CHIC

#### CENTRAL HOUSING INVESTMENT CONSORTIUM

**CHIC's BuildSmart Story** 

John Fisher, Managing Director Monday 19<sup>th</sup> October 2020



www.chicltd.co.uk

### **CHIC's Membership**

A member owned consortium delivering procurement <u>and</u> commercial efficiencies.

Overall now 100+ members working across England, Wales and Scotland.





#### CHIC's Managed Services – 10 Years In Save procurement time and costs and deliver operational savings



Safeguard your properties and keep your customers satisfied with efficient materials supply and tight cost control through our managed merchant service framework. Save time on procuring specialist services with our ready-to-go frameworks and contracts for everything from asbestos to fire, gas and water. Get the big things right first time with our materials only, labour only or combined packages for kitchens, bathrooms, roofs, doors, windows, heating and electrical installations.

Take the lead in tackling the housing shortage with BuildSmart – the all-in-one, collaborative approach to the off-site manufacture and construction of new homes.

#### Stay safe and compliant with our panel of top law firms offering specialist advice and Support on

advice and Support on governance, finance, asset management and development

### We separate materials and labour



### CHIC's Commercial & Contact Support Services Model



CHIC aims to Secure minimum cashable savings of **10%** for each member, through procurement and delivery efficiencies.

To date we have saved over **£50m** for our members.





