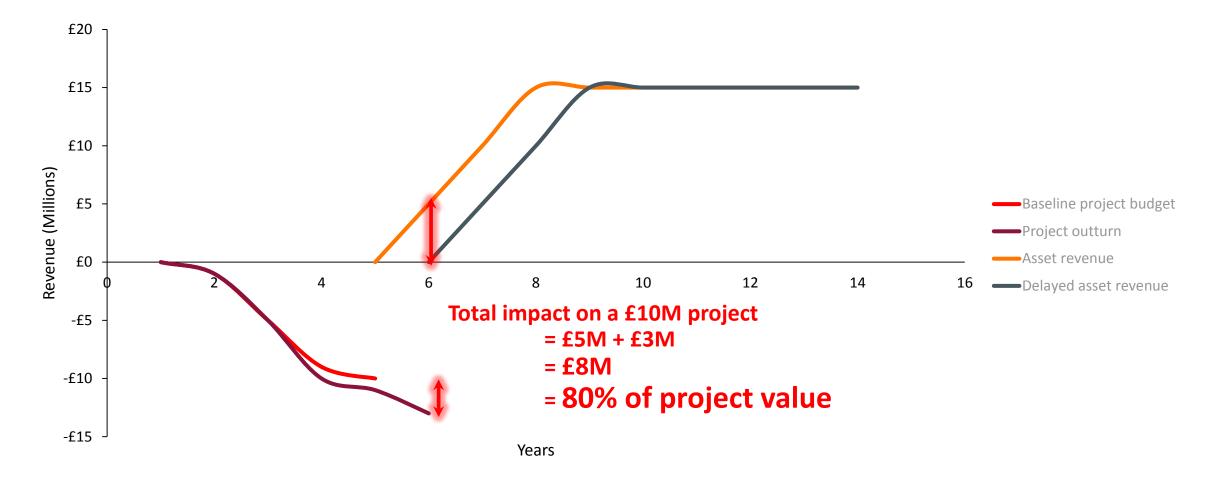
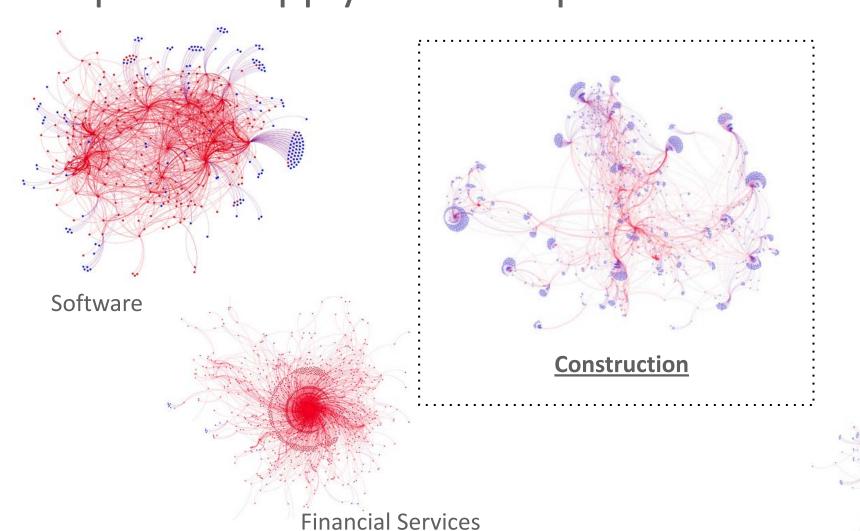
The impacts of Digital on Supply chain governance across the Asset Lifecycle ?

