



# TRANSFORMING HOW WE BUILD HOMES

Advanced Industrialised Methods for  
the Construction of Homes (AIMCH)

## Supplier Sandpit Evaluation Report

**April 2022**



# EXECUTIVE SUMMARY

Work Package 6 (WP6) of the AIMCH project (Advanced Industrialised Methods for the Construction of Homes) was focussed on Advanced Modern Methods of Construction (MMC) Prototyping, led by Barratt (BDW). Most of the work was carried out by BDW, with significant contributions from SMG, L&Q, FRS and MTC.

The scope of WP6 included a supplier sandpit activity, whereby proposals were invited for submission to AIMCH by any supplier, across several categories:

1. **Advanced Modern Methods of Construction**
2. **Standardisation**
3. **Zero Carbon**

Two further categories were added due to the breadth of interest:

4. **Future Home**
5. **Off-site manufacture/Pre-Manufactured Value**

During 2021, almost 40 submissions were received, through a supply chain call, facilitated by CPA (Construction Products Association) and Construction Scotland Innovation Centre (CSIC) AIMCH social and press channels. This led to responses received from a combination of website inputs and partner referrals.

The Supplier Sandpit process has been a success, and this is despite the constraints of COVID: the process has elicited many submissions from across the supply chain, with 24% of submissions still under review and a high proportion (42%) being actively progressed by AIMCH partners. All four of the AIMCH partners, involved as suppliers and developers of homes, were engaged in the process, and are actively progressing solutions submitted.

The partners are continuing to review and progress the “live” submissions, which will continue beyond the end of the project, which completes at the end of April-2022. This could lead to implementation of some of the solutions into the partners’ businesses or for incorporation into future R&D and demonstrator projects.

It is worth noting that the AIMCH partners are also progressing several solutions outside the Sandpit process, which were developed and trialled during the 39-month project that started in Feb-2019.

There is substantial reporting on these that is available from the AIMCH website [www.aimch.co.uk/outputs](http://www.aimch.co.uk/outputs).

AIMCH ambition is through engagement with supply chain, and the creation and exploitation of future industrialised housing techniques, such as panelised MMC building systems, design standardisation, DFMA, digital working and advanced manufacturing, AIMCH will deliver more high quality, functional and appealing net zero carbon homes, safely, efficiently and at an affordable cost.

# TABLE OF CONTENTS

1. Introduction .....	5
2. Supplier Sandpit Challenge Process .....	6
3. Supplier Sandpit Outcomes .....	8
4. Summary and Next Steps .....	12
5. Recommendations .....	12
6. Conclusions .....	13
7. Revisions .....	13
8. Appendices .....	14

## Figures

Figure 1. Status of submissions against each challenge category .....	11
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## Tables

Table 1. Glossary of terms .....	4
Table 2. Submission entry review status at 14-Feb-2022 .....	8
Table 3. Status of submissions against each challenge category .....	9
Table 4. Status of submissions against each challenge category .....	11
Table 5. Record of changes to this document .....	12

## Appendices

Appendix 1. Supplier Sandpit Process .....	14
Appendix 2. Supplier Sandpit Challenge - webpage .....	15
Appendix 3. Supplier Sandpit Challenges .....	16
Appendix 4. Supplier Sandpit - Pre-qualification questionnaire .....	17

**Table 1. Glossary of terms**

TERM	MEANING
AIMCH	Advanced Industrialised Methods of Construction for Homes
Partners	Members of the consortium who have signed the Consortium Agreement
Lead Party	The party with overall responsibility for project – Stewart Milne Group
BDW	Barratt David Wilson Trading Ltd
CSIC	Construction Scotland Innovation Centre
CPA	Construction Products Association
FRS	Forster Roofing Services Ltd
L&Q	London & Quadrant Housing Trust Ltd
MTC	The Manufacturing Technology Centre Ltd
SMG	Stewart Milne Group Ltd
MEP	Mechanical, electrical, and plumbing
MMC	Modern Methods of Construction
PMO	Project Management Office (provided by Limberger Associates Ltd under contract to Stewart Milne Group)
PMV	Pre-Manufactured Value -the proportion of manufactured components within an overall construction cost, i.e., manufactured off-site, e.g., in a factory
WP	Work Package

# 1. INTRODUCTION

Work Package 6 (WP6) of the AIMCH project (Advanced Industrialised Methods for the Construction of Homes) was focussed on Advanced Modern Methods of Construction (MMC) Prototyping, led by Barratt Developments (BDW). Most of the work was carried out by BDW, with significant contributions from L&Q, FRS and MTC.

