



Increasing customer value with improved asset management

Don't open the lolly cupboard too early!



-



Melbourne
Water

AMIS-

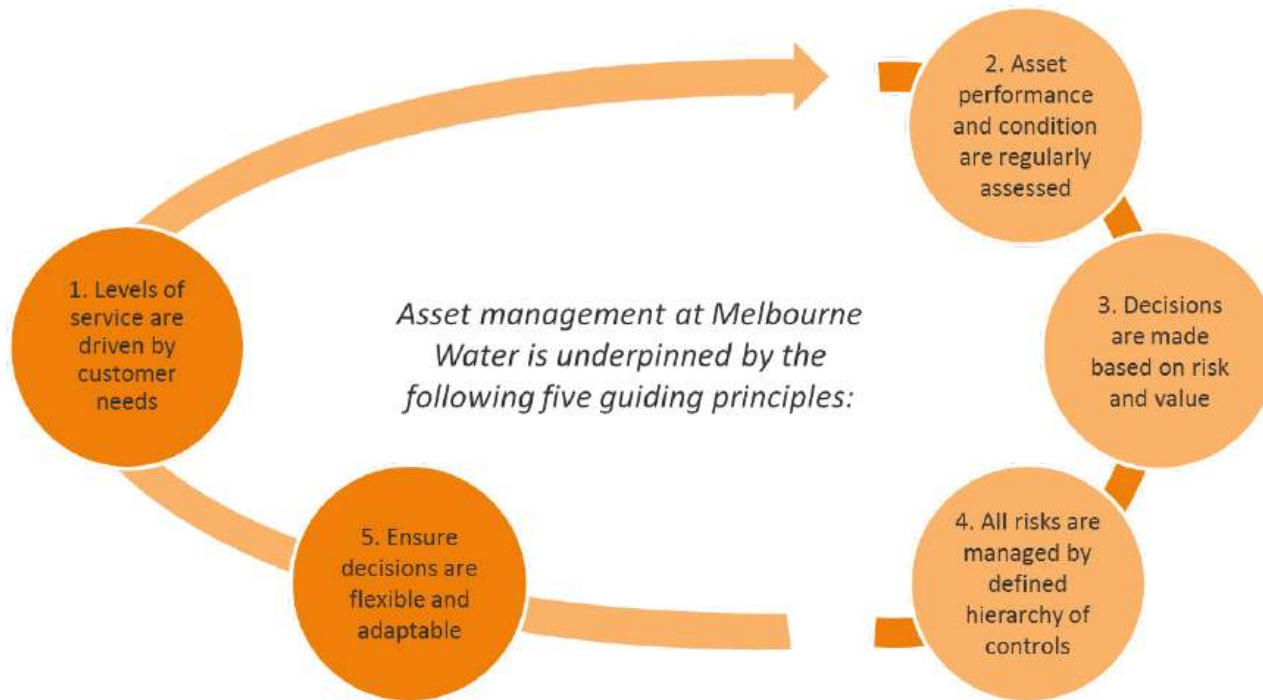
Asset Management Information System Context

Melbourne Water takes a "whole of life" approach to asset management.

Critical to implementation of this approach is implementation of an effective asset management information system (AMIS)

The AMIS supports management of:

- \$10B assets
 - Built
 - Natural Assets
- 50,000 work activities per annum
- \$100M per annum
- 500 users -MW and Service Providers
- Informs major investment decisions



Decision options

Decision Context:

