

BOXWALL

BOXWALL FLEX

ADAPTABLE WALL SYSTEM –
CREATING ADAPTABLE BUILDINGS

HÅVAR MOE
FOUNDER & CEO

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Background

Founder Håvar Moe

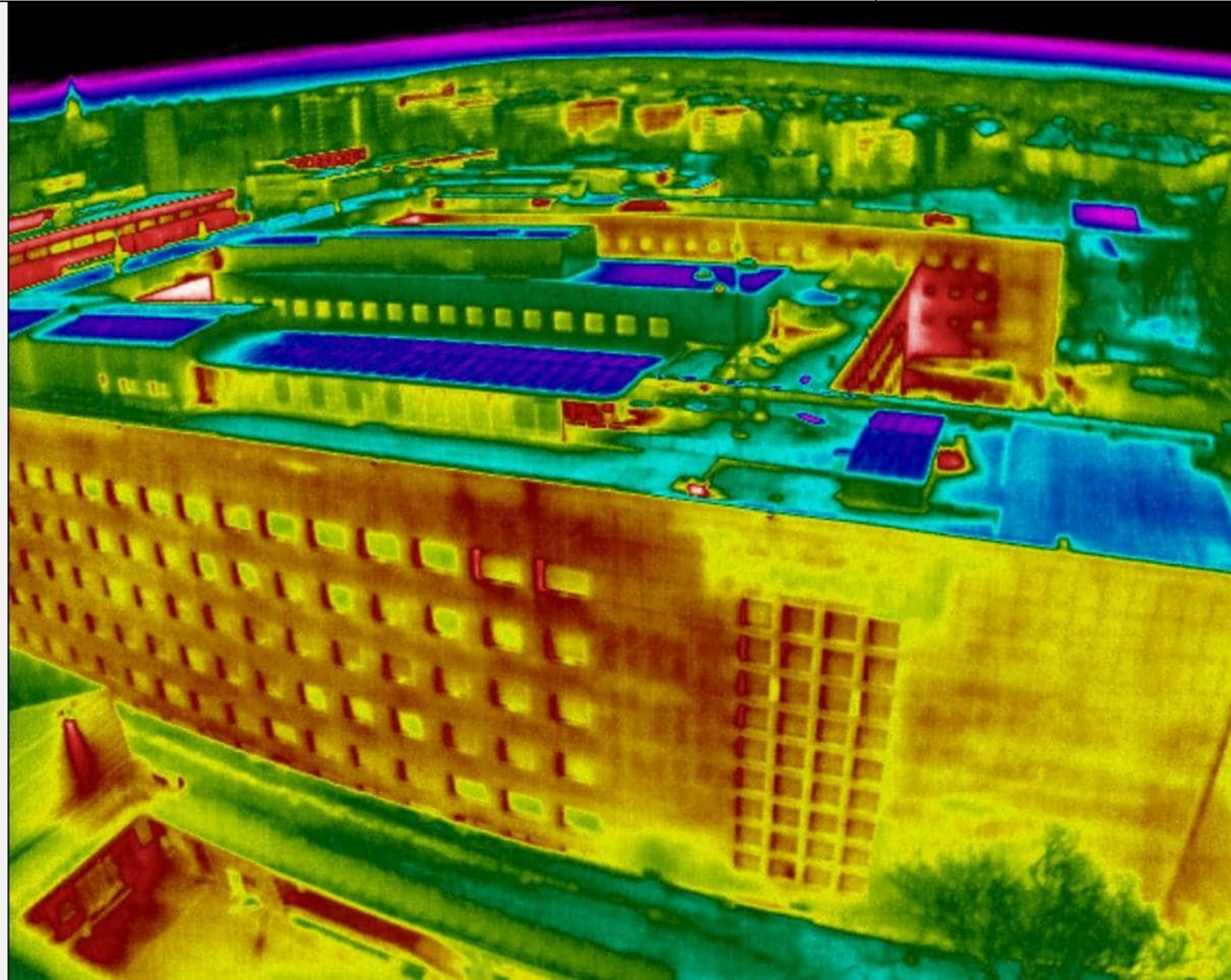
After a decade in the management consulting business and 13 years as an entrepreneur in the prefab construction market, Håvar asked himself the following:

“Has mankind reached the optimum in sustainable building technology? Will we use the same building methods in 100 years? Or – is there a development potential?”