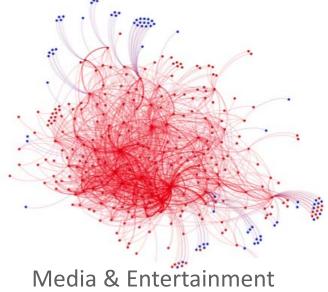


#### The Challenge - Impact of project on asset returns



Disparate Supply Chain Requires Collaboration



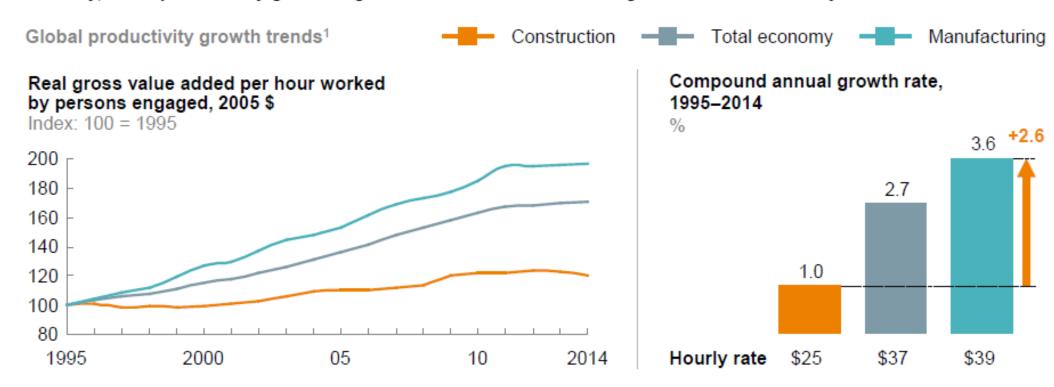




Source: Box Inc.

#### Why Transform?

Globally, labor-productivity growth lags behind that of manufacturing and the total economy

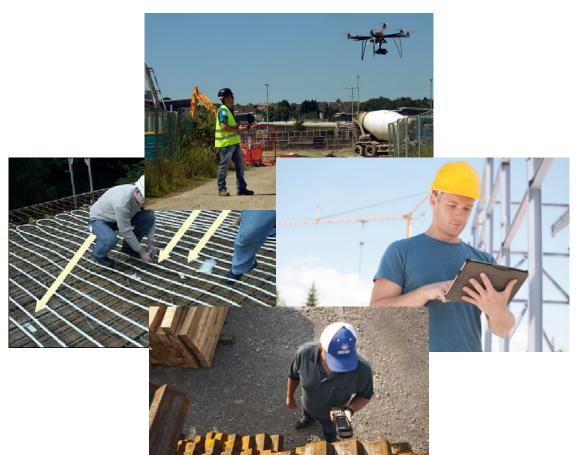


1 Based on a sample of 41 countries that generate 96% of global GDP.

SOURCE: OECD; WIOD; GGCD-10, World Bank; BEA; BLS; national statistical agencies of Turkey, Malaysia, and Singapore; Rosstat; McKinsey Global Institute analysis

# What does digital mean? Digital Disruption Thru – Technology/Innovation

- Technology
  - Smart Devices
  - Cloud
  - Pervasive WiFi
  - Location based services (GPS)
  - RFID
  - Sensors



#### Innovation

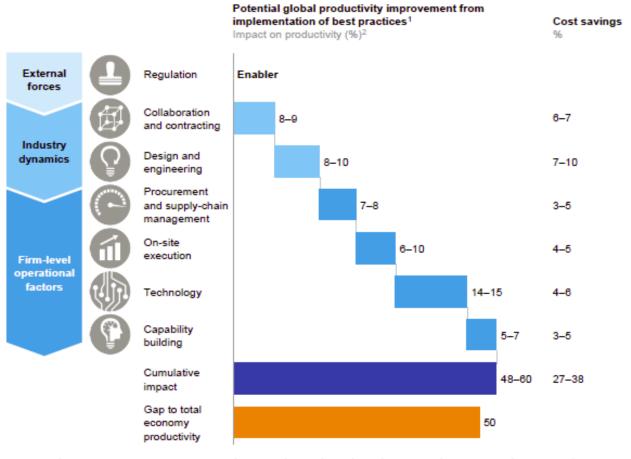
- BIM
- 4D
- 5D
- IoT
- Machine Learning
- Al
- Video Analytics
- Blockchain

#### When to go Digital - Drivers?





# Analysts thoughts - Best Practice Supply Chain Processes & Disruptive Technology



<sup>1</sup> The impact numbers have been scaled down from a best case project number to reflect current levels of adoption and applicability across projects, based on respondents to the MGI Construction Productivity Survey who responded "agree" or "strongly agree" to the questions around implementation of the solutions.