## BuildSmart New Homes

#### CHIC's Journey 2015 to 2019



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### Manchester 2018

## Shine The Mirror – The Car Industry CHIC

Standard Products

Collaboration

- Factory Built
- Value Engineered
- Opportunity to Personalise, if you pay





## **Driving Value**

## 1 Volume Housebuilder built 15,000 new homes with 17 housetypes = average of 882 per type

### = OPPORTUNITY FOR VALUE ENGINEERING

### How many house types in 15,000 affordable homes?

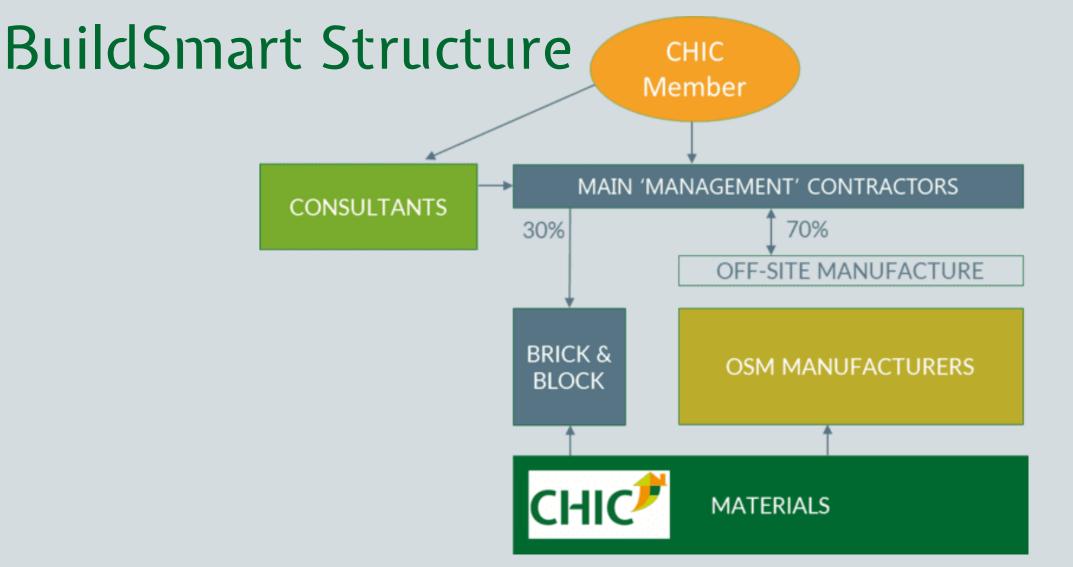






Volume Housebuilder for the Affordable Housing Sector

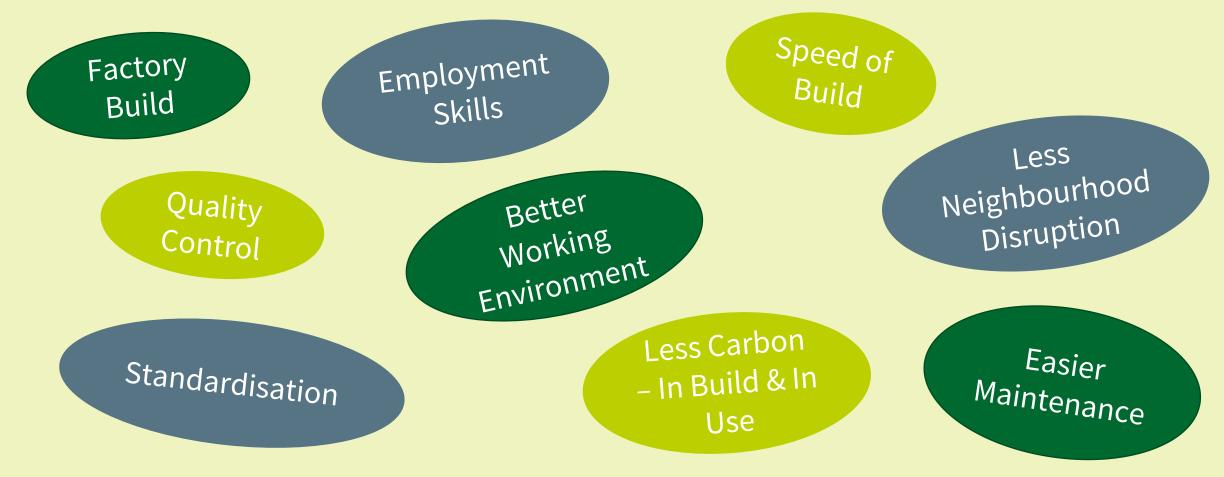
- Consortium level collaboration
- Aggregated volume
- Standardisation of core product/design
- Supply chain
- Utilise proven (materials) supply chain
- Embrace modern methods of construction



### All launched in early 2016



### **Business Case for MMC?**



### Other sectors use it widely – so why not housing?

### CHIC's MMC Solutions

1. Frame and Panel – Site Assembly

2. Fully Modular – Factory Finished

Suitable for c.70% of Sites

Long-Term Contracts – it will take time to optimise the 'product' and build volume

CHIC

### So Why Is It Difficult?



- Prejudice resistance to change
- Pilots let's do a garage site (already designed)
- Process earliest possible engagement
- Price EAs' argue too high
- Personalisation redesign every scheme
- Procurement we must run a tender for every scheme

### Proper Planning Prevents Poor Performance = Partnership

## Reflections From The Bruises & Scars So Far CHIC

- Those that say they will commit, actually don't
- The decision is still around cost per m<sup>2</sup> not whole development costs
- Developing landlords have to commit to improve the product and achieve the right price point



- Now needs more stick than carrot (Jenricks 25%)
- Contractor vs. manufacturer?



### CHIC's MMC Solutions – Available Now MANUFACTURE & SUPPLY



CHIC

### New Long-Term Contracts – just procured:

### MANUFACTURE & (IF REQUIRED) FULL TURNKEY CONTRACTOR SERVICE





## The Future?



## ...IS MODULAR!

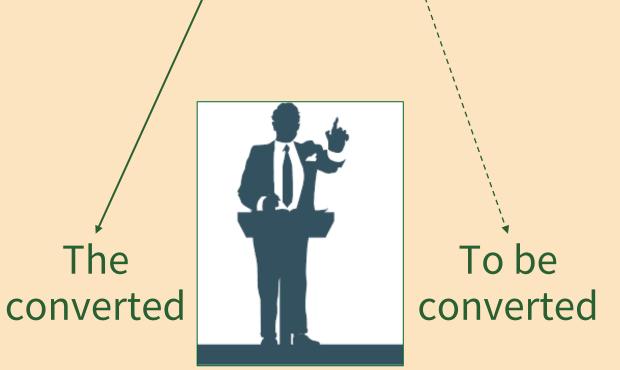
### We have to work together – in partnership

### Oh – don't forget the zero carbon target for 2050!

If you always do what you always did, you'll always get what you always got. ~Sir Michael Latham



## Where are you?



### Manic Offsite Preacher

- Together we can change the approach
- We have the technology and, the designs, the processes and partners, and procurement compliance – now we need the order book!

