

■ We are...

*build***off**site

Membership Organisation
Voice of the UK Construction Industry
Business to Business Networking
Supply-Chain Engagement
Innovation & Collaboration

Enabling the construction industry to deliver
greater project value

www.buildoffsite.com

 @buildoffsite



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- ✓ VOICE OF UK OFFSITE CONSTRUCTION
- ✓ BUSINESS-TO-BUSINESS NETWORKS
- ✓ MEMBERSHIP ORGANISATION

Enabling the construction industry to deliver greater project value

Member to Member Outline Agenda

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- Welcome – Duncan White Arup
- Buildoffsite Reflection
- Construction Context
- Buildoffsite Ambition
 - Comfort Break
- The Buildoffsite Forum
- The Delivery Team
- Upcoming Events
- The Forum Panel Q&A
- Networking – Drinks and Canapés



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Reflections



Where we have come from....





Richard Ogden
Ian Pannell
Cal Bailey
Roger Bayliss
Nirmal Kotecha

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The Accelerating Industry Landscape



Keith Waller

- Infrastructure Projects Authority

Sam Stacey

- Challenge Director – Transforming Construction

Simon Hart

- Built Environment Platform Leader

Delivering the 2025 Construction Targets *buildoffsite*



PEOPLE

SMART

SUSTAINABLE

GROWTH

LEADERSHIP

OUR INDUSTRY CHALLENGE Construction 2025

Lower costs

33%

Lower emissions

50%

Faster delivery

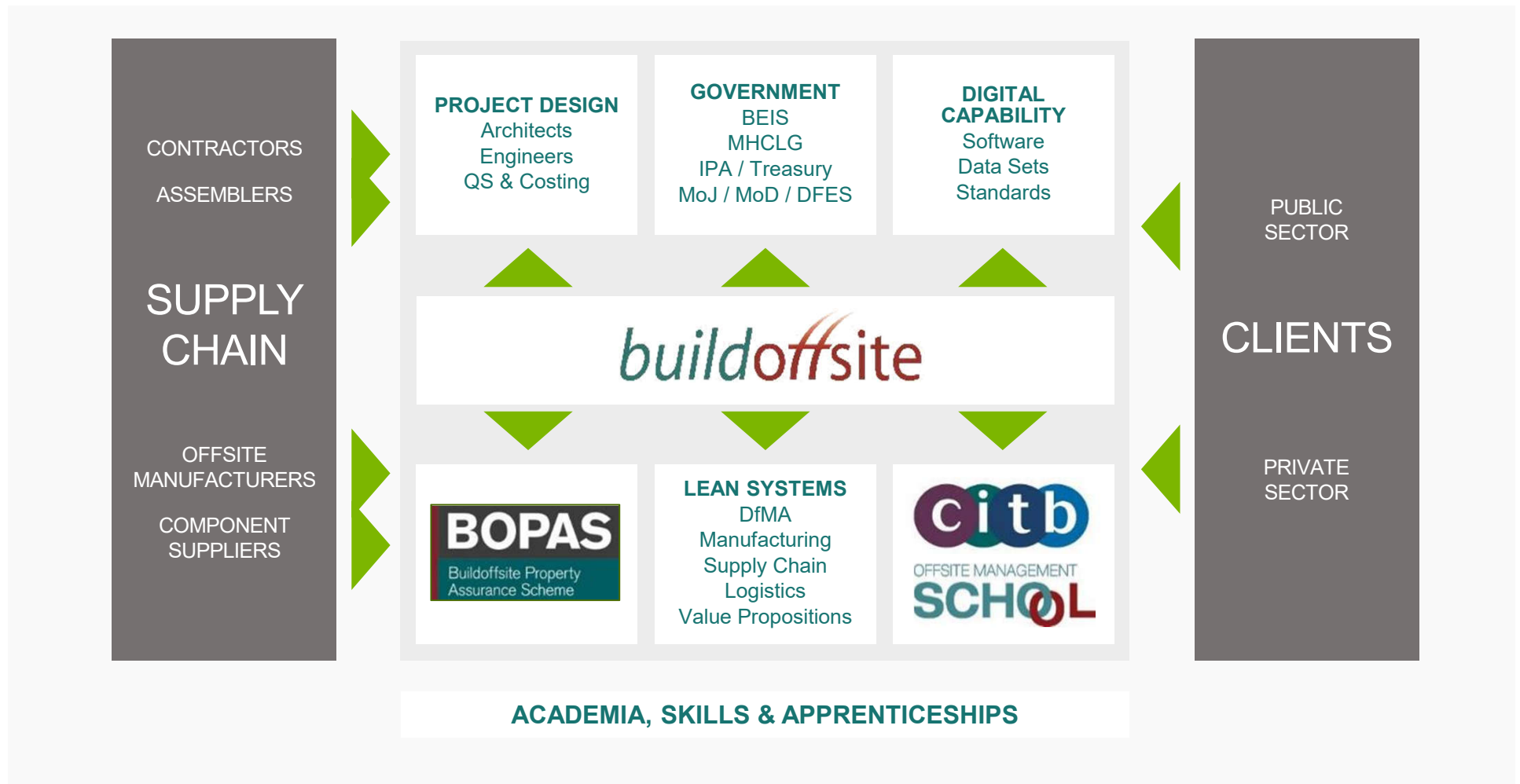
50%

Improvement in exports

50%

Voice of UK Offsite Industry

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Business opportunities

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We have shifted emphasis from **PROMOTING** offsite to **ENABLING** offsite delivery

01 Innovative networking

02 General & sector specific advice

03 Knowledge transfer

04 Publications

05 Engaging clients

06 Challenging the supply chain

07 Instigating offsite collaboration

08 Marketing platforms

09 Events

10 Project site & factory visits

■ Three Levels for Delivering Value

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DIRECTION GROUP MEETINGS

Thought leadership, networking & ideas exchange



HUBS

Sector/interest group focused
Market led, problem solving, action driven
Collaboration across the value chain



MEMBER CHALLENGES

Specific project or technical challenge
Buildoffsite connects client needs with innovators and facilitates improvement



Buildoffsite Membership Base

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Clients

25%

Anglian Water	KFC	North West Cambridge Development
ASDA	Legal & General	Richmond Housing
Astrazeneca	Marks & Spencer	Rotherham Housing
B&Q	HS2	Sainsbury's
Berkeley Modular	John Lewis	Scottish Water
BIM Object	KFC	Tempo Housing
Cherwell D.C.	Legal & General	TfL/London Underground
Circle Health	London Underground	UK Power Networks
