

PerspECCtive

Theme:

The Next 50 Years: Capturing Transformational Possibilities

Effectively Leveraging Big Data in Capital Projects

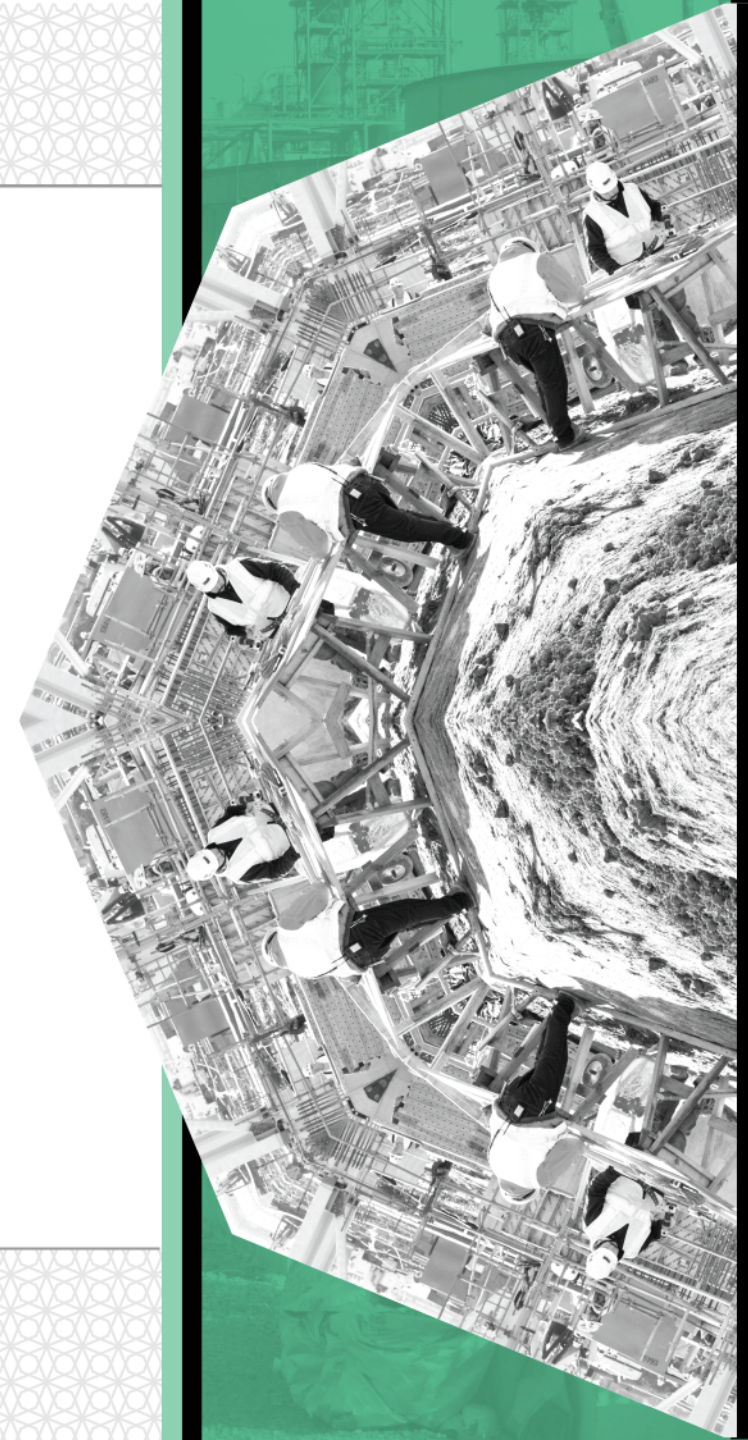
Panel Discussion with Industry Experts



Year:
2018

Date:
Sept. 7-8

Location:
**JW Marriott Hill Country
San Antonio, TX**



Effectively leveraging big data in capital projects

Facilitator



Cormac Ryan

Digital Transformation
Consultant

Panel Members



Chris Dill

Vice President and CIO



Jan Shumate

Director - Worldwide
Engineering & Construction
Services and Solutions



Josh Girvin

CEO
O3 Solution

Grounding: The productivity opportunity in construction



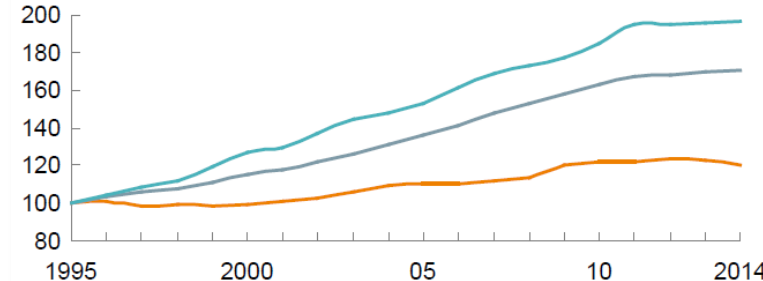
Globally, labor-productivity growth lags behind that of manufacturing and the total economy

