Traffic will be between 27% and 57% higher in 2040 than it was in 2013
9.37 casualties per hundred million vehicle miles
AFR of 0.05
Globally, productivity increase of only 1% in 20 years
In roads, we will need an additional 41,000 people by 2025
The case for change – digitally transforming the roads sector

Ellie Wilson, Head of Digital Transformation | Balfour Beatty | Highways
Our 25 by 2025 strategy aims to reduce activity onsite by 25% by the year 2025—increasing productivity, improving quality and safety and ensuring value for our customers. It will improve project delivery and allow us to move away from wasteful and traditional industry approaches.

In the beginning of 2018 we a working group within Balfour Beatty called ‘Site of the Future’. Their primary focus has been to look at how we can:

• Make the most out of data, information and technology to improve our performance
• Capture and quickly share the great ideas and pockets of innovation around Balfour Beatty and deploy them more consistently.
• Create a physical ‘Site of the Future’ hub to test innovation safely before moving into production and rolling out across our business.

Highways Vision
Create a step change in our industry to deliver world class productivity by making better decisions quicker. We will achieve this through, accessibility to interconnected data, utilising digital technology supported by a culture of fail fast… learn quicker.

Digital Strategy Narrative

1. ‘Getting Consistent & Digital’
   Process Re-engineering

2. ‘Driving Efficiencies’
   Moving Construction Away from Site

3. ‘Future Opportunities Around Predictability’
   Advanced Robotics
Digital Transformation - Plan

25 by 2025

Site of the Future

Digital Strategy Narrative

1. ‘Getting Consistent & Digital’
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Highway’s Digital Strategy

Workstreams

- Digital Rehearsal Safety
- Project Controls Delivery
- Smart Infrastructure Customer
- Culture & Innovation

Balfour Beatty
Digital Rehearsal
Safety
Project Controls Delivery
Smart Infrastructure Customer
Culture & Innovation
Traffic will be between 27% and 57% higher in 2040 than it was in 2013.
Digital Transformation

Journey

- Launch Digital Transformation Strategy
- Business Process Improvement
- Implement coding structure
- Digitise On-site Processes
- Integrate data into the lake
- Leverage our operational assets
- IoT, Automation and Machine Learning

2019
2020
2025
2030

Consistent
Efficient
Predictable
Are you ready to make the change?
Balfour Beatty