decimal	
Profile Date	profile_date, Date	

Wheel - Flange Height (AS)

Name: flange_height_as

Description: Flange Height (AS)

Group: Calipri Wheel Profile

Priority: Primary

Suffix: mm

Data Type: Decimal

Type: Decimal

Size: Small (3 digits, 1 decimal place)

Options: Calculated ☐ Yes ☐ No

Flange Height (AS) - Expression

Enter the calculated column expression for Flange Height (AS)

RAMM.GetAssessmentValue('Calipri Wheel Profile', 'Flange height (Fh)')

Insert Column

Test

Calculated Column Expressions allow you to calculate values or descriptions using arithmetic and SQL Server scalar functions.

You can access columns from the current table, but you cannot join to other tables, except for lookups which can be accessed using the System.GetLookup function.

If any part of your expression is null, the result will be null. You can use the isnull function to supply a default value as you see in the total_cost and full_name examples below.

Mathematical Expressions



Asset Lifecycle Management

Condition management & Asset Depreciation



Maintain financial relevance of assets through time



Support ISO 55000 principles: value, cost, risk, performance or decision making



Asset Valuation



Inspections



Assessments



Standards

- **ISO 81346** → how we consistently identify and classify assets
- **ISO 19650** → how we structure and share asset information
- **ISO 55000** → why we manage (value, risk, cost, performance)

Digital Asset Register

-----> User Defined Table Manager, Hierarchy Manager, Validation

-----> Asset and data-centric approach, Map, 2D and 3D visualisations

-----> Inspections, Assessments, Reporting, and Asset Valuation, and more



Work management

“The most successful maintenance organisations are those that move from reactive repair to proactive asset care.”

Terry Wireman, Author of the Maintenance Strategy Series

AWM Work Manager

Standards as the foundation for effective maintenance.

Work Management in AWM

ISO 55000
(Value & Risk)

ISO 19650
(Information Consistency)

ISO 81346
(Asset Identity)