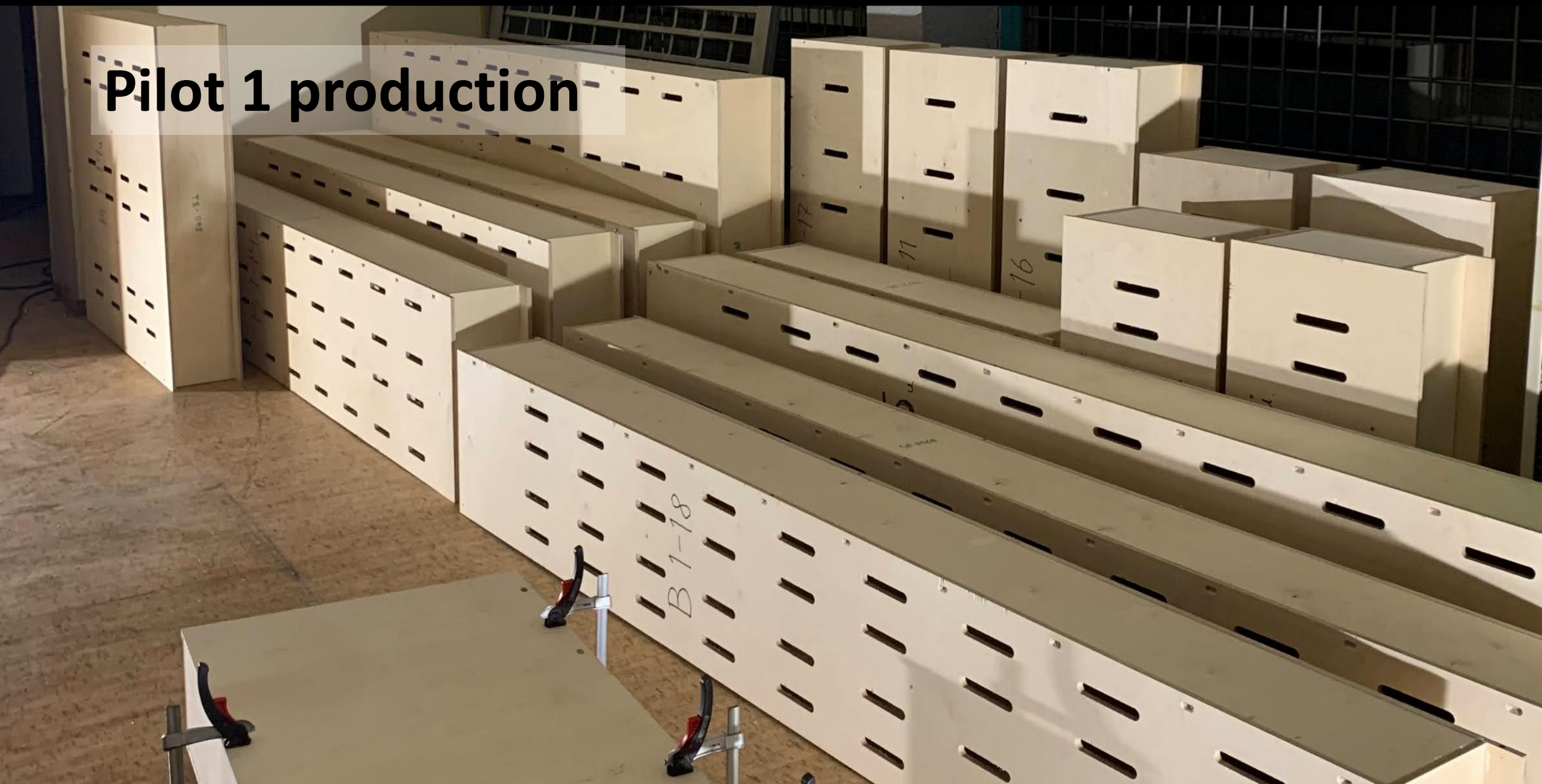
The development potential was quickly verified and BoxWall was founded in 2020 – with the purpose of developing a new sustainable building technology that would change the current building standards.

