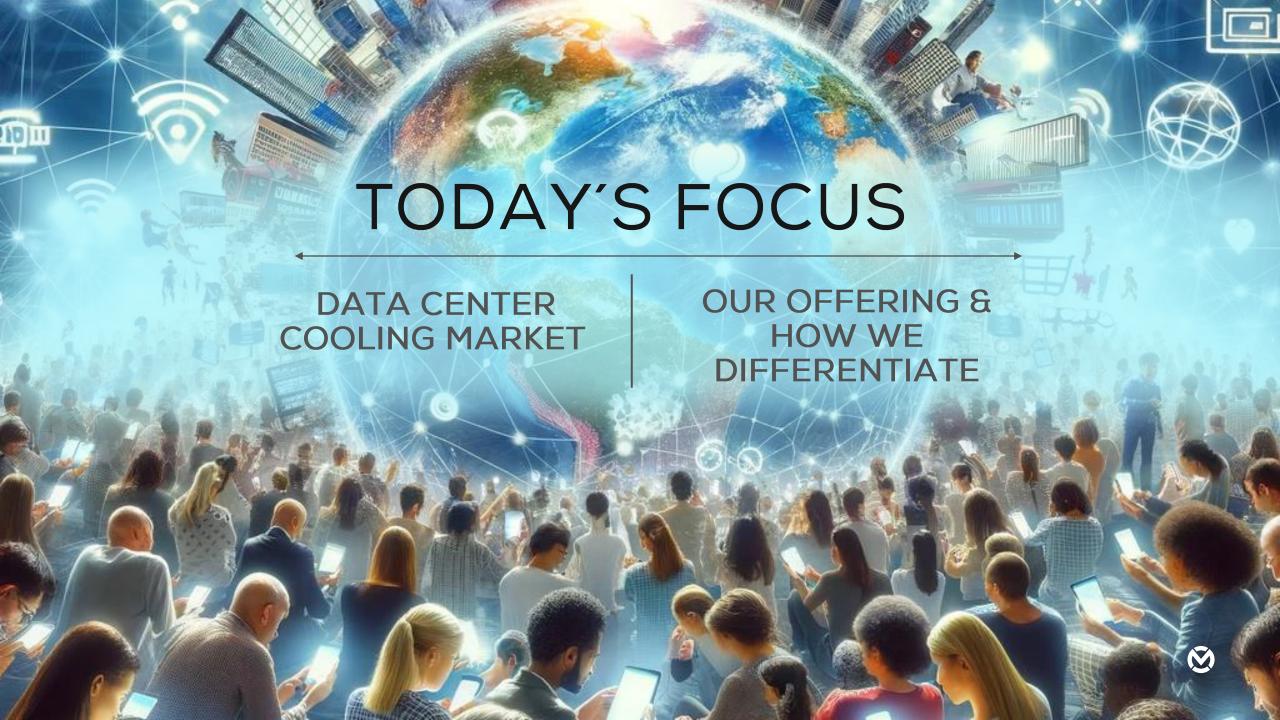
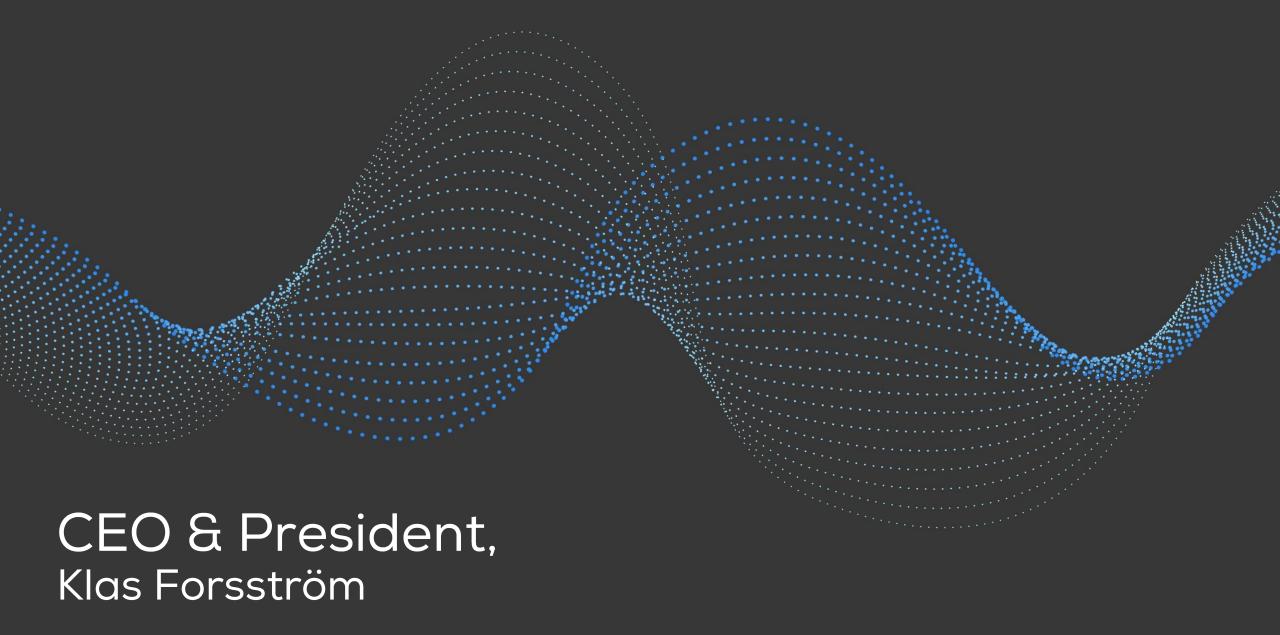