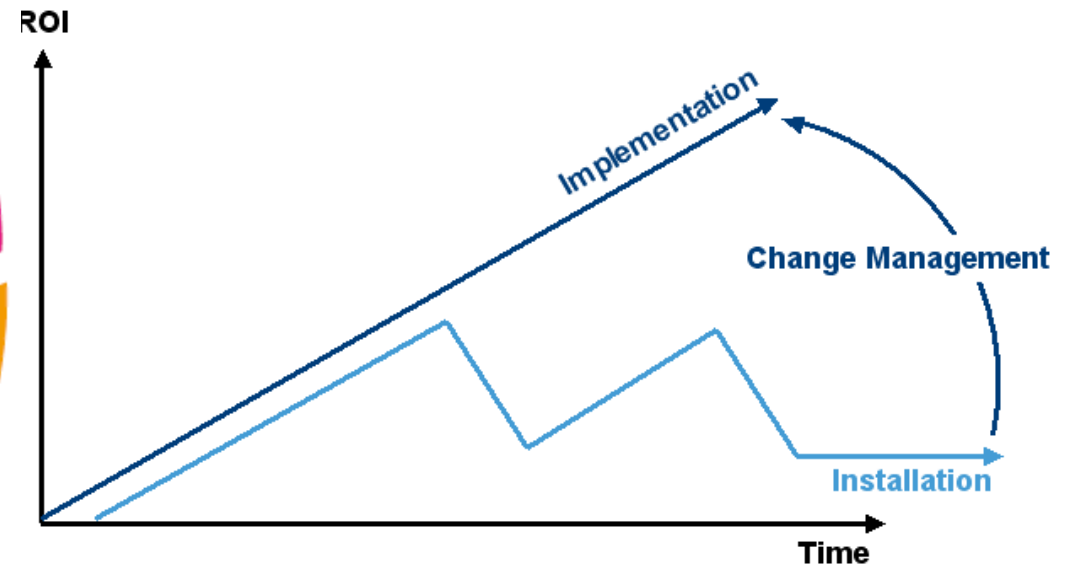
- *Customers seeking increased service offering*
- *Pricing pressures*
- *Significant asset base – can we adapt and optimise?*
 - *Our system is 15 years old (Hansen V7)*
 - *No ongoing incremental upgrade path*
 - *Significant investment to move to Hansen V8*

Options

- *Invest in a substantial version upgrade,*
- *Go to market for a replacement system, or*
- *Do nothing?*