Norway is leaking!

- Researchers at NTNU and SINTEF has determined that the energy consumption in Norwegian buildings can be reduced by 50% by 2050.
- This requires that a significant part of the buildings become Zero Energy Buildings – both existing ones and new ones.



Pilot 1 production





Pilot 1 installation

Successful pilot project in 2022.

ENGINEERING

- Construction safety
- Building Physics



PRODUCTION

- Verified feasible



LOGISTICS

- Verified effective handling



INSTALLATION

- Faster than anticipated
- Weatherproof



“BoxWall – we have a problem!

We desperately need flexible sustainable wall solutions. We have searched globally, but it doesn't exist – can you help us?”



Camilla N. Harsjøen. Sustainability Manager Norway, Veidekke (*)

The existing wall solutions are not flexible.

NEED FOR RECONFIGURATION

TEAR DOWN

HANDLE WASTE

BUY NEW MATERIALS

BUILD AGAIN

TIME CONSUMING

GENERATES LOTS OF WASTE

VERY EXPENSIVE

HINDERS PRODUCTIVITY

POST PANDEMIC - THE RECONFIGURATION FREQUENCY IS GETTING SHORTER

A 1.000 m² full refit project in Trondheim



Refit time: 5 months

- Lost availability
- Lost productivity



Refit cost: US\$ 0.8 million

- Cost of lost materials (300 big bags)
- Time to demolish, sort and deposit
- Cost of cranes and transport
- Cost of depositing waste
- Cost of new materials
- Cost of labor – new solution



CO2 Impact: 20 tons CO2

- 300 big bags of waste

What main tools are currently available?

SOLID SYSTEM WALLS
V-GROOVE OR U-JOINT



SYSTEM WALLS
WITH INTEGRATED GLASS & DOORS



ON-SITE WALLS
WOOD OR METAL FRAMES



GLASS WALLS
WITH OR W/O GLASS DOORS



Existing wall solutions have a big flaw – they are not reusable



Modular adaptable wall system

BoxWall's mission is to make buildings adaptable, by transforming the following in the global real estate industry

- the design process
- the building process
- the refit processes

From the very first installation, the building will become adaptable, enhancing property value and increasing user satisfaction.

When changes are required, simply drag and drop in the BoxWall app, and BoxWall will handle the rest. Fast, silent and dust free!

