



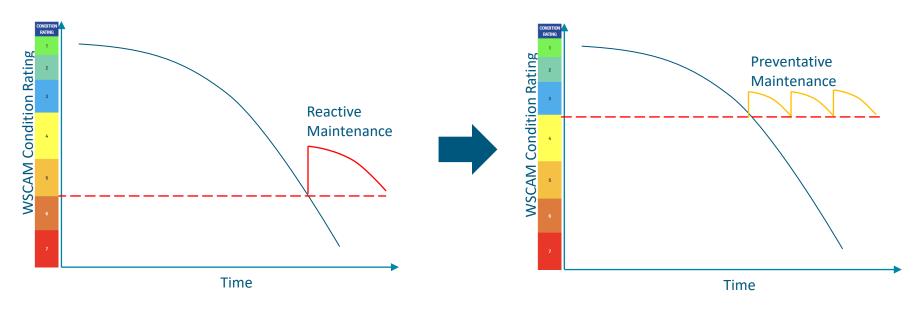


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1. Project Development – Challenges

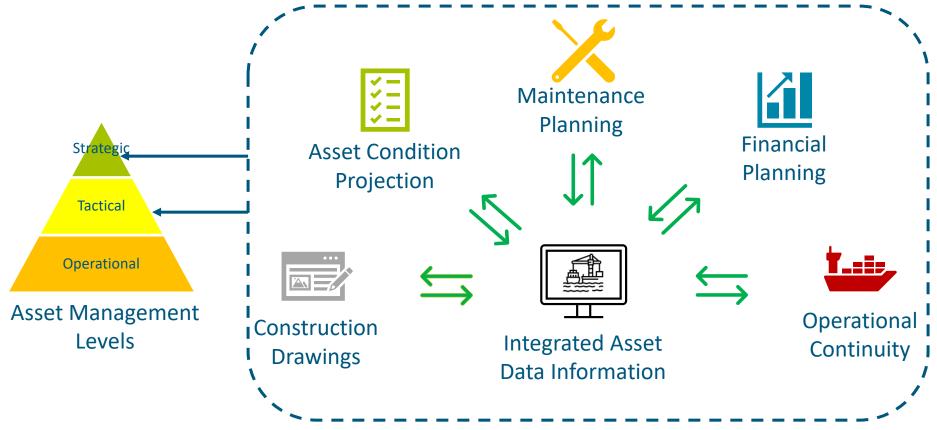
Change from Reactive Maintenance to Preventative Maintenance Approach required detail knowledge of the asset components, its condition and rate of deterioration.



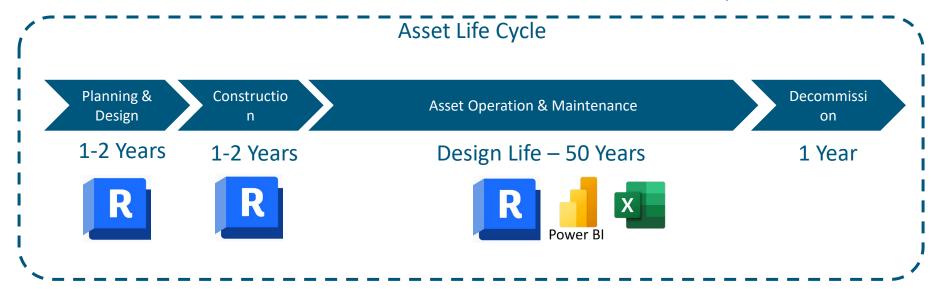
Project Development - Objective Maintenance Records **Financial** Strategic Condition Records Assessments **Tactical** Operational **Asset Management** Operational As-built Levels **Integrate Asset** Records **Drawings** Data in single

platform

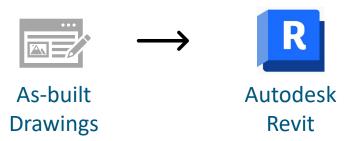
2. Project Development - Desired Outcome

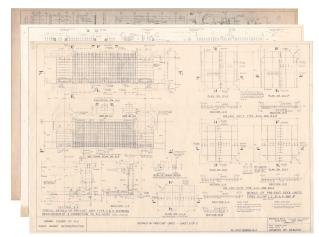


Extend the use of BIM into the Asset O&M Phase of the Asset Life Cycle.