Flagship Homes	Marks & Spencer	United Utilities
GlaxoSmithKline	Ministry Of Justice	University Of Cambridge
Heathrow	Moat Homes	Yorkshire Water
HS2	Northumbrian Water	Your Homes Newcastle
John Lewis	Northern Ireland Water	

Manufacturers / Suppliers

25%

Aquatherm	Howick	Polypipe
Caledonian Modular	Ilke Homes	Protrade
Construction Specialties	Ideal Lifts	Premier Modular
C-Probe Systems	Kingspan	QRL Radiators
Connect2 Cleanrooms	Legal & General Homes	Saint Gobain
Donban Vision	McAvoy	Shay Murtagh
Elements Europe	Mitsubishi Electric	Stelling Properties
Elliott Group	NG Bailey	Techno Metalpost
Encon	Nomenca	Vision Modular
Eurobond	Ormandy	Wago
Flagship Group		

Designer & Services

25%

Action Sustainability
Airey Miller
Alinea
Apply Structure
Arup
Assael
Atlas Industries
BIM Object
BLP
BRE
Bryden Wood
Build Insight
CoBuilder
Design Automation Systems (DASys)
Ela8
Evolusion
Geraghty Taylor
Lloyd's Register
Lucideon
Marwood
Meinhardt
Mott Macdonald
NPS Group
TDS Group
Total Flow
Trimble Tekla

Contractors

AMCM
B&K Structures
Balfour Beatty
Costain
Crest Nicholson
Graham Group
Kier
Laing O'Rourke
Mace
Sir Robert McAlpine
Skanska
Willmott Dixon

Gov & Regs

Department for Business Energy & Industrial Strategy
Ministry of Housing, Communities & Local Government
Construction Leadership Council
Health & Safety Executive
Greater London Authority
Invest Northern Ireland
Enterprise Ireland
Oxford Brookes University
Loughborough University

New Members 2018

*build*offsite

22 New
Members



Clients

Northern Ireland Water
Your Homes Newcastle
Flagship Group
RHP [Richmond Housing Partnership]
Rotherham Housing
Tempo Housing

Professional Services

Alinea
Assael Architecture
Meinhardt
BIM Object

Contractors

AMCM
B&K Structures
MACE
Stelling Modular

Manufacturers

Berkley Modular
Ilke Homes
QRL (Barlo)
Mitsubishi Electric
Wago
Ideal Lifts
Saint Gobain
TMP Techno Metal
Post Screw Piles



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Time For a Break

10 minutes

Introducing the Buildoffsite Forum



Tim Carey
Graham Cleland
Dan Leech
Leanne Clowting
[Matt Palmer]
Tim Hall

Purpose

- To be the governing forum for Buildoffsite activities
- To steer Buildoffsite's vision, strategy and programme

Objectives

- To ensure Buildoffsite enables an increase in offsite construction and improved construction delivery
- To ensure Buildoffsite operates in a sustainable manner – financially sound, legal, ethical, and environmentally and socially responsible

Remit

- To reflect the views of Buildoffsite members and stakeholders, responding to member feedback on strategy, priorities and Buildoffsite activities
- To provide feedback and guidance to the Buildoffsite Director on strategy performance
- To support membership recruitment and retention and stakeholder engagement
- To ensure Buildoffsite's achieves the plans, budget and operations requirements agreed with CIRIA.

