



From Transaction to Enterprise

Michael Gaunt

Improving Digital Workflows Through Open BIM



Who am I?

Michael Gaunt – MEng(Hons) CEng MICE

- Senior Information Manager at Mott MacDonald
- Experience Working on Major Projects
 - Tideway, London, UK (£4.2bn)
 - High Speed 2, Birmingham, UK (40bn+)
- Passionate about:
 - Model Based Delivery
 - Common Data Environments
 - Enterprise Delivery



@MikeGaunt

We work in
160
countries

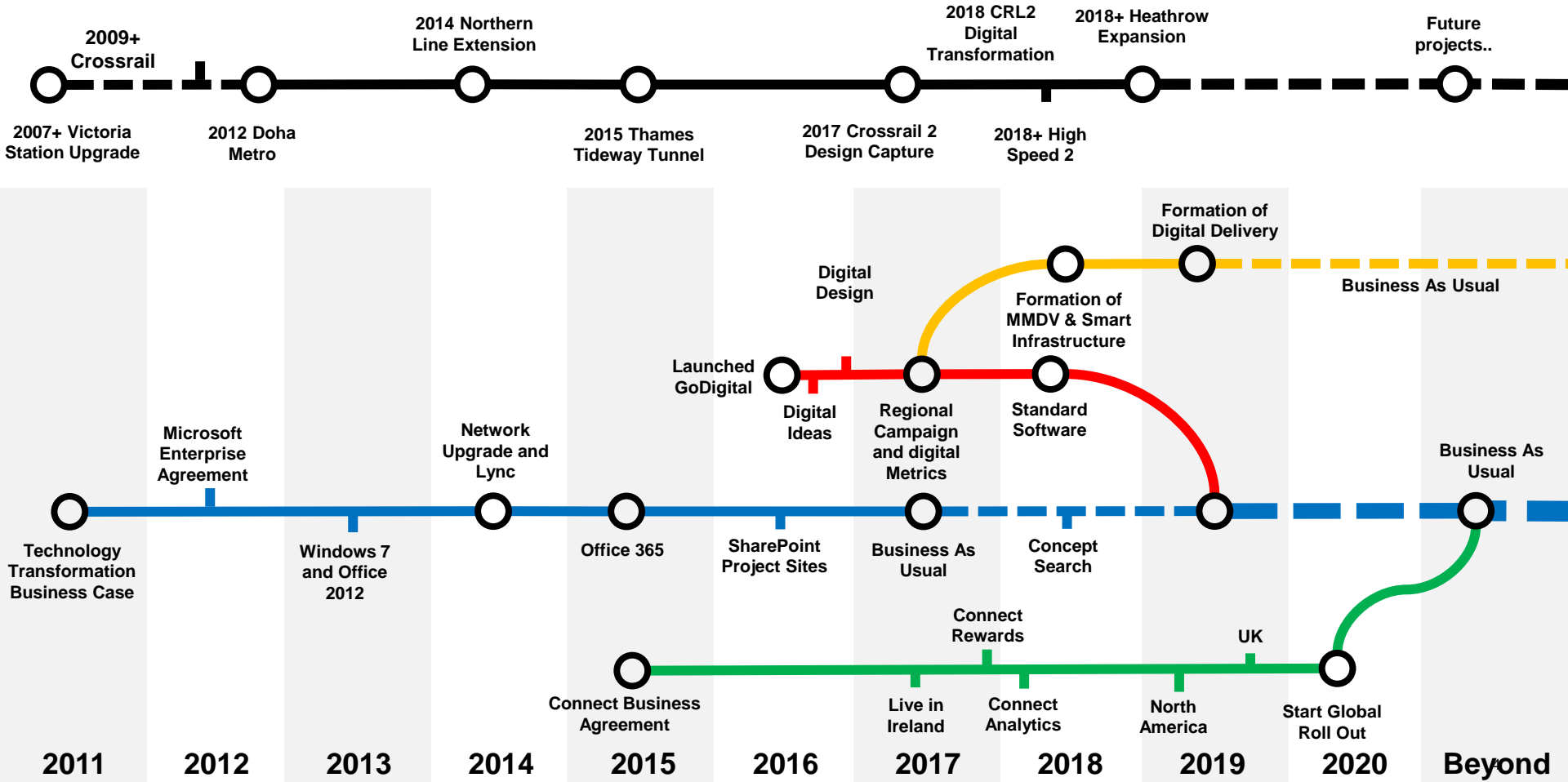
170
permanent
offices in over
50 countries

