Productivity gains through digitisation

James Atkinson EVP Contract Solutions



The **Built Environment**

\$10 Trillion

Industry that represents



13% Worlds GDP



7% Global Workforce

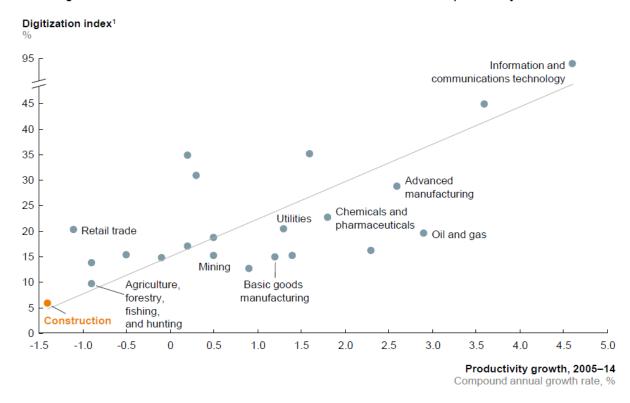
Our industry builds & operates the structures in which we live and work, that create our energy, and on which we travel . . . Our industry matters.





Construction Today: The Productivity Problem

Lower digitization in construction relative to other industries has contributed to the productivity decline



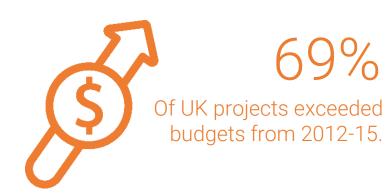




\$1.6 trillion
Of additional value could have been created through higher productivity.



Construction **Today:** Project Performance





60%
Of projects are not delivered on time.



1.5%

Average pre-tax profit margin achieved by the UK top 100 construction contractors.



67%

Of young people aged 18-24, would never consider a career in construction.







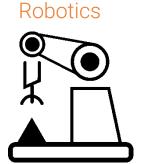


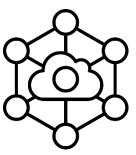
Artificial Intelligence



The Digital Revolution







Internet of Things (IoT)





Drones



The Fourth Industrial Revolution: Construction 4.0

1st INDUSTRIAL REVOLUTION



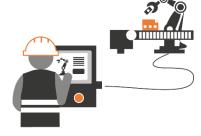
Mechanisation driven by water and steam power 1780s: first mechanical loom.

2nd INDUSTRIAL REVOLUTION



Electricity/mass production 1870: first assembly line

3rd INDUSTRIAL REVOLUTION



Computer automation 1969: first programmable logic controller.



Cyber physical systems Tomorrow: Internet of Things, connecting everything.

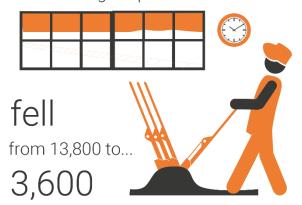


Construction 4.0: The Impact on our Skills

In Britain between 1979 and 1999 the number of coal mine labourers...

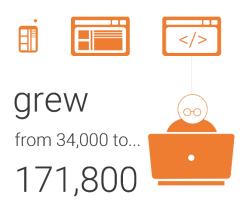


Rail signal operatives and crossing keepers...





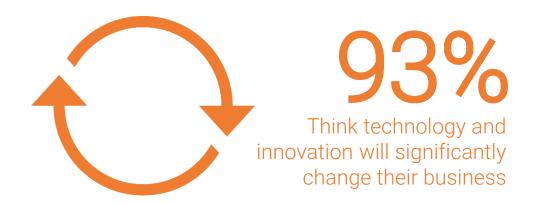
In contrast, between 1979 to 1999, the number of software engineers...



Management consultants and business analysts...

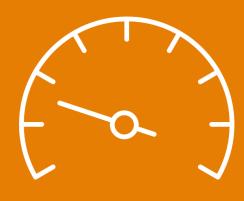






Yet...

52%
Of organisations have not yet developed a data or technology roadmap







Why does Causeway exist?









We are the digital partner for construction

We are helping to digitise the front line, because this is where your profits are won or lost.

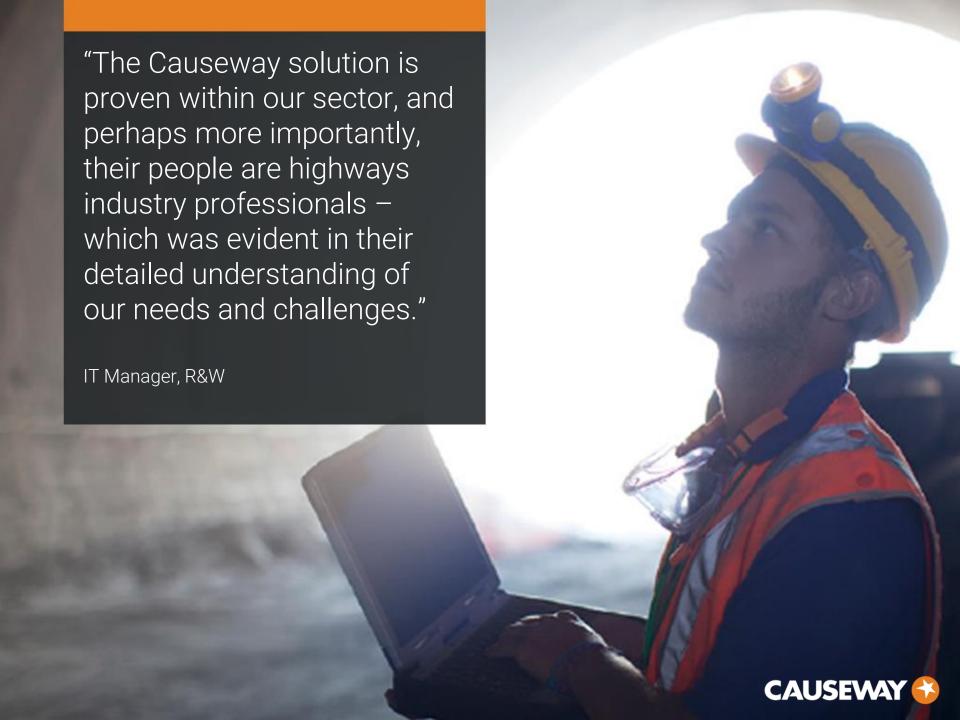












THANK YOU

For more information, please visit **causeway.com** or **visit us at our stand today**.