SOURCE: McKinsey Global Institute analysis



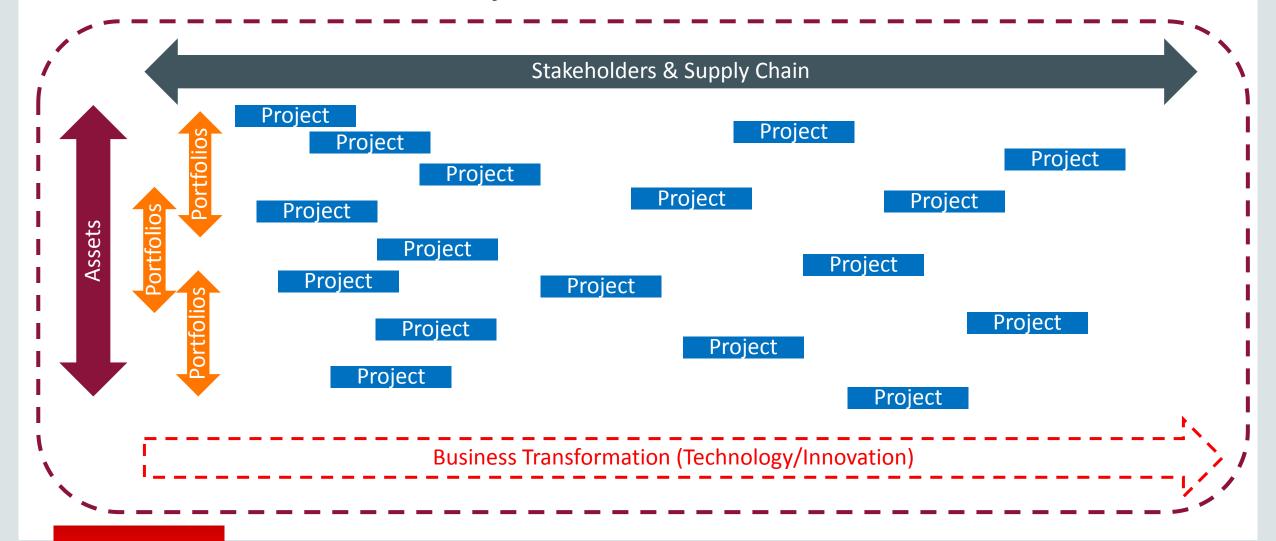
Range reflects expected difference in impact between emerging and developed markets.