Introducing the Buildoffsite Forum

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- **Willmott Dixon**
- **National Product Director**
- **Contribution to Buildoffsite**
 - Governing Forum chair
(Director's performance, finance, branding & communication)
 - Government Policy interface
 - Transforming Construction Alliance
- **Personal History**
 - CAD Technician on Broadgate, Canary Wharf, London Eye, etc.
 - Design Manager
 - Pre-Construction Manager
 - Sunesis



Stop History Repeating

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1 BACKGROUND AND IDENTIFICATION

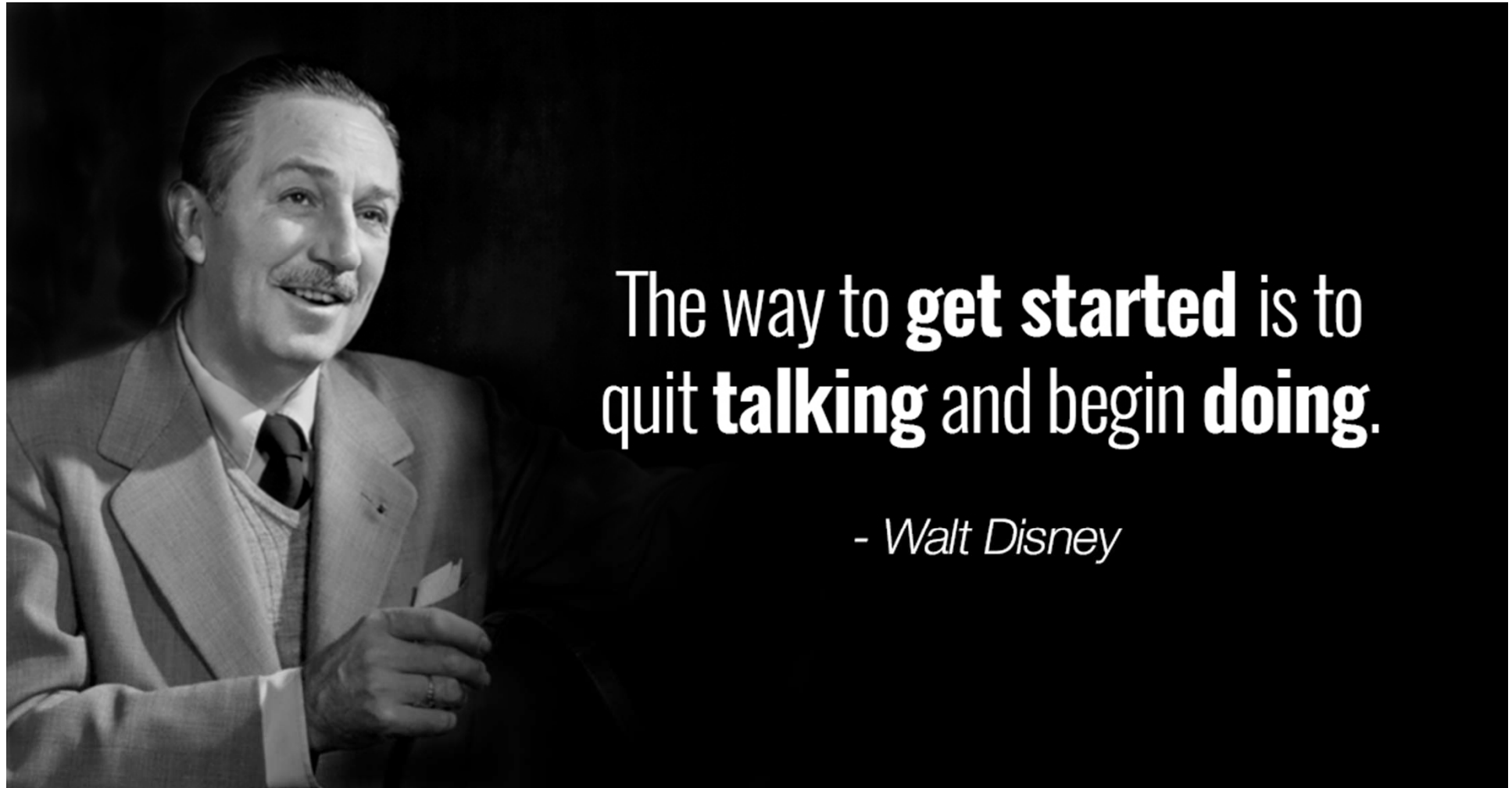
1.1 General

The period immediately following the 1914/18 war saw a number of committees set up by the government to examine the construction industry and to report on ways of solving the problems of house construction caused by shortages in both skilled labour and building materials. One such, the Standardisation and New Methods of Construction Committee, set up in 1919, invited suggestions from the public for novel methods for building houses. The response was large and a list of approved methods of construction was published, covering the Committee's work up to April 1920 (Reference 1). This Committee ceased to function in 1921.