Munters









Expansion of DCT

History

Today

Future

Step 3

Step 1

- Strengthened market position through new product launches & broadening of customer base
- Expanded production footprint in Americas
- Expansion into EMEA through acquisition

 New SyCool versions developed for both air & liquid cooled servers

Step 2

- Steady growth through expansion of customer base and existing customers
- New factory in Cork, Ireland 2024

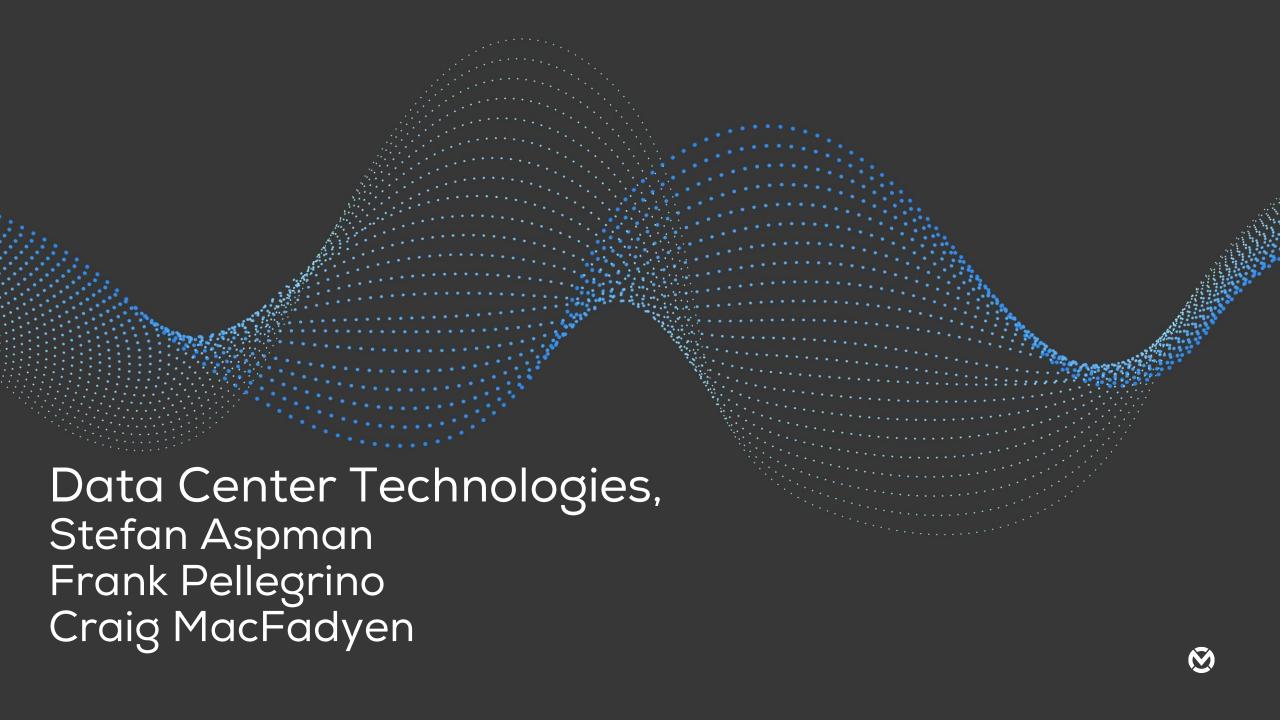
- Further expansion of technology portfolio through own development and M&A
- Continued investments in Service and customer facing functions



