

CitA
BIM GATHERING



Building Capabilities in Complex Environments

CitA BIM Gathering 2017, Croke Park, November 23rd & 24th, 2017

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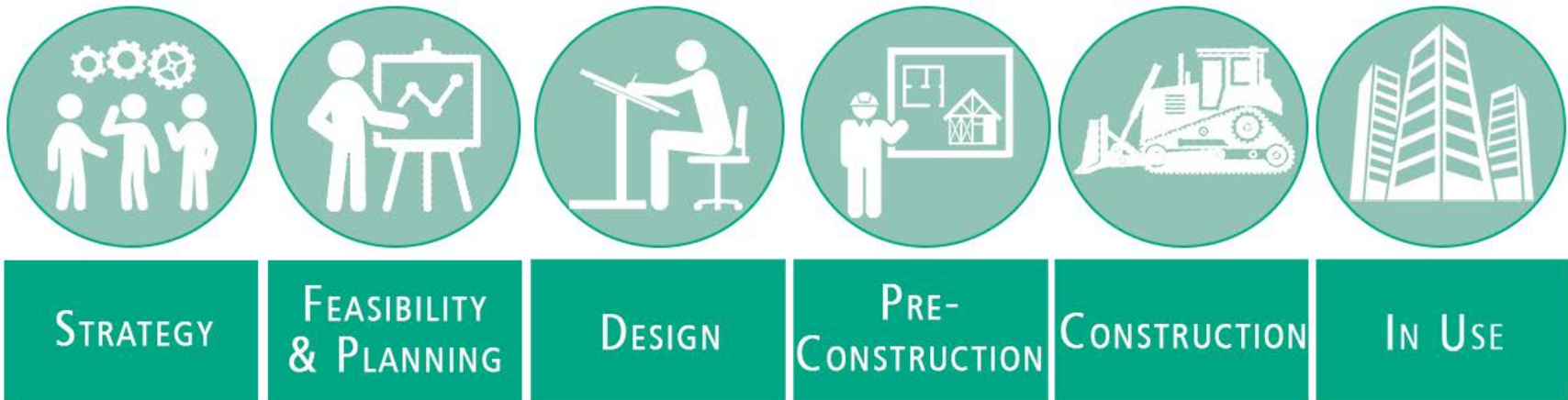