#### Challenges?

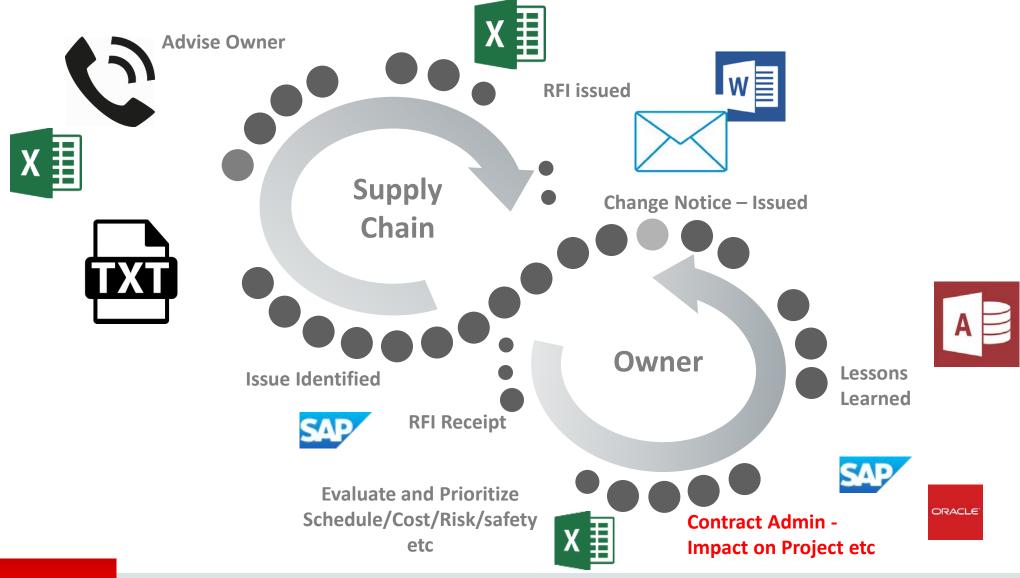




#### Asset Portfolio Delivery Solution – Data Rich

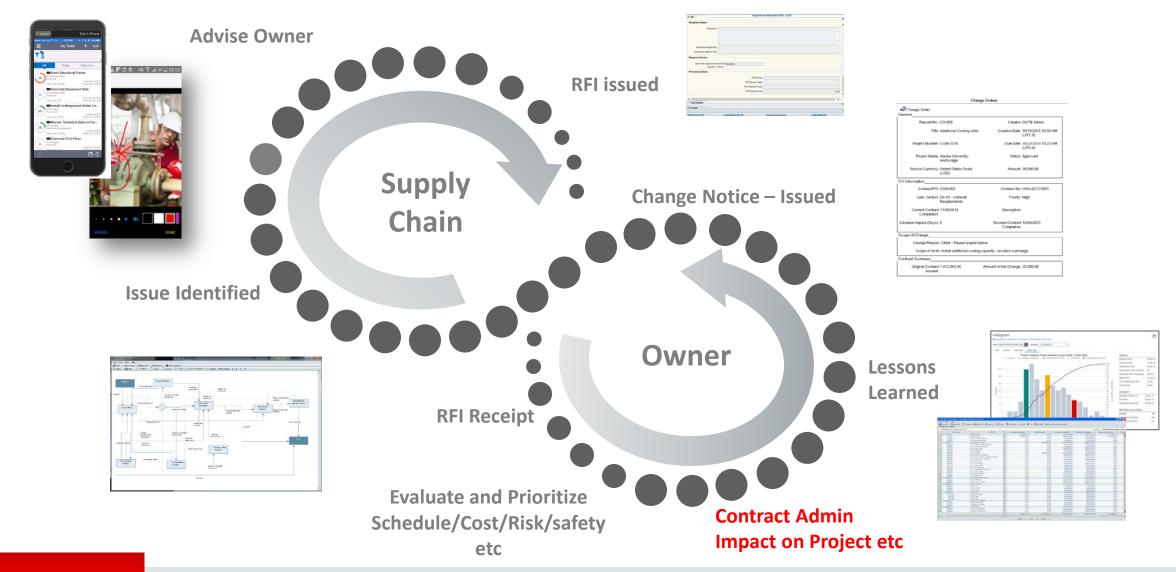


#### Change - Current state (Disconnected and Manual)





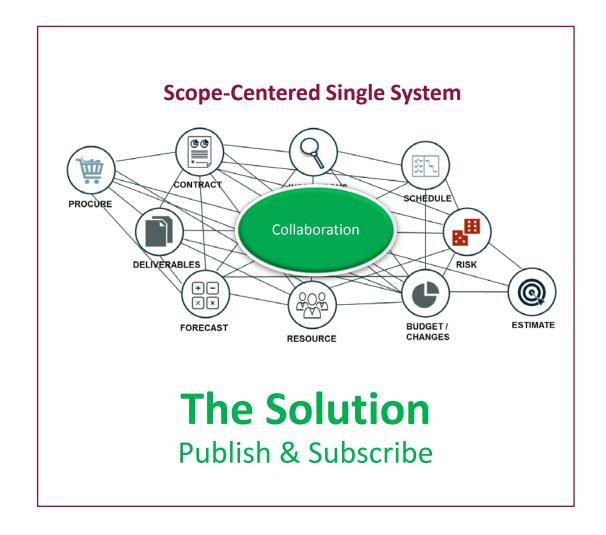
#### Change - Transformed Business (Integrated and Automated)



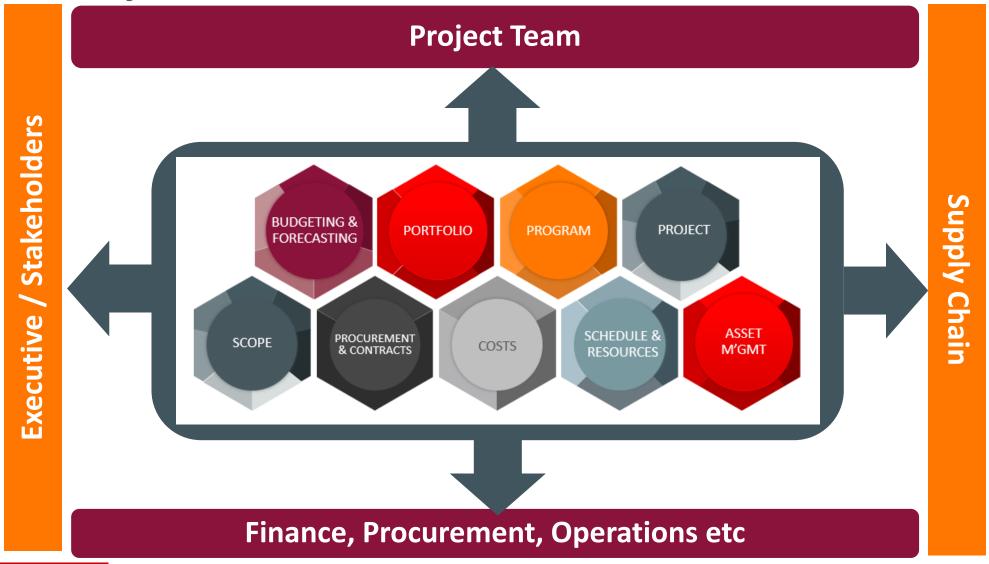
#### The Client Problem

Today, multiple siloed groups work in disparate systems that may or may not even communicate and definitely do not relate records and activities back to project scope. This often results in inefficient work practices that negatively impact the project and the business.