80%

FASTER
INSTALLATION

80%

MORE
SUSTAINABLE

80%

LOWER
REFIT COST

PREMIUM
CUSTOM DESIGN

50 DB CERTIFIED
SOUND PROOFING

UP TO 4 METERS
HIGH WALLS

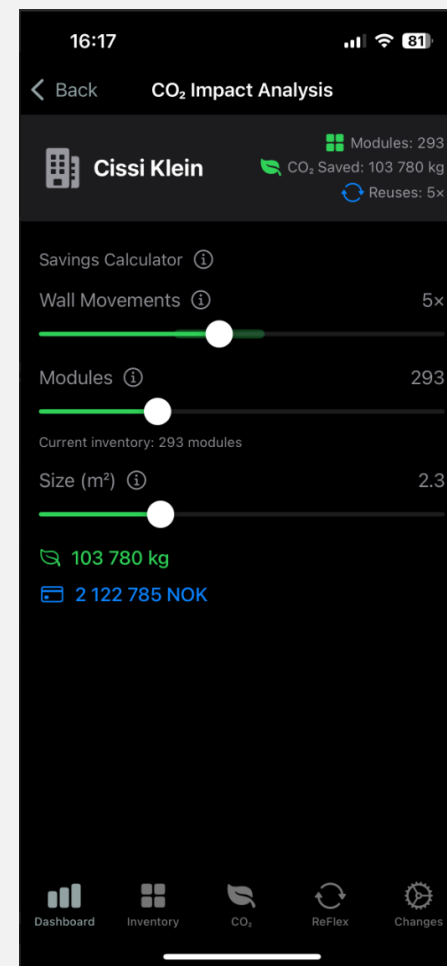
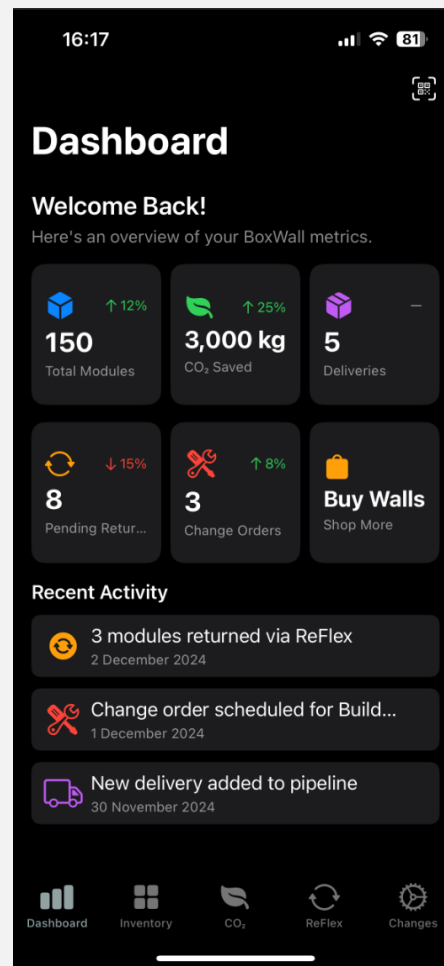
FITS ANY
BUILDING