The scope of WP6 included a supplier sandpit activity, whereby proposals were invited for submission to AIMCH by any supplier, across several categories of innovation solutions.

During 2021, almost 40 submissions were received, through a supply chain call, facilitated by CPA (Construction Products Association) and CSIC AIMCH social and press channels. This led to responses received from a combination of website inputs and partner referrals.

It had been envisaged that a “Dragon’s Den” style review process would be held with the suppliers of shortlisted submissions, but the approach had to be changed due to COVID restrictions. Fortunately, this did not negatively impact the success of the

activity due to the increased scope of partner-initiated innovations being trialled, as well as the addition of a Zero-carbon concept home, built by Barratt Developments as part of the AIMCH project, which incorporated several innovations and new/emerging/future technologies.

Hence, the AIMCH Project Manager met with partners on several occasions to review and update the sandpit submissions, a high proportion of which are being progressed by AIMCH partners as part of current and future project activity and exploitation.

This report explains the sandpit process that was followed and presents a status on the submissions in this, the final month of the AIMCH project.

## 2. SUPPLIER SANDPIT CHALLENGE PROCESS

During year 2 of the AIMCH project, a proposal for the sandpit process was developed by WP6 Lead, Barratt Developments and agreed by the partners - see *Appendix 1*.

It was decided to promote the sandpit process via the AIMCH website, which is managed by CS-IC, and the agreed format and content were launched as a webpage in May-2021 as a “Supplier Sandpit Challenge” with 3 distinct challenges - see *Appendix 2*.

The promotion of the website was facilitated by Construction Product Association and other AIMCH stakeholder supporters to signpost interested suppliers to engage with AIMCH, through the sandpit process.

The three challenges were:

### **CHALLENGE 1: ADVANCED MMC SOLUTIONS**

- AIMCH are looking for potential MMC products or systems that would improve areas such as productivity, resource, waste, and quality to deliver homes more reliably and at a lower cost. The product or system would need to demonstrate volume procurement benefits from driving out non-value adding processes, improving productivity and delivery certainty, through being able to build a weathertight superstructure in one day, through near to market, scalable, technically robust/proven and commercially viable near to market solutions, to complement the partner’s current housing designs and easily implemented into current operations.

- Potential areas for solutions can be, but are not limited to, the following:

- o External cladding
- o Scaffold-less erect panelised system
- o Modular roof/Lightweight tiling
- o Lightweight/brick cladding system
- o Fabric efficiency

### **CHALLENGE 2: STANDARDISATION SOLUTIONS**

- AIMCH are seeking volume procurement benefits from standardised product families and components, relating to near to market, scalable, technically robust/proven and commercially viable solutions, to complement the partner’s current housing designs and easily implemented into current operations.
- Potential areas for solutions can be, but are not limited to, the following:
  - o Modular stairs
  - o Bathroom pods
  - o Windows and doors
  - o Pre-formed services



### **CHALLENGE 3: ZERO CARBON SOLUTIONS**

- AIMCH are seeking products or systems that would help the journey towards Net Zero Carbon. AIMCH would be looking for any technology and/or material that would improve the thermal efficiency, reduce embodied carbon, and assist in the target of a 100% carbon reduction for our homes. The solutions can be MEP or MMC focussed, however they must be commercially viable and adaptable to the partner's current housing range.
- Potential areas for solutions can be, but are not limited to, the following:
  - o Renewable technologies
  - o Low carbon technologies
  - o High performing insulating materials
  - o Replacement for gas services

These challenges are shown in *Appendix 3* in the format displayed on the webpage.

Suppliers were invited to submit their entries to the challenges using a Pre-Qualification Questionnaire, to be sent into a centrally managed inbox. See *Appendix 4*.

Several submissions were received via the website, as well as through partner referrals. In total, 38 submissions were recorded in a central submission's tracker – see *Appendix 5*.

The submissions were assigned against the appropriate challenges, based either on the supplier's application, or because of assessment by the PMO, in conjunction with the relevant partners. Some submissions were categorised against primary challenge, as well as secondary challenges. Each submission was assigned to a partner representative to assess and progress as appropriate.