Source: Building Research Station Report into Dennis-Wild Steel Framed Houses

■ It's Motivational Quote Time!

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- **Driving permanent change** through the application of science/data-based analysis. Facts don't lie.....
- Promoting OSM only where it delivers added value – **not for the sake of it**
- Digitally-enabled design, procurement and construction
- Developing and promoting **innovation and disruptive market offers** across open-source platforms
- **Breaking down the barriers to adoption**, and the misperceptions surrounding OSM.

Organisations to Connect With

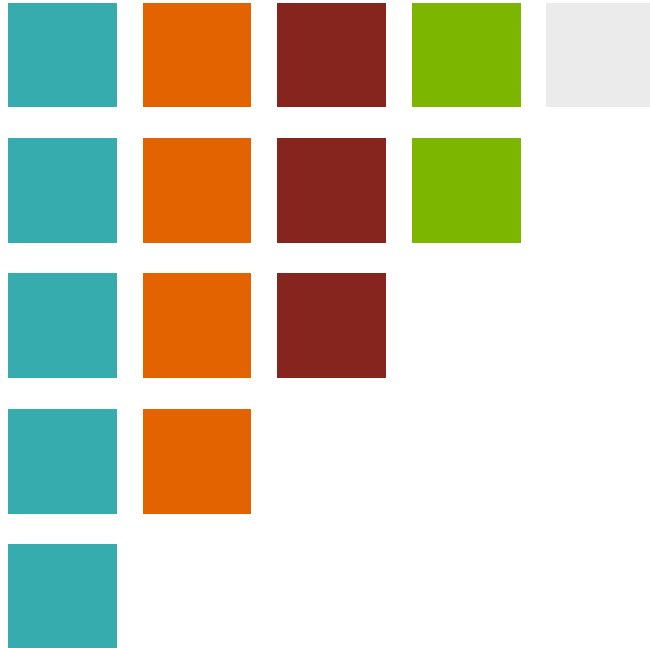
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- All existing and any prospective Members who want to **drive permanent positive change** to the Construction industry
- **“Open Mindset” organisations** who are prepared to share their knowledge, data and learning.

Underserved Sectors

- Blue Light
- Defence
- Infrastructure
- Residential

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- Berkeley Modular
- Director
- Key interests include:
 - digital in the context of the design for manufacture and assembly of high quality, high performing buildings
 - skills / resourcing to service a robust advanced manufacturing base
- Worked across a variety of businesses in the offsite sector including NGB and Unite



Specific Areas of Interest

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- Priorities at BuildoffSite
 - Objective in terms of the skills agenda is to develop a network of providers with curricular to support the development of talent
 - Objective in terms of the collaborative R&D agenda is to develop BoS skills to support applications and secure funding



Source



Organisations to connect with

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Member contact for:

- Offsite manufacture
- Digital engineering and advanced automation in offsite manufacture
- Particular interest in residential hub



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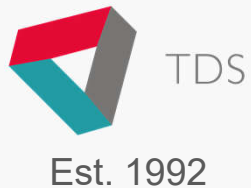
- TDS Group
- Group Managing Director

Key interest Offsite:

- Advocating construction technology
- Creating digital assets
- Transforming culture