People and Process before Technology



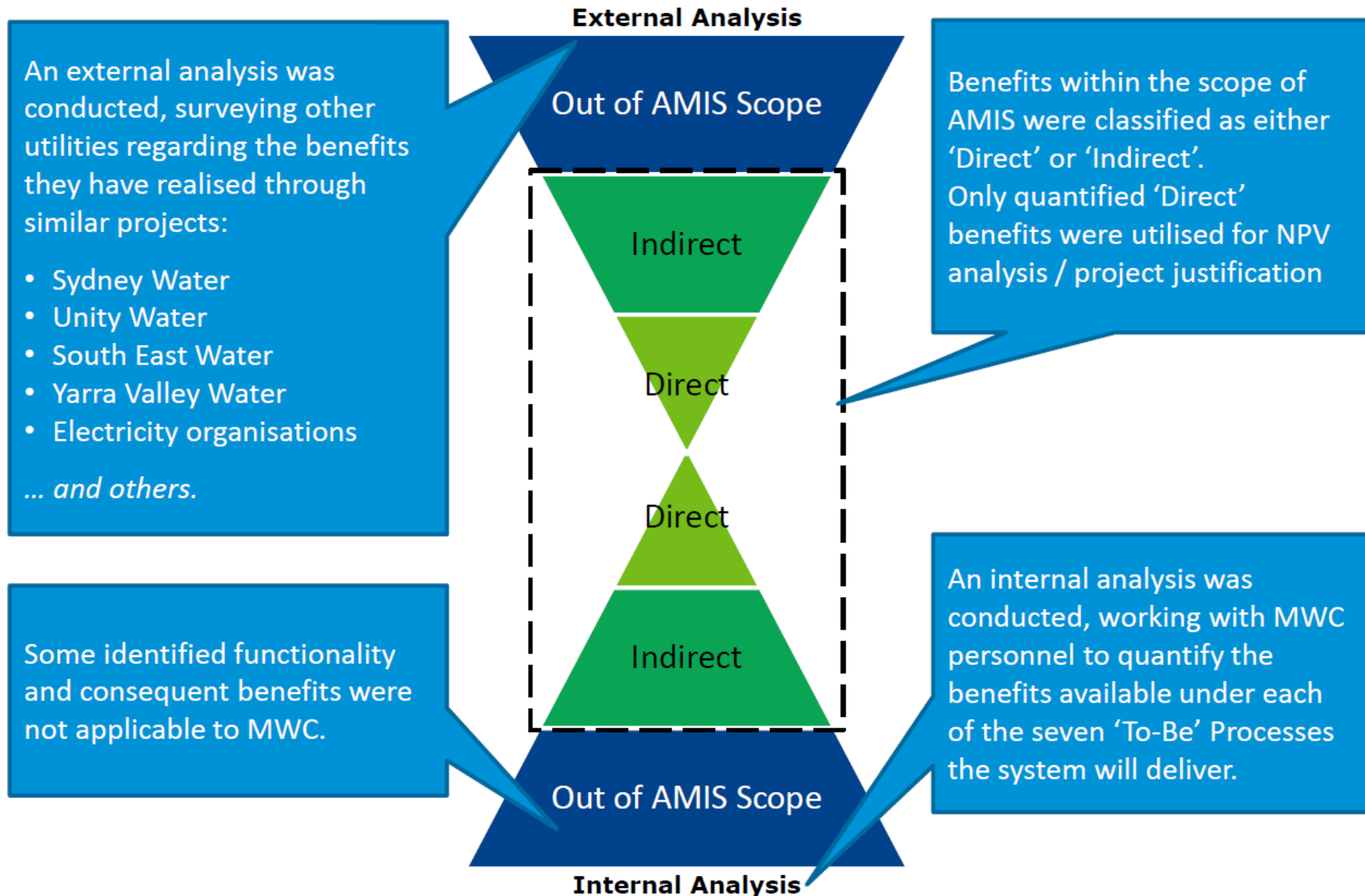
People and Process before Technology



The result was:

- *Process Improvements - related to 7 core AM processes*
- *Non-Process Improvements - related to org structure, role descriptions, practices , etc.*
- *System Improvements - related to support of improved processes*

The Melbourne Water Assessment



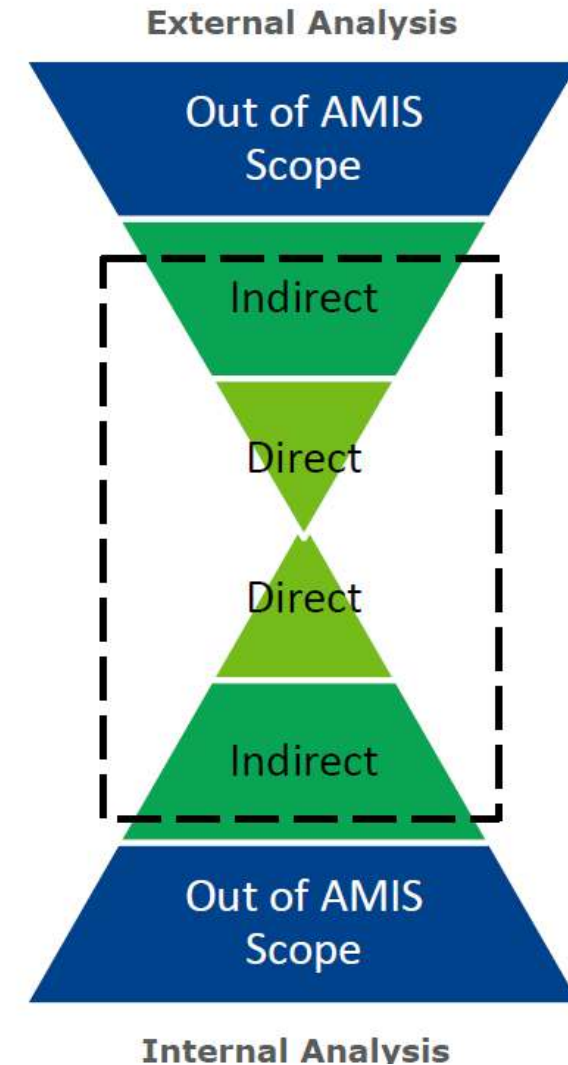
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What we want or desire
(show me the tool!)



vs.

What we need!

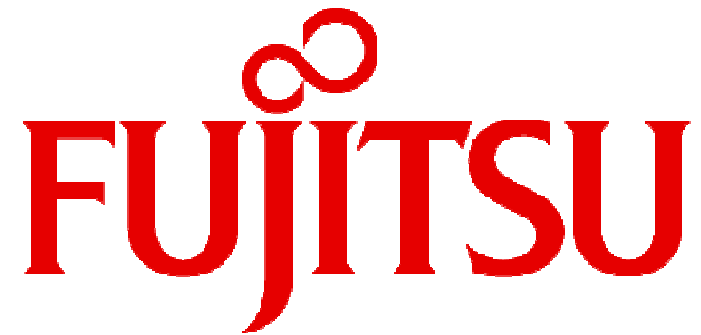


Why Maximo?

