NSC Site Update

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NSC/NAISS news

- New office move complete. Very nice offices. Very far to computer rooms.
- NSC and NAISS will merge in 2026 (maybe). No more NSC.
- Intensive hiring process continues. Mostly for AI experts.

WLCG @ NSC - Serenity/dCache

Disk

- 2800TB, 7xDell PowerEdge R760xd2 with 24x20TB.
- 3840TB, 8xDell PowerEdge R760xd2 with 24x24TB.

Tape

- 2xDell PowerEdge R7515, 8x1.8TB SSD.

In the pipeline for next year

- New tape frontends. Unless we postpone until 2027 for reasons.

WLCG @ NSC - Bluegrass/ARC

- 1xPowerEdge R660 with 2x2TB SSD as system server with Ganeti and VM:s for all frontend services.
- 3xPowerEdge R660 with 10x2TB SSD each for ARC cache.
- 40 compute nodes now out of service. One has now died.
- New compute nodes to be procured in 2026, but we have Aigert at HPC2N over delivering, so no real urgency.

Long going issues with Alice jobs resolved. In the end the jobs asked for a silly setup and they got exactly what they asked for.

Networking

No news. A replacement for local switch for WLCG is needed and will be procured in 2026.

Status

- Linköping university: 2x400Gpbs.
- NSC: 6x100Gps.
- Serenity+Bluegrass: 3x40Gpbs.

Plans

- University and NSC/NAISS is moving to 400Gbps, a requirement for Arrhenius.