History



Specific Areas of Interest

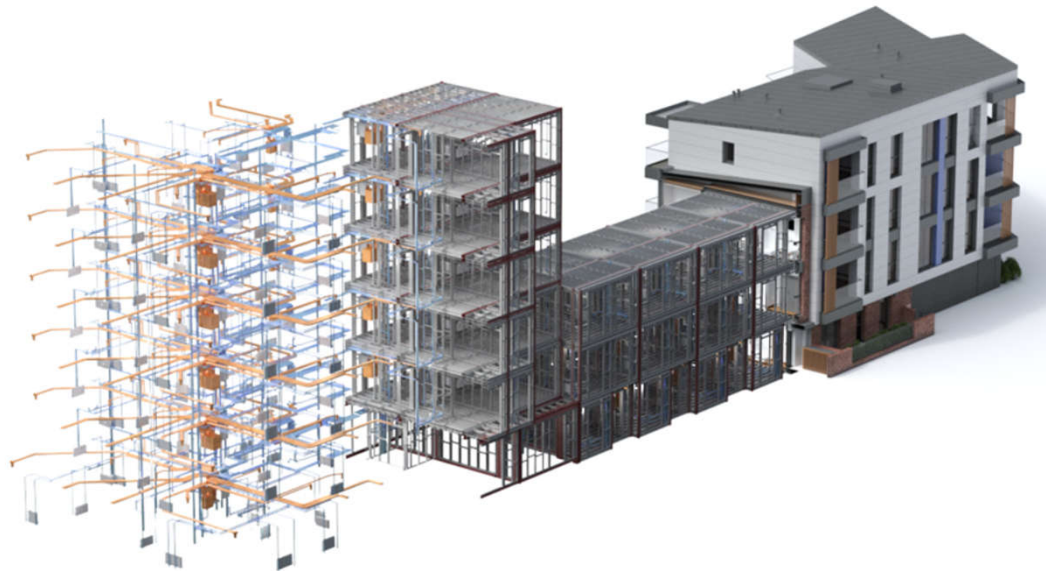
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- Forum priorities:

- Digital Hub
- Procurement:
removing blocks

- Objectives

- Identify & address barriers
- Provide innovative & practical solutions
- Deliver something!



Organisations to connect with

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- Any members impacted by digital design
- Genuine appetite to collaborate & innovate
- Any organisations with procurement challenges



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[Matt Palmer]
Tim Hall

- CIRIA
- Executive Director, Membership and Marketing Services
- CIRIA Board for BuildOffsite
- CIRIA January 2015
 - Background in economic development, regeneration, housing and commercial property, private, public, NGO, NFP
 - Marketing, communications, commercial operations, governance



Specific Areas of Interest

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- Governance & performance
 - Ensuring membership value
 - Sustainable and effective network
 - Supporting growth and impact
- Offsite Show
 - Ensuring best partnership value
 - Ensuring membership value
 - Sustainable and relevant industry marker
 - Best collaborations for BuildOffsite



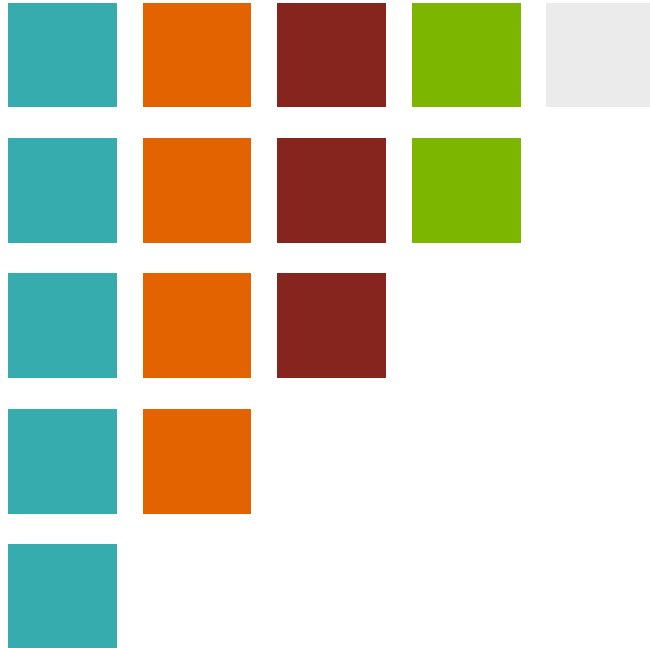
Specific Areas of Support

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- Brand, Marketing and Communications
 - Values, strategy, capacity
 - Effectiveness and efficiency
 - Supporting growth and impact
- Cohesive and collaborative
 - CIRIA and BuildOffsite
 - Maximise opportunities
 - Cross pollination and improved reach



Introducing the Buildoffsite Forum



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Tim Hall

- Heathrow Airport Limited
- Development Q6 Director
 - Heathrow Expansion Programme
- 18 years in major project delivery @ Heathrow. T2, T5 and other
- 8 years Transport Infrastructure Delivery with Arup in the UK, Hong Kong the USA and Middle East.