Due to the number of submissions received and the breadth of interest, two further challenges were defined to aid categorisation:

#### **CHALLENGE 4: Future Home**

#### **CHALLENGE 5: Off-site manufacture/Pre Manufactured Value (PMV)**

These two additional categories were particularly relevant, given the more demanding requirements that are being driven through upcoming regulatory standards and changes in government affordable housing policies and requirements. These additional categories also supported the increased scope of the AIMCH project, achieved through AIMCH partner Barratt committing to build a Net Zero-Carbon concept house demonstrator (The Z-House), in conjunction with Salford University, on their campus site in Manchester. Several suppliers' innovations were therefore included in the Supplier Sandpit Challenge, beyond the original scope/call. These are summarised in *Appendix 6*, and included within the following sections.

### 3. SUPPLIER SANDPIT OUTCOMES

As stated in section 2 above, 38 separate entries were received. Of these, 5 (13%) were rejected by the time of the first review, held in Aug-2021, with 30 (79%) being reviewed further and 2 (5%) being progressed by interested AIMCH partners within the project.

A second review was held in Oct-2021 and third review in Feb-2022, by which time 13 (34%) of entries had been rejected, 9 (24%) were still under review and 16 (42%) were being progressed by AIMCH partners.

Entries for alternative heating solutions (IR, skirting, underfloor) were assigned to Category 4 – Future Home for this report.

**Table 2. Submission entry review status at 14-Feb-2022**

Final review status	No. of entries	% of entries
Rejected	13	34%
Under review	9	24%
Being progressed	16	42%
TOTAL	38	100%
TOTAL	100%	100%

Analysis of the submissions against each category/challenge shows the clear focus of the AIMCH partners, regarding the categories of submissions being progressed: see Table 3.

The summary of submissions still under review or being progressed against each category is as follows:

#### 1. Advanced MMC solutions

10 entries were received, with 3 being progressed: Lightweight metal roofing system, enhanced insulation, and pre-fitted plumbing solutions.

The AIMCH partners have already assessed several MMC solutions as part of their demonstrator builds, so the remaining proposals are being reviewed or progressed, as they may offer potential to meet the more demanding building regulations to be rolled out in the future for the sector. The IR heating solution was assigned to the Advanced MMC category prior to the introduction of the Future Home category.

#### 2. Standardisation Solutions

Only 2 submissions were received, with only a window/door supplier proposal being still under review. The small number of entries is probably indicative of the challenges of standardisation, which is best led by the house builders, since the suppliers will generally provide what the house builders are requesting. AIMCH partners have carried significant assessment of standardisation opportunities within their house ranges as part of the 39-month project. This will lead to rationalised, standardised configurations of certain components to be sourced from the supply chain.

A key outcome to assist component/supplier standardisation beyond the project is the creation of Affordable Homes Pattern Books by AIMCH developer partners L&Q Homes and Stewart Milne Group. These embrace a kit of parts philosophy of common, impactful standardisation components. The AIMCH developers are already engaged with supply chains in the refinement and procurement of



standardised elements, as these house ranges are remixed into live and future developments and are made available for third parties via Donaldson Timber Systems (formerly Stewart Milne Timber Systems).

### 3. Zero Carbon solutions

10 entries were received, with 2 under review and 5 being progressed. These include re-purposing PIR insulation board, reducing thermal bridging, integrated and renewable energy solutions and smart home monitoring solutions.

The high level of interest in the solutions proposed is indicative of the rapid transition towards efficient, integrated, and renewable energy solutions demanded by new building regulations, government policies and expected by the buying public.

### 4. Future Home

5 submissions were categorised with 2 under review and 1 being progressed, all of these

being underfloor, skirting board and IR heating solutions of which two were trialled in the Z-House.

### 5. Off-site manufacture/PMV

11 entries were received and of these 4 are under review and 7 are being progressed, which include insulation, sheathing, edge protection, facades and cladding, pre-cast floors, lightweight roof tiles and wet-room pods.

The level of interest in these solutions is indicative of the AIMCH partners' move towards increasingly higher levels of off-site construction and higher PMV. These are expected to deliver improved quality and safety at commercially viable costs, which are expected to become increasingly competitive as volumes increase and processes are matured.

A visual representation of the data in Table 3 is shown in the figure below.