COMPLETE
SYSTEM

REFLEX &
REFURBISH

94%
WOOD

With the BoxWall App – the client refit process becomes digital



FLOOR PLANS & DESIGN

- Drag & drop floor plan changes
- AI assisted design proposals

ORDERS & CHANGES

- Orders & change orders
- Returns & cashback

DOCUMENTATION

- Forecast & tracking of savings
- Forecast & tracking of CO₂

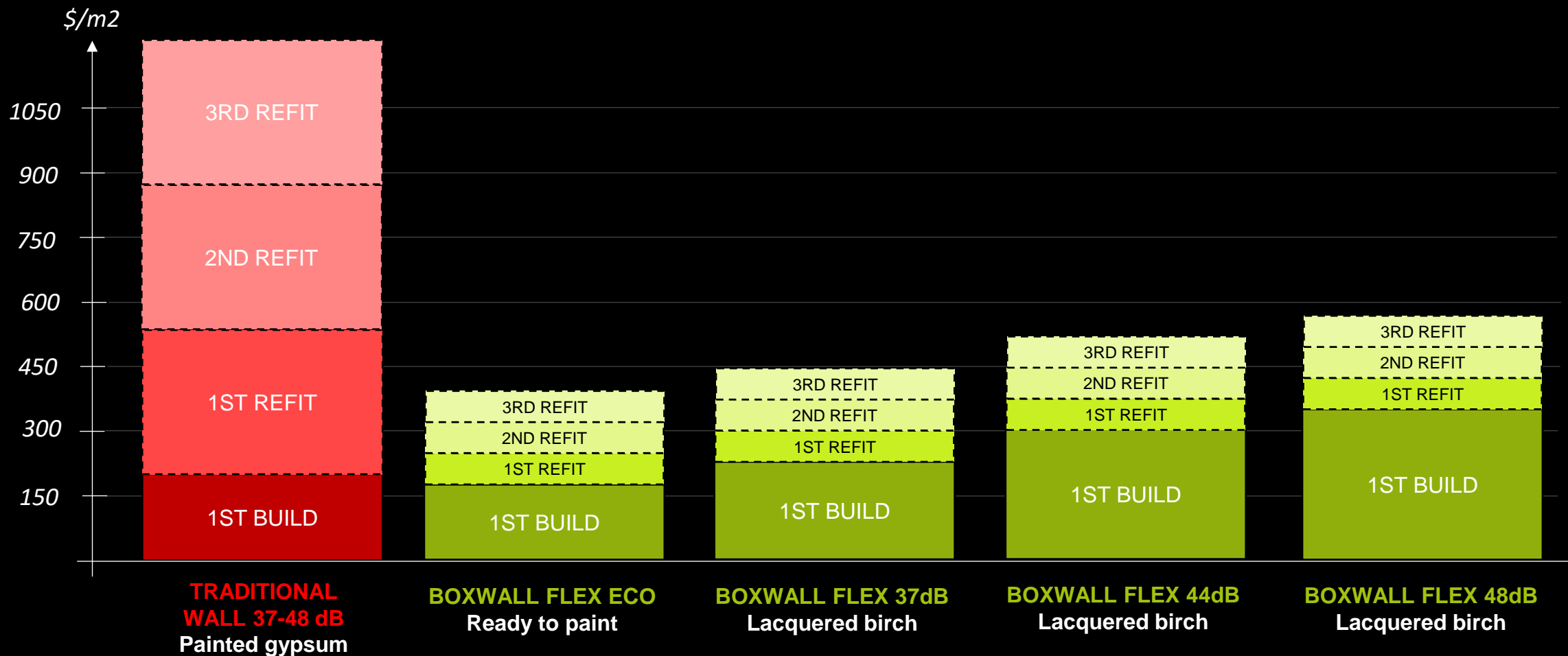
TRADING PLATFORM

- Used modules



Imagine – Drag & drop

BoxWall Flex offers a full range of products that will satisfy the needs of most clients



First contract delivered

"We are really impressed with what BoxWall has achieved!"

Camilla N. Harsjøen. Sustainability Manager Norway, Veidekke.

"This is incredibly good – thanks for accepting the challenge!"

Marte Renaas. Sustainability Manager Trondheim, Veidekke.

"When we, as project owners, set ambitious operational requirements, industry leaders like Veidekke and BoxWall come together to collaborate and create groundbreaking new solutions that push the boundaries of the sector"

Torger Mjønes. Head of Sustainable Buildings, Trøndelag Fylkeskommune.

| | |
|------------|----------------------------------|
| CLIENT: | Veidekke ASA |
| OWNER: | Trøndelag Municipality |
| PROJECT: | Cissi Klein High School (New) |
| SIZE: | 245 square meters (9 walls) |
| ACOUSTICS: | 48 dB wall |
| SURFACE: | Pine, lacquered 2% white pigment |
| DELIVERY: | November 2024 |



