Asset Condition
It’s only one factor in a complex puzzle
What we are doing

1. Introduction
2. Types of data
3. Relevant data factors
4. Analysing the data
5. How the data can be relevant
6. What outputs can the data reveal
Deakin – the Introduction

Deakin University was looking for a dynamic, fluid and live model to manage data for its asset portfolios.

Previous data gathering programs quickly became static and difficult to manage.

Assetic provided the software system, and the data was collected as CLEAN data.

The data was captured by an independent third party.
Clean Data

Like any software...
Rubbish IN = Rubbish OUT

NB: Not a Deakin University Image
The Collect

Over an eight month period, Deakin broke the collect into three stages:

1. External & Open Space Assets
2. Residential Buildings
3. Commercial, Administration & Educational Buildings
External & Open Space Assets

Roads, Signage, Fire Assets, Fencing, Furniture, Access & Carriage, Sports Areas, Lighting, Pedestrian Pathways, Retaining Walls, Shelters & other areas were all included.
Residential Buildings
Commercial & Educational Buildings
Commercial & Educational Buildings
Let’s Talk Condition

Endorsed by various international authorities, Assetic applied and uses the National Asset Management Strategy (NAMS) scale scoring system:

• 1 to 5 scale: 1 being highest, 5 lowest
• 0 is brought in for BRAND NEW (under DLP)
• 6 is brought to trigger IMMEDIATE ACTION (alongside Safety)

Condition 5

NB: Not a Deakin University Image
Condition Examples

Condition 0

Condition 1
Condition Examples

Condition 2

Condition 3

NB: Not a Deakin University Image
Condition Examples

Condition 4

Condition 5
Condition 6:
The paint is Condition 6
The slab remains in Condition 1

Condition 6:
The Nozzle joining the gutter & downpipe
renders the stormwater exhaustion useless
What Does Condition Tell Me?

Condition is a factor pertaining to the COMPONENT.

A COMPONENT is a single element of an ASSET.

The ASSET is the sum of all the COMPONENTS.

The CONDITION tells me where, at that point in time, that particular component is along the asset LIFE-CYCLE journey.

Condition on its own only provides me with the view to assess the single element as part of the asset.
What are the Other Factors?

1. Safety
2. Fitness for Purpose
3. Appearance
4. Strategic Importance
5. Business interruption Criticality
6. Accessibility
7. Functionality
8. Utilisation
Safety

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Fitness for Purpose

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Appearance

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Strategic Importance

THIS IS CRITICAL TO PLANNING!
Managed from University, to Campus, to Building, to Floor, to Functional Space.
Business Interruption Criticality

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Accessibility

26/11/2013
Australia
Victoria
Geelong
Waurn Ponds

South latitude 38 Degrees 12 Minutes 2.08 Seconds
East longitude 144 Degrees 18 Minutes 3.88 Seconds
0m, NW.
Functionality

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## Functionality Assessment

### Assessment Characteristics
- **Assessment ID:** 20
- **Rater:** Horton, Tim
- **Rating Date:** 14/04/2015
- **Comments:**

### Service Characteristics
- **Responsible Branch:** Buildings Management
- **Activity:** Public Amenities
- **Activity Location:** Orangeville
- **Activity Currently Practiced:** Yes
- **Reasons for Non-Practice:**
- **Shared Space:** Yes
- **Shared Activity:** Public Conveniences

### Analysis
- **Overall Score:**
- **Fit For Purpose:** 0
- **Analysis Comment:**

### Fitness for Purpose Assessment

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<th>Assessment Criteria</th>
<th>Description</th>
<th>Requirement</th>
<th>Exist</th>
<th>Rating</th>
<th>Weighting</th>
<th>Renewal Cost</th>
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Utilisation
If I add this all together...

- Make informed decisions based on the complete picture

- Determine Maintenance Programs against desired intervention and funding models

- Decisions in asset management can be influenced by Appearance, Criticality, Utilisation or Functionality as well as the asset’s current condition

- Service shifts can be expected to occur at least 3-6 times during the lifetime of any asset. Condition may be a mute factor where service strategy changes.
If I add this all together...

• Do I have sufficient space:
  – Are there areas that could be better utilised?
  – Is my service strategy accurate?
  – Can I OPTIMISE my spaces?
• Am I certain that all the areas can be accessed by able and impaired persons?
• Is my Functionality completed using a Matrix?
• Is my Backlog / Deferred Maintenance correctly calculated & managed?
• Are my Commercial and Education Strategies suitable to my university’s business?
Asset Life-cycles

Long-life assets

Short-life assets
Overall Maintenance Expectancy

NB: Diagrammatic example only – not specific to Deakin University
Functionality Cost Breakdowns

NB: Diagrammatic example only – not specific to Deakin University
Service Criticality & Outcomes

NB: Diagrammatic example only – not specific to Deakin University
Component Performance Against Corporate Expectation

NB: Diagrammatic example only – not specific to Deakin University
Deakin now understands business like never before:

Deakin has a strong grasp on these business areas:

1. Use Asset Replacement Value as a critical tool - reporting maintenance liability as a % of ARV
2. Define Backlog using various drivers
3. Manage maintenance according to Strategic Importance
4. Understand liability for maintenance & renewals
5. Provide indicative works programs to guide staff
6. Model current, future and perceived service changes
7. Provide evidence to confirm theories and decisions
8. Remove the anecdotal environment, and deal in truth
9. Combine information across multiple Business Units to ensure the university has total strategic asset management
Thank you

Love your assets.

After all, you’re all they have!

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