The Sustainable and Responsible Data Center Ecosystem

Kajaani – Home for the sustainable data

Jari Innanen, Granlund

Granlund

Granlund was established in
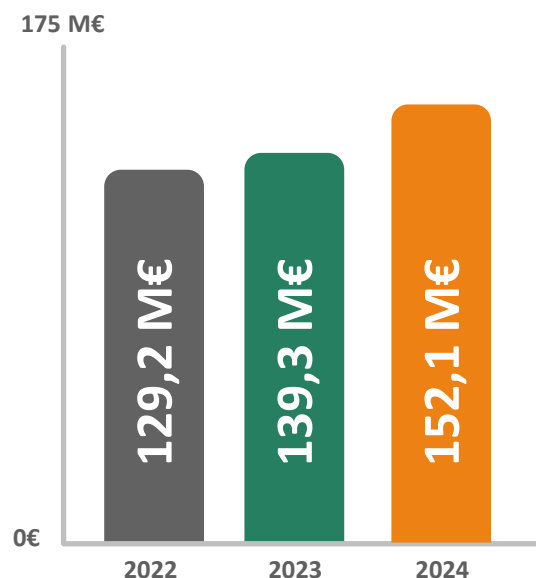
1960

MAJORITY OWNED BY
EMPLOYEES,
GLOBAL ASSET MANAGER
ICG AS PARTNER

PERSONNEL AT THE END OF THE YEAR

2022	2023	2024
1358	**1423**	**1545**

NET SALES

175 M€

2022	2023	2024
