

CONSTRUCTION AND ENGINEERING

Bridge the productivity gap with digitization

Global construction and engineering sector labor productivity has lagged behind other major industries for decades.



1%

average annual growth in construction sector labor productivity **over 2 decades**.¹

Despite a historical resistance to change, emerging technologies have the potential to transform the industry. Here's how to assess your readiness for digitization.

Build a framework for innovation

Strict project timelines, workforce safety, and tight profit margins are forcing construction and engineering companies to rethink their processes.



77% of UK construction companies believe digitalization can improve industry-wide productivity.²



52% of industry leaders think machine learning and artificial intelligence (AI) will be commonplace in the next five years.³

“Technology is having an unprecedented impact on the E&C industry. From robots to connected job sites, these inherently **disruptive technologies have the potential to provide the efficiency, productivity, and safety breakthroughs the industry has sought for decades.**”⁴

Deloitte.

Think big

If construction productivity caught up with the total economy, the industry's value-added productivity could rise by \$1.6 trillion a year and **boost global GDP by 2%**.⁵



\$1.6 trillion

Assemble your tools

By embracing these opportunities with digital processes and emerging technologies, you can transform your business:



Align your workforce with your strategy

Attract and retain top talent, and protect the health and safety of your workforce



Optimize project planning and execution

Support work breakdown structures (WBS) with an enterprise resource planning (ERP) solution



Leverage big data insights

Collect, analyze, and apply vast amounts of data to create informed insights



Improve supply chain collaboration

Enable collaboration with building information modelling (BIM)



Eliminate asset downtime

Monitor asset conditions and performance with enterprise asset management (EAM) solutions



Learn from other industries

Look outside your own “walls” to learn from similarly complex organizations



Plan now for disruptive technology

Prepare for tomorrow with augmented reality (AR), AI, predictive analytics, process automation, drones, mobility, IoT, and collaboration tools



Make it measurable

What does success look like for your organization?

Be productive

Ready to discover what digitization can do for your construction and engineering company?

[Learn more](#) ↗



1. McKinsey & Company, [Reinventing construction through a productivity revolution](#), Feb 27, 2017.
 2. NBS, [NBS Construction Technology Report 2019](#), Feb 1, 2019.
 3. Visual Capitalist, [How Technology is Disrupting the Construction Industry](#), Sep 24, 2019.
 4. Deloitte, [2020 Engineering and Construction Industry Outlook: A midyear update](#).
 5. McKinsey & Company.