**Table 3. Status of submissions against each challenge category**

Challenges	Category	Submitted	Rejected	Under review	Being progressed
Website challenges	1 - Advanced MMC solutions	10	7	0	3
	2 - Standardisation Solutions	2	1	1	0
	3 - Zero Carbon solutions	10	3	2	5
Categories added due to interest	4 - Future Home	5	2	2	1
	5 - Off-site manufacture/PMV	11	0	4	7
Total		38	13	9	16
Total "live" submissions				25 (66%)	

The summary of submissions still under review or being progressed against each category is as follows:

## 6. Advanced MMC solutions

10 entries were received, with 3 being progressed: Lightweight metal roofing system, enhanced insulation, and pre-fitted plumbing solutions.

The AIMCH partners have already assessed several MMC solutions as part of their demonstrator builds, so the remaining proposals are being reviewed or progressed, as they may offer potential to meet the more demanding building regulations to be rolled out in the future for the sector. The IR heating solution was assigned to the Advanced MMC category prior to the introduction of the Future Home category.

## 7. Standardisation Solutions

Only 2 submissions were received, with only a window/door supplier proposal being still under review. The small number of entries is probably indicative of the challenges of standardisation, which is best led by the house builders, since the suppliers will generally provide what the house builders are requesting. AIMCH partners have carried significant assessment of standardisation opportunities within their house ranges as part of the 39-month project. This will lead to rationalised, standardised configurations of certain components to be sourced from the supply chain.

A key outcome to assist component/supplier standardisation beyond the project is the creation of Affordable Homes Pattern Books by AIMCH developer partners L&Q Homes and Stewart Milne Group. These embrace a kit of parts philosophy of common, impactful standardisation components. The AIMCH developers are already engaged with supply chains in the refinement and procurement of standardised elements, as these house ranges are remixed into live and future developments and are made available for third parties via Donaldson Timber Systems (formerly Stewart Milne Timber Systems).

## 8. Zero Carbon solutions

10 entries were received, with 2 under review and 5 being progressed. These include re-purposing PIR insulation board, reducing thermal bridging, integrated and renewable energy solutions and smart home monitoring solutions.

The high level of interest in the solutions proposed is indicative of the rapid transition towards efficient, integrated, and renewable energy solutions demanded by new building regulations, government policies and expected by the buying public.

## 9. Future Home

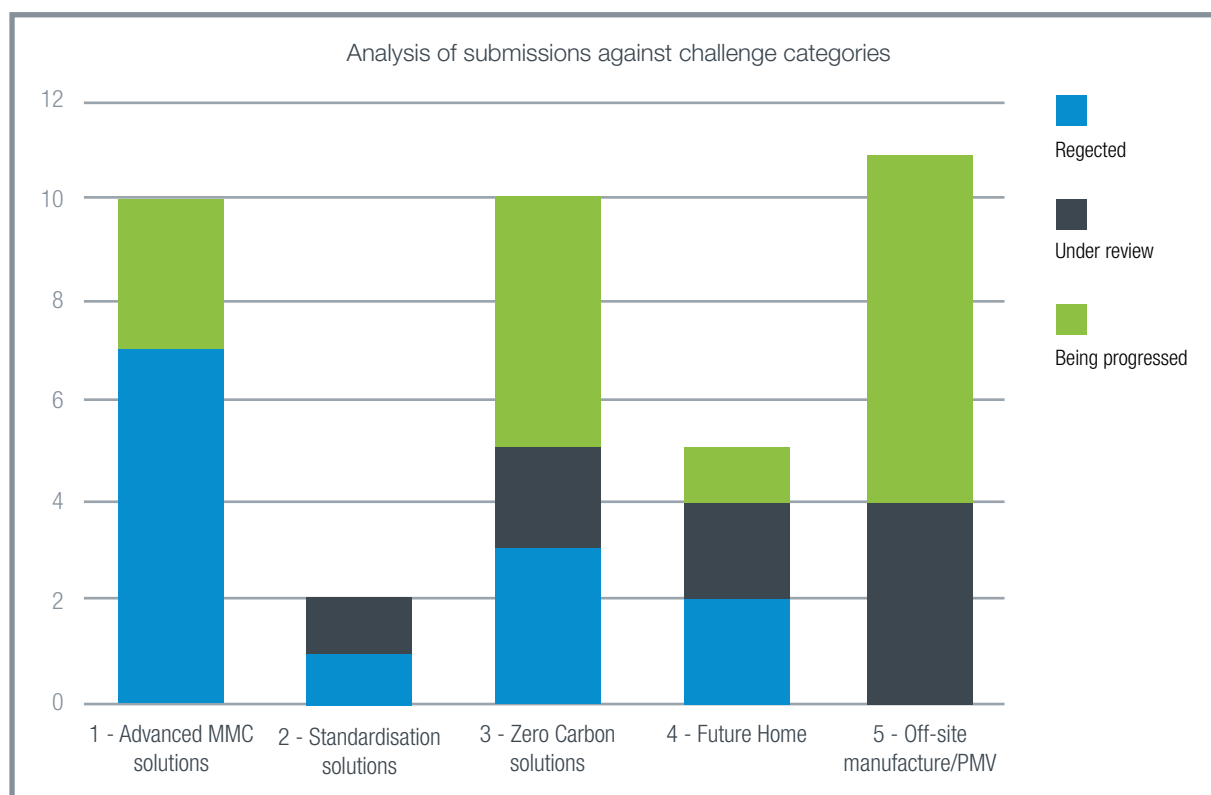
5 submissions were categorised with 2 under review and 1 being progressed, all of these being underfloor, skirting board and IR heating solutions of which two were trialed in the Z-House.