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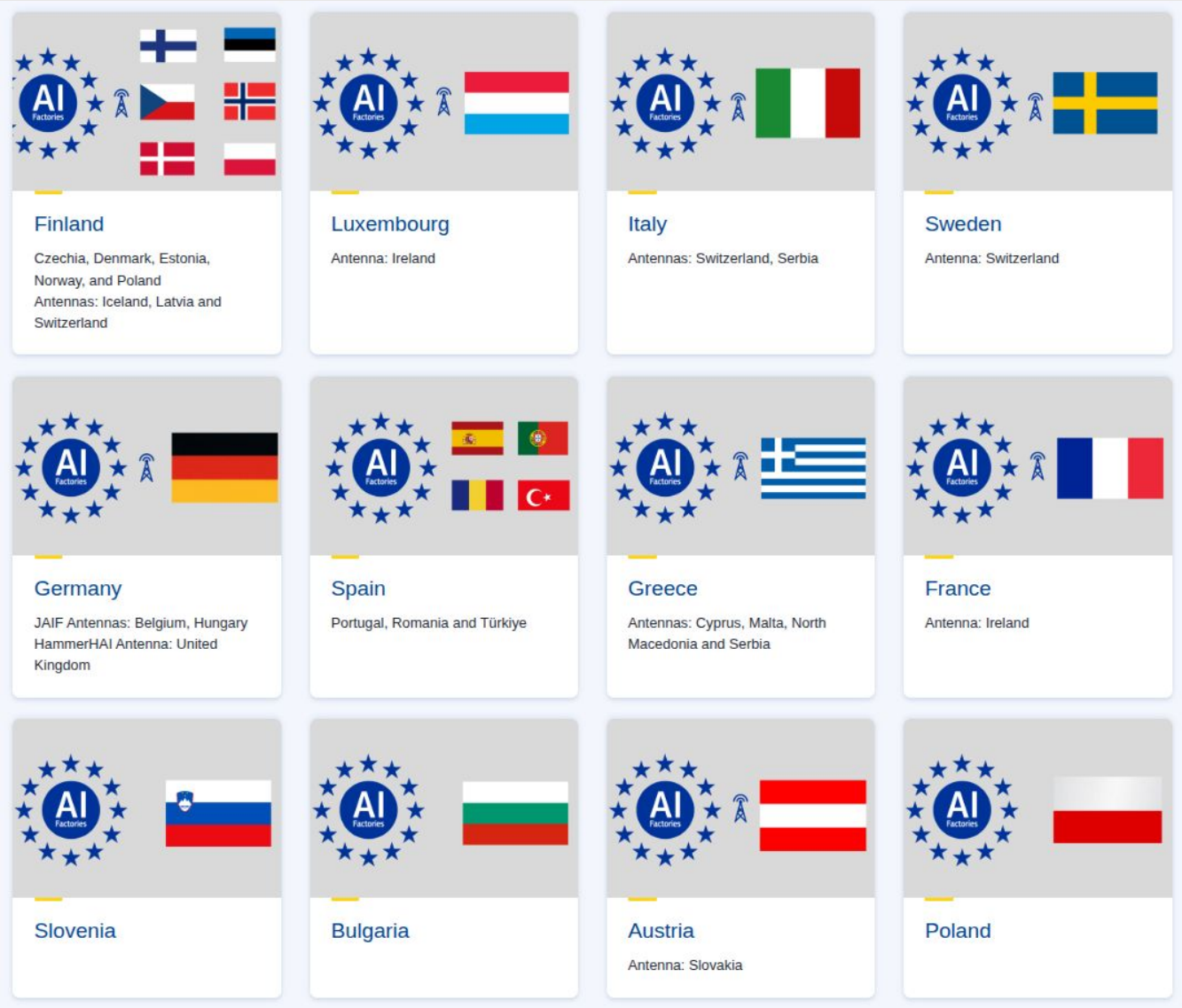
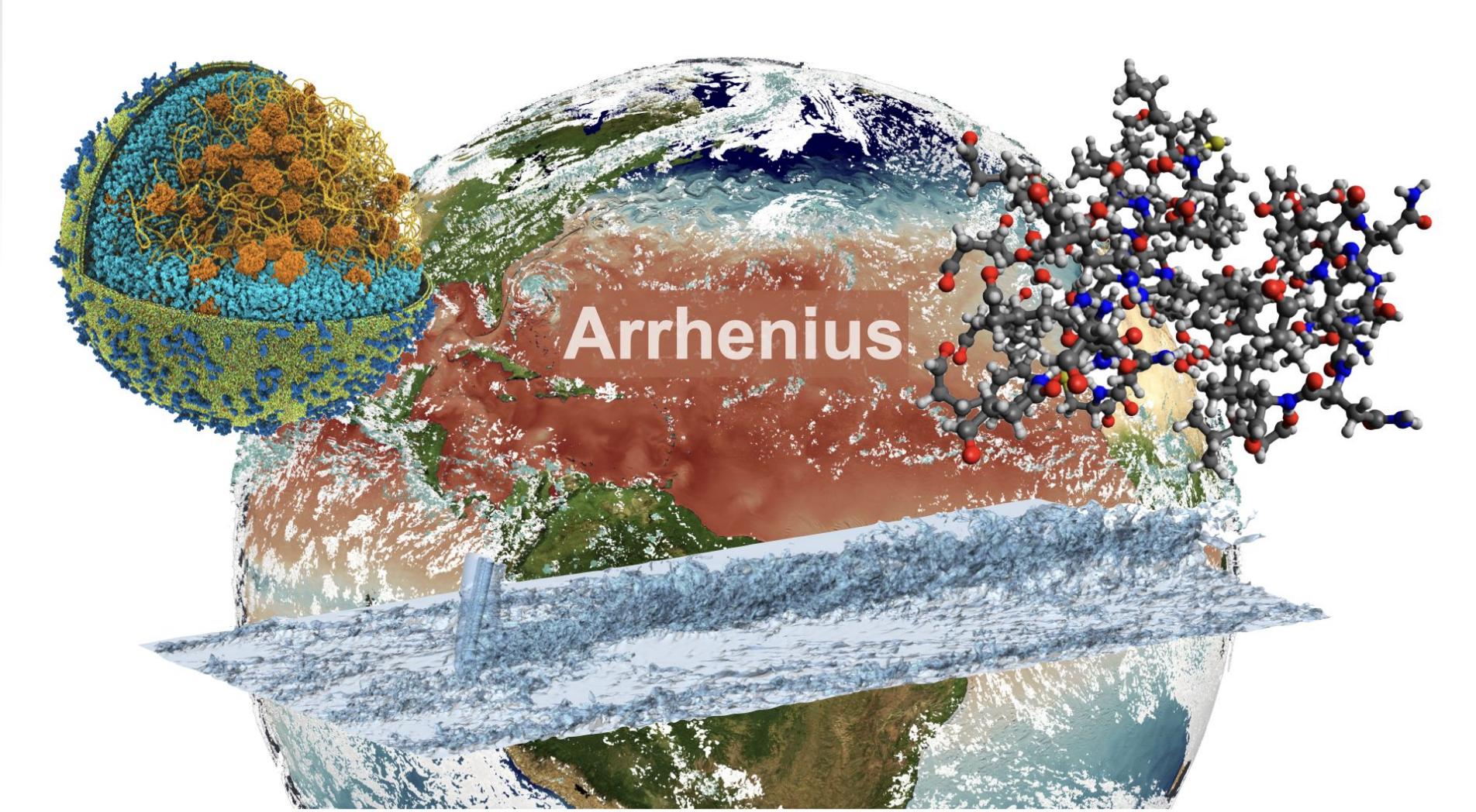
AI Factories - MIMER