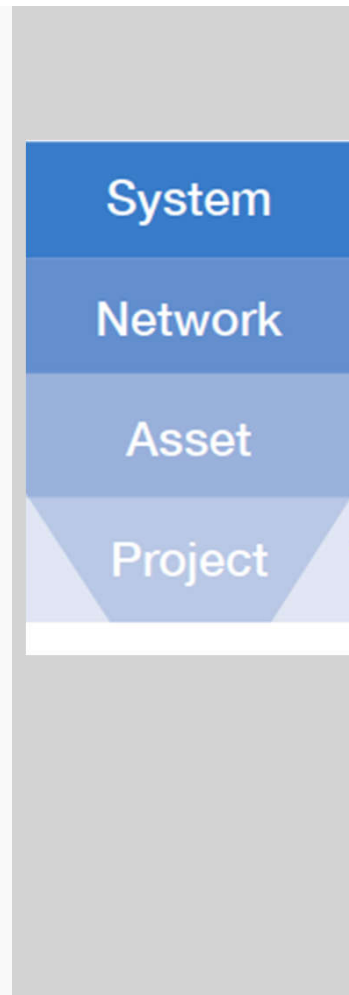


Heathrow
ARUP

■ Specific Areas of Interest

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- Collaboration Across the Supply Chain
 - Enabling innovators to connect with Heathrow and other major projects.
- Procurement & Contracting
 - Building on the Project 13 vision
“From Transactions to Enterprises”
- Systems Thinking
 - Ensuring excellence at the task level translates to project, asset, network and system level.



Organisations to connect with

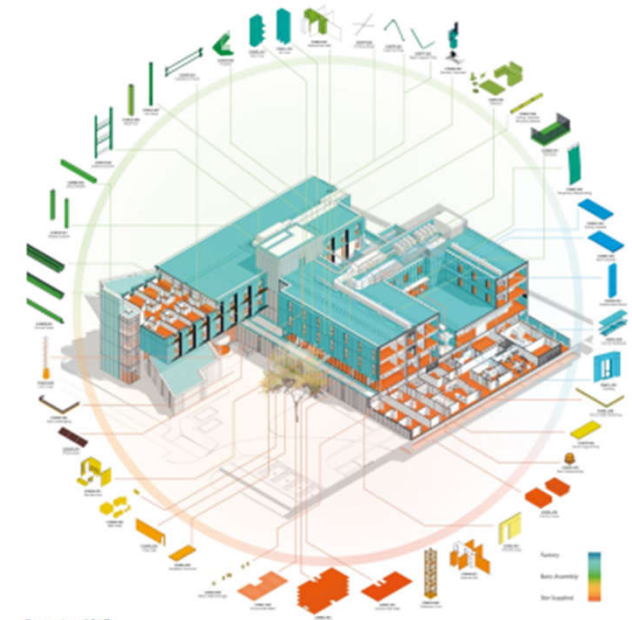
Member Contact for:

- Infrastructure Projects and Clients
 - Infrastructure Project Authority
 - Leveraging the Construction Sector Deal
- Buildoffsite International
 - Hong Kong International Airport
 - Airports and Infrastructure
- Links to Innovators
 - Overcoming the blockages to SMEs supplying and partnering Heathrow

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Transforming Infrastructure Performance



December 2017

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[Matt Palmer]
Tim Hall

- *build*offsite
- Executive Director

Contribution to Buildoffsite

- Forging Connections across the Value Chain
- Building Industrial Process Capability
- Transforming Construction Productivity

History

- Transformation Consultant with Total Flow
- Operations Director Mira Shower
- Lean Manufacturing Systems & Logistics

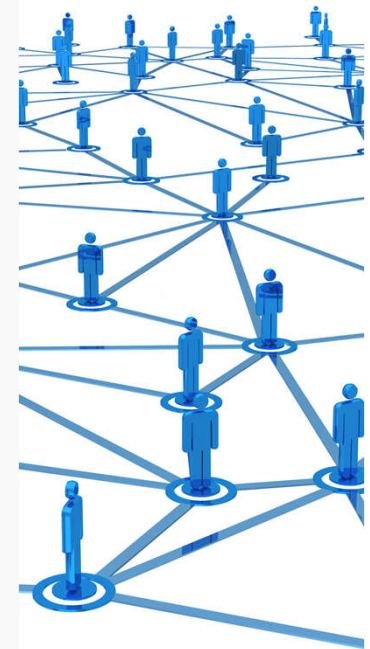


Specific Areas of Interest

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- Linking members across the Value Chain
 - Connecting clients with suppliers and enablers
 - Providing a platform for innovators to showcase
- Developing radical new value propositions
 - The i-tunes, Uber or EasyJet of construction
- Challenging the Offsite Supply Chain
 - From enthusiastic amateurs to flawless supply

*build*offsite as a catalyst for change



Organisations to connect with

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Any prospective Member with an ambition to collaborate, challenge and transform.