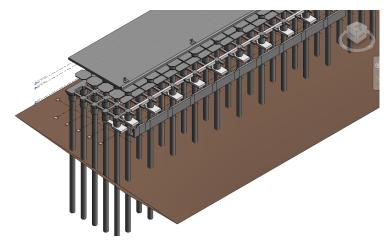


 For existing ports: As-built Drawings modelled into Revit. Material, geometry, reinforcements, quantities is captured.



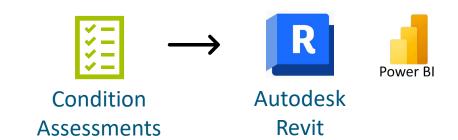


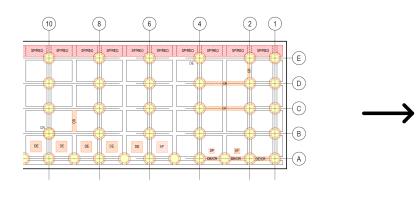


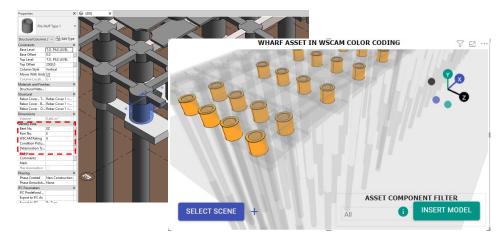


Exploded view of 3D Asset Model
Royal Haskoning DHV

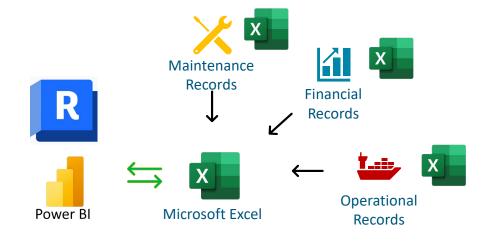
 Ports Australia WSCAM based condition assessment embedded into Revit.

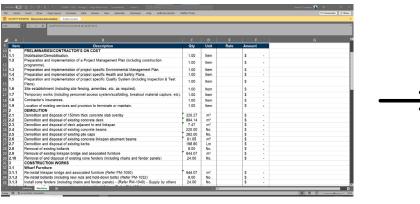


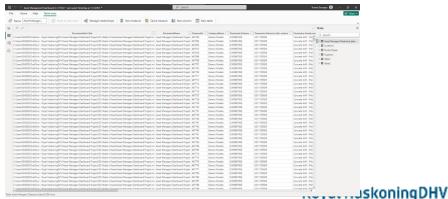




 Maintenance, Financial and Operational datasets in csv or excel format can be integrated into the platform.



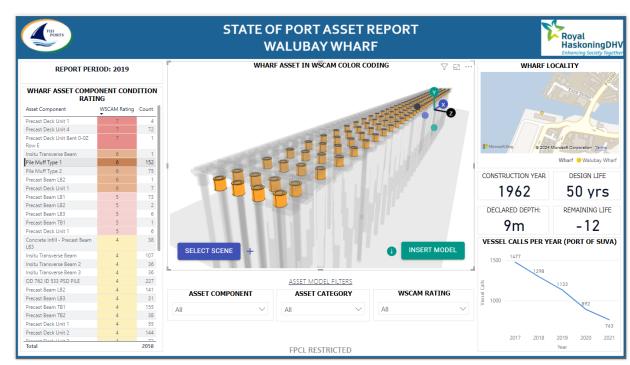




3. Asset Management Dashboard – Deliverables

Integrated Asset Information
Dashboard showing State of
Port Asset Report for reporting
to Executive Management.

- Interactive Report on Microsoft Power BI.
- Shared to Executive Management via SharePoint.
- Interactive Report can be customized to the requirements of the Asset Owner.
- Drill Through Dataset.



3. Asset Management Dashboard – Deliverables

- The Integrated Asset Information Platform allows efficient and accurate development of:
 - Construction Drawings for repair or replacements works.
 - Asset Condition Projection based on current condition and expected deterioration rate.
 - Condition assessment direct input to 3D model.
 - Maintenance planning based on unit cost, condition rating, criticality, level of service, etc.
 - Financial performance monitoring and planning.
 - Data sharing for operational coordination.
- Refer to demonstration.

Questions

- Any questions.
- Reach out to me if your port needs assistance on Asset Management in:
 - Integrated Asset Management Platform.
 - Condition Assessment, Detail Design, etc.
 - Asset Management Policy, Plans, etc.

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