



Scaling our novel D.I.Y retro-fit insulation for any building
Collaboration for localised design
solutions for local markets and manufacture



smart

advanced manufacturing

ORGANISATION PROFILE

Staplebarn Limited, Bristol, UK
ISO 9000:2015 certified
Founder: Oliver Browne-Wilkinson
incorporated 1995
Lead developer of a manufacturing cluster in the south of the UK.

Sustainable Product design and small run manufacturer (max 20K units/annum).

Started 1993 Medical devices client list: Smith& Nephew global, Zimmer Biomet global, DePuy Synthes global
Started 2009 Hospitality/ Brewery: Damm R&D Spain, ABInbev R&D Belgium, Diageo R&D UK
2019 Covid Ventilator project – 9 months
Started 2020 DIY retrofit building insulation.

We have inhouse research and prototyping team and regularly call on the skills of our cluster to make sure we design for manufacture and follow the principles of inclusive design.



PROPOSAL INTRODUCTION (I)

Vision: **SCALE** the product/s using injection molding manufacturer/s to supply their home market.

COLLABORATION with academia from each country to research and develop iterations of the product for use by local manufacturers for their local market.

LOCALISED production of our DIY(DO IT YOURSELF) retrofit insulation solution conforms to every country's building certification standards.

Motivation:

What are the housing emissions percentages in your country? UK Homes account for 34% of all emissions.

Fabric-First building insulation is a logical first step towards Net Zero Housing. Better energy technologies used subsequently to benefit the end user (and the planet).

To help mitigate the existential threat to the only planet we have.

Content:

To increase the insulation of the building by **adapting** our novel technology.

By understanding other countries needs we can drive towards an inclusive and locally produced design reducing the carbon cost of logistics.

PROPOSAL INTRODUCTION (II)

Expected outcome:

A manufacturing solution that uses existing manufacturing infrastructure in each country

Certification of the product for each country

A data set showing the benefit of adaption over existing insulation products currently available

An understanding of national funding to support Net Zero building solutions

Impacts: To offer a product that is:

1. Affordable to all with a low cost of adoption for governments
2. An extended life cycle due to its modularity.
3. A reuse/recycling scheme

Schedule:

SCALING 1 - OCTOBER 2023 – OCTOBER 2024

COLLABORATION 1 – October 2023 – MAY 2025

SCALING 2 – May 2025 – May 2026

PARTNERS

Current Consortium:

May 2022 - University of the West of England – research partnership

Partner search:

SCALING 1&2 - Injection molding companies with a direct sales force in all country

Collaboration 1 - University research departments focused on sustainability and buildings with links to national building industry in all countries.



CONTACT INFO



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Thankyou for your time and interest in this sustainable, circular and hopefully Net Zero project.

I believe collaboration delivers change faster.