Global productivity growth trends¹

— Construction — Total economy — Manufacturing

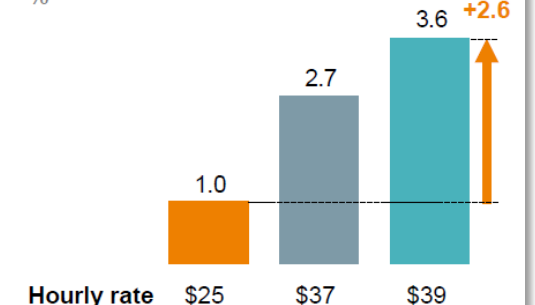
Real gross value added per hour worked
by persons engaged, 2005 \$

Index: 100 = 1995



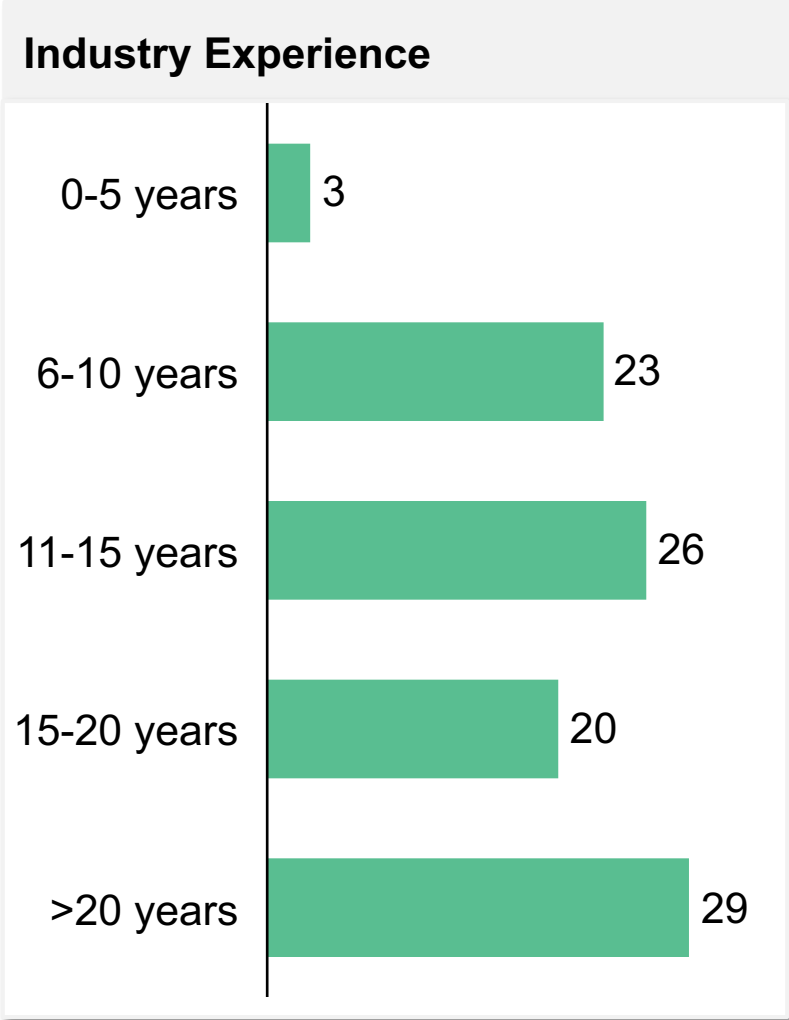
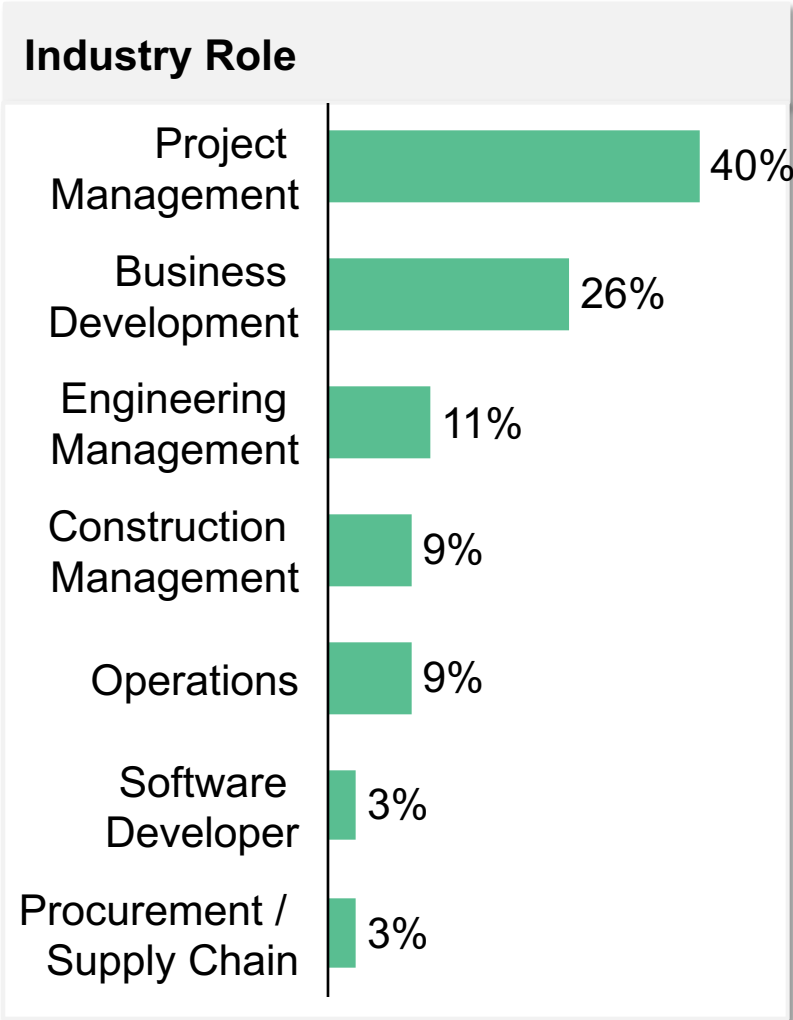
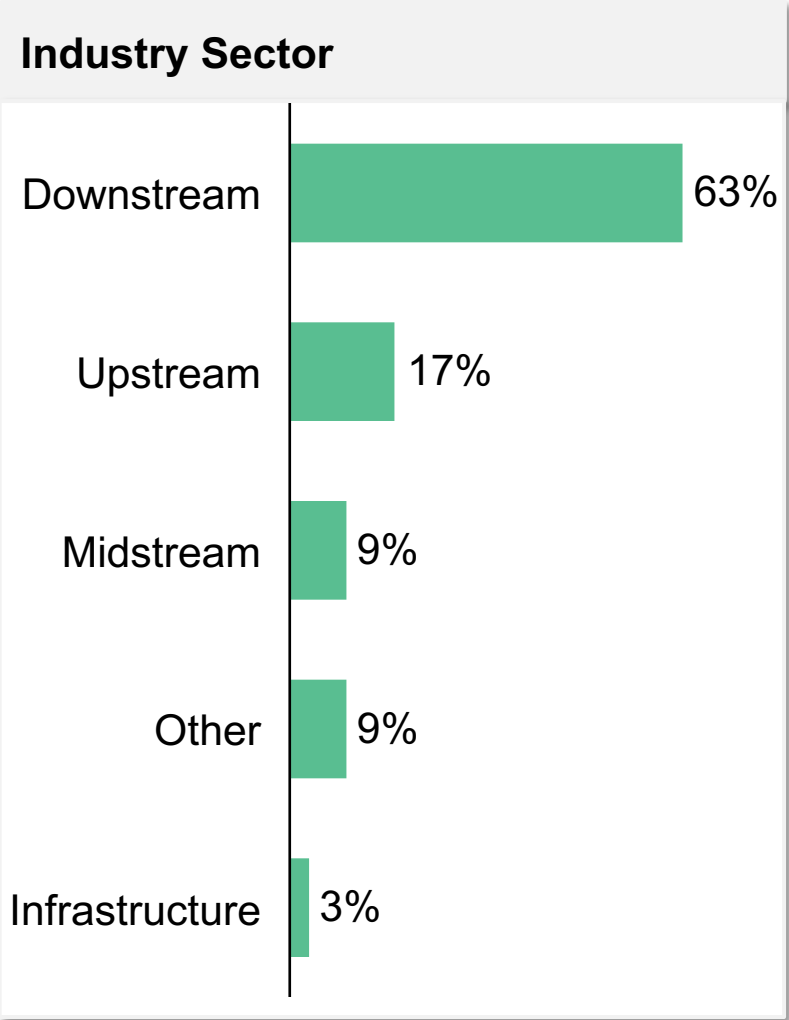
Compound annual growth rate,
1995–2014

%



Source: McKinsey Global Institute: [Reinventing Construction - A Route to Higher Productivity](#)

We surveyed ECC Future Leaders - who represent a diverse set of capital project practitioners...



...there is broad consensus that data management represents a big opportunity to improve capital project performance

Within your current role, which of the following best describes your experience with data?

51%

Data not readily available / incomplete; requires significant effort to be used for decision making

What large data sets in capital project execution are the best candidates to automate?