- Met all the criteria to implement Melbourne Water's 7 core processes.
- Clearly demonstrated the functionality to grow and adapt with Melbourne Water's future Asset Management goals and objectives (15 year strategy).
- Considered to be a robust and well supported technology already well utilised within the broader water industry.

Why Fujitsu?

- Fujitsu provided confidence that they could deliver successful outcomes demonstrating sound method, process and industry knowledge
- Melbourne Water was looking for a business partner to promote and realise value to both parties throughout project development and delivery.
- Understood Melbourne Water's preparedness for change and had capacity to challenge assumptions.
- Ensure that the EAM (Maximo) is introduced and implemented as an enabler of the new business processes



shaping tomorrow with you

What Fujitsu brings

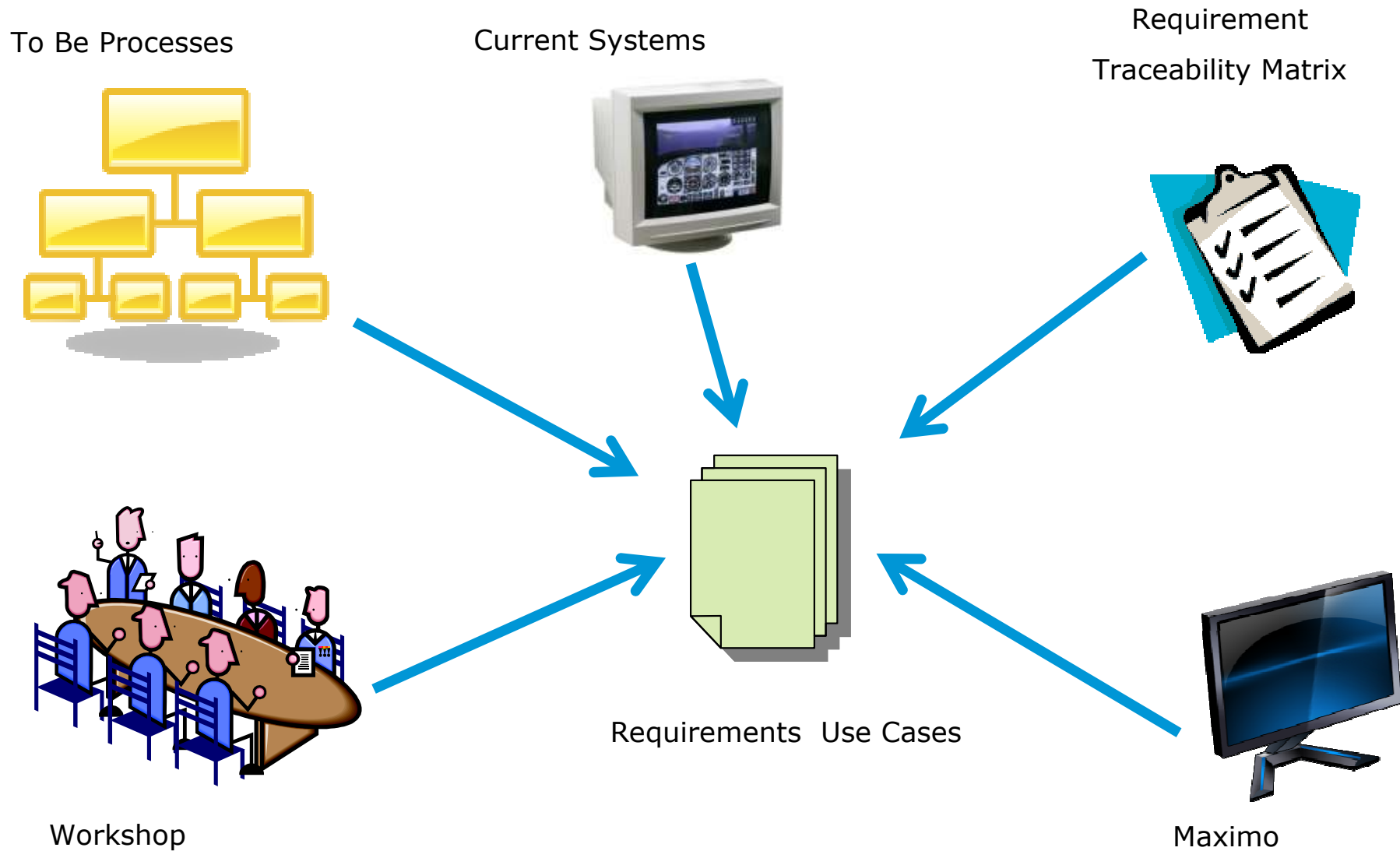
A Partnership approach to join with Melbourne Water in their AMIS journey bringing:

