Project 13: Digital Transformation

Andy Moulds

Digital Transformation across UK Infrastructure Enterprises

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About the speaker

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- Smart Infrastructure Head of Information Advisory
- Mott MacDonald
- Chartered Civil Engineer





Project 13

Embracing Digital Transformation

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Project 13

Measuring Enterprise Digital Maturity



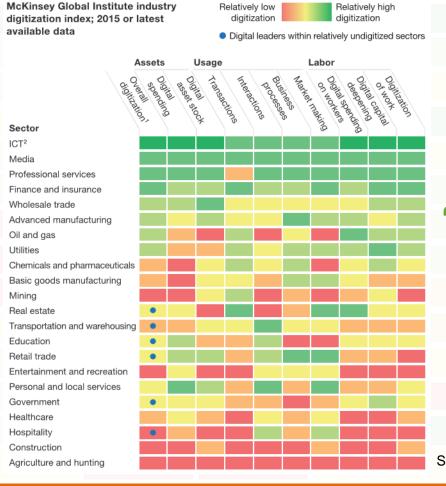
What are your top digital pain points?

Go to: www.sli.do

Ref: #1217













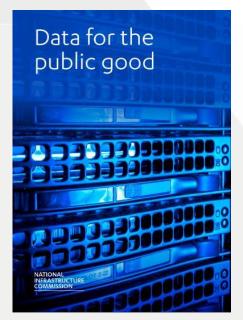
Source: McKinsey&Company

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Aligning government messages













The ICE Response Infrastructure Client Group (ICG)



A better business model for infrastructure delivery

- to identify, share and disseminate best practice in the development and delivery of infrastructure
- to provide a single voice to government and industry
- to support the effective deployment of products
- to achieve these by collaborating with other key industry groups





Project 13 Initiative



Project 13 Community

Shapes

- 350 individuals
- 140 organisations

Project 13
Executive Group

Delivers

- 8 Industry Leaders
- 7 Future Leaders

Infrastructure Client Group

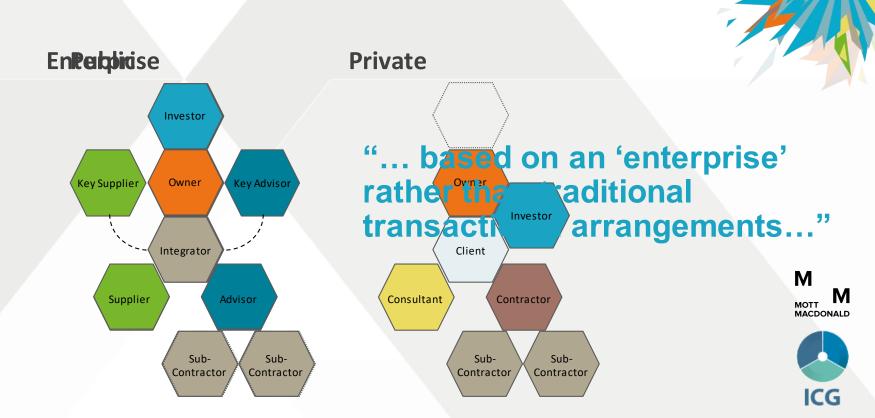
Sponsors

24 Client & industry organisations

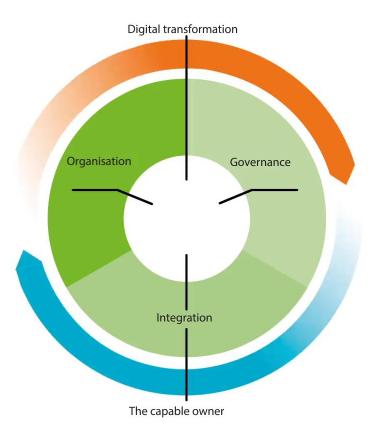




A new business model



ice 200



Project 13 workstreams

Governance
Organisation
Integration
The capable owner
Digital transformation



Three stages of maturity



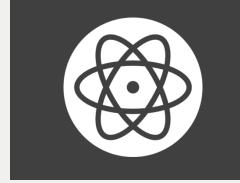




Integrated functions and relationships



High performing enterprise







Digital revolution

A state of digital abundance



Exponential reduction in cost to collect, process, transmit and store data:

- Provides opportunities to reinvent traditional business models
- Enables asset owners to deliver better services to customers
- Facilitates the dramatic cutting of cost and carbon impacts





Defining digital



- Recognising that value from information can deliver better customer outcomes.
- 2. The combination of physical and information systems to deliver more value than the physical alone.
- 3. A new way of working, built around systems thinking and enabled by emerging technology. It requires openness to innovation and collaboration.





Industry Readiness Level (IRL)

Digital transformation maturity assessment



Leadership

Commercial

Capability

Asset Delivery

Asset Management

	0 – Traditional	1 – Simple Collaboration	
Insight How well do you understand your customers?	No customer information available to most Owner functions Limited to payments, complaints and formal consultation with a small sample of customers.	Decision making accounts for defined customer preferences, but with limited personalisation. Data provides insight on customer value across multiple groups - including those who don't contact the Owner. Customer-led culture developing across Owner functions, but does not yet extend to partners.	
Participation How do you include customers in your decisions?	Customers viewed as passive recipients of a service. Owners seek customer validation of their plans. Captive customers have limited choice, with little transparency or differentiation in Owner's offers of services.	Owner is transparent in their use of personal data and informs customers of service availability. Plans in place to give customers more control over their services. Educated customers understand how their data is used, have insight into the bigger picture and buy into benefits of Owner activities.	





Industry benchmarking - IRL assessments



Transport

- Crossrail 2
- Heathrow
- HS2
- Transport for Greater
 Manchester

Energy

- National Grid
- Scottish Power
- UK Power Networks

Water

- Anglian Water
- Environment Agency
- Northumbrian Water
- Scottish Water
- Tideway
- Welsh Water





Capturing industry data

- Self assessment tool
- Establishes baseline
- Industry benchmarking
- Launch event July 2018
- Applicable beyond ICG







Project 13: Digital Transformation Report

Welcome, GoDigital

UK infrastructure industry digital benchmarking results:

The graphic shows a snapshot of the industry's current maturity, with scores increasing from the centre outwards, and darker shading indicating a higher percentage of owners at that level of maturity.



The infrastructure industry is ripe for digital transformation, but are the key players ready for change?

Digital transformation offers vast opportunities to improve infrastructure performance, not just in the delivery of new assets, but also in their operation and integration with existing infrastructure.

The benefits could be worth £22 billion per year by 2030.

This report provides a snapshot of the UK infrastructure industry's digital maturity - it's readiness for digital transformation. Despite the wide differences between owner organisations, a series of common challenges emerged:

· Understand who your customers are - and what they want:

Create a line of sight between the enterprise and citizens as the ultimate customers, to understand how they value infrastructure and what outcomes really matter.

- Embrace digital transformation as key to business success: With leadership from executive level, implement a coherent digital transformation strategy that underpins the overall corporate strategy.
- · Break down data silos and better understand whole-life performance: Start treating information as an asset; focus on making better use of information, creating the platform to unlock more whole-life value from existing assets.
- · Keep aspirations high but get the basics right first: Focus on embedding basic good practice as business-as-usual across the whole enterprise. Get data quality right as a key foundation.
- · Make information security everyone's responsibility, not just those in corporate IT: Develop a culture of personal responsibility for information security similar to that for health and safety - both internally and for partners.