16K
staff

\$2
billion
turnover

Over
150
years'
heritage

The Mott MacDonald Digital Journey



Model Based Delivery

Tideway challenged the CVB JV to reduce the delivery programme. Mott MacDonald implemented a BIM model only delivery approach.

Solution

By removing abortive drawing production, significant design delivery efficiencies were achieved.

Outcome

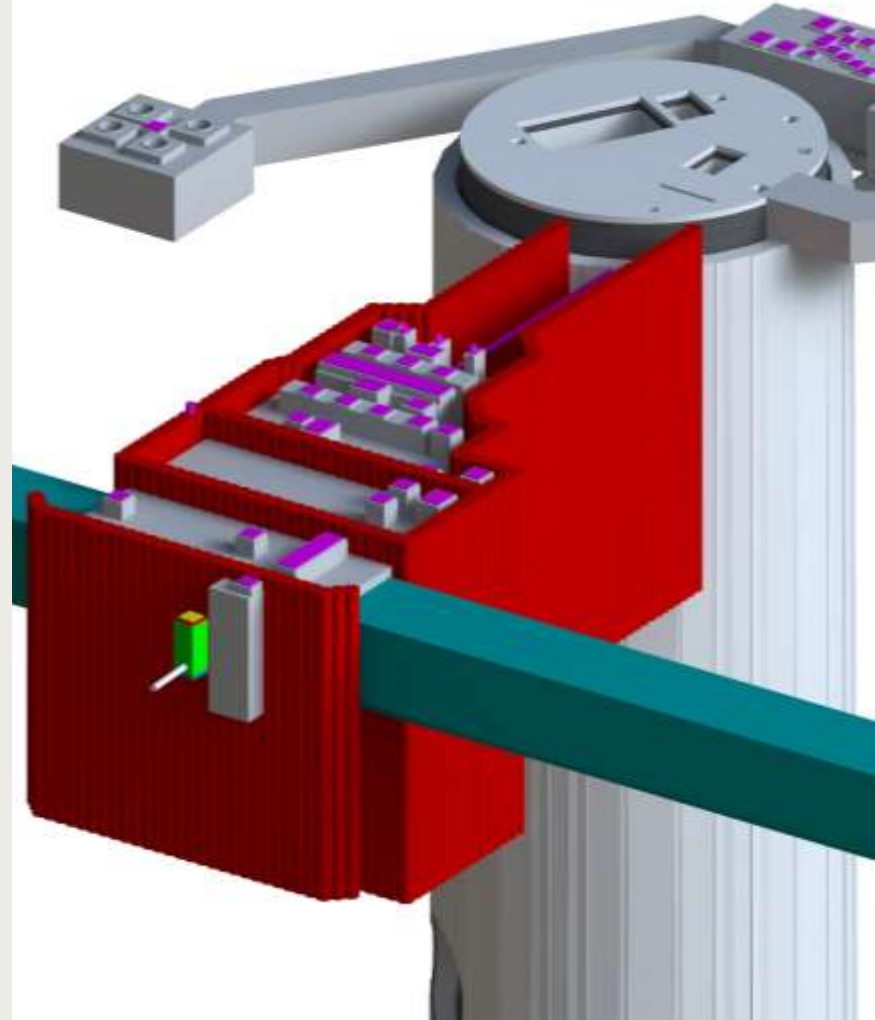
The client received high quality design models earlier in the programme. A full digital audit trail was available for each model to demonstrate assurance.

