

A construction worker wearing a yellow hard hat and a high-visibility vest is seen from behind, holding a set of blueprints. The worker is standing on a construction site with the steel framework of a building under construction in the background. A large, semi-transparent triangle with blue and green gradients is overlaid on the right side of the image.

TRANSFORMING HOW WE BUILD HOMES

www.aimch.co.uk

VISION

The three-year **Advanced Industrialised Methods for the Construction of Homes (AIMCH)** project aims to tackle all the challenges the housing sector currently faces including skills shortages, an ageing workforce, poor productivity, low output and low affordability while also becoming a major player in the housing sector by identifying and developing industrialised offsite solutions needed to meet current and future house building demands.



BACKGROUND

Government has stated that the UK needs an additional 120,000 homes each year.

The housing sector faces many challenges in meeting this target, including skills shortages, an aging workforce, poor productivity, low output and low affordability. The three-year AIMCH project aims to tackle all these challenges and become a major player in the housing sector by identifying and developing industrialised offsite solutions needed to meet current and future housebuilding demands. These will be trialled on live housing projects, with successful new methods then being commercialised and brought to market in volume.

It is expected that AIMCH will result in new digital design tools, manufacturing advancements, improved near-to-market offsite systems and lean site processes. The ultimate goal of the project is to support the sector by delivering the 120,000 target for the same or less cost than traditional craft methods, which are built 30% more quickly. The project has potential to impact on 35,000 homes being delivered by AIMCH partners across the UK, each year.

TIMELINE



STATISTICS

 **120,000**
Additional homes each year for the same or less cost than traditional craft methods.

 **30%** **Faster build time** **35,000** The number of UK homes to be potentially impacted by AIMCH partners delivery each year. 



PARTNERS



STEWART MILNE GROUP

LEAD INDUSTRY PARTNER – HOUSING & OSM SUPPLY CHAIN

Stewart Milne Group is one of the UK's leading independent home builders and the UK's largest offsite timber systems specialist with award winning housing innovation. SMG develops 1,000 homes and provides 7,500 offsite timber frame homes for 3rd party clients. SMG seeks to innovate through digital working, advanced manufacturing and offsite construction, doubling output for internal and external housing clients.

www.stewartmilne.com



LONDON & QUADRANT HOUSING TRUST LTD

INDUSTRY PARTNER - SOCIAL HOUSING

L&Q are a regulated housing association and one of the UK's most successful social businesses. Housing around 250,000 people in 92,000 homes, primarily across London and the South East. As a not-for-profit organisation, L&Q reinvest all the money we make into new and existing homes, creating successful communities and providing excellent services.

L&Q will tackle the housing crisis by building 100,000 new homes over ten years. At least 50% of these will be genuinely affordable, with a target of 60% in London, investing in a £250 million community Foundation and £5 million a year skills academy to build opportunity and confidence in our communities.

www.lqgroup.org.uk

BARRATT DEVELOPMENTS PLC

INDUSTRY PARTNER - PRIVATE HOUSING

As the UK's largest housebuilder Barratt is leading the industry with its adoption of modern methods of construction and offsite production. This leadership position is based on the breadth of technologies it is actively trialling and the strength of its supply chain relationships.

Barratt Developments plc sold 17,579 homes in the year to June 2018, making it the biggest housebuilder by volume in Britain. Over the past six years Barratt Group has increased its housing output by more than 40% - building more of the homes the country needs. Barratt is committed to building quality homes and this year received more NHBC Pride in the Job awards than any other housebuilder and retained its HBF 5 star rating for customer satisfaction for 9 years in a row.

www.barrattdevelopments.co.uk



FORSTER ROOFING

INDUSTRY PARTNER - SME SUB CONTRACTOR

Part of the Forster Group, Forster Roofing is Scotland's largest integrated roofing and solar company, covering one-in-five new homes in Scotland. Recognised for its innovative approach and commitment to excellence, Forster work extensively with Industry and Government bodies to raise standards and drive change. Recognised for its work in areas like skills, training and education, where the Forster Skills Academy is bringing a new perspective to Construction Apprenticeships. At Forster, innovation sits at the heart of a strategic approach to sustainable, long-term growth, and the search for solutions to industry challenges, including quality, productivity and an integrated low carbon energy future.

www.forstergroup.co.uk



PARTNERS



MANUFACTURING TECHNOLOGY CENTRE (MTC)

LEAD RESEARCH PARTNER

The Manufacturing Technology Centre (MTC) is an independent Research & Technology Organisation that develops and proves innovative manufacturing processes and technologies in an agile, low risk environment, in partnership with industry, academia and other institutions.

With a proven track record working with a range of sectors including defence and aerospace, the MTC has now established a position supporting change in the construction sector. The MTC operates some of the most advanced manufacturing equipment in the world, and employs a team of highly skilled engineers, many of whom are leading experts in their field. MTC's breadth of experience and appreciation of the challenges in the construction sector make them a perfect R&D partner for AIMCH.

www.the-mtc.org

CONSTRUCTION SCOTLAND INNOVATION CENTRE

RESEARCH & DISSEMINATION PARTNER

CSIC supports Scotland's construction related businesses to innovate, collaborate and grow by matching innovation requirements with business support and academic specialists. Focusing on innovation support around Business models, Products, Processes and Service models, CSIC offers advice, funding, facilitation and access to cutting edge equipment and expertise, improving Scotland's global competitiveness and delivering social, environmental and economic impact. CSIC facilitates collaboration with Scottish businesses, academia (through 13 partner universities) and public sector organisations, enabling projects to benefit from Scotland's world renowned skills and expertise in areas such as BIM, Advanced Materials, Automation and Robotics, Low Carbon Solutions, Virtual and Augmented Reality and Smart Cities.

www.cs-ic.org





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Follow AIMCH's progress



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www.aimch.co.uk

