We are...

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
Enabling the construction industry to deliver greater project value

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

www.buildoffsite.com
@Buildoffsite
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
Reflections

Where we have come from....
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

OUR INDUSTRY CHALLENGE
Construction 2025

- **PEOPLE**
  - Lower costs
    - 33%

- **SMART**
  - Lower emissions
    - 50%

- **SUSTAINABLE**
  - Faster delivery
    - 50%

- **GROWTH**
  - Improvement in exports
    - 50%

- **LEADERSHIP**

www.buildoffsite.com  @buildoffsite
We have shifted emphasis from PROMOTING offsite to ENABLING offsite delivery.

<table>
<thead>
<tr>
<th>01</th>
<th>Innovative networking</th>
<th>06</th>
<th>Challenging the supply chain</th>
</tr>
</thead>
<tbody>
<tr>
<td>02</td>
<td>General &amp; sector specific advice</td>
<td>07</td>
<td>Instigating offsite collaboration</td>
</tr>
<tr>
<td>03</td>
<td>Knowledge transfer</td>
<td>08</td>
<td>Marketing platforms</td>
</tr>
<tr>
<td>04</td>
<td>Publications</td>
<td>09</td>
<td>Events</td>
</tr>
<tr>
<td>05</td>
<td>Engaging clients</td>
<td>10</td>
<td>Project site &amp; factory visits</td>
</tr>
</tbody>
</table>
Three Levels for Delivering Value

**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

## Clients
- Anglian Water
- ASDA
- Astrazeneca
- B&Q
- Berkeley Modular
- BIM Object
- Cherwell D.C.
- Circle Health
- Flagship Homes
- GlaxoSmithKline
- Heathrow
- HS2
- John Lewis

## Designer & Services
- KFC
- Legal & General
- Marks & Spencer
- HS2
- John Lewis
- KFC
- Legal & General
- London Underground
- Marks & Spencer
- Ministry Of Justice
- Moat Homes
- Northumbrian Water
- Northern Ireland Water
- North West Cambridge Development
- Richmond Housing
- Rotherham Housing
- Sainsbury’s
- Scottish Water
- Tempo Housing
- TfL/London Underground
- UK Power Networks
- United Utilities
- University Of Cambridge
- Yorkshire Water
- Your Homes Newcastle

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

## 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

---

[www.buildoffsite.com](http://www.buildoffsite.com)  [@buildoffsite](http://twitter.com/buildoffsite)
# New Members 2018

## 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
Time For a Break

10 minutes
Introducing the Buildoffsite Forum

Tim Carey
Graham Cleland
Dan Leech
Leanne Clowting
[Matt Palmer]
Tim Hall
**Buildoffsite Governing Forum:**

**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
Buildoffsite Governing Forum:

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

Tim Carey
Graham Cleland
Dan Leech
Leanne Clowting
[Matt Palmer]
Tim Hall
Introducing the Buildoffsite Forum

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

- 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

HOUSE OF LORDS
Science and Technology Select Committee
2nd Report of Session 2017–19

Off-site manufacture for construction: Building for change

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

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.

THE FARMER REVIEW OF THE UK CONSTRUCTION LABOUR MODEL
The way to get started is to quit talking and begin doing.

- Walt Disney
Specific Areas of Interest

- **Driving permanent change** through the application of science/data-based analysis. Facts don’t lie.....
- Promoting OSM only where it is 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

- 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
Introducing the Buildoffsite Forum

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

- 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

- 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: citb
Organisations to connect with

Member contact for:

- Offsite manufacture
- Digital engineering and advanced automation in offsite manufacture
- Particular interest in residential hub
Introducing the Buildoffsite Forum

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

- TDS Group
- Group Managing Director

Key interest Offsite:
- Advocating construction technology
- Creating digital assets
- Transforming culture

History

- TDS
  Est. 1992

- CONSTRUCTION & DESIGN CENTRE OF EXCELLENCE
  Est. 2011

- DESIGN4 STRUCTURES
  Est. 2016

www.buildoffsite.com  @buildoffsite
Specific Areas of Interest

- Forum priorities:
  - Digital Hub
  - Procurement: removing blocks

- Objectives
  - Identify & address barriers
  - Provide innovative & practical solutions
  - Deliver something!
Organisations to connect with

- Any members impacted by digital design
- **Genuine** appetite to collaborate & innovate
- Any organisations with procurement challenges
Introducing the Buildoffsite Forum

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

- 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

- **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

- 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

www.buildoffsite.com  @buildoffsite
Introducing the Buildoffsite Forum

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

- 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.
Specific Areas of Interest

- **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
Introducing the Buildoffsite Forum

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

- **buildoffsite**
- 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

- 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

buildoffsite as a catalyst for change
Organisations to connect with

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

www.buildoffsite.com   @buildoffsite
The Buildoffsite Delivery Team
Team Structure

Director
  - Tim Hall

Business Manager
  - Fareita Udoh
    - Mid October

Member Recruitment
  - Lisa Norton
  - Alison Copsey

Member Engagement
  - Liz Wilson-Lamb
    - July
  - Jamie Parr
    - Aug

Hubs / Comms
  - October

Events
  - Anna Whiting

Industry Advisors x5
  - Keith Blashard
  - Ian Pannell
  - Dennis Seal
  - Nick Whitehouse
  - Nigel Fraser

Mid October

Fareita Udoh
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
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

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

ESTABLISHED MARKET SECTOR HUBS
- WATER
- RAIL
- RESIDENTIAL

ENABLING HUBS
- DIGITAL BUILD
- SKILLS
- MANUFACTURING

DIRECTION GROUP DELIVERY TEAM

FUTURE MARKET HUBS
- CLEAN-ROOMS
- COMMERCIAL
- EDUCATION

www.buildoffsite.com
@Buildoffsite