Work Management

Maintenance records for your assets



Maintenance of assets



Planning



Budgeting



Claiming



Visualisations

Finance Management

Claim Review

Work and claim categorisation

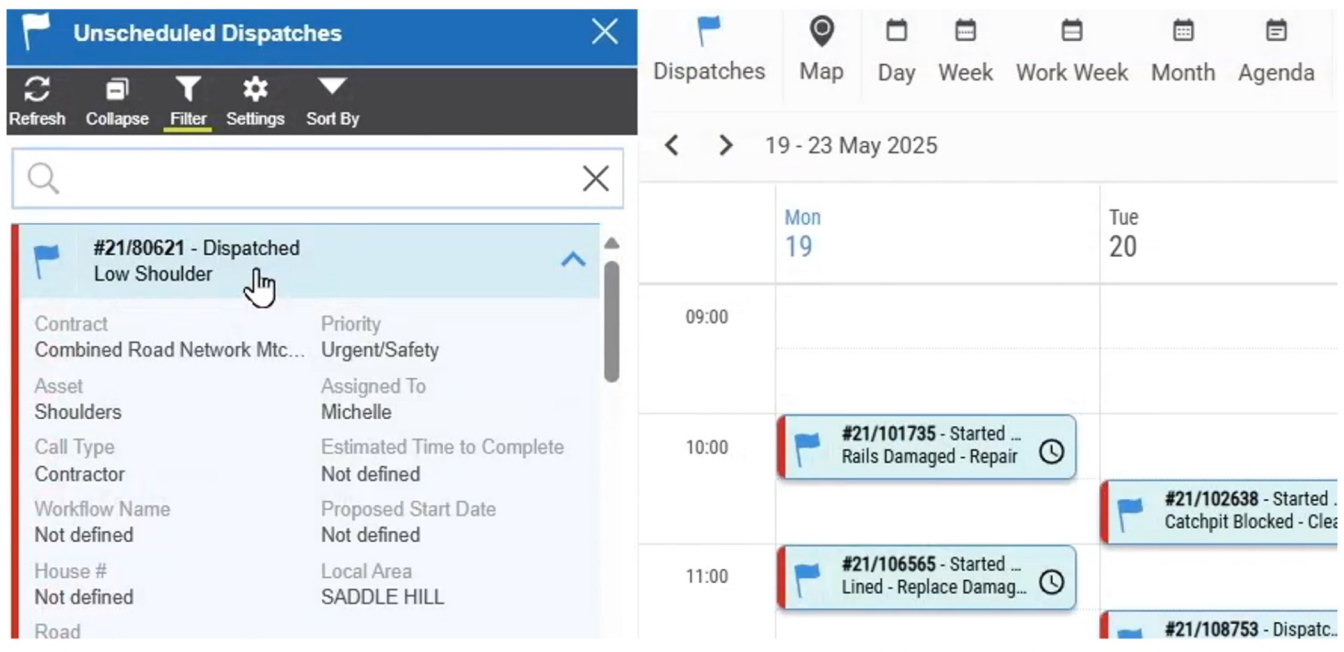
Monthly claim headers and BCTI

Estimate and claim authorisation workflow

Export and integrate with financial systems

Work programmes

Visualisation via maps, 2D and 3D models



Scheduling Work

Dispatch management

Plan dispatches to day, hour and minute

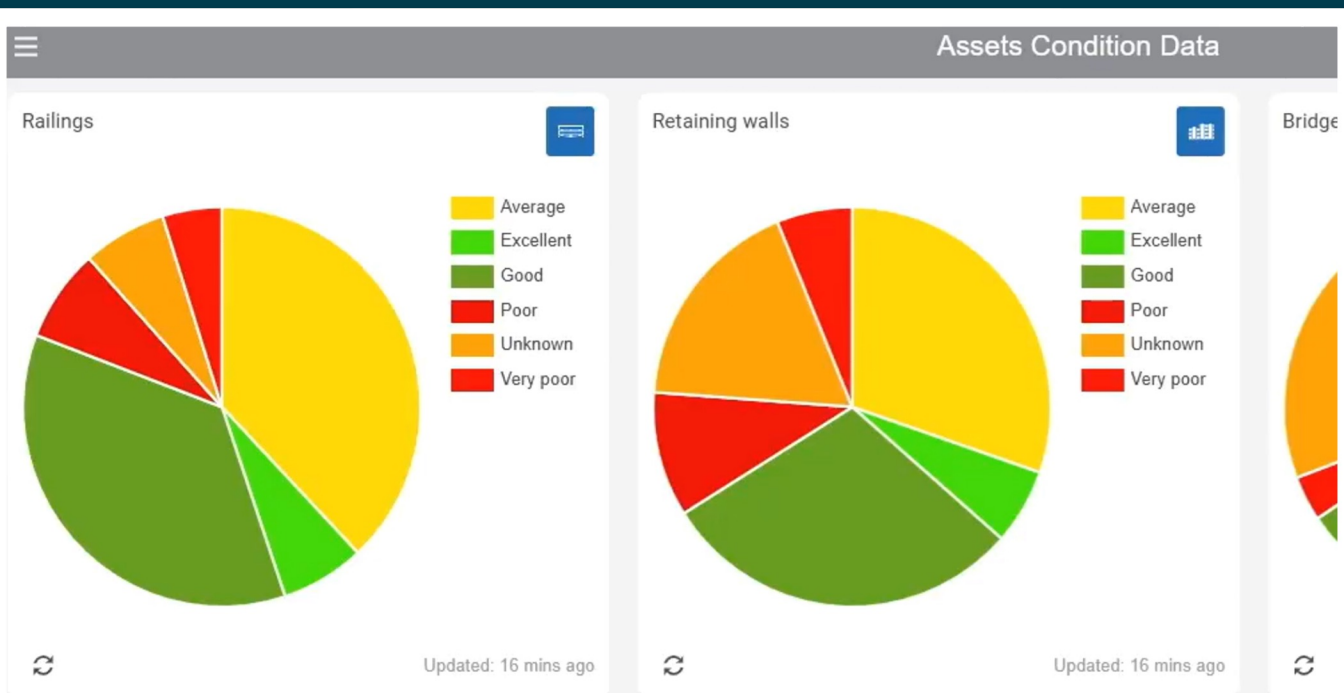
Easy drag and drop scheduling from dispatch backlog

Insights dashboard functionality with drill down

Insights dashboard customisation

Time slider to show work over time on map

Visualisations using maps, 2D and 3D models





TP ASSETS Mobile

“Mobility in asset management means putting information in the hands of the people who need it most — the field workers.”