## Thank You



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## Factory Built New Homes



L&Q Counties | Tiddington

### Stewart Milne Timber Systems – local supplier

**NORTH WEST** Proposed New Manufacturing WITNEY Sales, Design & Centre Operations Team;

**ABERDEEN** Sales, Design & Operations Team; Manufacturing Centre

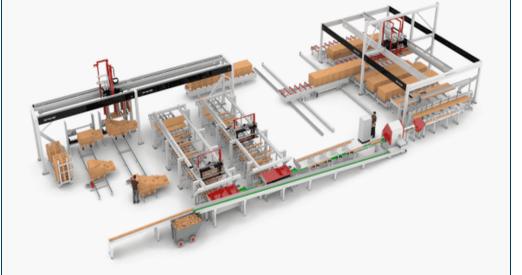
GRANGEMOUTH Manufacturing Centre from 2019

GLASGOW Sales, Design & **Operations** Team

Manufacturing Centre

**MILTON KEYNES** Sales & Operations Team

> SOUTH EAST Proposed New Manufacturing Centre



- Existing facility investment
- New manufacturing centres proposed
- Technology & automation at the centre of this

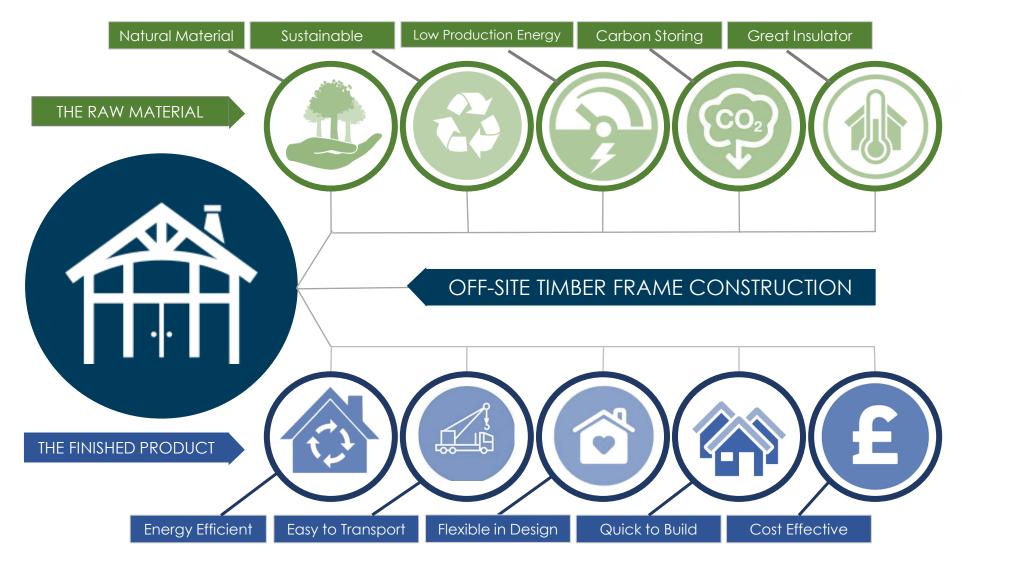


### Stewart Milne Timber Systems – trusted supplier



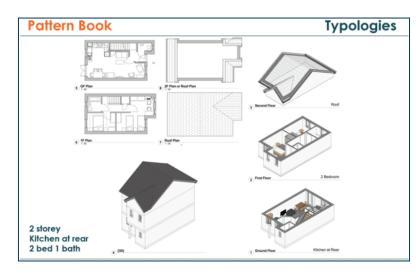


### **Offsite Timber MMC – The Solution**





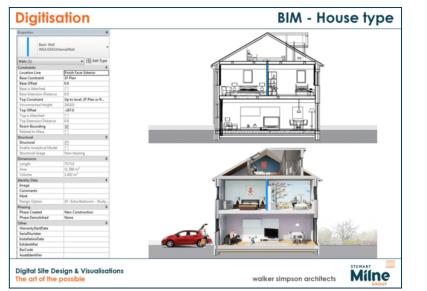
### **Design Efficiency**







- Common elements study
- Unit typologies
- Smart Manufacturing & ERP
- Supply Chain Integration







### **Automated Manufacturing**









### **Advanced Construction**



FOUNDATION/ SOLEPLATES



SYSTEM SCAFFOLD



**GF WALL PANELS** 



**FF CASSETTES** 

**FF WALL PANELS** 

**GROUND LEVEL ERECT ROOFS** 



### Sustainability & Climate

- Timber the only truly renewable structural building material
- Carbon storing benefitting climate change
- ISO 14001 Environmental Management System Accreditation
- All structural timber & wood base sheathing/flooring PEFC Certified
- Low energy use in manufacture compared to masonry and steel
- 98% Timber Recycled / 85% Non-Timber Waste Recycled