129,2 M€	139,3 M€	152,1 M€

0€

OPERATING PROFIT
FROM NET SALES

16 M€

9,2%   9,1%   9,4%

2022	2023	2024
11,9 M€	12,7 M€	14,4 M€

0€
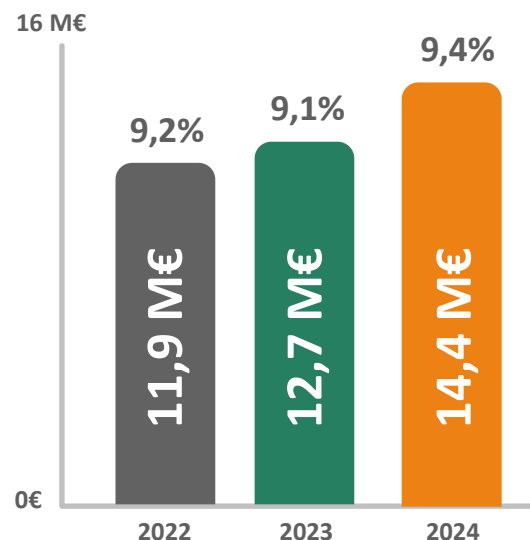
EBITDA
FROM NET SALES

24 M€

13,3%   13,0%   13,4%

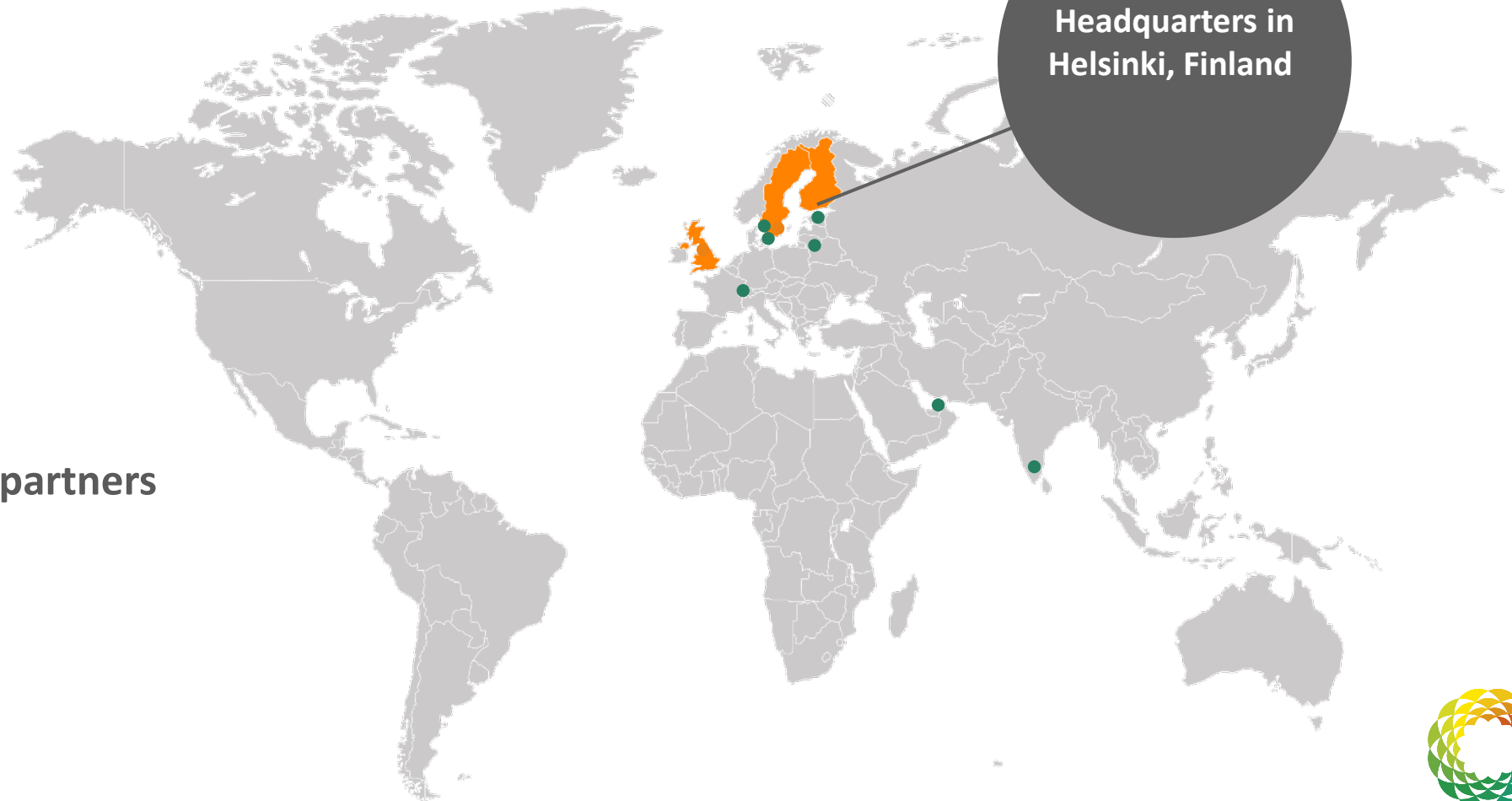| 2022	2023	2024
17,2 M€	18,1 M€	20,4 M€

0€
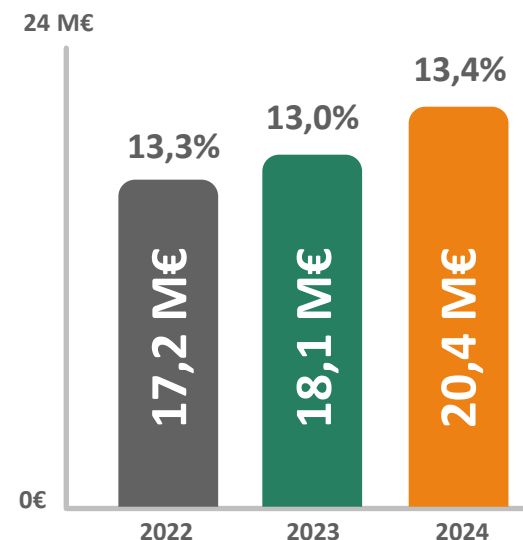
Every year
6%
of net sales on innovations