Geo Spatial Data – The Benefits

murphy
SURVEYS
GLOBAL CONSULTING SURVEYORS



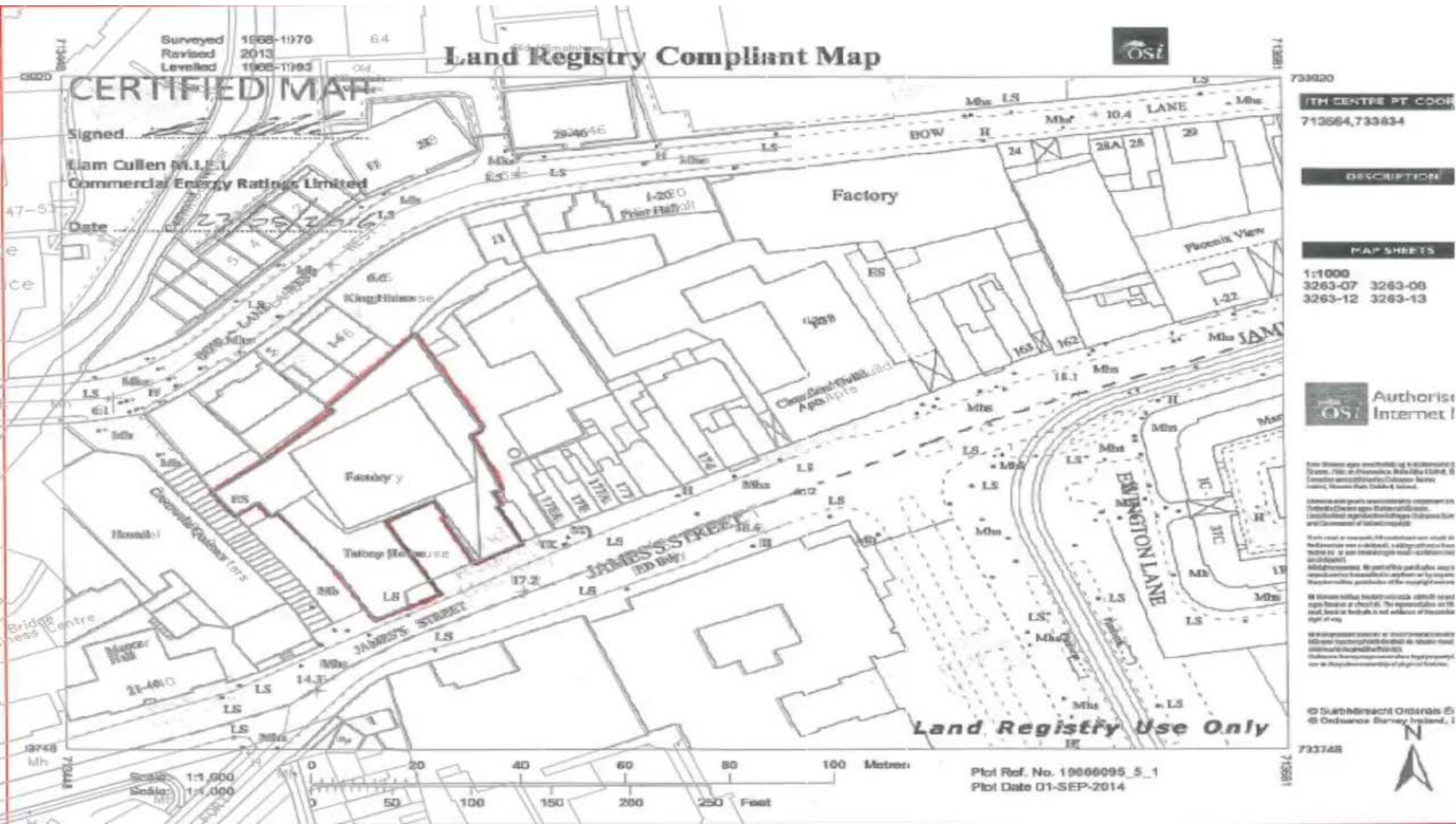
Michael Durnin
Head of Digital Construction



“Boosting our clients’ productivity and reducing risk through the entire life cycle of better informed projects”



Acquisition, Feasibility and Planning





Project Strategy, Feasibility and Planning





Design Verification and Pre Construction

Pre-works

- Geographically located condition surveys
- Utility verification
- Geological/Geophysical site investigation
- Modelled structures and asset capture
- Complement the establishment of the design model
- Control networks establishment and tie in surveys
- Design verification and volume analysis



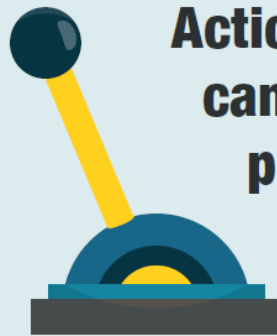


Digital Construction Overview

McKinsey Global Institute

Reinventing Construction, a route to higher productivity February 2017

The **productivity opportunity**
in construction



Action in seven areas
can boost sector
productivity by
50–60%

- Reshape regulation
- Rewire contracts
- Rethink design
- Improve procurement and supply chain
- Improve onsite execution
- Infuse technology and innovation
- Reskill workers

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5–10x productivity boost

possible for some parts of the industry by moving
to a manufacturing-style production system





Digital Construction Overview



**Improved Construction Quality Control,
Health and Safety & Environmental Impact**

Reduce risk with an integrated survey solution. Allows you to track progress and make real time decisions