## 10. Off-site manufacture/PMV

11 entries were received and of these 4 are under review and 7 are being progressed, which include insulation, sheathing, edge protection, facades and cladding, pre-cast floors, lightweight roof tiles and wet-room pods.

The level of interest in these solutions is indicative of the AIMCH partners' move towards increasingly higher levels of off-site construction and higher PMV. These are expected to deliver improved quality and safety at commercially viable costs, which are expected to become increasingly competitive as volumes increase and processes are matured.

A visual representation of the data in Table 3 is shown in the figure below.

**Figure 1. Status of submissions against each challenge category**

Further analysis of the submissions still under review or being progressed is shown by partner in Table 4.

**Table 4. Status of submissions against each challenge category**

Challenge Category	Solutions under review		Solutions being progressed	
1 - Advanced MMC solutions	0		3	Barratt, Stewart Milne Group
2 - Standardisation Solutions	1	Stewart Milne Group	0	
3 - Zero Carbon solutions	2	Barratt, Stewart Milne Group	5	Barratt, Forster Roofing Services, Stewart Milne Group
4 - Future Home	2	Barratt	1	Barratt
5 - Off-site manufacture/PMV	4	Barratt, SMG	7	Barratt, Forster Roofing Services, L&Q, Stewart Milne Group
<b>Total</b>		<b>9</b>		<b>16</b>

The fact that all four AIMCH partners that are involved as suppliers and/or developers are reviewing and/or progressing solutions submitted via the sandpit process shows a high degree of success with this activity. Indeed, although there are several solutions still under review, this is also indicative of the seriousness with which the partners are treating these solutions since there is ongoing activity to understand and develop the requirements for potential future application.

The smaller numbers of “live” solutions in categories 1 – Advanced MMC and 2 – Standardisation is only because the partners have

developed these areas substantially during the 39-month AIMCH project and are leading the way in the application of such solutions. The Future Home category is an area for substantial further development and is likely to be explored further in future projects.

It is worth noting that the AIMCH partners are also progressing several solutions outside the Sandpit process, which were developed and trialled during the 39-month project that started in Feb-2019. There is substantial reporting on these that is available from the AIMCH website.

## 4. SUMMARY AND NEXT STEPS

The Supplier Sandpit process has been a success, and this is despite the constraints of COVID: the process has elicited many submissions from across the supply chain, with 24% of submissions still under review and a high proportion (42%) being actively progressed by AIMCH partners. All four of the AIMCH partners that involved as suppliers and developers of homes were engaged in the process and are actively progressing solutions submitted.

The partners are continuing to review and progress the “live” submissions, which will continue beyond the end of the project, which completes at the end of April-2022. This could lead to implementation of some of the solutions into the partners’ businesses or for incorporation into future R&D and Demonstrator projects.