Delivery on strategic intent - significant growth achieved

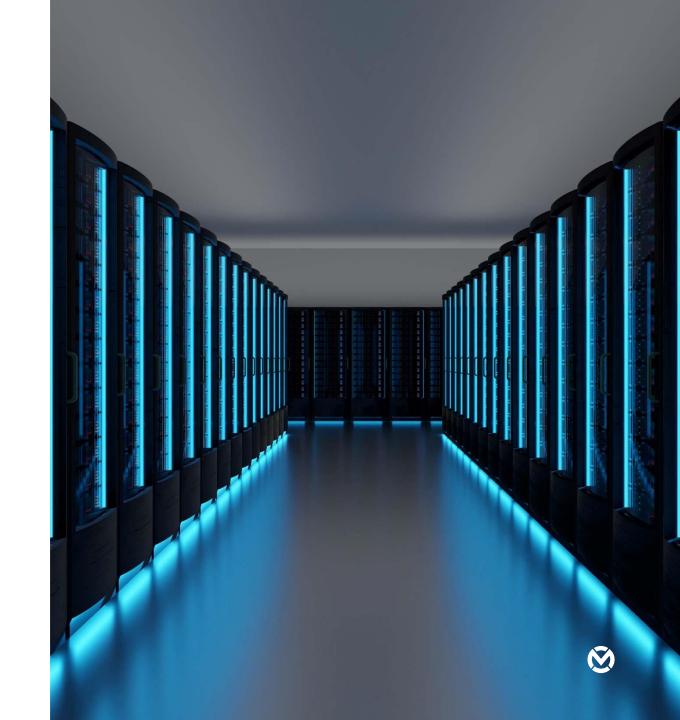






Customers challenge - THERMODYNAMICS

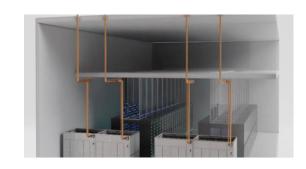
- CPUs (Central Processing Units) and GPUs (Graphics Processing Units) are silicon based microprocessors which contain many millions of transistors. These transistors switch on and off billions of times per second to process data.
- Every time a transistor switches, it uses a tiny bit of electricity, and that electrical energy is converted into heat according to the first rule of thermodynamics.
- As the heat builds, the chips performance is affected in a negative way ultimately leading to potential failure.
- Therefore the heat should be removed to keep these chips in their optimal operating environment



The basic steps of cooling and heat rejection









1. DISSIPATION (INSIDE THE SERVER)

Heat sinks, on-board fans or liquid cooling solutions dissipate heat away from the components

2. CAPTURE (INSIDE THE DC)

Heat is captured by air flow, containment, air handlers, or Cooling Distribution Units etc.