- KPI for conformance matrix, reduce variance. Be Informed

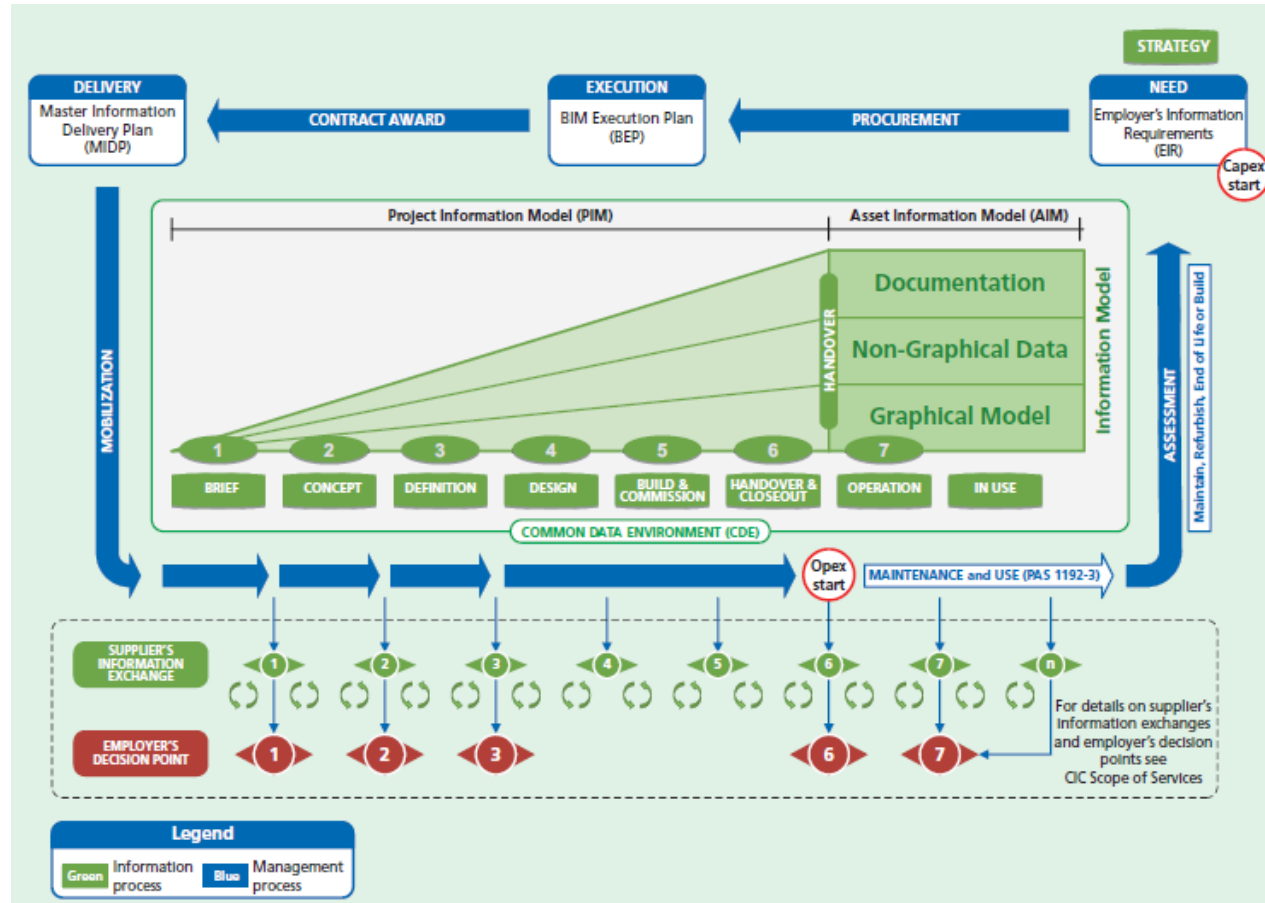
Multipurpose use for Survey data. Lends to leaner processes, reducing costs, improved timescales.

