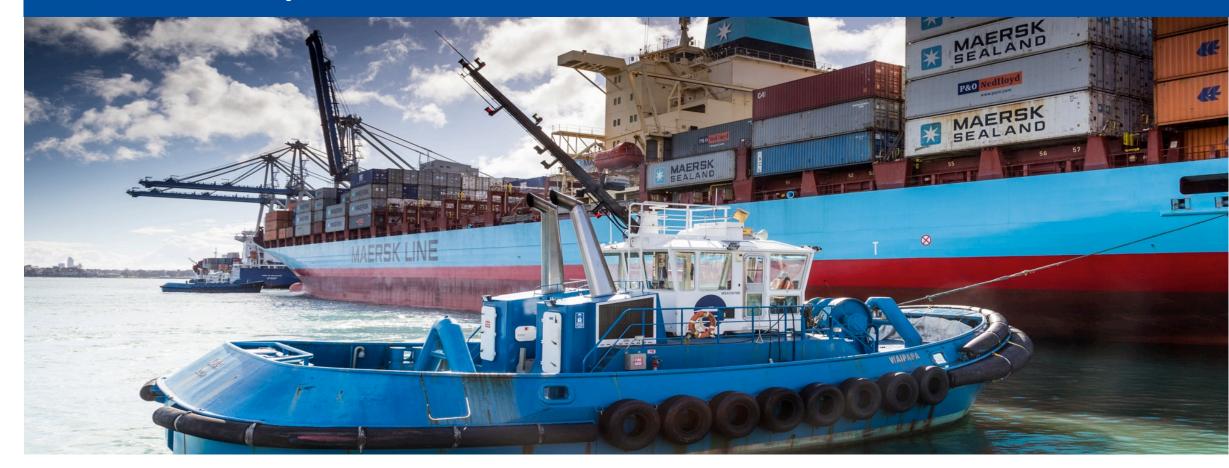


Navigating our Digital Transformation

Frederic Barbeau & Devin Huang

NZEUC – August 2017



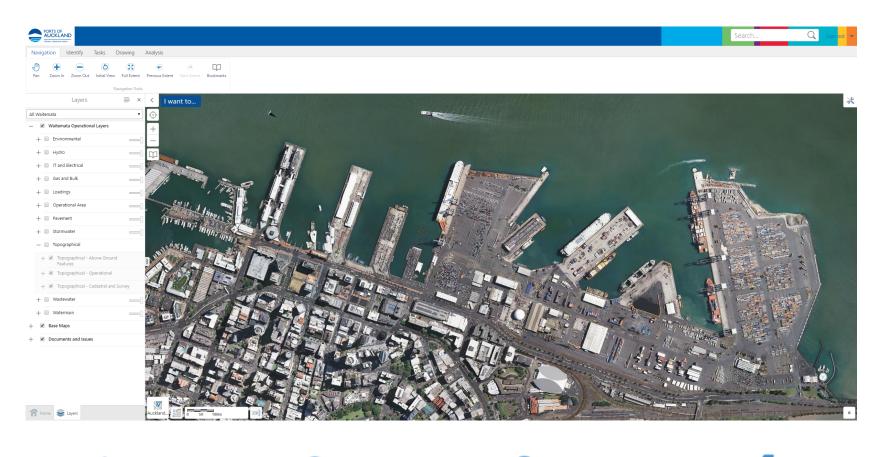
About POAL



- Best Seaport in Oceania 2016 & 2017
- One of New Zealand's largest ports with 1,588 Ship calls
- 972,434 TEU (20ft Equivalent Unit)
- 3.2 million tonnes of Bulk & Break Bulk cargo
- 243,801 cars
- 106 Cruise Ship calls booked for last year, over 200,000 Cruise Passengers