3. TRANSFER

Air, water or other refrigerant carries heat away

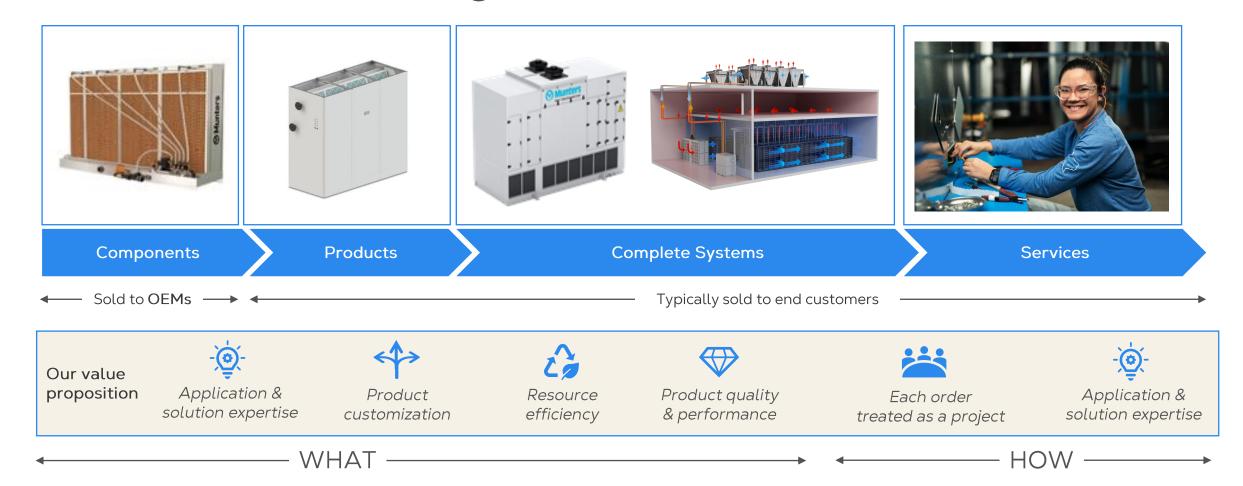
4. RELEASE (OUTSIDE THE DC)

Outdoor condensers, cooling towers, or heat exchangers release the heat





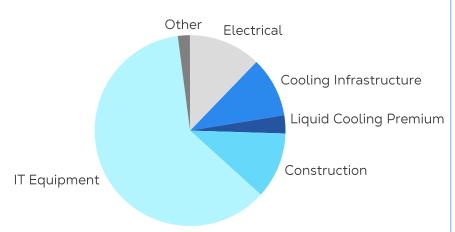
We offer a broad range of innovative solutions

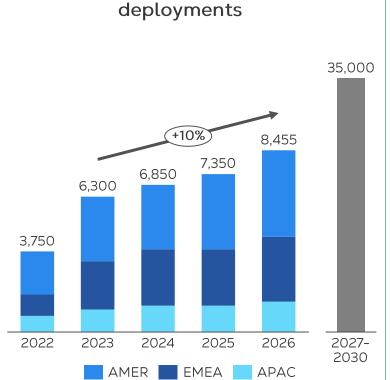




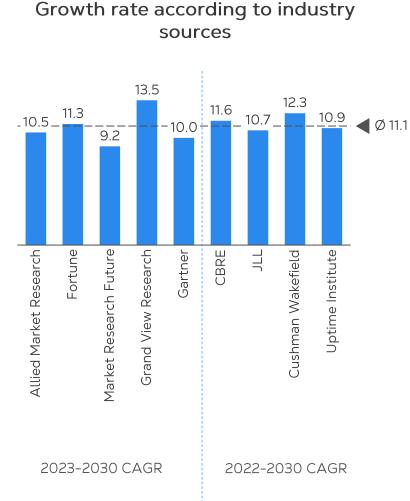
Total market growth and our addressable market

Cooling approximately 10–15% of total DC CAPEX – with a higher price point for liquid cooling due to complexity