33%

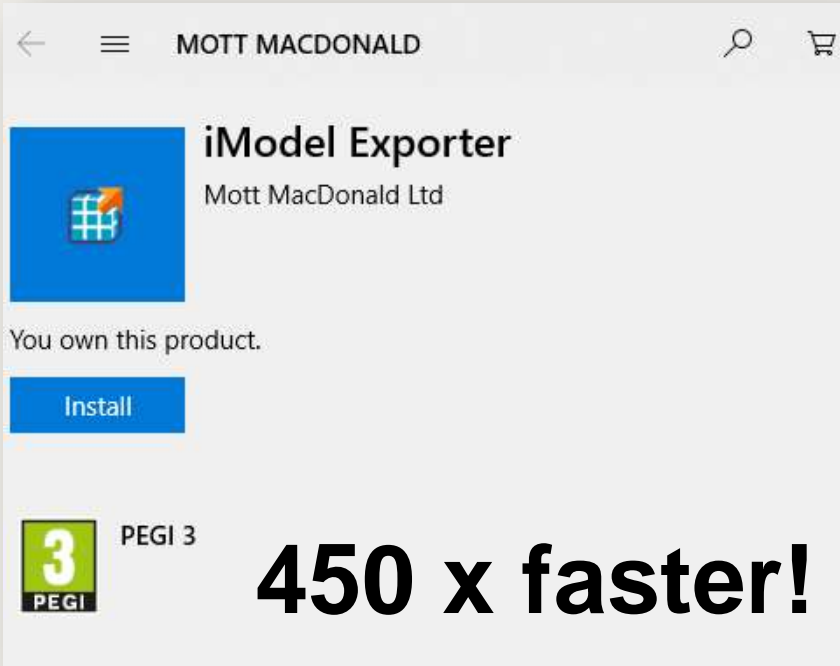
Design production
Savings in comparison
to traditional delivery
methods

6 month


Reduction in design
programme



New Technology & Productised Design




← ≡ MOTT MACDONALD 🔍 🛒

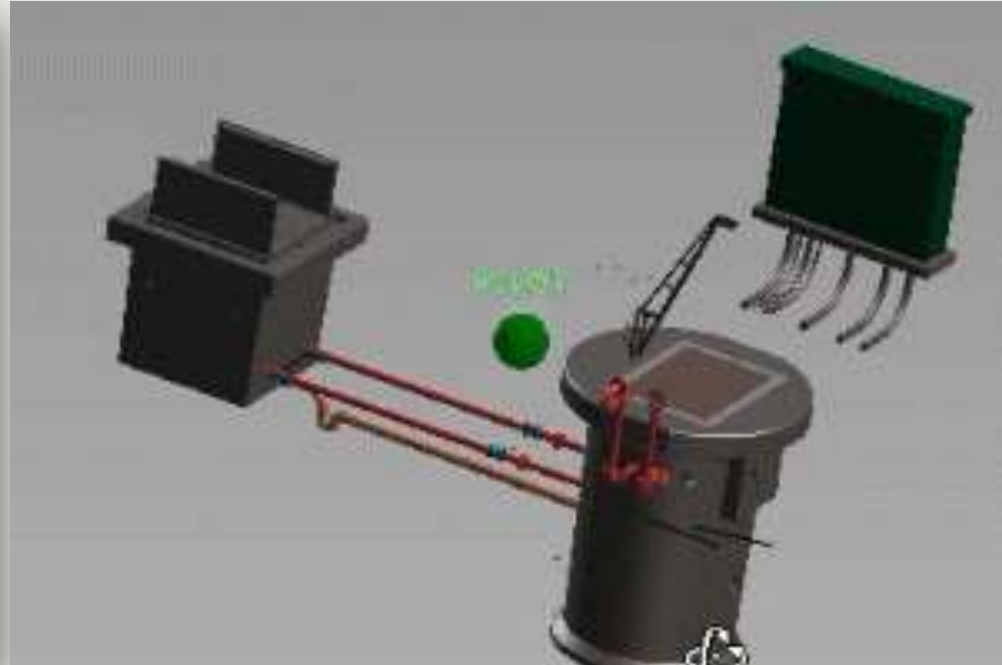
 **iModel Exporter**
Mott MacDonald Ltd

You own this product.