Refining our solutions – Aiming for 50 dB+ ceiling solutions

AVAILABLE ON THE MARKET

Rockfon Blanka® dB 46



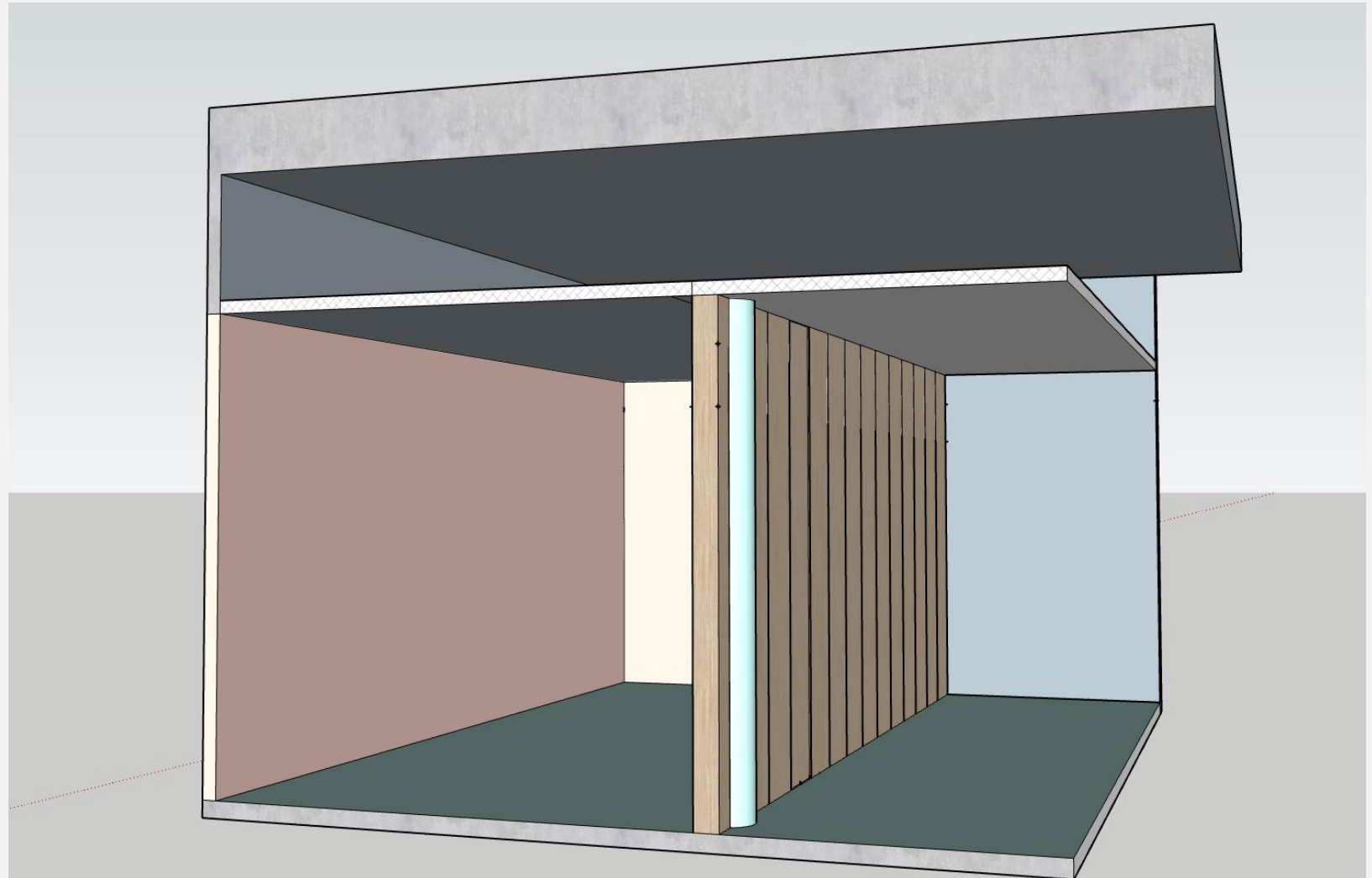
Lydisolering rom til rom

$D_{n,f,w} = 46$



Direkte lydisolering

$R_w = 25$



How many of the world's commercial buildings are truly adaptable?



Our mission is to change this!



Do you want to invest US\$ 50 million in a “standard building”, or US\$ 51 million in a world class adaptable building across the street?

Immediate return

INVEST
2% more

2-5% INCREASED PROPERTY VALUE

HIGHER OCCUPANCY RATE

2-5% BETTER LEASE PRICES

- World class adaptability
- World class sustainability
- Significant design upgrade

Building lifetime return

ON ALL FUTURE REFITS

REDUCED COST
80%

REDUCED CO2
80%

REDUCED TIME
80%

• Ca. US\$ 5 million (*)

• Ca. 1.000 tons (**)

- Increased availability
- Increased productivity

*) 7.000 m2 walls x \$ 150 x 5 refits
**) 7.000 m2 walls x 30 kg x 5 refits

Core team



Håvar Moe, Founder and CEO. Trondheim
Extensive experience in management consulting and prefab construction



Pål Selnæs, Co-founder and CTO. London
Leading roles in international technology development



Sara Yadegari, Lead Architect and designer, Trondheim
Extensive experience in architecture & design

Advisory board



Ed Crump, Santa Cruz
Leading roles in the creation of Amazon Alexa and Netflix



Nadir Gorana. Sarajevo
30 years experience with international software development

Board



Terje Svendsen
Board – chair



Lars Gaustad
Board – member



Anna Bergmann
Board – member

Support



Steinar Ryggvik
Product development / production



Anders Homb
Acoustics



Chris Lamb
IoT / Hardware

A core team that is 100% committed – with a solid support network.



We are open for business – let's connect!

- Real estate firms
- Real estate brokers
- Contractors
- Architects
- Partners

Contact details

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|----------------|----------|---------------------|
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