



SUSTAINABLE  
BUILD

# SUSTAINABLE BUILD INNOVATION CHALLENGE 2016

SUSTAINABLE BUILD is aimed at creating growth in sustainable building (also known as green building). We are based on a collaborative partnership within the construction industry where every year, we select 10 innovators and help them scale up their product, service or business. In doing so, we contribute to the construction industry's competitiveness in a growing global market for sustainable building.

## ABOUT SUSTAINABLE BUILD AND THIS YEAR'S INNOVATION THEME

Sustainable Build is a partnership comprised of leading Danish businesses that span across the construction industry's value chain as well as key government and community organisations. This partnership is funded by the Danish Industry Foundation and the Fund for Green Business Development, and carried out in cooperation with DAC and Leaderlab.

For its 2016 theme, Sustainable Build is looking for innovative solutions which can create growth in sustainable building. We hereby invite start-ups, SMEs and larger enterprises in Denmark and abroad to present relevant solutions to this year's innovation challenge:

How can we create growth in sustainable building through the materials we use?

-The innovations and solutions must focus on at least one of the following areas:

- **Innovations that lead to more sustainable production or better performance of new or existing building materials**  
E.g. innovations that reduce water, energy and chemicals consumption or contribute to improving occupant health and the indoor environment of buildings.
- **Innovations that improve the salvaging/recycling of construction waste**  
E.g. new types of materials based on waste products from production, construction, renovation or demolition.
- **Innovations that lead to increased knowledge - and traceability - of building materials**  
E.g. new technologies and methods for the collection, processing, visualisation and dissemination of Big Data in the construction industry.

The 10 innovations judged to have the highest growth potential will receive support to accelerate and scale up the product or solution in autumn 2016. This will include facilitating access to investors, new markets, expert advice and possibly the enterprise's first customer or pilot project. The winning enterprises will be supported by Sustainable Build partnering organisations, including PensionDanmark, the Central Denmark Region, Henning Larsen, NCC and Tarkett.

HENNING LARSEN ARCHITECTS

**midt**  
regionmidtjylland

**NCC**

PensionDanmark

**Tarkett**

**INDUSTRIENS  
FOND**  
FREMME DANSK  
KONKURRENCEEVNE  
The Danish Industry Foundation

**DAC &  
BUILD** DANSK  
ARKITEKTUR  
CENTER

GRØN  
OMSTILLINGSFOND

**L**  
LEADERLAB



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# WE ARE LOOKING FOR INNOVATIONS THAT CAN CREATE GROWTH IN **SUSTAINABLE BUILDING**

Sustainable Build is looking for innovations and solutions in the following three areas:

## **Innovations that lead to more sustainable production or better performance of new or existing building materials**

This could include (but is not limited to):

- Innovations that lead to increased sustainability in the use of existing materials, composites and components through for instance new production and treatment methods.
- Innovations relating to existing or new materials that make it easier to create modular components, light-weight components, industrialised building processes and generally facilitate flexible building.
- Innovations that promote a shift toward more sustainable alternatives to raw materials which today are either in short supply, costly and/or difficult to salvage, reuse or recycle.
- Innovations relating to existing or new materials that may, for instance, introduce new properties with beneficial effects in terms of occupant health and/or the indoor environment of buildings.
- Innovations relating to the manufacture of materials that promote healthy working conditions and clever use of renewable energy.

## **Innovations that improve the salvaging, reuse or recycling of construction waste**

This could include (but is not limited to):

- Methods that increase the utilisation of waste products in the production and treatment of materials, composites and components, especially where it is done as a replacement for the use of virgin materials.
- New types of materials, composites or components based on waste products from production, construction, renovation or demolition.

## **Innovations that lead to increased knowledge - and traceability - of building materials**

This could include (but is not limited to):

- New technologies and methods that can provide knowledge about and document properties and compositions of materials, especially recycled materials, e.g. through scanning solutions.
- New technologies and methods to ensure traceability of materials used in building, e.g. through digital Material Passports and integrated material tracking solutions.
- New technologies and methods to integrate knowledge/ decision support systems on sustainable use of materials in 'digital building' ('det digitale byggeri'), e.g. in relation to material properties, overall economy, recycling of waste products, etc.
- New technologies and methods for the collection, structuring, visualisation and dissemination of Big Data in the construction industry and research about material compositions, properties, qualities, application forms, etc.

Apply today to join the competition to become one of this year's Sustainable Build innovators at: [www.sustainablebuild.dk/challenge](http://www.sustainablebuild.dk/challenge)

**The application deadline is March 31, 2016.**