## 5. RECOMMENDATIONS

The following are key recommendation AIMCH partners are now actively progressing:

1. AIMCH partners continue to review and progress the solutions within their business activities beyond the end of the AIMCH project
2. Suppliers continue to engage with the AIMCH partners beyond the end of the AIMCH project
3. Similar Supplier Sandpit challenges are facilitated by other such projects and in future collaborations between partners involved in AIMCH
4. Other housing developers keen on progressing industrialised housing solutions, can learn and follow AIMCH solutions and supply chain engagement techniques, so the whole industry benefits and moves forward

## 6. CONCLUSIONS

The following are key conclusions drawn from this work:

1. The Supplier Sandpit process was a success, despite COVID constraints
2. Of 38 submissions received, through a combination of website entries and partner referrals, 66% are still live (combination of “under review” and “being progressed”)
3. Most solutions that are still live are in the categories of:
  - a. Zero Carbon = 7/38 (18%)
  - b. Off-site manufacture/PMV = 11/38 (29%)
4. The smaller number of live solutions in the Advanced MMC and Standardisation categories is due to these being the predominant areas of activity for the partners in the 39-month AIMCH project, resulting in the AIMCH partners leading the way in these areas.

The Future Home category is likely to expand significantly in future such projects, as house-builders and their suppliers develop further integrated low energy and zero-carbon solutions to meet future building regulation changes and government policy commitment towards net zero carbon.

AIMCH ambition is through engagement with supply chain, and the creation and exploitation of future industrialised housing techniques, such as panelised MMC building systems, design standardisation, DFMA, digital working and advanced manufacturing, AIMCH will deliver more high quality, functional and appealing net zero carbon homes, safely, efficiently and at an affordable cost.