John Woodhouse, ISO 55000 author and asset management thought leader



TP ASSETS

iOS & Android



Manage assets, inspections, assessments, and work management



Designed to be offline-first



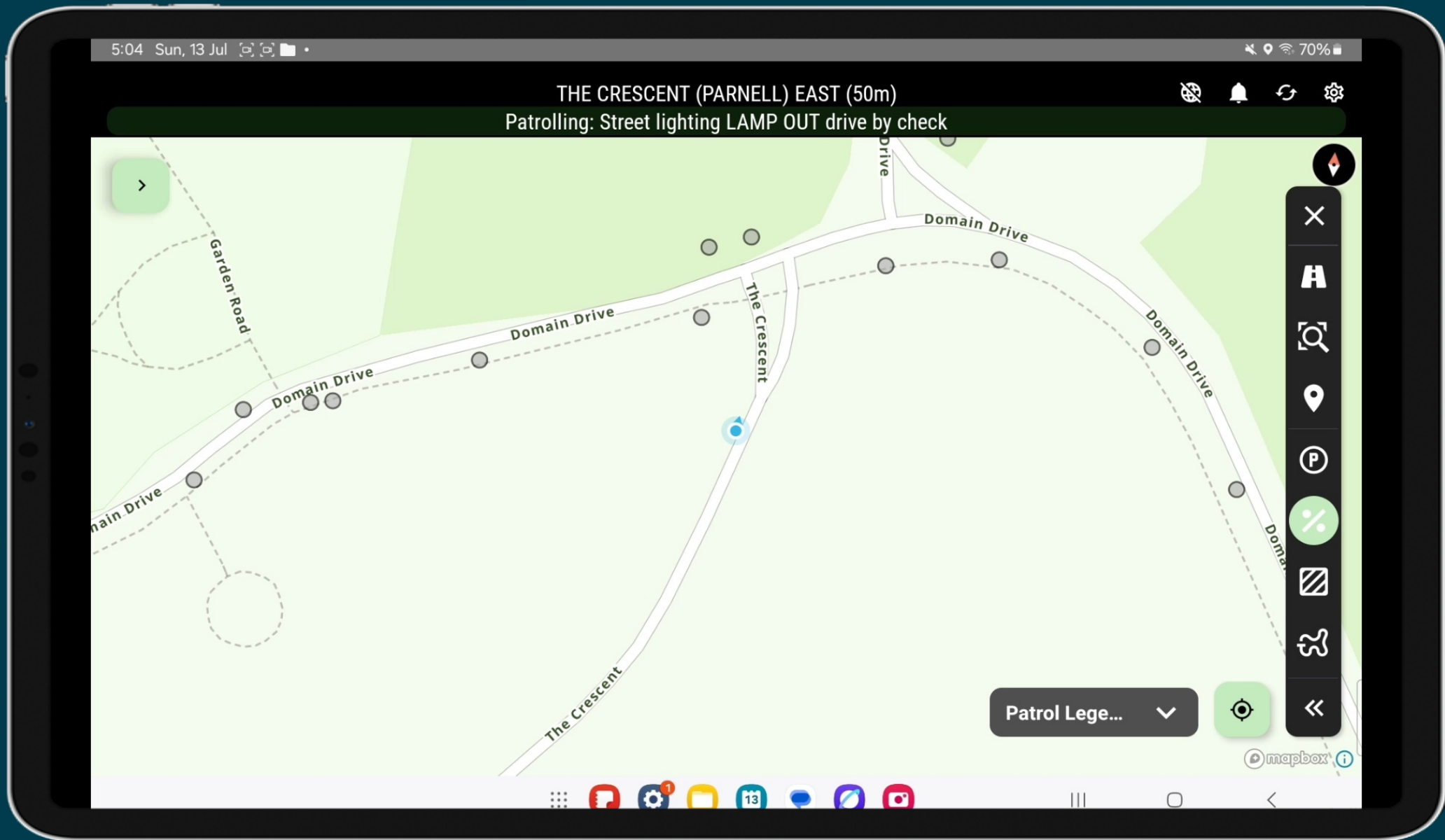
Full GIS map visualisation

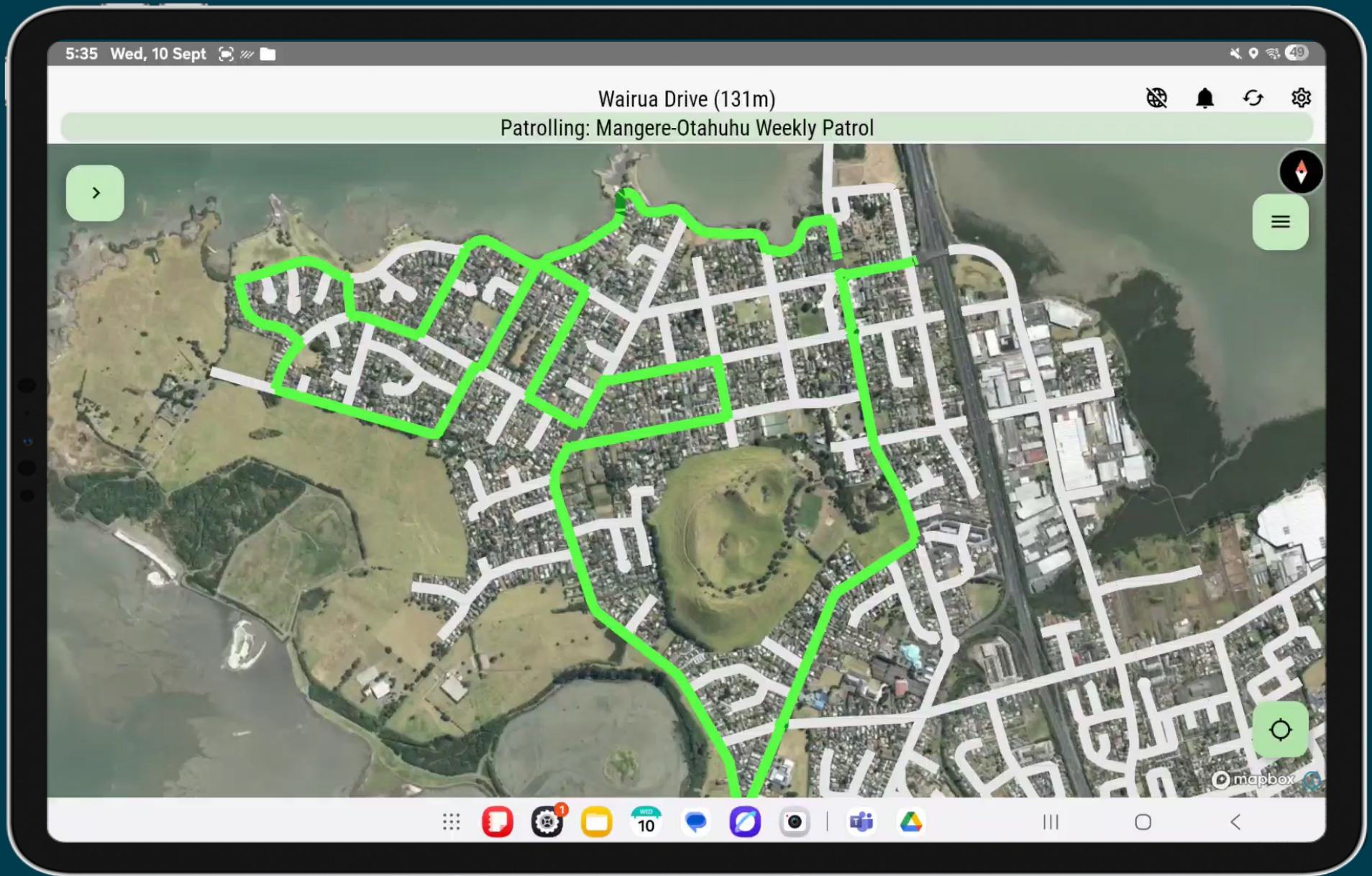


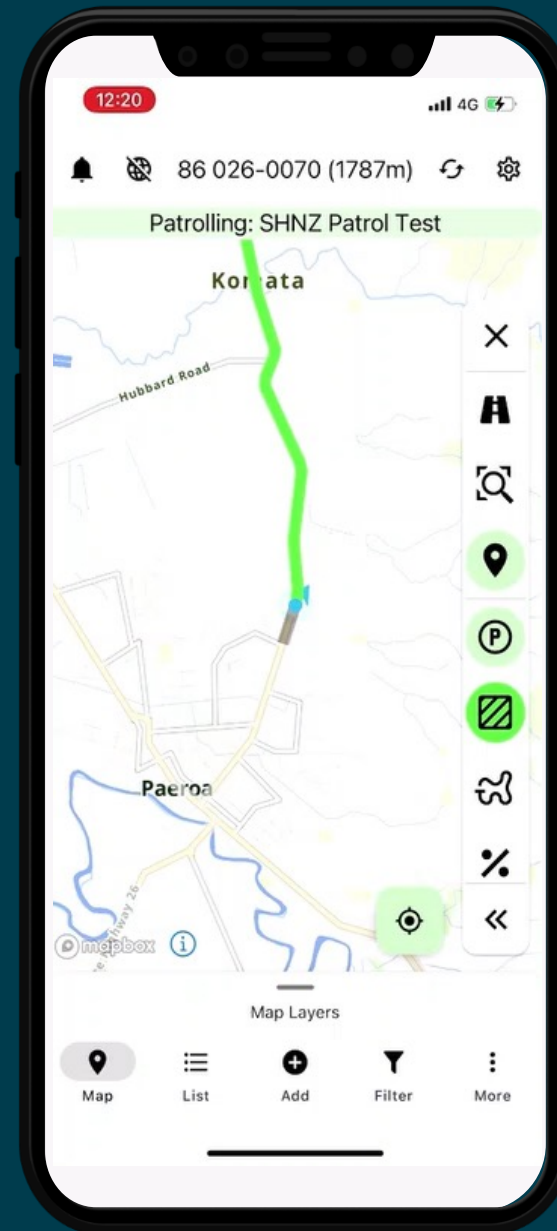