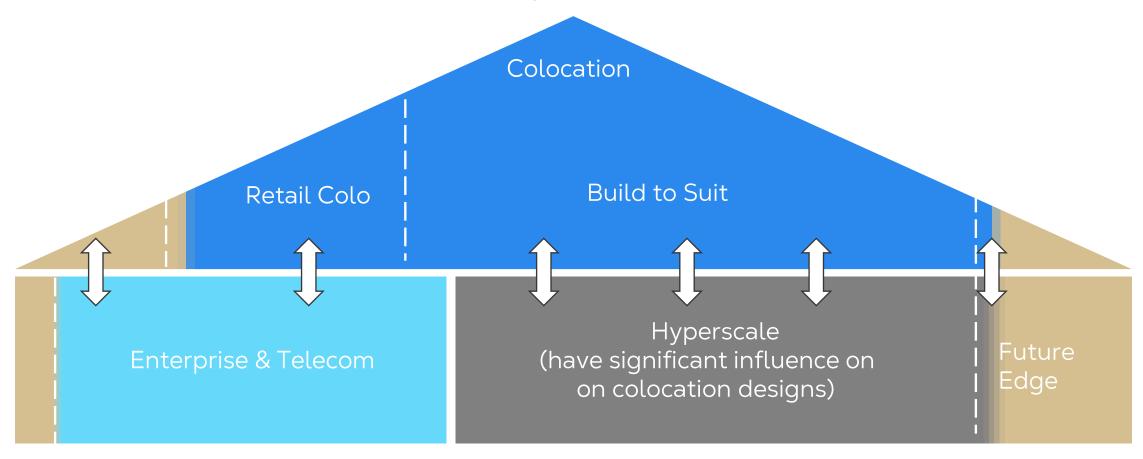
MW of cooling for new DC





Our customers - a connected ecosystem

Colocators main customers are Hyperscale and Enterprise customers



Customer segments not built to scale – design to show the connections between segments



HIGH

Vertical Houses

- Benefits from scale and several "entry points" to the DC projects
- Good product quality but somewhat limited to standardized solutions with lower flexibility and service

Cooling Giants

- Capabilities to develop in all areas
- Strong brands but all not well recognized within DC area

Full Solution Providers

- Broad range of end-to-end solutions
- Trusted with larger share of wallet
- Require broad portfolio, world class service, extensive R&D (joint development) & global presence
- strong project mgmt. & service offering

Niche Players

- Experts in selected parts of the market
- Clear limitations for full range opportunities