Granlund in Finland, Sweden and abroad

Customers and projects in more than
30 countries

Headquarters in
Helsinki, Finland

Our offices

Granlund Manager partners

Granlund

Independent data center design, commissioning and consultancy services

2021 WINNER
DCD >Awards
Data Center Design Innovation Award

30
years experience in data center solution design

Supplier independent

Your partner for the whole project: project management, design, commissioning

Highly experienced team

+200
data center dedicated persons locally in Nordics

Clear focus in customer service

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Granlund in Kajaani

- CSC selected Kajaani for their next HPC location ~ 2009
- Design for the Rata building put on hold ~2010
- New plans to Varasto building and new start ~2010
- CSC first hand over ~ 2012
- Herman IT kicking off their project with IBM ~ 2012
- A lot of different interest and concept plans
- Digiplex, ECMWF, etc.
- New HPC – generations
- LUMI / EURO HPC project 2018…2022
- Granlund founded office in Kajaani 2020
- 2022 Redeve takes over Renforsinranta business park
- 2020… many conceptual designs which Borealis have been realized
- 2023 XTX starts to prepare their project in Kajaani
- 2024 Borealis kick-off their construction
- New projects are about to come…

The importance of data center industry

The race for data centers is no longer just about technology.

- It's about territory, energy—and power.

- Across the globe—from the USA to the Nordics, Saudi to Japan—governments are securing AI-ready land with near-military urgency.

- Why? Because this isn't simply about building data centers.

- It's about:
  - dominating the digital backbone of the 21st century.
  - energy leverage, infrastructure resilience, and economic sovereignty.

- **Land, power, and fiber are the new strategic assets.**

- The infrastructure behind AI is becoming as crucial as oil fields once were.

> The oil of the last century was buried underground.
> The oil of this one?
> It flows through cables, consumes megawatts, and is cooled in hyperscale.

◆ Laura Stadler ◆ in • 2nd
Vice President Strategic Development | Carbon Solutions | com…
3d • 🌐

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Investoija	Kunta	Summa (M€)
		11515
XTX Markets	Kajaani	1000
ecogrid.energy	Pori	1000
Verne	Mäntsälä	500
Google	Kajaani	1000
NCC Suomi & Virtanen yhtiöt	Raisio	1500
Orka Technologies Oy	Mikkeli	10
Bilt Tek	Kemijärvi	100
Nebius Group	Mäntsälä	100
Blockbase	Kemijärvi	5
Compute Nordic Finland Oy	Mikkeli	100
Google	Hamina	1000
XTX Markets	Kajaani	100
Atnorth	Kouvola	1500
Microsoft	Vihti	1900
Atnorth	Espoo	100
Microsoft	Kirkkonummi	1000
Microsoft	Espoo	500
Kiinteistö Oy DC Seinäjoki	Seinäjoki	100

*Source: EK, teollisuuden investoinnit*

Current investment plans in Finland:

Confirmed investments
10 mrdeur / 1000 mw

Potential investments
30 mrdeur / 3000 mw

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Sustainable datacenter

- Construction and operating sustainably
    - Energy efficiency
    - Reducing whole life cycle carbon impacts including material embodied impacts in supply chain
    - Energy re-use
    - All necessary environmental studies for the biodiversity etc.
    - Low water consumption and emissions overall