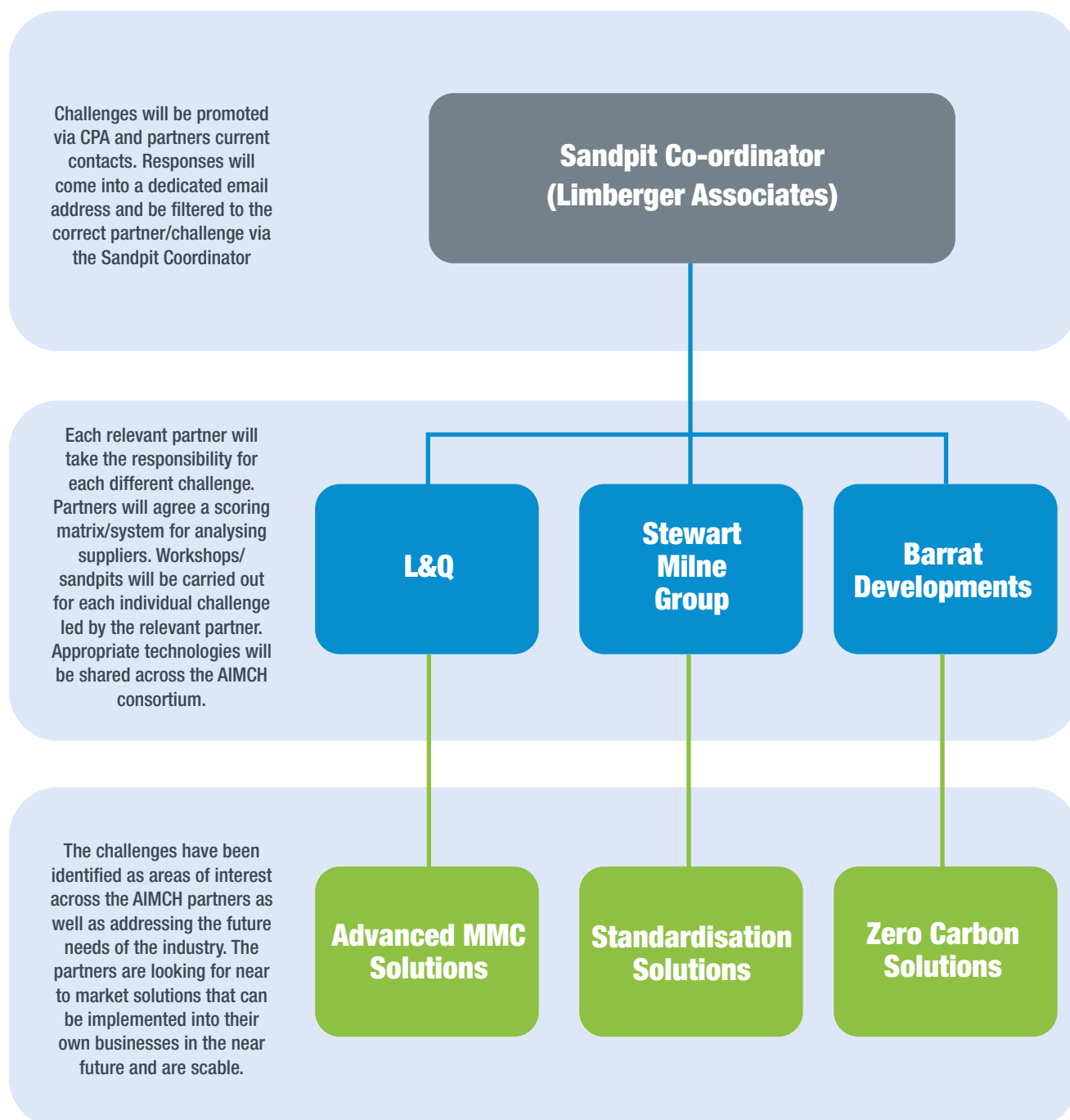
## 7. REVISIONS

**Table 5. Record of changes to this document**

Name	Date	Version	Reason for issue	Changes
Tim Limberger	1-Apr-2022	0.1	First draft for review by WP team	
Stewart Dalgarno	5-Apr-2022	0.2	Reviewed and updated	Updates in several sections
Daniel Shea	6-Apr-2022	0.3	Review and commented	Minor amendments
Tim Limberger	7-Apr-2022	1.0	First formal issue	
Stewart Dalgarno	8-Apr-2022	1.1	Final Review and update	Updates in Exec summary and next steps sections

## 8. APPENDICES

### Appendix 1. Supplier Sandpit Process



Submissions are tracked in a central “Supplier Sandpit - submissions tracker”, which is managed by the PMO to ensure that submissions are recorded, reviewed, and progressed.

Responses are provided to suppliers as appropriate.



## Appendix 2. Supplier Sandpit Challenge - webpage



Group of Barratt Developments.

### AIMCH SUPPLIER SANDPIT CHALLENGE

#### AIMCH IS INVITING INDUSTRY TO SUBMIT SOLUTIONS FOR POTENTIAL FUTURE TRIALS

The AIMCH supplier sandpit challenge is inviting industry to submit their technically and commercially promising products and systems to be assessed for potential future trials. Suppliers can apply now and will be invited to a workshop to present their product or system in further detail if successful. The supplier sandpit workshops will be conducted by one of three AIMCH partners: L&Q, Stewart Milne

#### THE CHALLENGES

The sandpit challenges have been identified as areas of interest across the AIMCH partners as addressing the future needs of the industry. The partners are looking for near to market solutions that are **scalable** and can be **implemented in the near future**.

##### Challenge 1: Advanced MMC Solutions

Challenge 2: Standardisation Solutions

Challenge 3: Zero Carbon Solutions

#### CHALLENGE 1: ADVANCED MMC SOLUTIONS

AIMCH are looking for potential MMC products or systems that would improve areas such as productivity, resource, waste and quality to deliver homes more reliable and at a lower cost. The product or system would need to demonstrate volume procurement benefits from driving out non-value adding processes, improving productivity and delivery certainty, through being able to build a weathertight superstructure in one day, through near to market, scalable, technically robust/proven and commercially viable solutions, to complement the partner's current housing designs and easily implemented into current operations.

Potential areas for solutions can be, but are not limited to, the following:

- External cladding
- Scaffoldless erect panelised system
- Modular roof/Lightweight tiling
- Lightweight/brick cladding system
- Fabric efficiency

#### THE BENEFITS

This is an exciting opportunity to participate in the AIMCH project and:

- Showcase your product, system or solution to AIMCH partners
- Present and participate at a workshop
- Collaborate with AIMCH partners in regards to the possible future trial of your product or system

#### HOW TO GET INVOLVED

##### THE PROCESS

- Applicants should complete and return the form below before Tuesday 31st August 2021
- Applications will then be processed and shortlisted by the relevant AIMCH partner
- Successful applications will then be contacted and asked to present their solution at a sandpit workshop to scope potential for further collaboration

Suppliers can apply to participate in the supplier sandpit challenge by completing the form here. This includes briefly describing your product or system and what you expect to get from the workshop. Please return this form to [aimch@cs-ic.org](mailto:aimch@cs-ic.org).

All responses will be assessed by the AIMCH partners and the relevant companies will be contacted and invited to a workshop to present their product/system in further detail.