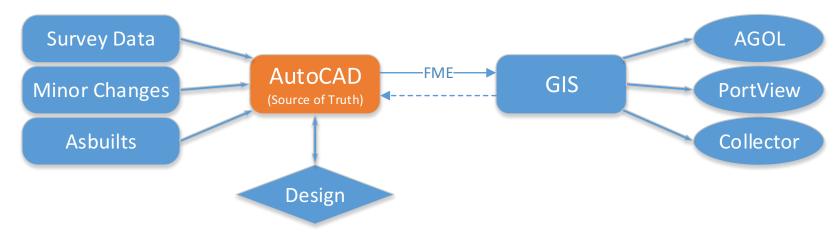
Initial Migration from CAD to GIS



1 2 3

View Asset Info Create maps Run Basic Analytics Training & Induction

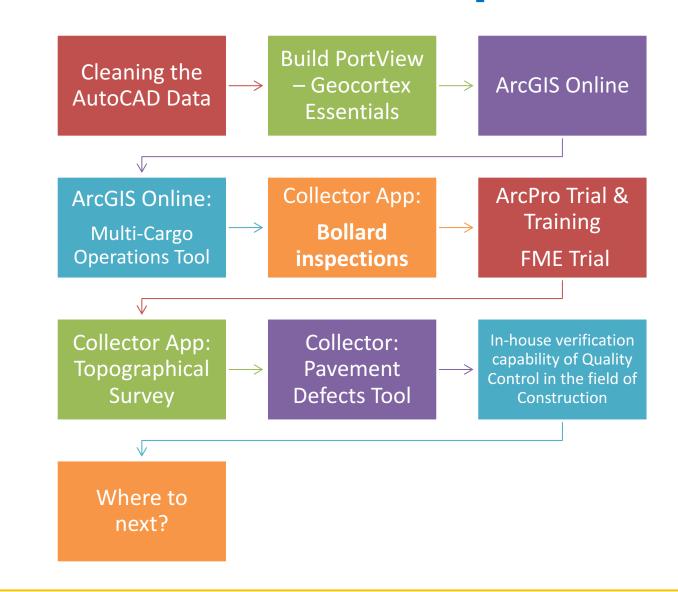
Motivation for Improving our GIS



Current asset data workflow

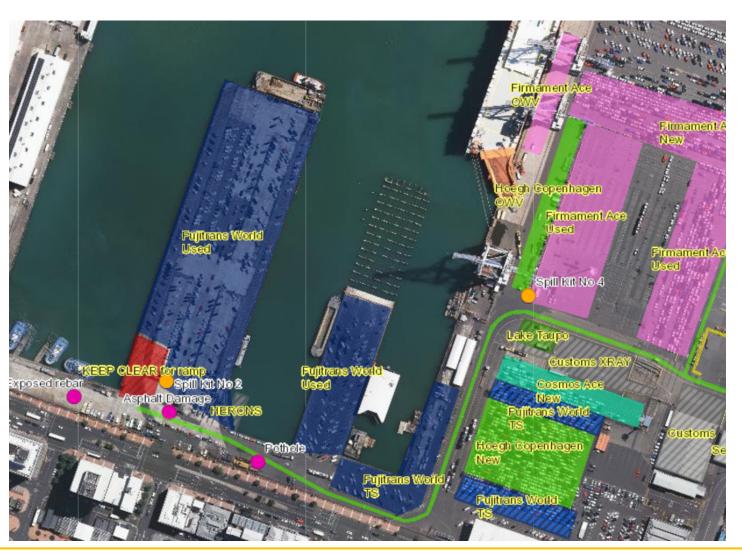
- FME transformations time
- "PortView" Data not up to date
- Single source of truth still CAD
- Inspection still paper-based
- Limited number of users contribute to data
- Data dictatorship