- Going local
    - working closely with the local community
    - collaborative approach with local organisations to provide tangible benefits to region
    - using exclusively local/Finnish contractors for the construction of the first data center.
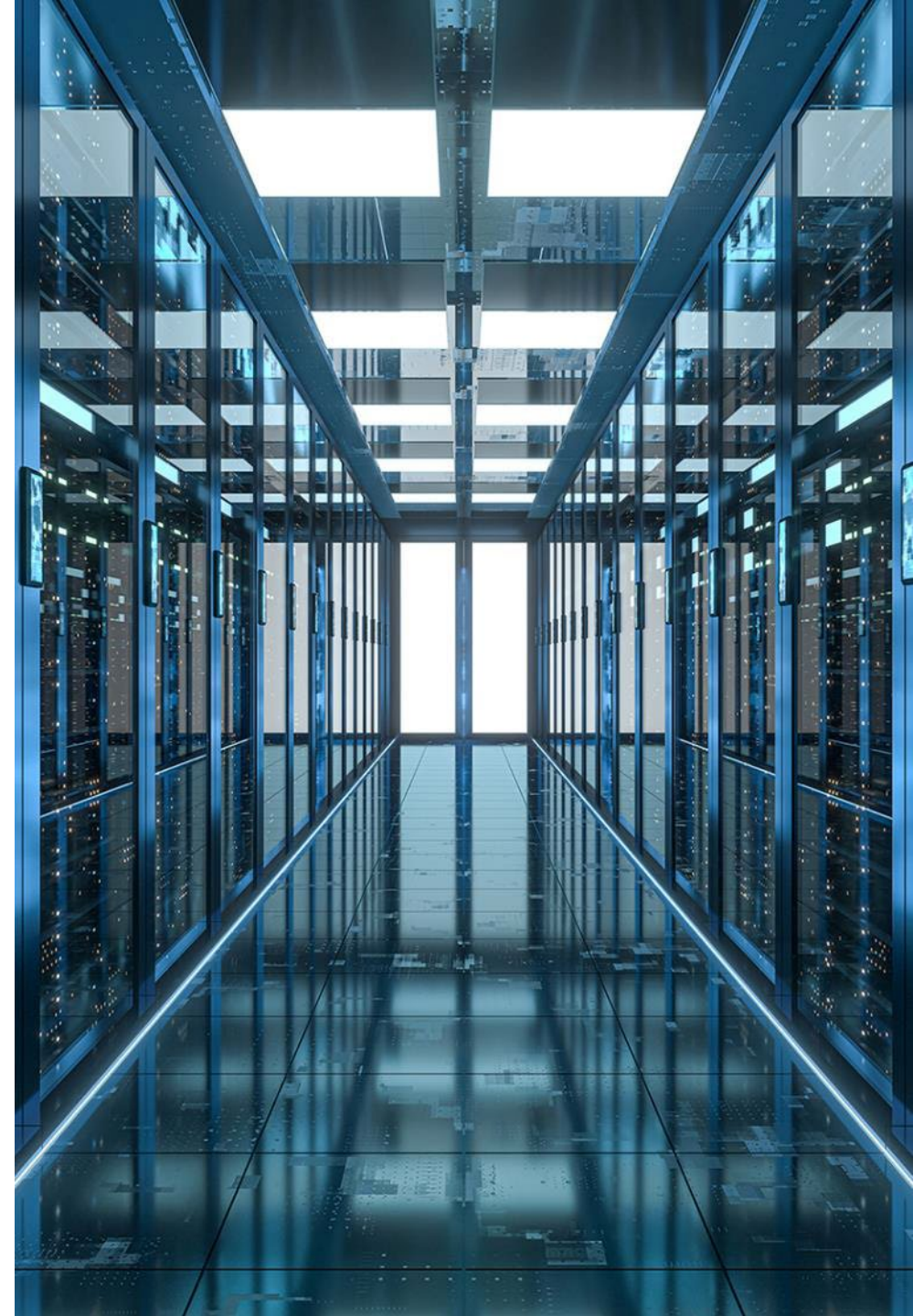
Sustainable datacenter:

BIG THEMES just about to come

- Ecological compensation
- Ensure the sustainability in the entire production and supply chain
- Circular Economy and Deconstruction
- Climate Adaptation and Resilience
- Social Sustainability and Health
- Digital Tools for Sustainability Management
- Energy-Positive and Resource-Positive Buildings

Sustainable Goals:

Balance economic growth, social inclusion, and environmental protection

Promote long-term peace and prosperity

Create a blueprint for global cooperation and sustainable futures

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KAJAANI RIVER SUSTAINABLE DATA PARK
IPR ON AI

Thank you!

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