CONFIDENTIA CM-Equity Investment Conference Munich - Sept. 27, 2023

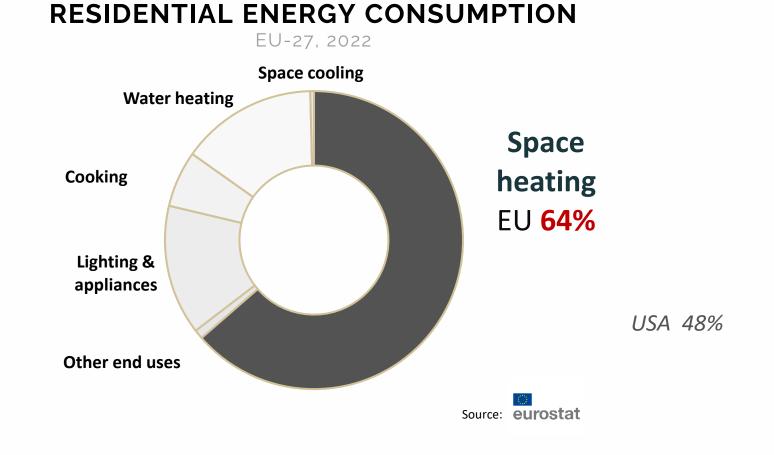


When & Where You Need It^M

Jani-Mikael Kuusisto Co-Founder & CEO



Energy Efficiency Renovation Wave in Europe Has Started



Sources:

Energy consumption in households - Statistics Explained (europa.eu) 2022; European Environment Agency ; Statista; ec.europa.eu/info/strategy/priorities-2019-2024/



Regulatory Mandates

EU zero-emission targets

(announced Mar.2023)

2026

 New buildings operated by public authorities zero-emission

2028

- All new buildings zero-emission
- All new buildings equipped with solar technologies

2032

 Residential buildings undergoing major renovation to be zero-emission

Japan's Building Energy Conservation Act (Apr.2022) requires all buildings in Japan to be carbon neutral by 2050.



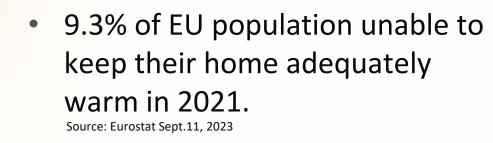
European Parliament

MEPs back plans for a climate neutral building sector by 2050.

All new buildings in EU to be zero-emission from 2028.



Warmth is a Matter of Health & Security

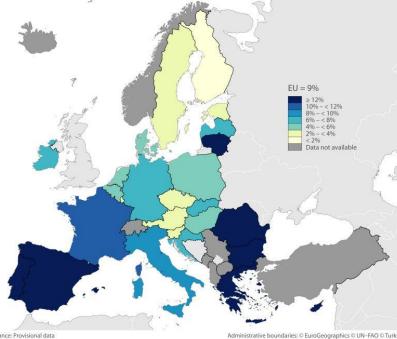


In Europe on average 21% more people die in winter than in

summer. (Portugal 36% ... Finland 13%)

Source: Economist Nov.26, 2022, "Russia is using energy as a weapon - How deadly will it be?"

 Energy crisis lead to an extra 68,000 deaths in Europe winter 2022-2023. Inability to keep home adequately warm, 2022 (% of total population)



Cartography: Eurostat – IMAGE, 09/2023

eurostat

Source: Economist May 12, 2023, "Expensive energy may have killed more Europeans than covid-19 last winter"







Our Solution

Halia[®] Fast Response Heating

Our aim

 Save > 20% energy costs
 Without compromising health, comfort & work efficiency



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Warmth When & Where You Need It

Increases comfort Better health & work efficiency



Saves energy Real-time Operate warmth like lighting



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Saves costs Ease of installation & operation



18°



Halia[®] Fast Response Radiant Heaters

A New Paradigm in Bringing Warmth to Living Spaces

Advantages of Radiant Heating

Over Other Forms of Heating^{*}

- More healthy
- as heating separated from ventilation
- More durable
- More comfortable
- More instantaneous & direct, energy efficient
- Can run at lower temperatures than conventional heating systems
- Space saving & unobtrusive
- Quieter
- Easier to maintain





Halia[®] digital warmth

ultra-thin ultra-fast energy saving less material effortless installation elevated designs