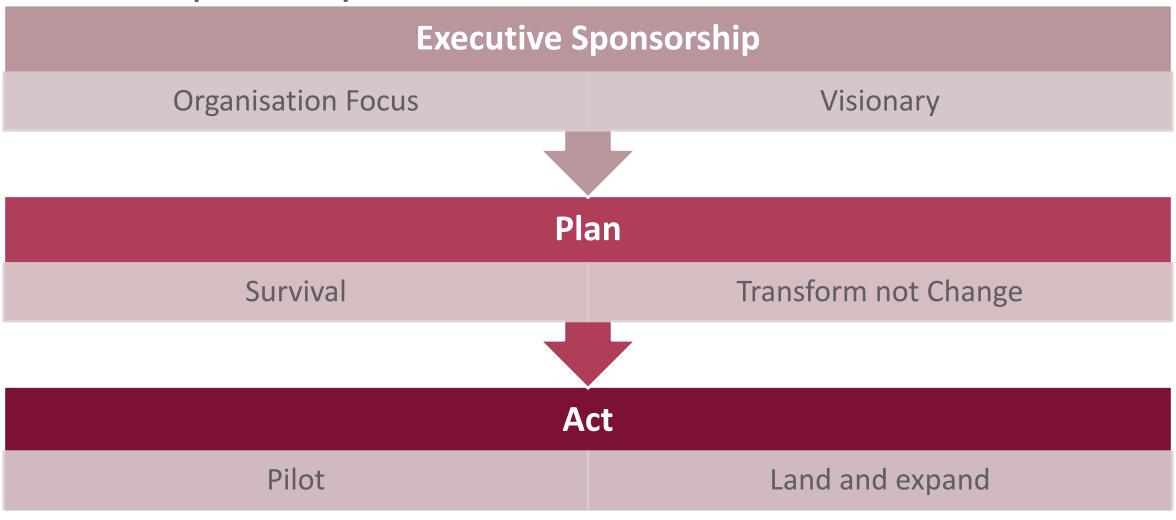


#### Asset/Project - Common Data Environment





### Leadership & Why?



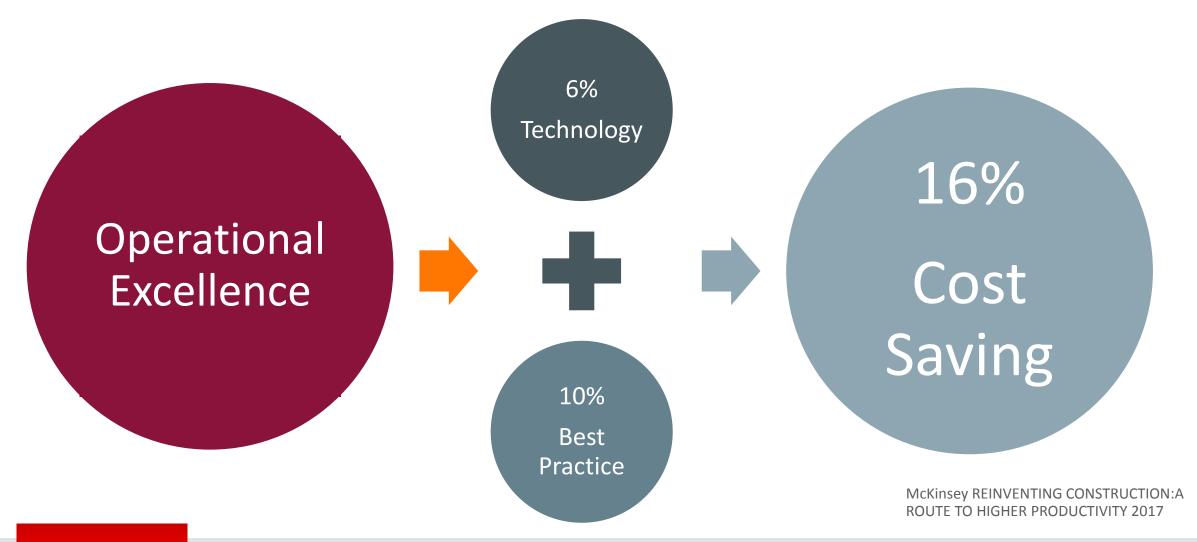


#### Asset Delivery Solution – Typical Architecture

Investment FEL 0-3 Execution **Operations** FiCo; PS; PM; MM; Procurement **Analytics OPPM/Prime P6** Unifier Aconex **Common Data Environment** Document management CAD; Engineering Design



#### Asset Delivery Platform - Potential Cost Savings



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