- *Better data means greater use, greater use means better data*



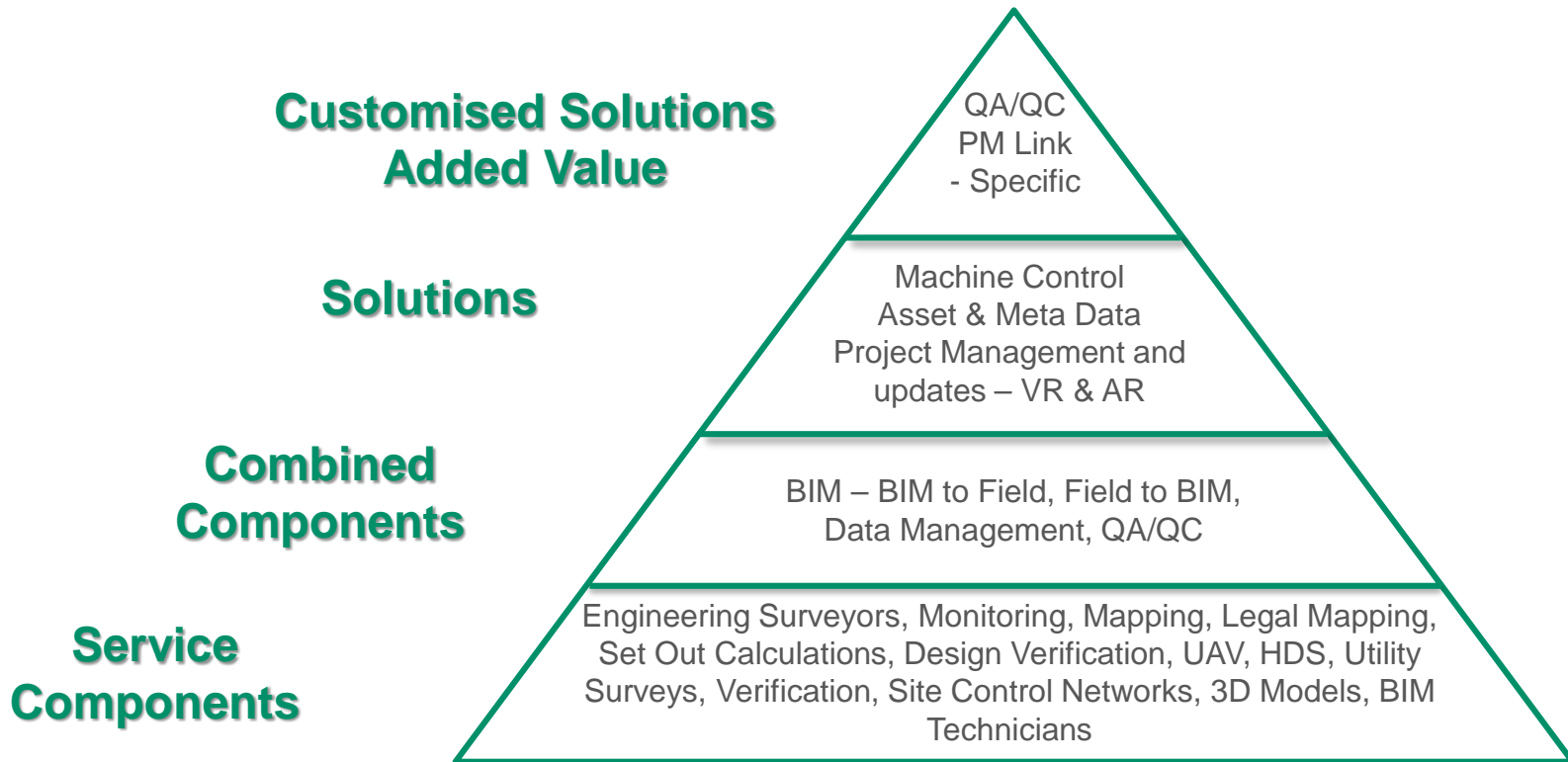
Common Data Environments – as Surveyors

- Surveyors are now fundamental for full life cycle
 - Information Flow PAS 1192
- Value across the spectrum. Emphasis on the 3 types of information
- Surveyors now act as Data Managers
- Information no longer used for a single purpose
- Big Data – Rapid Data Collection
- The 3D in 4D





Value Offering





Questions & Answers

Our Digital Construction division adds value to your projects



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Michael Durnin

THANK YOU