- Irrespective of scale
- Ambition and behaviour are more relevant than history and current capability

Underserved Sectors

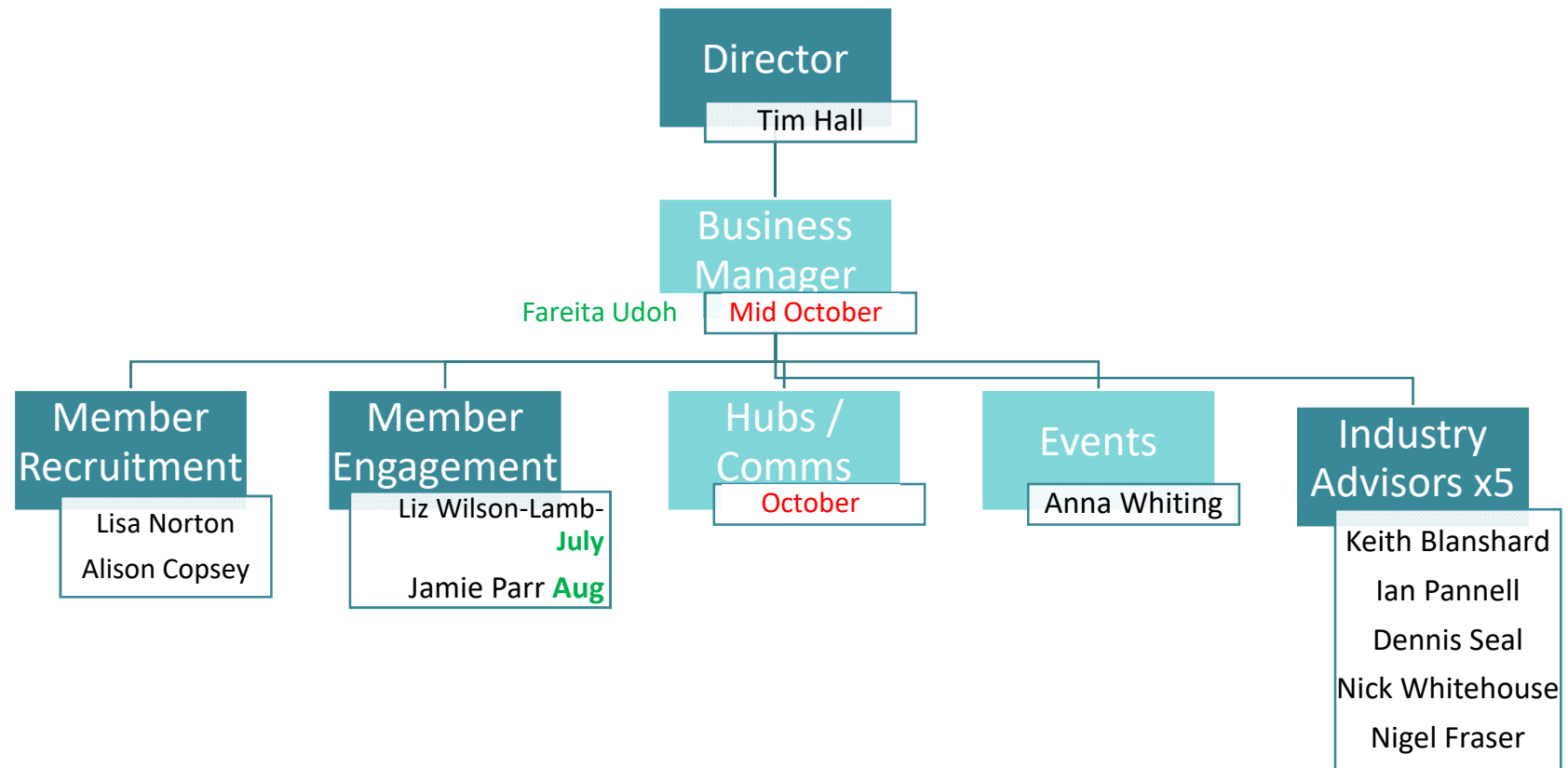
- Commercial property
- Build to Rent
- Investor led development





The Buildoffsite Delivery Team

Team Structure



Introducing New Buildoffsite Team Members



Liz Wilson-Lamb Infrastructure Member Engagement Lead

An extensive background in sales and customer service – with a focus on delivering member value. Liz has a depth of Infrastructure experience in water, airports and regulated utilities. She brings additional capability in procurement best practice and as professional trainer.



