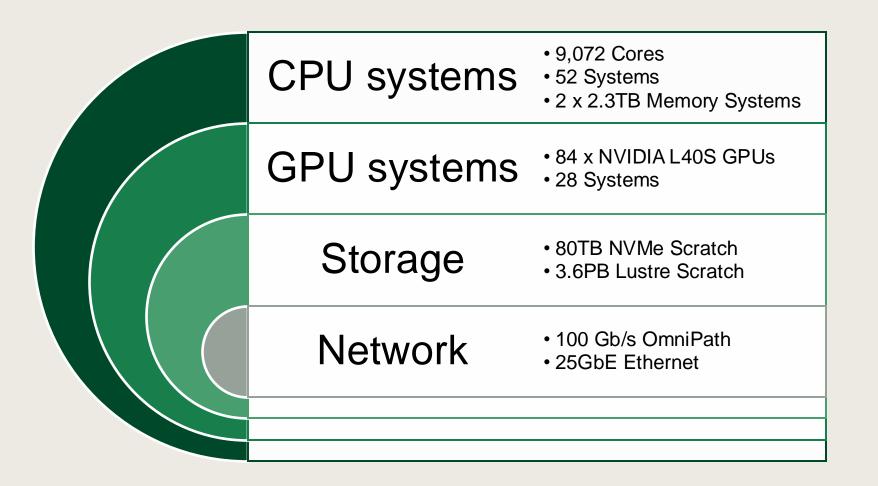


# **Overview of Aire**



ARC3 -> AIRE	
CPU Cores	1.5x
Memory Bandwidth	6x
Max High Memory	3x
GPU Flops	28x
Scratch Storage	4.5x
NVMe Scratch	New 80TB
Low Latency Network	1.8x

# **Technical Details – Aire**

#### CPU nodes (52)

- Dell R6625 servers
- AMD Dual 84 core 2.2GHz (9634 Genoa-X)
  - **9,072 cores** total
- 768GB DDR5-4800 Memory
- Dual 480GB M2 drives

## High memory nodes (2)

2.3TB DDR5-4800 Memory

### GPU nodes (28)

- Dell R7615 servers
- 3 x NVIDIA L40S 48GB GPUs (PCIe)
  - 84 GPU cards total
- AMD 24 core 2.9GHz (9254 Genoa-X)
- 256GB DDR5-4800 Memory
- Dual 480GB M2 drives

#### **Storage**

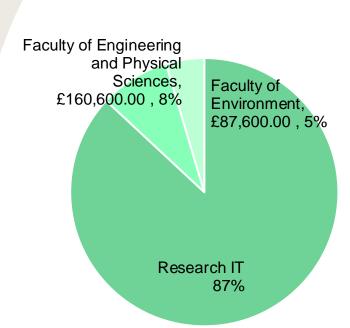
- NEW 80TB NVMe Lustre Scratch System
- 3.6PB Lustre Scratch

#### Other nodes

- Login Nodes (4)
- Management Nodes (2)

## **Funding**

- £1.9m hardware spend
- Faculty of Engineering and Physical Sciences
  - 11 GPU nodes
- Faculty of Environment
  - 6 GPU Nodes



## Aire – Timeline & Plan

### 9<sup>th</sup> September 2024

- ARC3 capacity reduced by 50%
- Installation of 50% AIRE systems and infrastructure
- Users continue to work on ARC3 (50%) and ARC4

#### October to November 2024

- Migration of all users on to AIRE (50%) & SLURM scheduler
- ARC3 shutdown; remaining AIRE systems installed

#### End of December 2024

- ARC4 systems integrated into Aire SLURM environment
- ARC3 & ARC4 data deleted unless it has been transferred to AIRE

## Help to migrate to Aire and SLURM will be available from the RSE team throughout the migration

Contact us at: <a href="mailto:rcteam@leeds.ac.uk">rcteam@leeds.ac.uk</a>, <a href="https://arc.leeds.ac.uk/">https://arc.leeds.ac.uk/</a> <a href="https://it.leeds.ac.uk/">https://arc.leeds.ac.uk/</a> <a href="https://it.leeds.ac.uk/">https://arc.leeds.ac.uk/</a> <a href="https://it.leeds.ac.uk/">https://it.leeds.ac.uk/</a> <a href="https://it.leeds.ac.uk/">https://it.