MIMER AI Factory Computer System

- MIMER is the name of the AI Factory (staff + computing + storage). The actual compute system is yet unnamed.
- Procurement complete (done by EuroHPC in Luxemburg).
- Contract is being negotiated. Signatures expected this week but everything secret until EuroHPC publish.
- ~30 MEUR investment.
- ~10 MEUR running costs.
- Delivery late this year? But market unstable.

Arrhenius
a EuroHPC Midrange System



Arrhenius

- Arrhenius is procured together with EuroHPC. Installation of the system started in December 2025. Available in summer 2026.
- A HPC partition with 424 AMD Turin 128-core CPUs and 382 GPU nodes, each with four Grace Hopper Superchips from Nvidia
- One partition for cloud computing
- One partition dedicated to sensitive data
- 29 PB parallel file system for storage.
- The GPU part is expected to have an HPL (High-Performance Linpack) performance of more than 60 PFLOPS.
- To ensure good service and maintenance, HPE will also place an on-site engineer at NAISS.
- The system is named after Swedish geologist and chemist Carl Axel Arrhenius who discovered the mineral gadolinite.

Arrhenius

THE PICTURES!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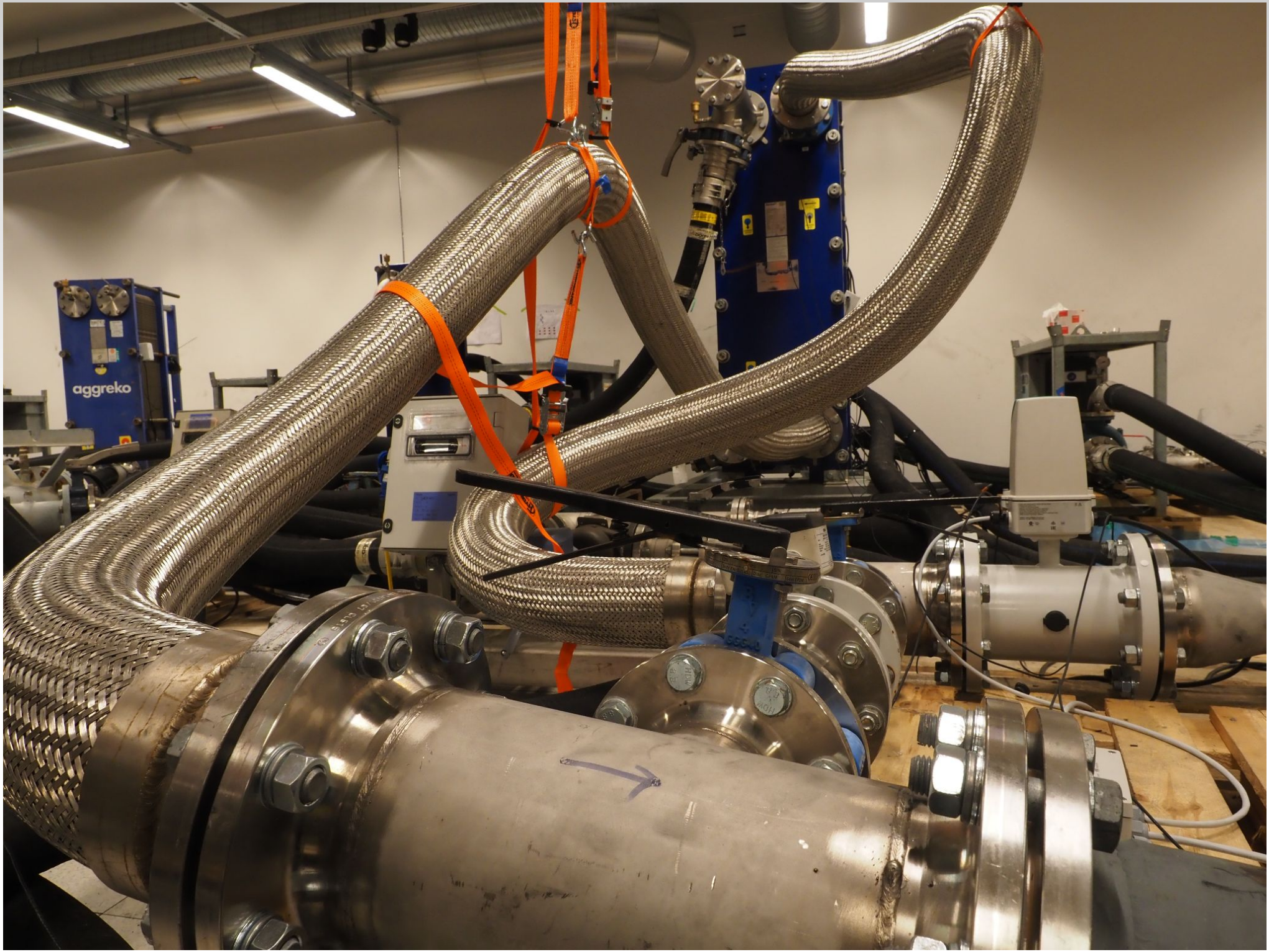
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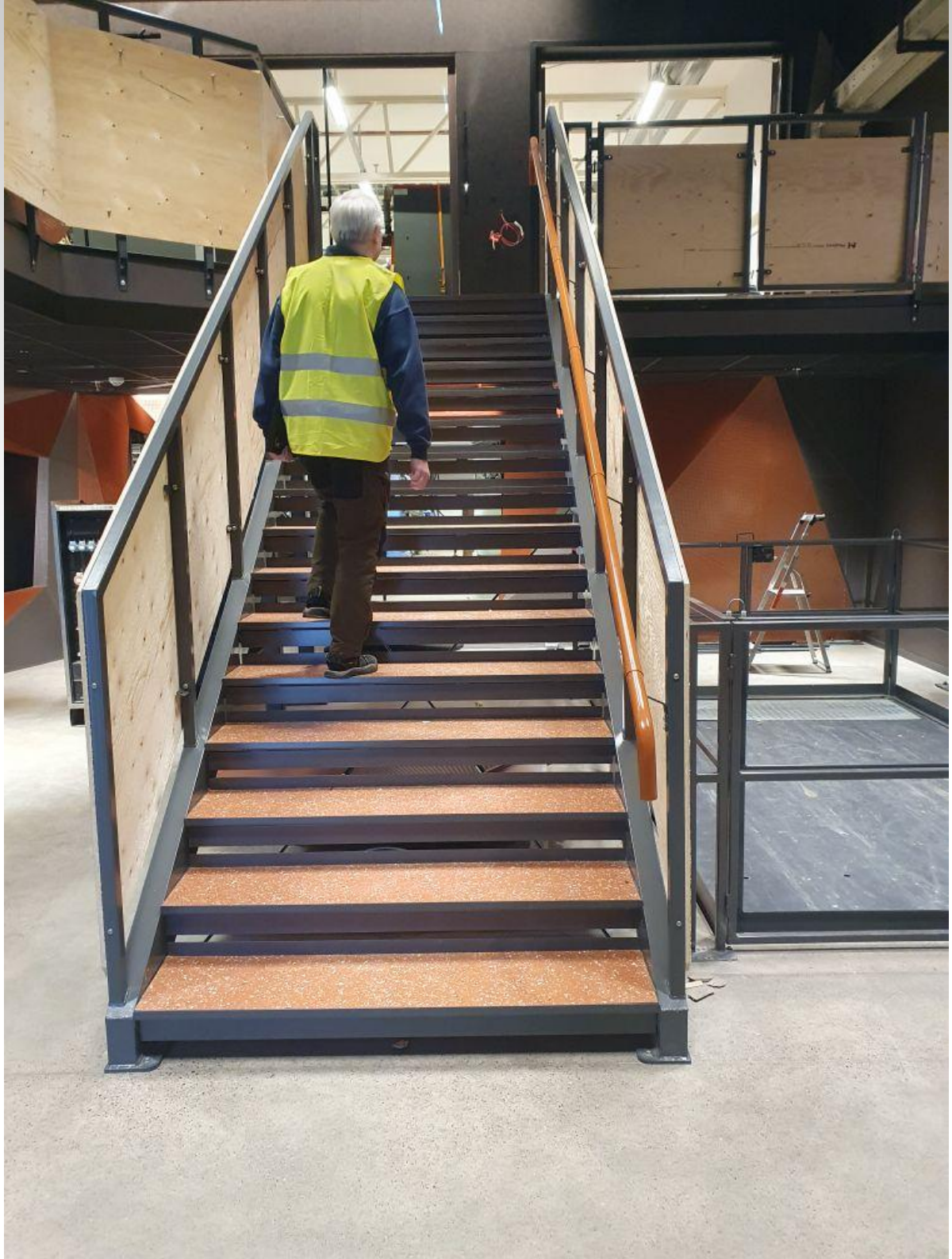
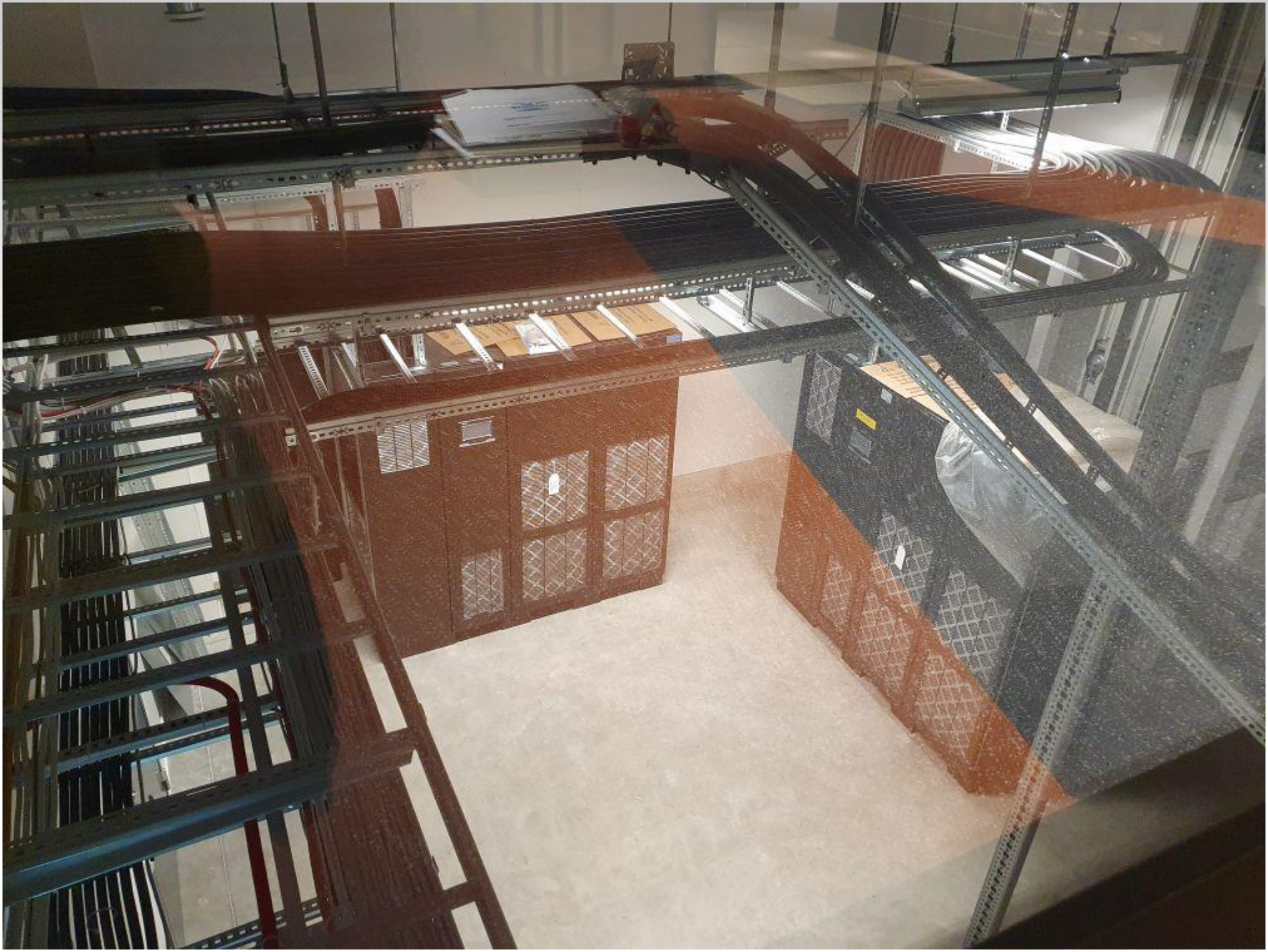