LOW

Customer Flexibility





Strong market trends – disruptive development



IPHONE MOMENT OF AI

CLIMATE CHANGE AND RESOURCE SCARCITY

M2M

FUTURE MOBILITY

LOW LATENCY

MORE USERS

GENERATIVE AI

APPLIED AI

FROM ANALYTICS TO AUTOMATION

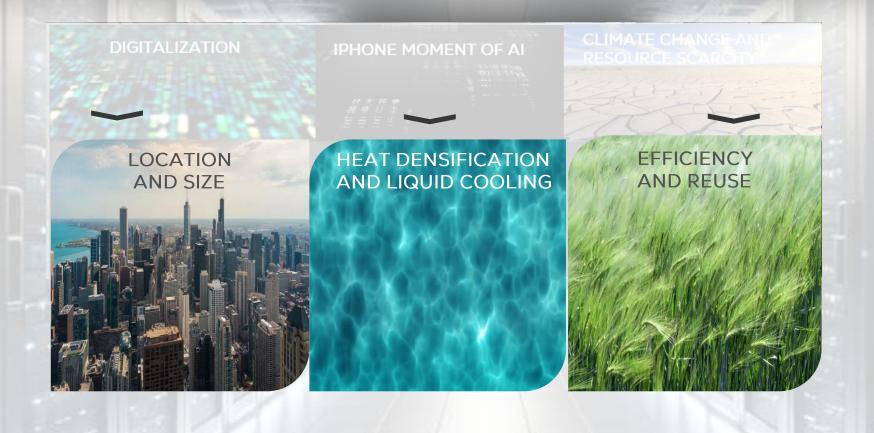
GRID RESTRICTIONS

DROUGHTS / WATER SCARCITY

HEAT WAVES & RECORD TEMPS

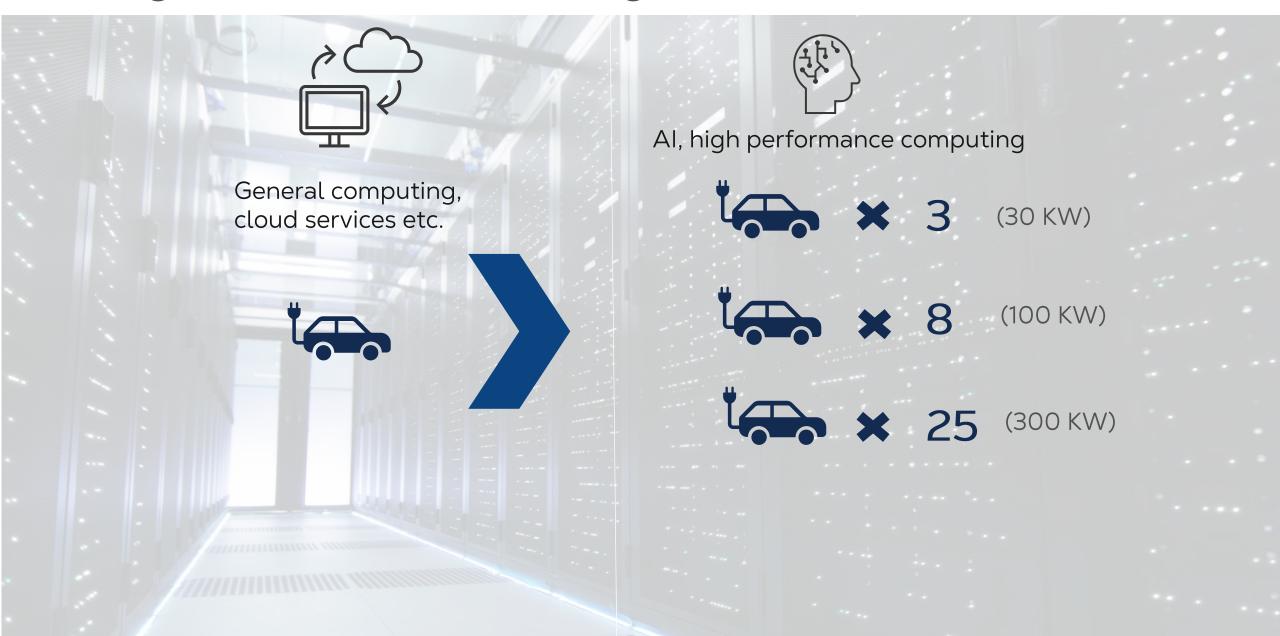
REGULATIONS/LEGISLATIONS

Strong market trends - disruptive development





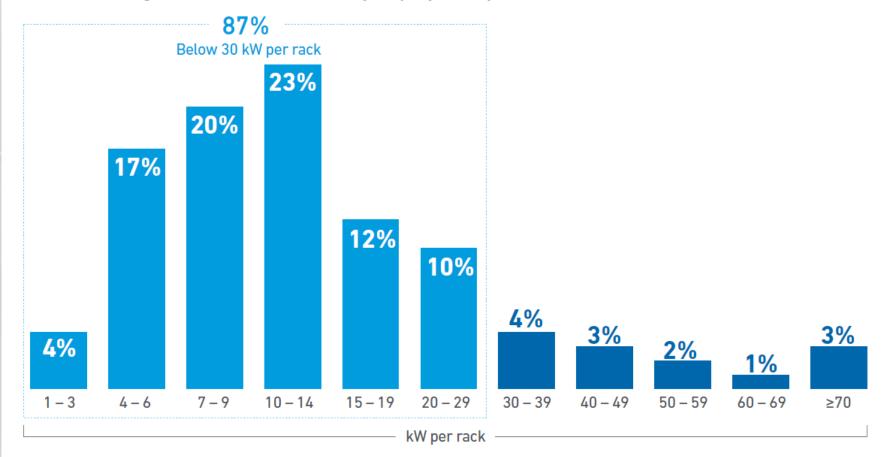
Changes that GPU's will bring



Power density - extremes emerging slowly

Few have racks over 30kW, but extreme densities are emerging

What is the highest server rack density deployed in your site? (n=687)