#### SUBMIT TO THE CHALLENGE

## Appendix 3. Supplier Sandpit Challenges

### Challenge 1: Advanced MMC Solutions

Challenge 2: Standardisation Solutions

Challenge 3: Zero Carbon Solutions

### CHALLENGE 1: ADVANCED MMC SOLUTIONS

AIMCH are looking for potential MMC products or systems that would improve areas such as productivity, resource, waste and quality to deliver homes more reliable and at a lower cost. The product or system would need to demonstrate volume procurement benefits from driving out non-value adding processes, improving productivity and delivery certainty, through being able to build a weathertight superstructure in one day, through near to market, scalable, technically robust/proven and commercially viable solutions, to complement the partner's current housing designs and easily implemented into current operations.

Potential areas for solutions can be, but are not limited to, the following:

- External cladding
- Scaffoldless erect panelised system
- Modular roof/Lightweight tiling
- Lightweight/brick cladding system
- Fabric efficiency

Challenge 1: Advanced MMC Solutions

### Challenge 2: Standardisation Solutions

Challenge 3: Zero Carbon Solutions

### CHALLENGE 2: STANDARDISATION SOLUTIONS

AIMCH are seeking volume procurement benefits from standardised product families and components, relating to near to market, scalable, technically robust/proven and commercially viable solutions, to complement the partner's current housing designs and easily implemented into current operations.

Potential areas for solutions can be, but are not limited to, the following:

- Modular stairs
- Bathroom pods
- Windows and doors
- Preformed services

Challenge 1: Advanced MMC Solutions

Challenge 2: Standardisation Solutions

### Challenge 3: Zero Carbon Solutions


### CHALLENGE 3: ZERO CARBON SOLUTIONS

AIMCH are seeking products or systems that would help the journey towards Net Zero Carbon. AIMCH would be looking for any technology and/or material that would improve the thermal efficiency, reduce embodied carbon and assist in the target of a 100% carbon reduction for our homes. The solutions can be MEP or MMC focussed, however they must be commercially viable and adaptable to the partner's current housing range.

Potential areas for solutions can be, but are not limited to, the following:

- Renewable technologies
- Low carbon technologies
- High performing insulating materials
- Replacement for gas services

## Appendix 4. Supplier Sandpit - Pre-qualification questionnaire

<b>AIMCH Supplier Sandpit</b> 		
Pre-qualification Questionnaire		
May 2021		
Please highlight what challenge your product or system is in response too?		
<b>Challenge 1</b> <b>Advanced MMC Solutions</b> <input type="checkbox"/>	<b>Challenge 2</b> <b>Standardisation Solutions</b> <input type="checkbox"/>	<b>Challenge 3</b> <b>Zero Carbon Solutions</b> <input type="checkbox"/>
<b>1. Contact Details - Please provide the appropriate contact that can be contacted to provide further information and discuss next steps if required?</b>		
Name: Company: Address: Postcode: Email: Contact Number:		
<b>2. Please provide a short introduction to your product or system? (300 words)</b>		
<b>3. What benefits could your product/system and company bring to the AIMCH partners and the wider industry in relation to the challenges above? (300 words)</b>		

**4. Please describe the current development stage of the product/system? {Please also specify any Third Party Accreditations e.g. BBA} (300 words)**

**5. Has the product or process been installed and or applied to any live development site? If yes please provide details (300 words)**

**6. Have any commercial assessments been completed to demonstrate the product/system will be commercially viable and scalable within the market? Are there any cost indicators available to demonstrate how the product/system compare to similar within the market? (300 words)**

**7. As part of the AIMCH sandpit process we are looking to identify technically and commercially promising products/systems that can be assessed for potential future AIMCH partner trials with a view to how it can be scaled up. What is your company's purpose for being involved in the AIMCH sandpits and your expected outcome from this process? (300 words)**

**8. Please provide any further information you would like to include in the section below. Please feel free to include links to websites, literature or online videos. Please also feel free to attach any supporting documentation to your response.**

Thank you for taking the time to complete the above questionnaire.

Please can you send all questionnaires along with any supporting documentation to the following email address.

[aimch@cs-ic.org](mailto:aimch@cs-ic.org)

Following this date, all responses will be assessed by the AIMCH partners and the relevant companies will be contacted and invited to a workshop to present their product/system in further detail.





# TRANSFORMING HOW WE BUILD HOMES



**BARRATT**  
DEVELOPMENTS PLC  
BUILDING EXCELLENCE  
SINCE 1958



**INDUSTRIAL  
STRATEGY**



**UK Research  
and Innovation**



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aimch



aimch@cs-ic.org

[www.aimch.co.uk](http://www.aimch.co.uk)