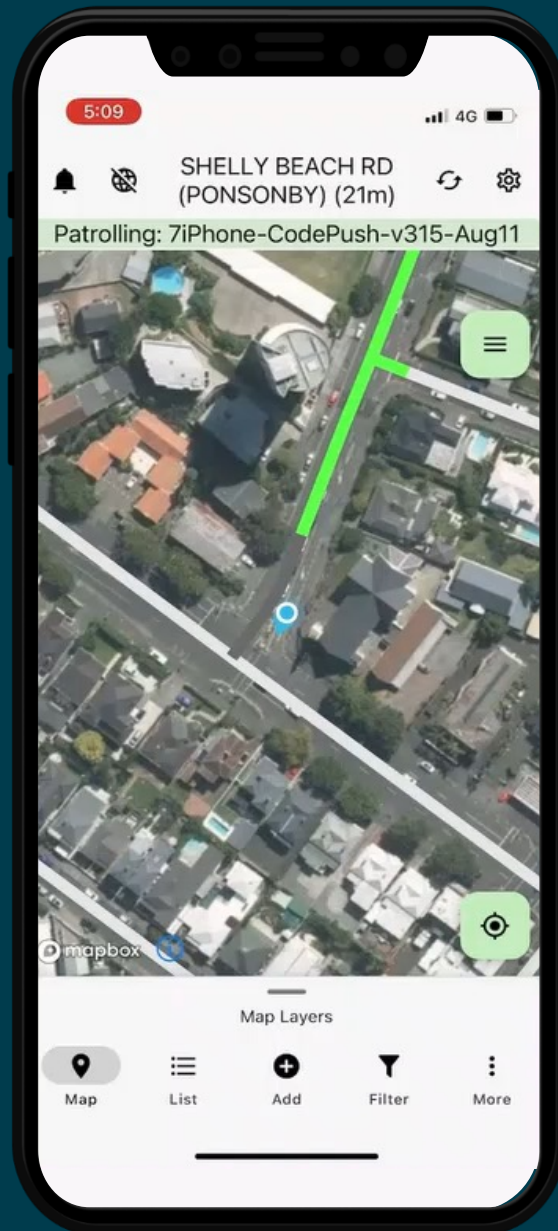
Templates & activities to speed your work



Patrols to record your work either as an asset owner or a contractor









Digital Asset Register to manage your Standards

Standards	AWM
• ISO 81346 → how we consistently identify and classify assets	Think GIS, 2D & 3D Visualisations
• ISO 19650 → how we structure and share asset information	Think visibility, sharing, integration, mobility, Structure and Standards
• ISO 55000 → why we manage (value, risk, cost, performance)	Think mobility, reduction of risk. Think Improving your assets performance

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