XHI-FOG
goodall
goodall


MAX 3000 KG

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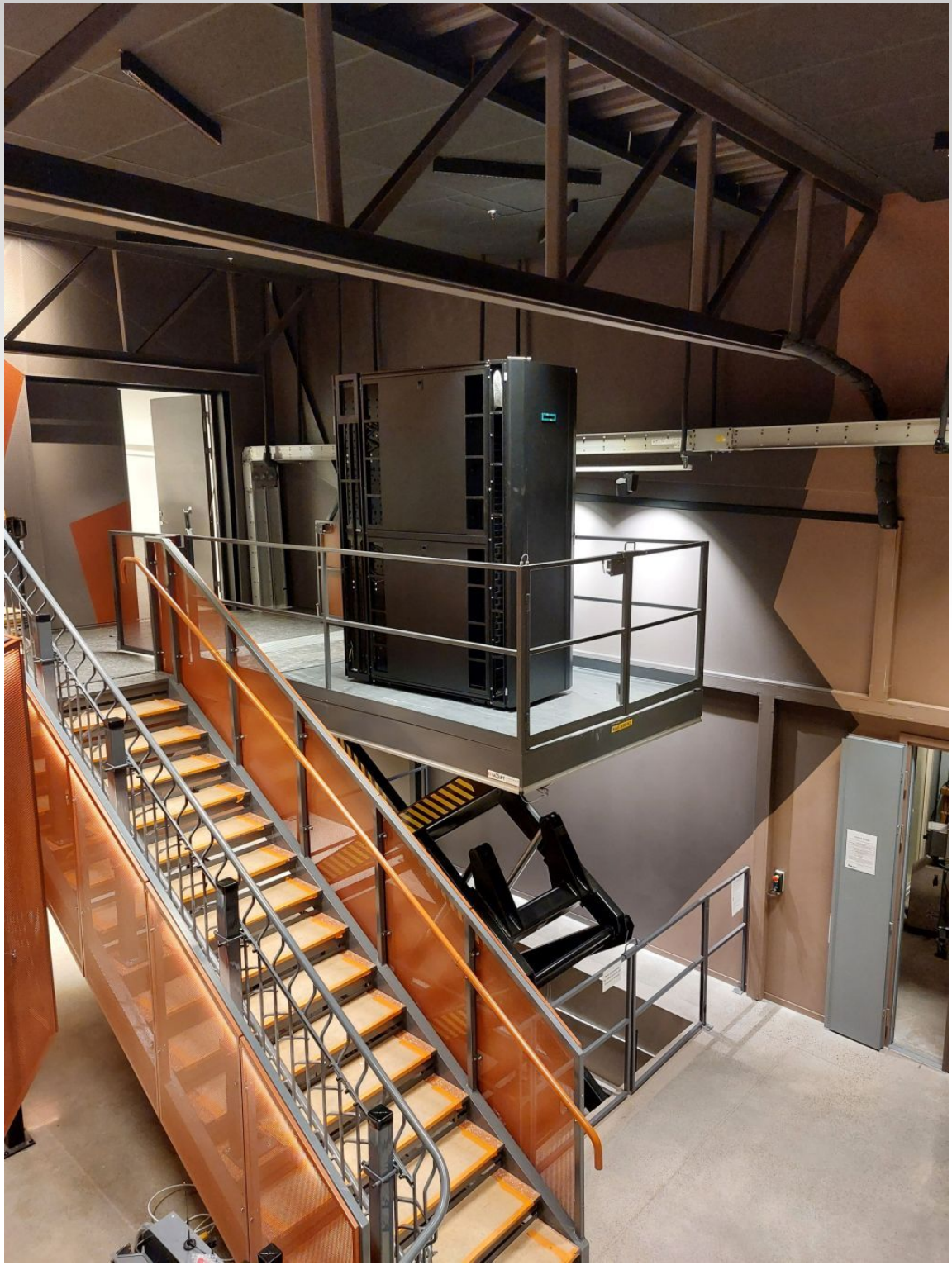


