

# Calgary Water Presentation to IAMA workshop

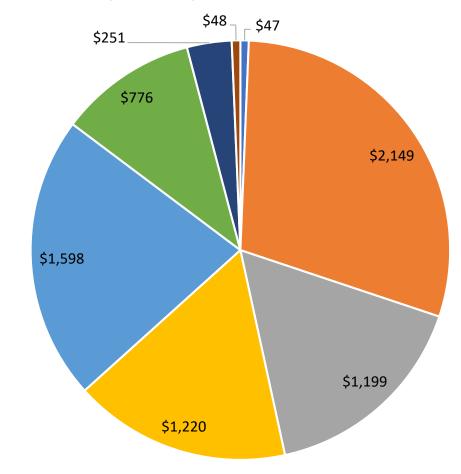
Oct 9th, 2019



## Profile of Assets in Water

- Building
- Storm
- Wastewater Treatment
- Wastewater Network
- Water Network
- Water Treatment
- Land
- M&E

Value of Assets (in Millions)





# Back Ground - 2009

- Most business units are struggling with TCA and TCA/AM integration
- Water has a very good TCA/AM reputation
  - Mature AM system
  - Waters decided to report TCA using data from AM
  - Dedicated TCA staff
  - Initial TCA data were extracted from Asset Management System
  - At the beginning, TCA requirements are quite strict and detail
  - Lacks automation, labour intensive, error prone
  - No clear, streamlined process for loading new assets

V05



## Problem Statement - 2012

- Multiple data sources, no single point entry
- Varying levels of data detail
- Delays in accessing data for new assets
- Allocating costs/soft costs to quantities highly manual
- Estimating & correcting data is labour intensive
- Reporting timelines are too tight, especially at year end
- No apparent materiality limit
- Growing staff frustration

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# Summary of Observations - 2012

- Composite asset register with limited TCA automated functionality
  - Adversely impacts asset hierarchies disposals, write-downs and validation
- Process more accounting-centric than an enabler of asset management
  - Capitalization date & materiality limit unreasonable
- Water TCA Governance missing
  - No clear direction or streamlined process
  - Staff over-whelmed and have little input to change



#### PRT Development

## Challenges with Asset Reporting Data

- No Unified Source of Information
- Volume of data involved in reporting
- Unclear when an asset is in-service
- Invoices at year-end were often forgotten or overlooked
- Unclear what activities are programs and which are projects
- Miscommunication between groups/ Not knowing what needs to be asked



#### PRT Development

#### Solution to Issues with Asset Reporting

- Developed in TI for projects
- Water was an early adopter and made enhancements to the spreadsheet
- After two years of using the spreadsheet development of the PRT began.
- Project Reporting Tool









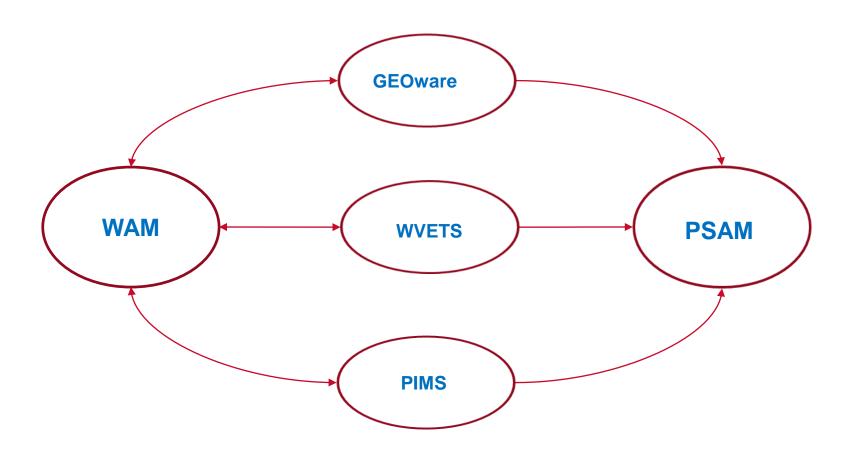
#### TCA Centralization and Project Costing

- In 2017 the responsibility of TCA reporting was centralized into Finance
- New TCA team was formed at the same time
- Project costing Introduction
- Project costing added 3 new chartfields to account coding string
- Project Costing rolled out at deadline before all issues sorted out.
- Lots of issues at first as many systems needed to be updated in order to accommodate new fields. Some were too costly to open up and work arounds were needed.
- Most pressing Oracle Work Order Management



# System Integration Issues

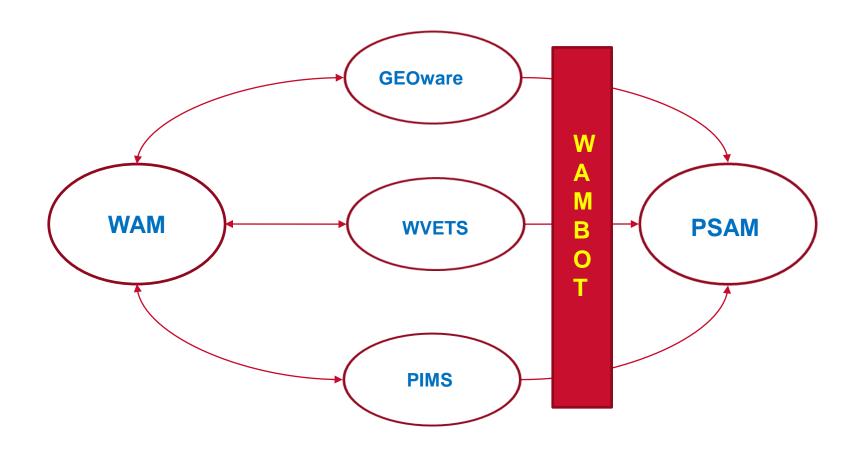
How the Systems 'Speak' to each other





# System Integration Issues

WAM Bot



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#### Summary

- TCA reporting is a complete process from cradle to grave for each type of asset.
  - Data Inventory/verification
  - Data Collection
  - Tracking/reporting new existing/new assets (both quantity and cost)
  - Disposal of old asset
- 2. Complete integration between AM/TCA will:
  - Save time in Data Collection
  - Can be report in detail (but NOT recommended) or roll up
  - Make disposal process more accurate
  - Allows for reconciliation between TCA/AM
  - Reporting new assets at year-end can be a challenge
- 3. De-Coupling TCA/AM
  - Reporting TCA can be more simplified
  - Need two separate systems to track TCA & AM
  - Overtime, the gaps between TCA and AM will get larger
  - Disposals are done on a financial basis rather than a like-for-like replacement
- 4. Intergrade the systems (TCA/PRT/AM)
  - Consistence reports
  - Audit compliances
  - Need to think through before implement the systems and processes



#### **Round Table Discussion**

**Questions?** 



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# Thank you!

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