[Install](#)

 PEGI 3

450 x faster!



NWP (global)

Rain radar (local)

Water temp

Flow sensors

Tides/swell


Collaborating with local partners, we pinpointed **10 invaluable data streams** to measure the performance of Auckland's wastewater infrastructure.

Water quality

CSOs

GIS

Rain sensors

An aerial photograph of a city harbor, likely San Francisco, showing a large body of water with a bridge in the distance and a dense urban area in the foreground. Numerous white circular markers with black outlines are scattered across the image, representing data points. The text is overlaid on the lower-left portion of the image.

These created one billion **data points** which are analysed every single day.

Challenges

Traditional Transactional Business Model

Siloed Working

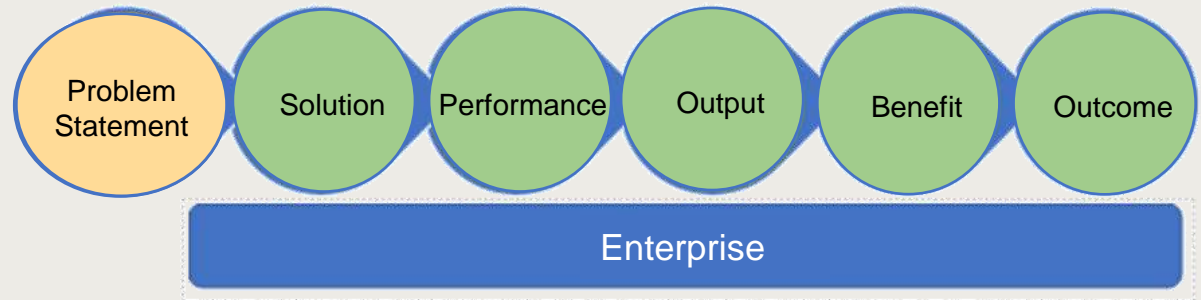
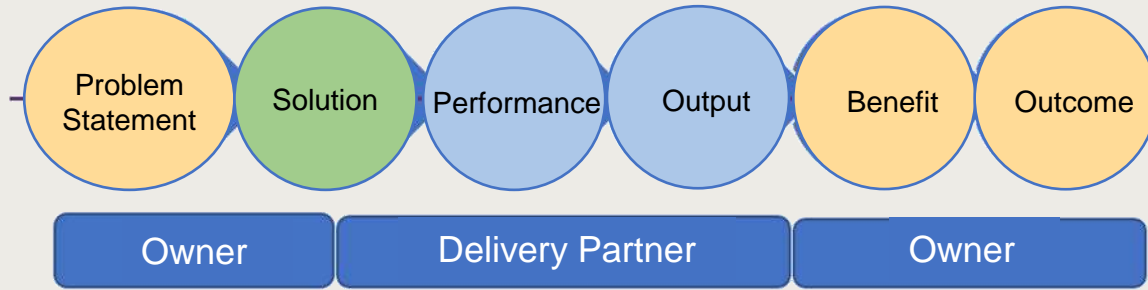


Broken Value Model



Transaction to Enterprise?