### **Assured Quality**

- BBA Product Certification
- NHBC Warranty
- BLP Durability and Maintenance
- Lloyds Buildoffsite, Property Assurance Scheme (BOPAS)
- BS EN ISO 9001:2015 Quality Management Systems
- Structural Timber Association Quality Scheme
- PEFC Registration
- Third Party Client Survey Process (In-house)

















### **Case Studies**



L&Q | Glebe Farm, Milton Keynes

Allenbuild/Places for People | Broughton, Milton Keynes



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Engie | Warwick



### Thank-you

Sanctuary Homes | Drakes Broughton, Worcestershire



## **Totally**Modular

Helping solve the housing crisis



Totally Modular are thrilled to have been chosen as the sole delivery partner for the BuildSmart - CHIC Volumetric Housing Pilot Contract

Try before you buy!

#### The definition framework identifies the following 7 MMC categories:

**Category 1** – Pre-Manufacturing - 3D primary structural systems

**Category 2** – Pre-Manufacturing - 2D primary structural systems

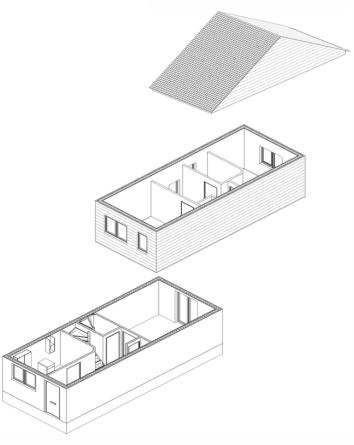
**Category 3** – Pre-Manufacturing - Non systemised structural components

Category 4 – Pre-Manufacturing - Additive Manufacturing

Category 5 – Pre-Manufacturing – Non-structural assemblies and sub-assemblies

**Category 6** – Traditional building product led site labour reduction/productivity improve

**Category 7** – Site process led labour reduction/productivity improvements





## We are...

## **Category 1** – Pre-Manufacturing 3D primary structural systems





Manufacture



- Homes leave as complete as possible from factory

- Less risk

- Homes are made on a cellular production line

- Increased accuracy
- Exceeds building regs







With scope to expand with regional factory to meet demand







Design

Manufacture

Install



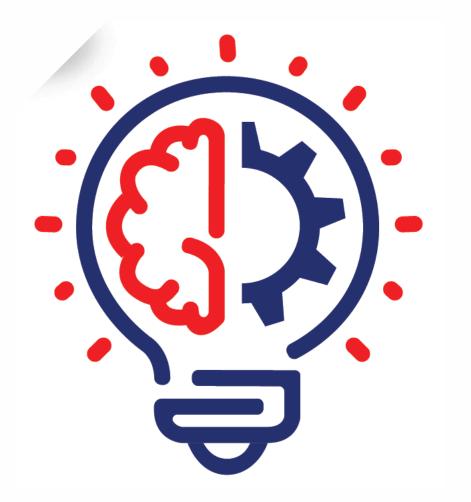




## Ground Works Team

#### Mobile Ground Works Team

Totally Modular



## Innovation





## Project Complete

Totally Modular

#### Before

"I have been to a number of modular sites, but these are the <u>most impressive</u> <u>I have seen</u>."

Robert Dodds – Homes England.





After



### **Build Better**

TotallyModular





Build Greener



**Build Faster** 





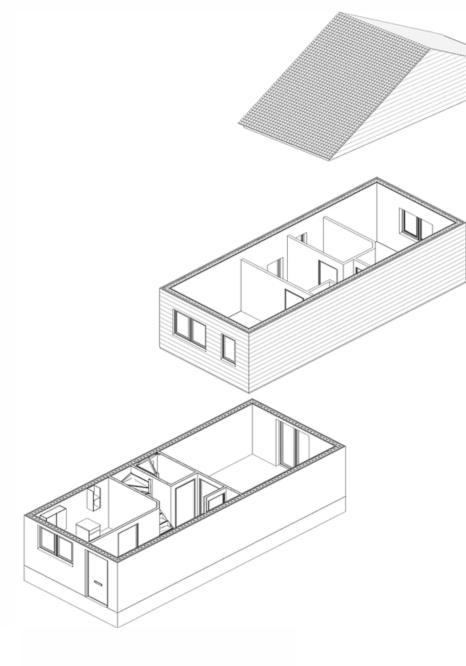












# **Totally**Modular

Building Better, Greener, Faster