Transformation Roadmap



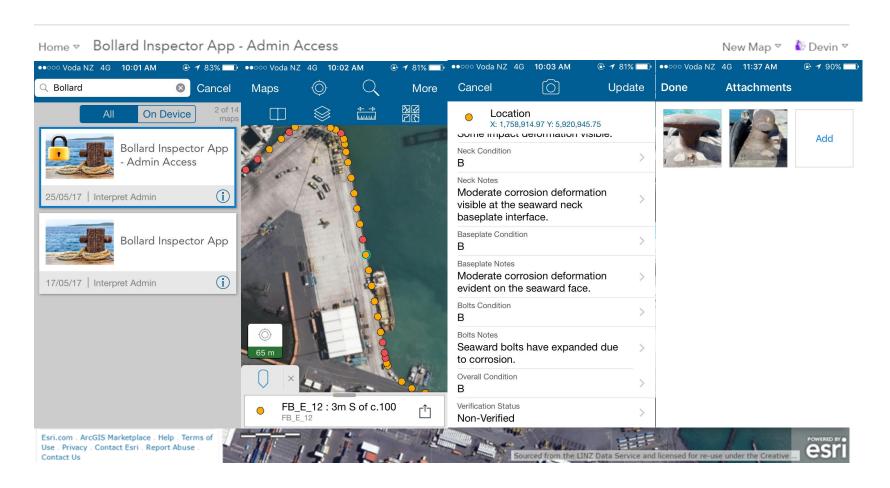
Business Improvement

MultiCargo Ops Tool



Business Improvement

Bollard Inspection App



Portable RTK_Enabled GNSS Survey Device

- Work with Collector for ArcGIS
- Increased accuracy on site (1cm RTK real-time accuracy)
- Provide GPS metadata



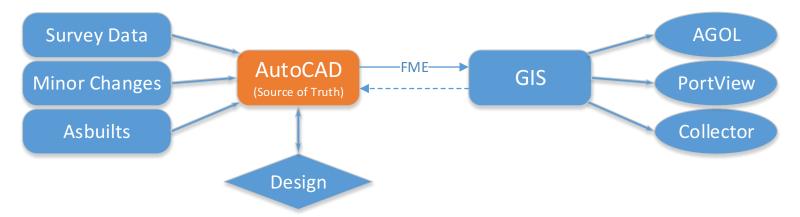
Increased accuracy and efficiency of maintaining asset information

Video Demo

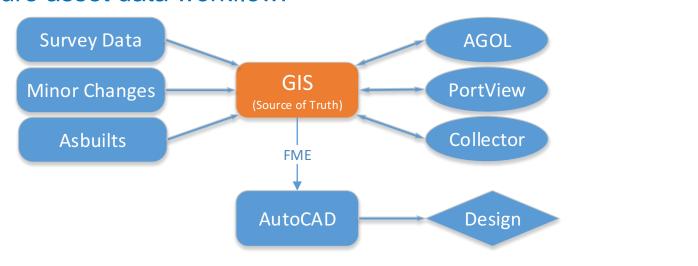


Change of Asset Data Mangement

Current asset data workflow:



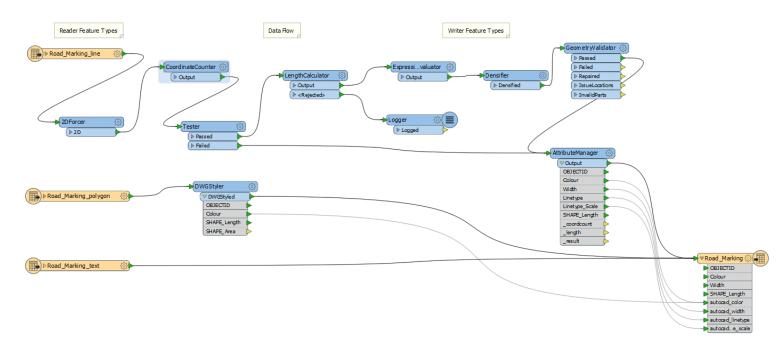
Future asset data workflow:



Technical Challenges

- FME Transformation (CAD GDB CAD)
- Data editing efficiency AutoCAD vs ArcGIS Pro





Where to Next...

- Document management to fully enable GIS
- Get management comfortable with cloud
- Getting IT department involved as a key player and supporter
- Unleashed Business Data Analysts on ArcGIS Maps for Power BI.
- 3D model & 3D asset management
- Live feed of vessel and plant GPS data
- Emergency management / Situational awareness



Questions...

Fred & Devin | 16 August 2017