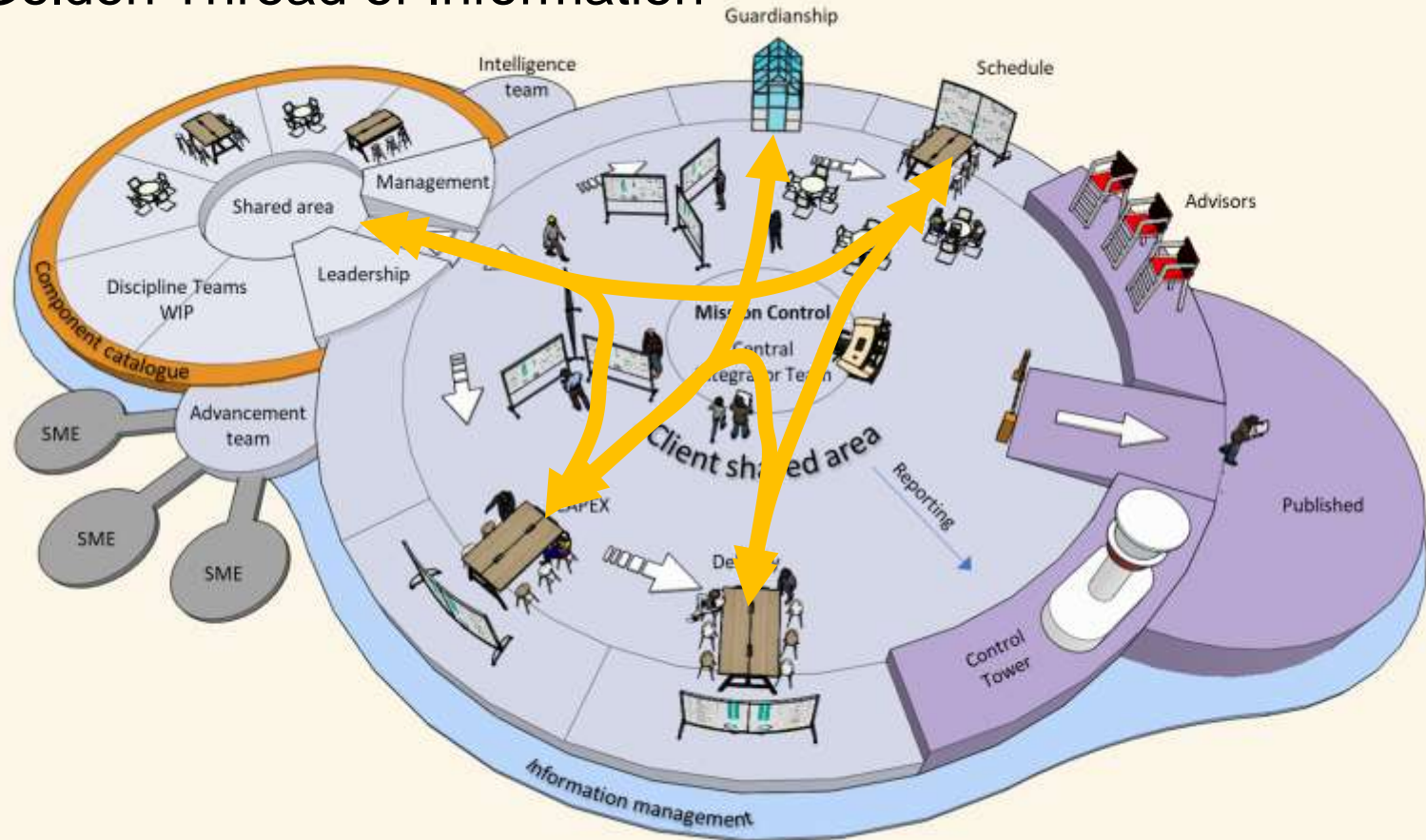
Value Based Business Models



Enterprise Organisation



The Golden Thread of Information



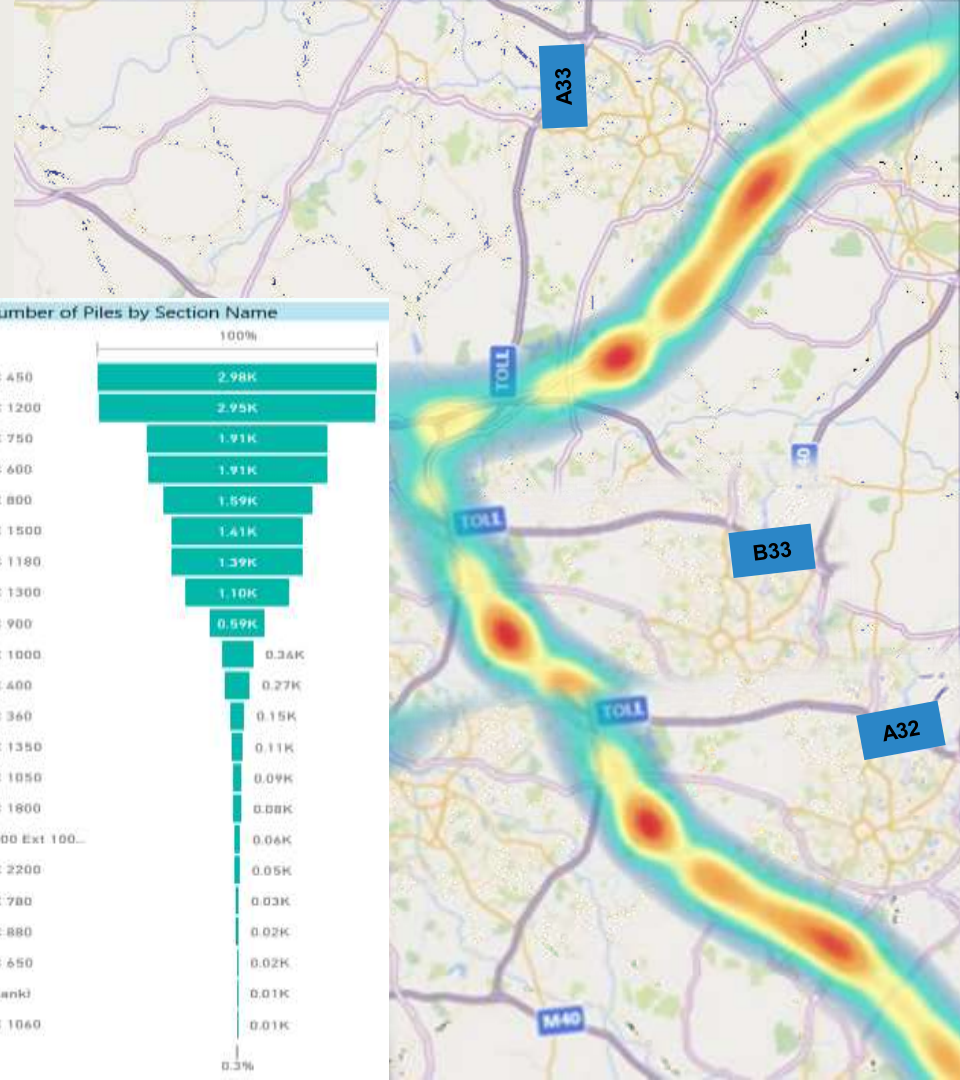
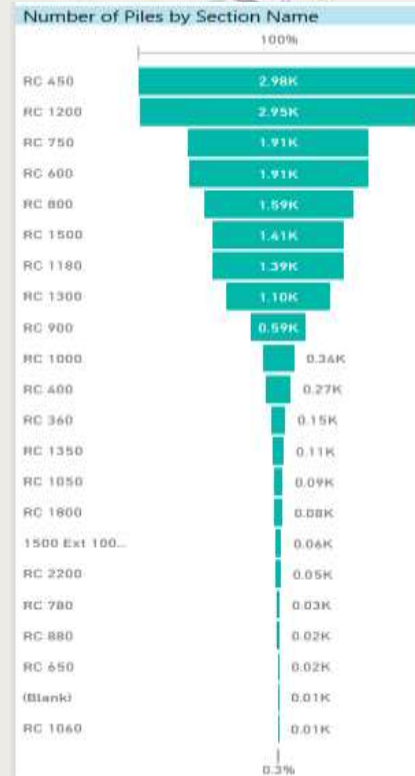
Value through Connected Data

Instant Change Identification

Continuous Logistics Optimisation

Design Standardisation

Reduced rework – design once?



Enterprise Organisation

For a bigger prize...



Thank you