Our vision is **SUSTAINABLE WARMTH**

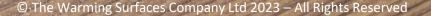


We Do the Heating What LEDs Did to Lighting

Fast response

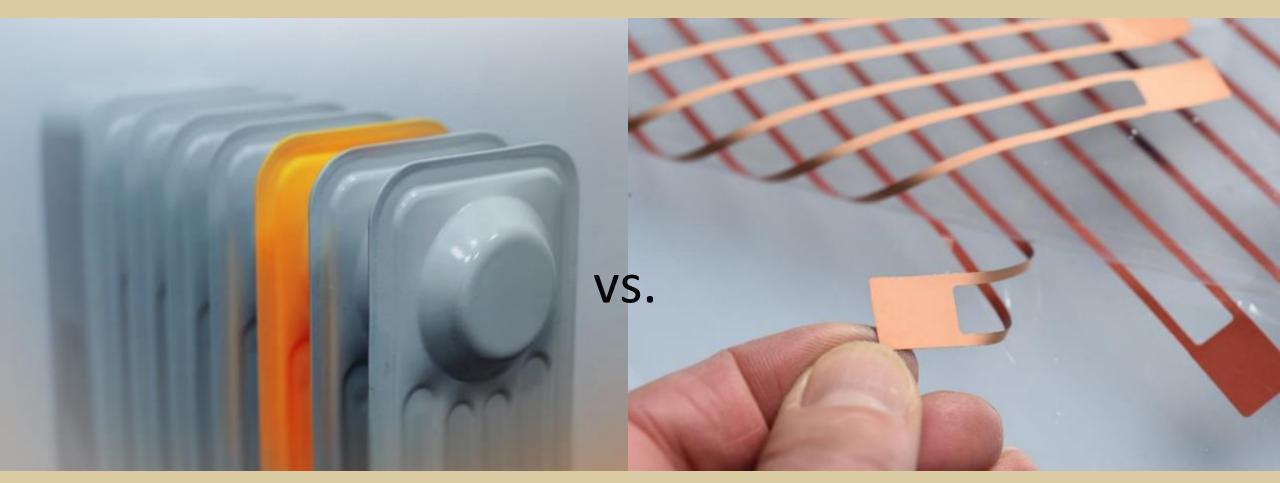
Low operating DC-voltages

Pixelation





95% Less Materials, More Efficiency



Less weight | Recyclable | No plastics



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Halia[®] Patented Proven in Industrial Scale Production Low CAPEX



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Opportunity Sizing

Several Advantages Over Under-Floor Heating

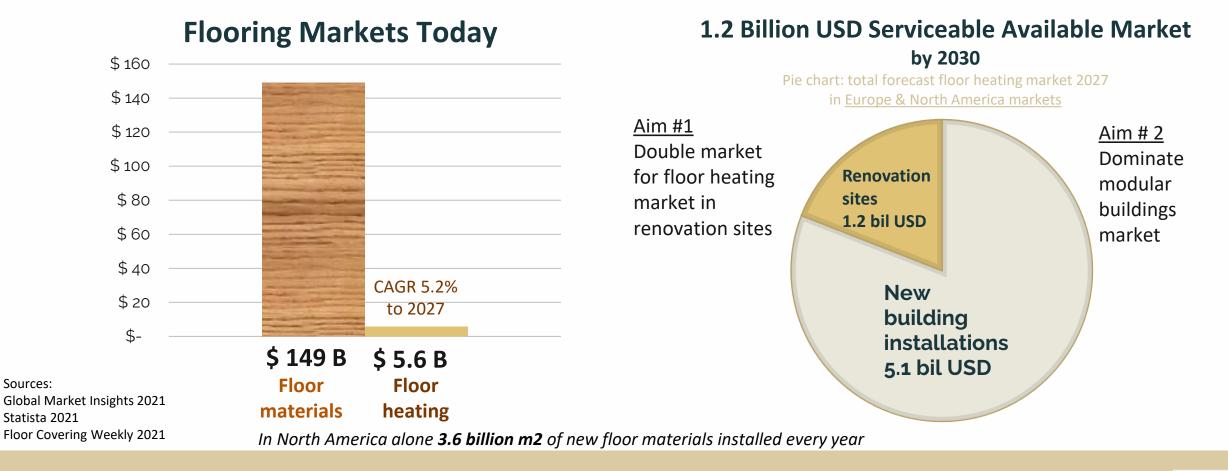
One Application Market Example

| Auto 1 26.9 | PAIN POINTS Current underfloor heating | WARMING SURFACES SOLUTION |
|--|---|--|
| | Slow | Quick on/off |
| | Energy loss to subfloor | Heat close to surface enabling fast response |
| | Continuous full area heating | Smart control of heating pixel by pixel (heater off under mats, furniture, etc.) |
| | Costly to install | Installed with floor element |
| Current underfloor heating costly & inefficient | Limited use in old buildings | Best solution for retrofit & pre-fabricated elements |

Floor heating is only one application space where warming surfaces technology can be applied, but as an existing market the most easily quantifiable.