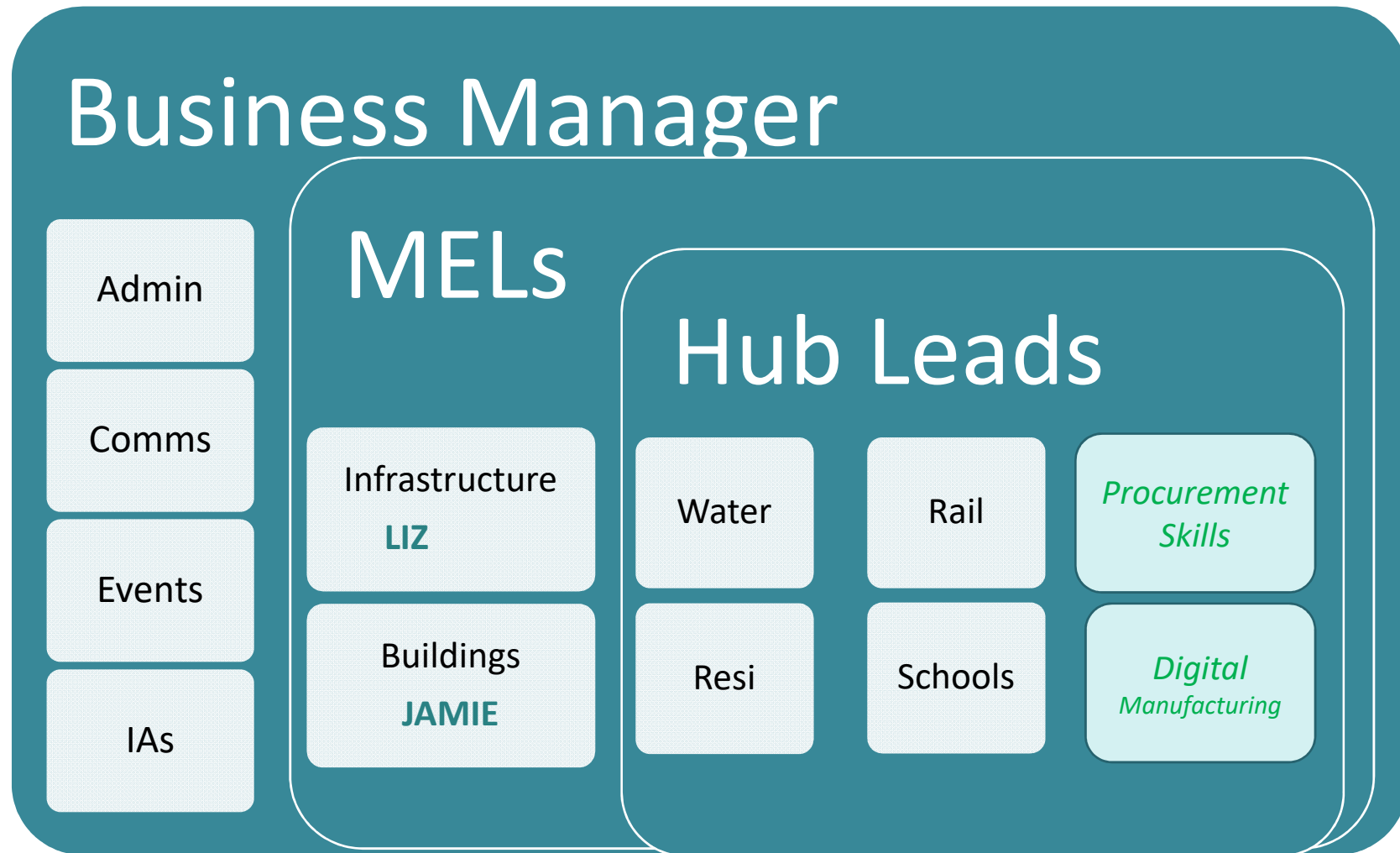
Jamie Parr Member Engagement Lead for Residential & Buildings

10 years of construction sector experience in business management, technical sales and consulting.

Jamie brings great enthusiasm for offsite and expertise in:

- Supply Chain
- Manufacturing
- Events Management

Hub Resourcing





What's Coming Up?

WED 12/09

WATER HUB MEETING & FACTORY VISIT

NOMENCA, Warrington

WED 12/09 – FRI 14/09

RESI CONVENTION 2018 (attendee costs apply)

Celtic Manor, Wales

WED 03/10

HOME BUILDERS 2020

Who are the players and innovators?

The National Composites Centre, Bristol

TUE 30 & WED 31/10

DIRECTION GROUP WORKSHOP, DINNER & MEETING

Laing O'Rourke, Steetley, Worksop

MON 05/11

INTERACTIVE WORKSHOP

How data can define your BIM strategy

CIRIA, London

TUES 20 & WED 21/11

THE OFFSITE CONSTRUCTION SHOW 2018

Excel, London



We are Membership Led.....



Where does the industry need us to go next?

Panel Discussion

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Q&A Guidelines

- Use the Microphones
- Introduce yourself and your company
- Pithy and succinct
- Direct at an individual if appropriate

Avoid

- Self – Promotion
- Questions longer than 10 seconds
- Rambling



HUB STRUCTURE

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