80%

Field progress in construction / construction KPI's

Where areas are your current data needs focused?

91%

Productivity / Performance

Panel Question 1: Big data initiatives

- **What big data initiative(s) is your organization undertaking to improve capital project performance?**
and
- **What are the associated business drivers?**



Panel Question 2: Data management

- **How does your organization instill confidence within the project team(s) that the data collected and utilized is correct?**
and
- **What organization structure and processes are in place to ensure compliance or target corrective action?**



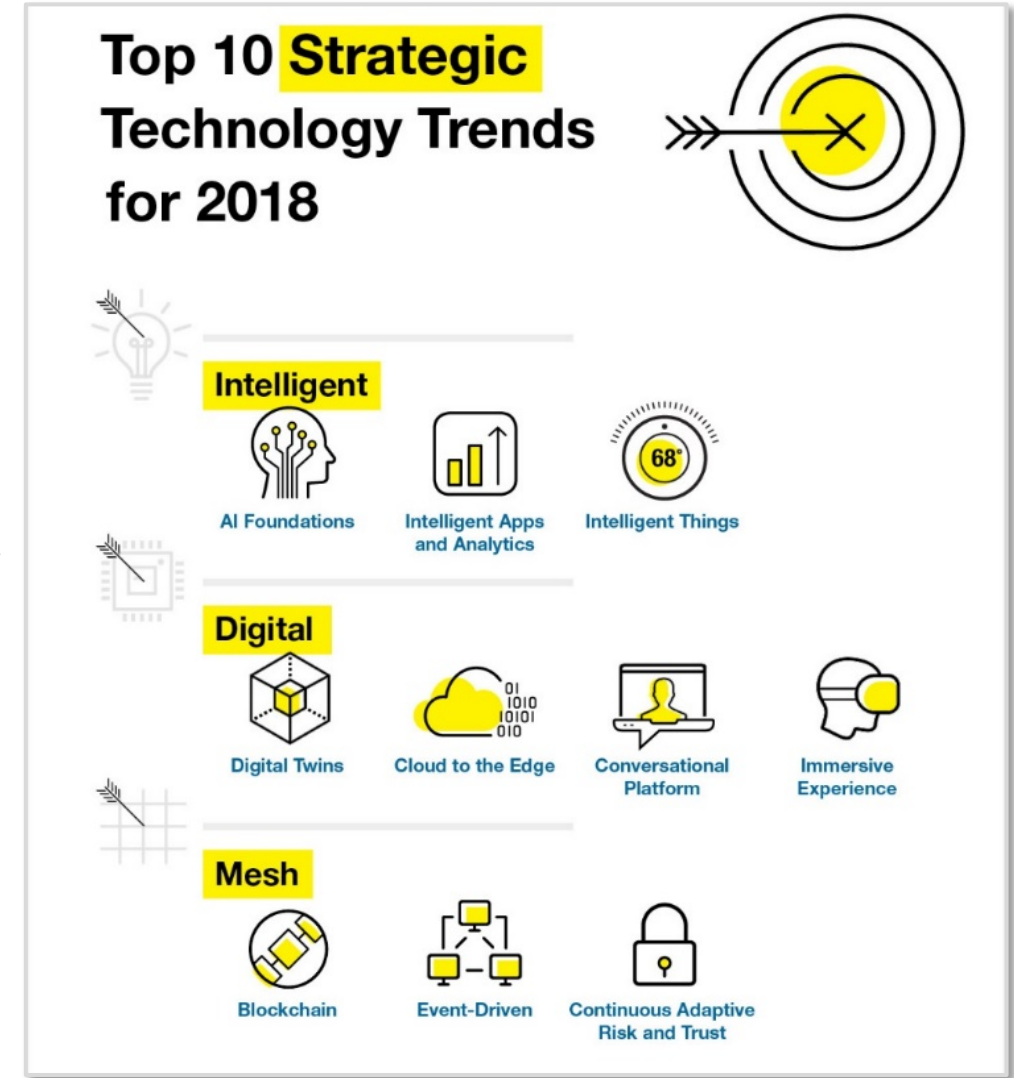
Panel Question 3: Change Management & Lessons Learnt

- In terms of organizational Change Management, what were some of the key challenges and how did you overcome these?
or
- In terms of lessons learned, what are some of the key items which would be beneficial to share with our audience?



Panel Question 4: Looking into the future

- What other technology is on your organizations radar?
- and**
- How will it target further productivity & performance improvements?



Reference: [Gartner: Top 10 Strategic Technology Trends for 2018](#)



Questions from the Audience



Effectively leveraging big data in capital projects – open forum

Open Forum – Questions from the audience



- Jan Shumate: **Seamless Engineering Information Global Access**



- Josh Girvin: **Advanced Work Packaging & WFP**



- Chris Dill: **Construction Management: Project Controls & Estimating**