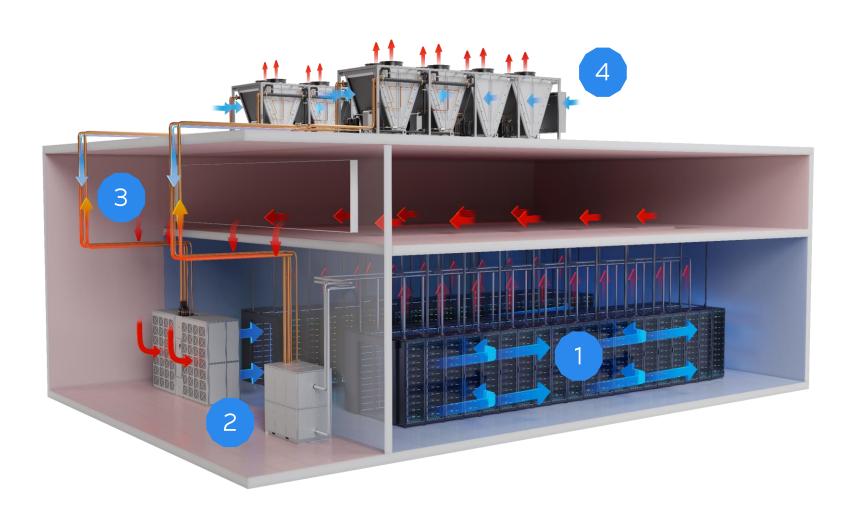
(All figures rounded.)

UPTIME INSTITUTE GLOBAL SURVEY OF IT AND DATA CENTER MANAGERS 2023





SyCool Split - How to deal with increased power density



- Dissipation taking heat from the chip to the air or the liquid
- 2. Capture heat is captured by the CRAH (air) or the CDU (liquid)
- 3. Transfer heat energy is transported to the heat rejection equipment
- 4. Release heat is rejected to atmosphere or to be re-used for another purpose



DC market key trends



Al is creating exponential demands and leading to significant planned investments



Solutions that can deploy in mass scale



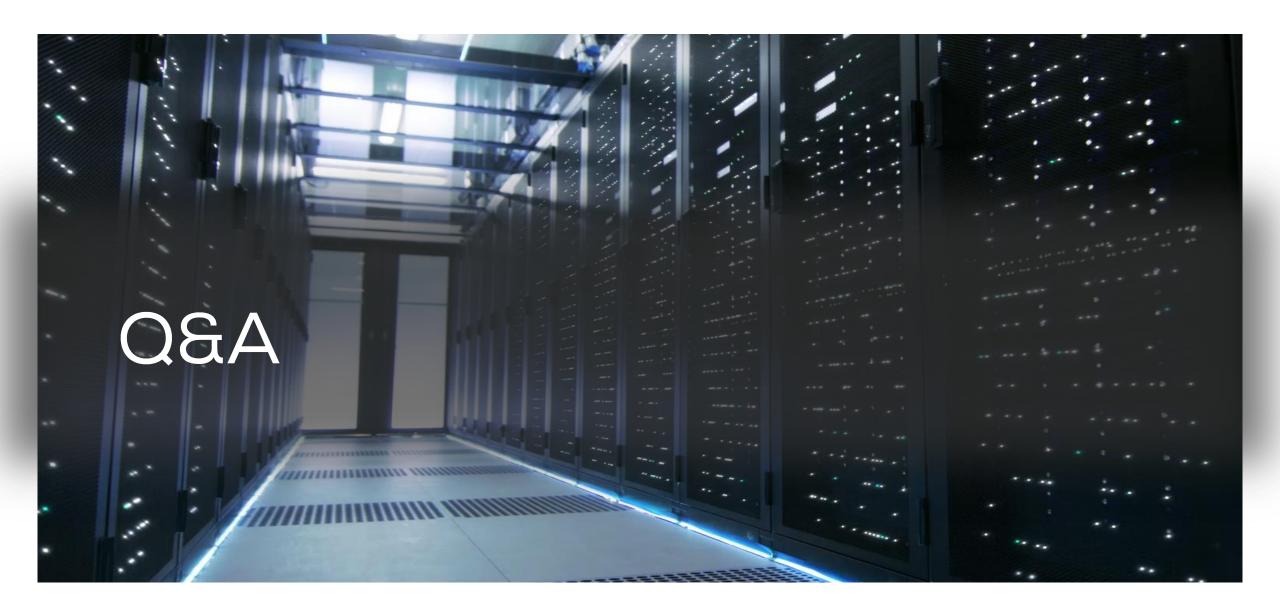
Systems that are future proof for high densities, liquid cooling and edge applications



Continued focus on energy efficiency and energy recovery



Munters



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