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 MacDonalld

• 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
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

- **2011**: Technology Transformation Business Case
- **2012**: Microsoft Enterprise Agreement, Windows 7 and Office 2012, Network Upgrade and Lync
- **2013**: Office 365, SharePoint Project Sites
- **2014**: 2014 Northern Line Extension, Digital Ideas
- **2015**: Launched GoDigital, Regional Campaign and digital Metrics
- **2016**: Business As Usual, Connect Rewards
- **2017**: 2015 Thames Tideway Tunnel, Connect Business Agreement, Live in Ireland
- **2018**: 2017 Crossrail 2 Design Capture, Connect Analytics, North America
- **2019**: 2018+ Heathrow Expansion, UK, Start Global Roll Out
- **2020**: 2018+ High Speed 2, Standard Software
- **2020+**: Digital Design, 2018+ CRL2 Digital Transformation
- **2020+**: Formation of Digital Delivery, Future projects...
- **2020+**: Business As Usual

**Future Projects**

- **2007+**: Victoria Station Upgrade
- **2012**: Doha Metro
- **2009+**: Crossrail
- **2014**: Northern Line Extension
- **2015**: Thames Tideway Tunnel
- **2017**: Crossrail 2 Design Capture
- **2018**: Heathrow Expansion
- **2019**: High Speed 2
- **2020**: Digital Transformation
- **2020+**: CRL2
- **2018+**: Heathrow Expansion
- **2018+**: High Speed 2
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

iModel Exporter
Mott MacDonald Ltd

You own this product.

Install

450 x faster!
Collaborating with local partners, we pinpointed 10 invaluable data streams to measure the performance of Auckland’s wastewater infrastructure.
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
Modular Approaches
Value through Connected Data

Instant Change Identification

Continuous Logistics Optimisation

Design Standardisation

Reduced rework – design once?
Enterprise Organisation

For a bigger prize…
Thank you