Only 1/5 Floor Heating Installations Are Currently Installed in Existing Buildings, We Can Change That





More Value Than a Heating Solution

Design With Warmth



Micro-climates

Data can be linked to smart grid electricity trading

Warmth transactions





Smart Surfaces Platform

Market Opportunities Beyond Interior Surfaces



HEATING + SENSING + CONTROL & DATA

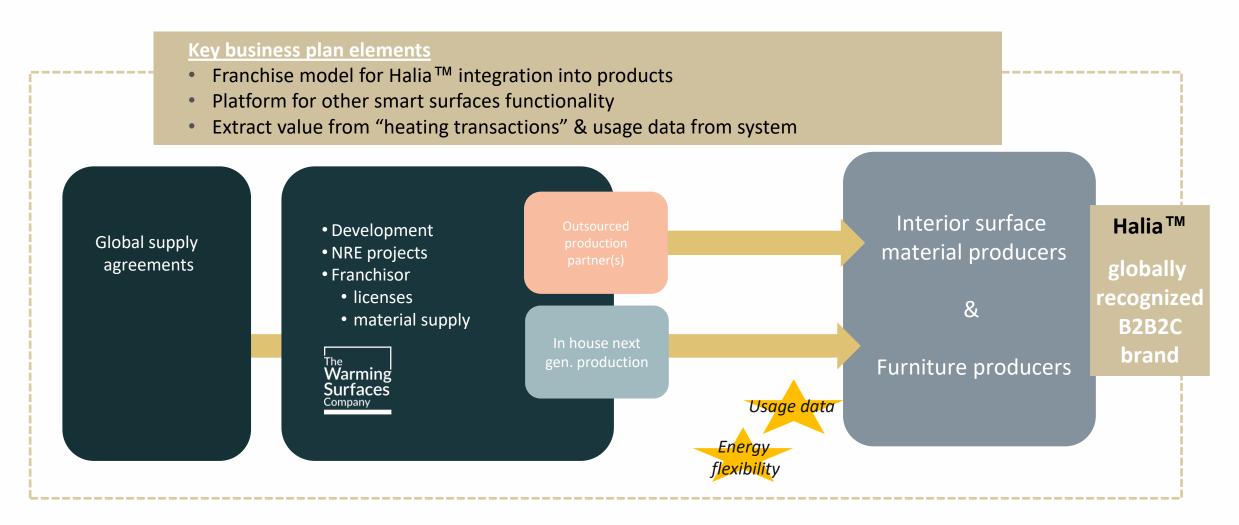
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Business Model

Our Ultimate Goal

Make Halia[™] the "Gore-Tex" of Smart Warming Surfaces

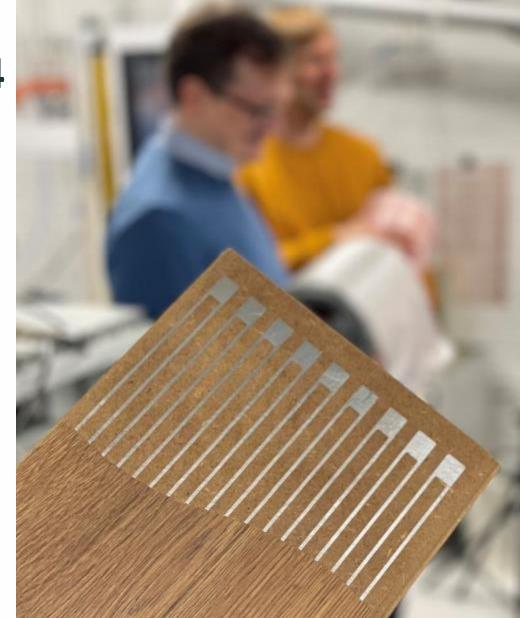


Seed Stage Targets Piloting Autumn 2023 & Winter 2024

Market Initiation

PROOF OF PRODUCT VALUE IN MARKET

- 1st product launches with GTM partners in furniture & prefabricated building elements
- TCO & energy savings evidence through products & pilot installations
- Set up heater element R2R production at Nordic converter partner
- Build team | initiate Halia[®] brand | strengthen IPR