- Experience in large scale SI Projects
- Pragmatic and proven EAM methods for establishing a single enterprise Asset Management system with Maximo
- Partnering with Certus
- Informed Change agent advice
- Functionality landscape advice
- Strong knowledge and experience with Enterprise Integration
- Strong IBM Partnership

Delivering on the Vision - Fujitsu approach

- Large Maximo projects are firstly large SI projects
- Project approach that follows Melbourne Waters vision
- Developing a single solution for many different types on asset Management Business
 - Mechanical & Electrical
 - Civil Asset and Network
 - Waterways and River Health
- Resulting in a very diverse set of Assets and Locations

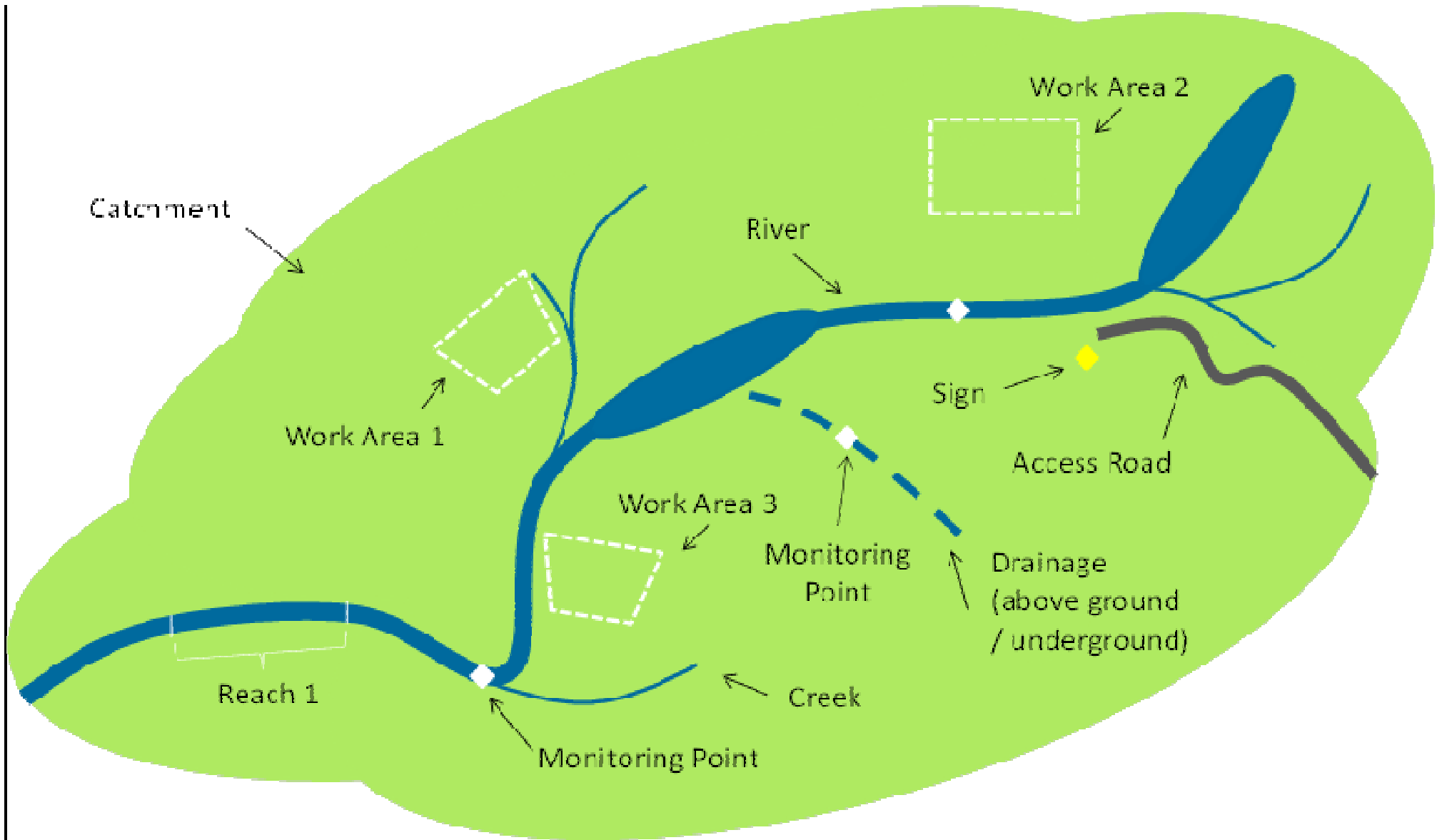
Delivering on the Vision – Setting the Baseline