Unlocking value from digital transformation



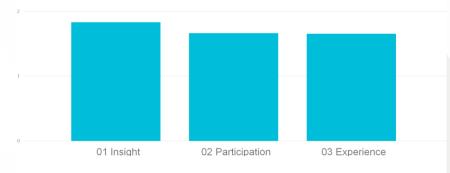
Customers

Best practice

Customer experience is a key metric for business performance

Trailing edge

Limited or no engagement with the ultimate customer







Unlocking value from digital transformation



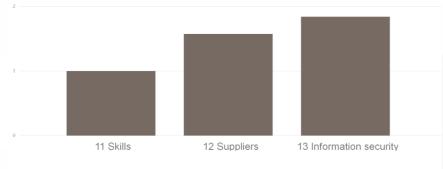
Capability

Best practice

Digital skills have been identified, with plans to manage them more strategically

Trailing edge

Digital skills are only considered where they are fundamental to specialist roles







Unlocking value from digital transformation

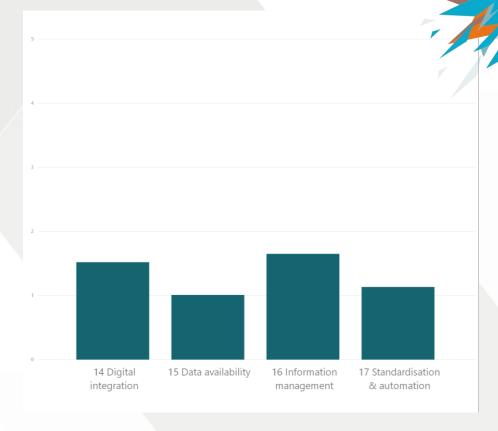


Best practice

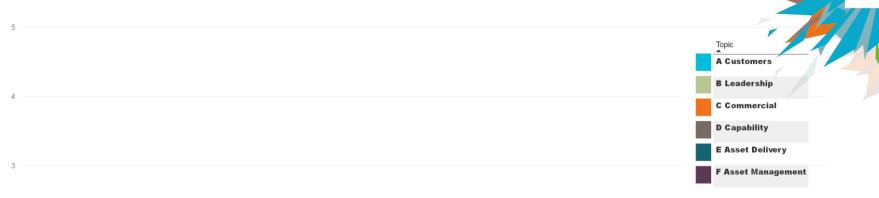
Owner has well-defined information requirements embedded in contract

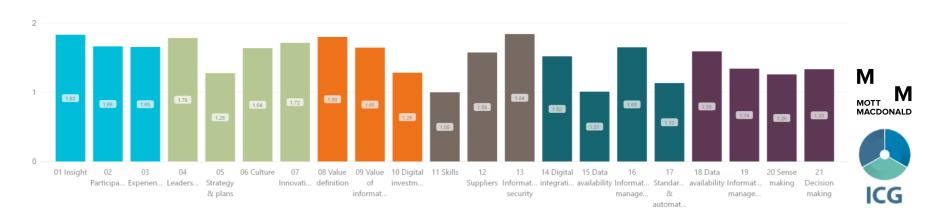
Trailing edge

Designs are produced in 2D with limited co-ordination



Industry maturity snapshot





Project 13 Measuring Enterprise Digital Maturity

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Poll results: What are your top digital pain points?

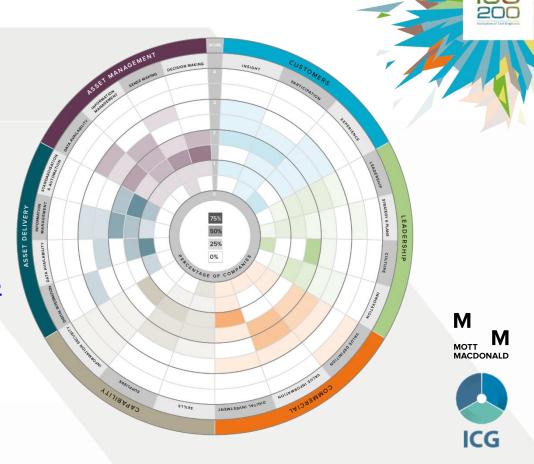
Also ask a question for us to discuss





Get involved!

- Sign up and participate
- Find out more at www.p13.org.uk
- Live IRL results at <u>www.mottmac.com/project13</u>





Contact

Please contact me to find out more.

We look forward to talking to you.

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