Growth Steps to Global Business

Market Initiation 2023 - 2024

Scale-Up 2025 - 2027

ROLL-OUT FRANCHISING MODEL

- Annual revenue >5M€ by 2026
- Strong marketing
- Establish production at several licensees / franchisee sites
- Roll out in Europe & N.America
- Establish global partnerships
- Wide-web developments (own pilot facility, sooner if possible)

2028 -

Global Growth

THE BRAND FOR WARMING SURFACES

- Target 2027 annual sales >20M€
- Global expansion (to be defined)
- Expand # of licensees/franchisees
- Global support to brand & customer experience
- 2nd gen. launch personalized microclimates
- License solutions to new market spaces

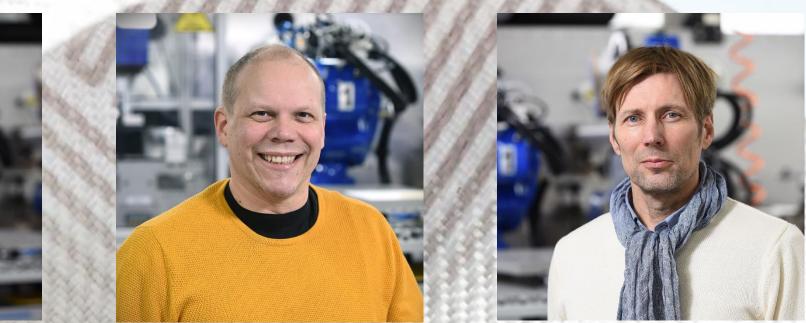




Internationally Experienced Founding Team

+ Board of Directors with Experience in Sustainable Building & Smart Building Systems





Jani-Mikael Kuusisto CEO, MSc. Economics & Bus. +20 years of international business development in printed electronics; e.g. former CEO of Ynvisible Interactive (TSXV:YNV). **Terho Kololuoma** *CTO , PhD Chemistry* +20 years in R2R electronics research, pilot production, & commercialization. Wide national & international networks. Jarno Vehmas CPO , MA. Industrial & Product Design, Electromechanical Engineer +20 years of industrial design & product development based on printed & flexible electronics.



Building Our Team

Sustainable Warmth as Our Core Value

1/2023 Sanna Rousu joins team as Head of Sustainability & Projects

1/2023 appointment of Board of Directors

- Miimu Airaksinen (SVP @ SRV, form. Prof. @ VTT)
- Ari Virtanen (form. Nokia, KONE, Ensto)
- Petri Kalliokoski (HighMetal, form. SVP VTT)
- Terho Kololuoma (co-founder, CTO)

Advisory Board in the works.

We're delighted to have Sanna join in our team, and her help and experience as we build a basis for a sustainable business and culture for our company.



Go-to-Market Partners

Announcing our first go-to-market partners

 $\nabla \nabla$

AWARD

Warmed HPL

16°C

SURFORMA

Shaping Spaces

CASAIS

The Warming Surfaces Company

FIRST KEY MILESTONES TO DATE

- GTM partnerships
- 1st public joint product demo
- 1st pilots in Portugal & Finland autumn 2023



WAR

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Media & Awards



| CO.DESIGN | CO.DESIGN |
|---|---|
| This \$899 device could help you ditch flossing forever | This airplan wheelchairs simple and i |
| | |

his airplane seat for heelchairs users is mple and ingenious IMPACT

This paper-thin tech turns your walls or furniture into an energy-efficient heater PRESENTED BY DOW

Here's what store shelves will look like in 2035

Fast Company ran our story on the front page of their web-site June 13, 2023. This triggered wide global visibility and further press.

In the Media







Awards





Investment Opportunity

Est. 11/2022 spin-out from VTT Technical Research Centre of Finland

Patented & pat.pending Halia® radiant warming technology

Fast response heating = control warmth like lighting

Low CAPEX, economical to scale

Pilots starting Q4/2023 & first customer product launches H2/2024

Now raising seed round: 4M€, pre-money valuation 8M€

Current investors: founders, board members, 4 bus.angels (Finland, Germany, Switzerland)











Warmth where & when you need it

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