Differing requirements and features - examples

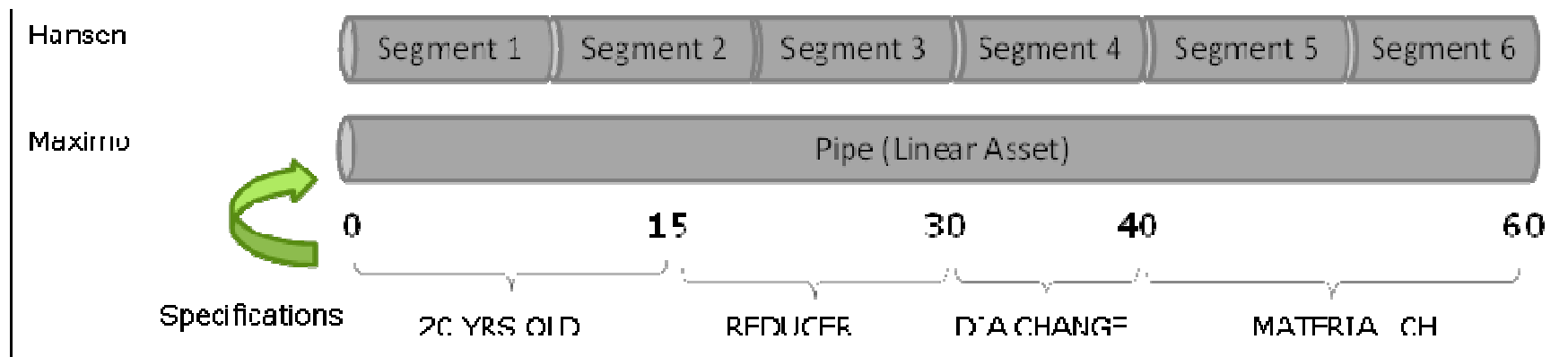
- Waterways and Riverways
 - Asset Managers and Planners are GIS Users
 - Dropping in and out of Maximo is not intuitive
 - Solution: Use GIS as the client for Maximo
 - But still use same Maximo processes and data
 - Condition Ratings is very complex
 - Many linked meters with targets
 - Formulae to generate condition rating from meters
 - Monitoring points on condition ratings
 - Work Areas are complex (river banks, catchments)
 - Work Area polygons defined in GIS
 - Locations for repeated work
 - Linked with PM's or Work Orders
 - Spatial work done by GIS

