

Conference programme



Designing for construction productivity conference

18 June 2024 | 09:30 – 17:30 BST
Online and at Bastwick St, London

Designing for Construction Productivity

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Tuesday 18 June 2024

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09:15	Registration and arrival refreshments
10:00	Welcome and opening remarks Dr Jaylina Rana, Associate Structural Engineer, Buro Happold
10:05	Construction Productivity – improving the way we build today and tomorrow Bill Baker, Consulting Partner, SOM This session will delve into initiatives addressing the challenge of low growth in construction productivity. Bill will discuss recent efforts by UK industry leaders to enhance productivity and highlight key initiatives of the Construction Productivity Taskforce. Emphasising the importance of designing for productivity, he will share Taskforce findings. This multidisciplinary approach uncovers fundamental issues and surprising insights shaping the future of construction.
10:30	What is construction productivity and the role of the structural engineer? Expedition Engineering – speaker to be announced

Session 1: Making the business case

10:55	Starting the conversation – how productivity can deliver low carbon, lower costs and minimal waste Phil Obayda, Principal, SOM This presentation will explore the benefits of focusing on construction productivity, emphasising the critical role of designers and <ul style="list-style-type: none">• Articulating the opportunities of designing for construction productivity• Prioritising productivity from the outset of a project• The critical role of the designer in optimising productivity• The essential team required for industry-wide transformative change.
11:10	Morning break
11:35	Carrot (carbon) & stick (CDM/BSA) Speaker to be announced

Continued on next page

11:50	Practical methods for driving productivity and improvements Dan Hagan, Director – Property & Building, WSP Suria Jones, Structures Discipline Leader, Laing O’Rourke
	This case study will demonstrate the importance of making the business case early and how to drive constructability and productivity improvements in a project through stages 0-3 of the Plan of Works.
12:05	Utilising standardised design for faster, more efficient construction in schools Sara Nain Hallett, Technical Director, AKS Ward
	This case study will showcase the development of component-based kits of parts, engineered design solution with Wates, aimed at standardising grids, structural elements, and offsite manufacturing. The focus is on achieving greater construction efficiency while meeting DfE requirements and overcoming challenges in designing unique, site-specific structures within a standardised system, all without compromising on quality and functionality.
12:20	Session 1 Q&A

Session 2: Routes to productivity

12:35	Best practice guidance to reducing errors Rupert Shingleton, Kilnbridge Construction Services
12:50	4D modelling – Digital twins enhancing construction programmes, logistics and productivity Simon Houska, Pre-Construction Solutions Director, Robert Bird Group
	This presentation demonstrates how the use of 4D modelling allows people to make informed decisions about carbon, flexibility, buildability, and temporary works and understand the impact on cost-time-quality.
13:05	Lunch and networking
14:05	Temporary works - The permanent challenges Malachy Ryan, Managing Director, Alan White Design
	This presentation showcases how altering permanent structures can minimise or eliminate the need for temporary works, offering benefits such as cost savings, improved timelines, and enhanced safety.
14:20	Session 2 Q&A

Session 3: Best practice for getting the design right at the beginning

14:35

With concrete, less is more: improving constructability

Thomas Churchill, Senior Quality Manager, Transpennine Route Upgrade
Praveena Elizabeth Pius, Site Engineer, BAM UK

This case study showcases methods to enhance constructability. By prioritising efficiency and safety, they will demonstrate how optimising concrete in-process quality and refining permanent and temporary works design can reduce material usage while maintaining construction standards.

14:50

Enhancing construction efficiency and safety with fire and water-resilient mass timber design

Steve Peet, Structural & Civil Engineer, Engenuiti

This case study highlights mass timber's pivotal role in addressing construction challenges. By integrating fire-resistant designs and control measures, it mitigates water risks and prioritises fire safety, ensuring enhanced building resilience and optimizing efficiency in design, fabrication, and construction.

15:05

Case study

Speaker to be announced

15:20

Session 3 Q&A

15:35

Afternoon break

Session 4: Collaborating to achieve construction productivity

16:00

**Best practices for effective communication and collaboration:
Contractors and Designers**
Panellists include **Mo El-Ali, Associate Director, Turner & Townsend**
More speakers to be announced

In this interactive panel discussion, industry experts will explore the critical aspects of collaboration between contractors and designers to enhance construction productivity and will address the following:

- How do contractors make the case to get involved early?
- What do you wish designers knew?
- What data do designers need to address the question of productivity?

16:50

Conference summary and closing remarks
Dr Jaylina Rana, Associate Structural Engineer, Buro Happold

17:00

Conference ends