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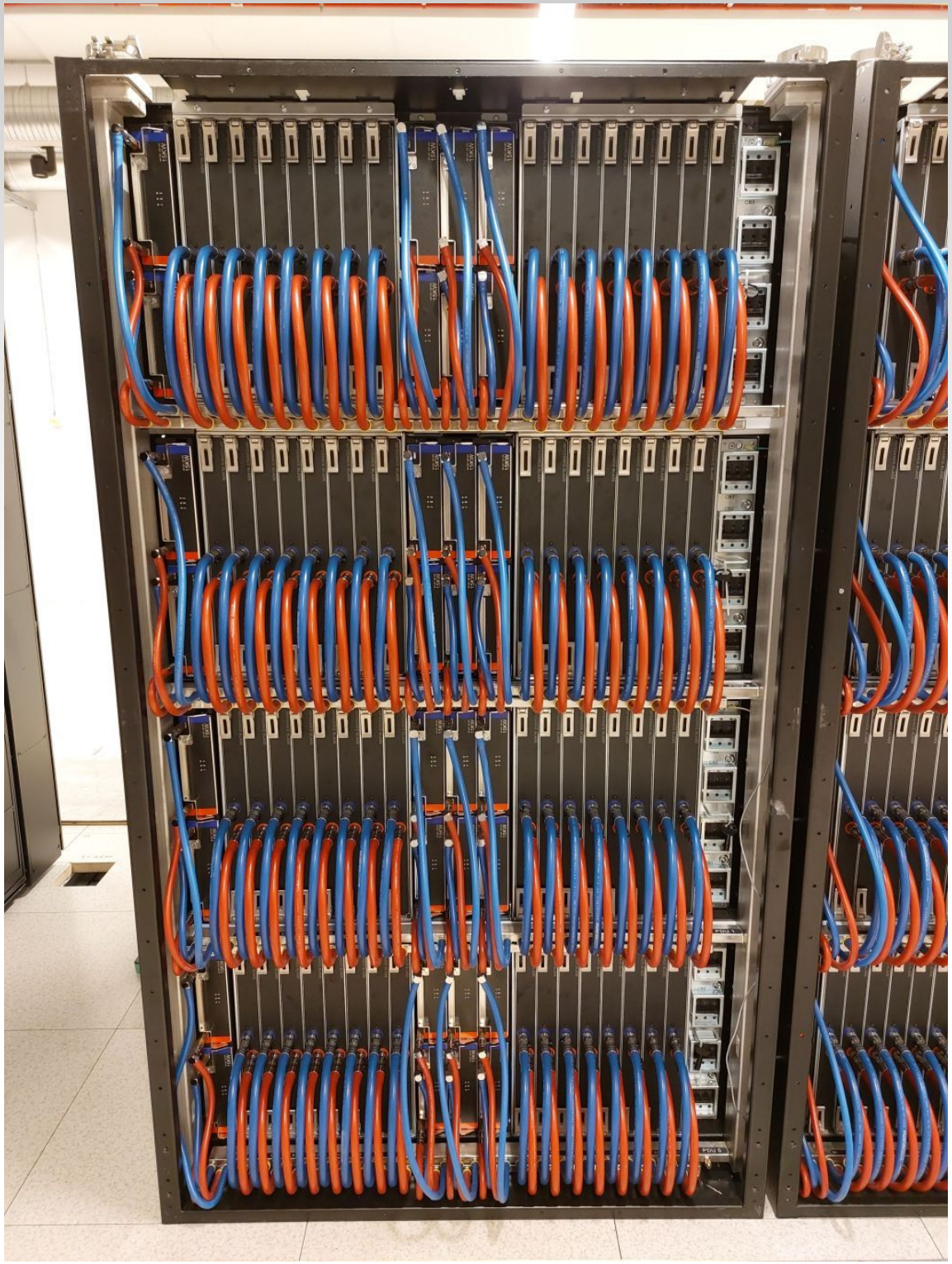


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