Example Waterways Location Profile

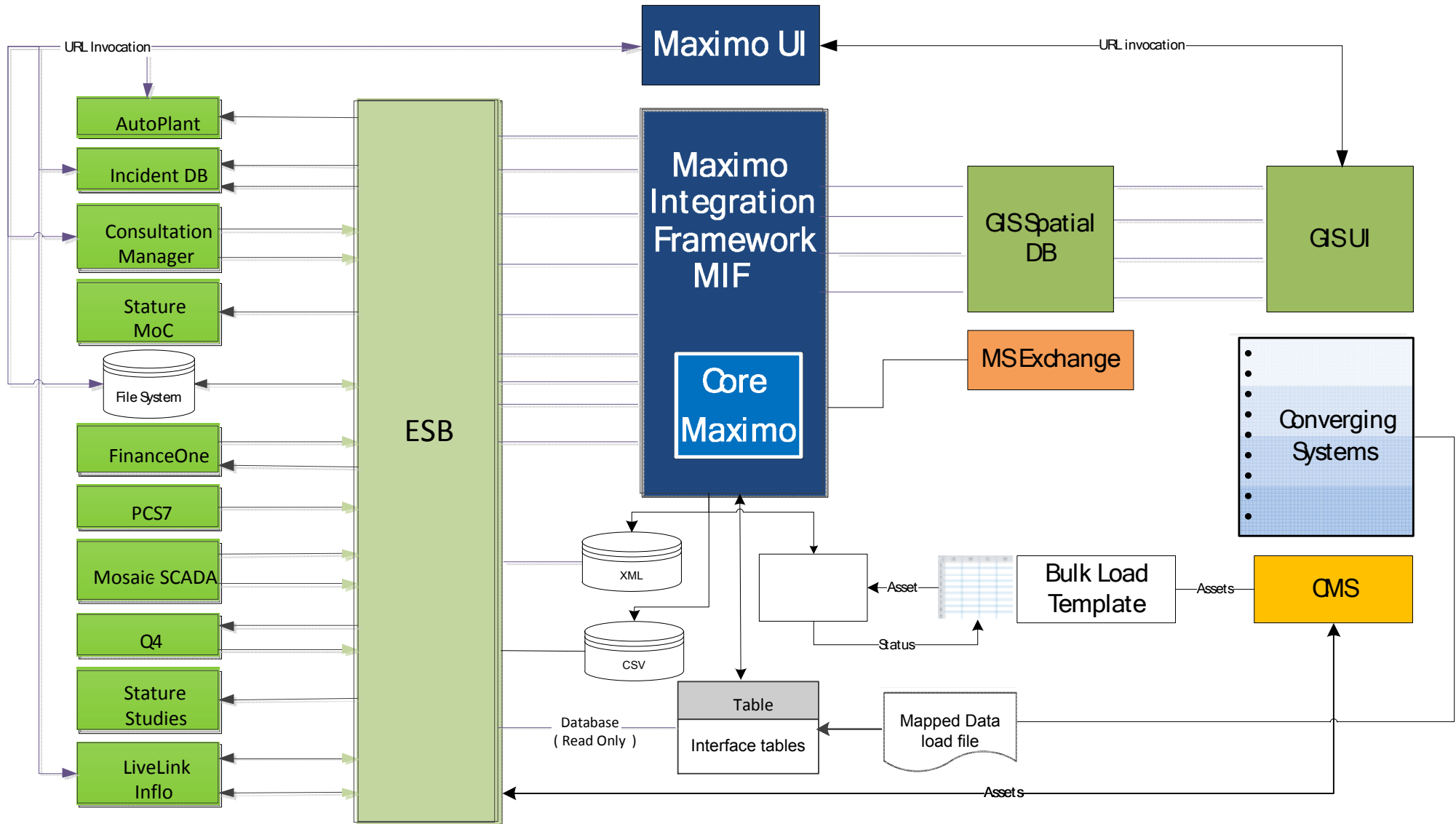


Differing requirements and features - examples

- Types of Locations, Assets and Work Orders
 - Spatial/Polygon, Linear, Point
 - Maximo Linear Assets perfect for pipes lines etc.
 - Hybrid solution required for rivers, creeks and drains
 - Work Order polygons created in GIS and integrated
 - Asset Data Conversion has many patterns
 - Requires a GIS synchronisation



Delivering on the Vision – Solution Architecture



Delivering on the Vision – Maximo Modules

- Linear Asset Management
- Scheduler for better resource management
- Health and Safety
- Calibration
- Utility
- Maximo integration flexibility for the enterprise
 - GIS
 - Finance
 - SCADA
 - Incident Management
 - Online Permit Request

The challenges of change


- Another Partnership for Change
- Building on Melbourne Water's current drive rationalisation and change
- Still recognising the capacity of the current organisation
- Focusing on the key determinants of success
- Project focus on a business value based scope

Building a learning organisation for AMIS

- Challenges:
 - People and Process before Technology
 - Focus on business improvement opportunities
 - Maintain governance
- EAM business improvement journey
 - Fujitsu has kicked-off the project and will support Melbourne water on this journey
 - Maximo as EAM
 - Melbourne Water ownership
 - Benefit realisation management



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Questions?



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