

# NetDRIVE Workshop

Priorities and Ethics of Research Computing Investments

Welcome to the Queen Mary University of London

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# Welcome to the Pathology Museum @ QMUL Westsmithfeild Campus

- Arguably the oldest QMUL Campus
- Colocated with St Bartholomew's Hospital  
Founded 1123
- St Bartholomew's Medical School recognised 1791
- Pathology Museum opened in 1879  
Grade II Listed in 1972



# Our Foundations

London Hospital Medical College (1785)

St Bartholomew's Hospital Medical College (1791)

Westfield College (1882)

Queen Mary College (1934)

Renamed Queen Mary University of London (2000)

Queen Mary joins the Russell Group (2012)



Whitechapel



Westsmithfield



Hampstead



Mile End

# Mile End Campus



- Our largest campus in the East End of London
- First computer arrived in 1968
- [https://youtu.be/qd-W3pyMP\\_Q?si=UKIqAA89Jkg7ivQO](https://youtu.be/qd-W3pyMP_Q?si=UKIqAA89Jkg7ivQO)

# Our First Computer: “The Computer” 1968



- First computer arrived in 1968  
ICT1905E
- Several parts craned into fifth floor of Maths Department
- Most valuable container cost ~ £80k  
(~£1.2M in today's money)
- [https://youtu.be/qd-W3pyMP\\_Q?si=UKlqAA89Jkg7ivQO](https://youtu.be/qd-W3pyMP_Q?si=UKlqAA89Jkg7ivQO)
- The film is very much “of its time”!





# Newly refurbished research data centre (2024) with heat recovery

Upto 500 KW of heat re-used for hot water and heating across campus



GridPP Cluster ~20 PB + ~15k CPU

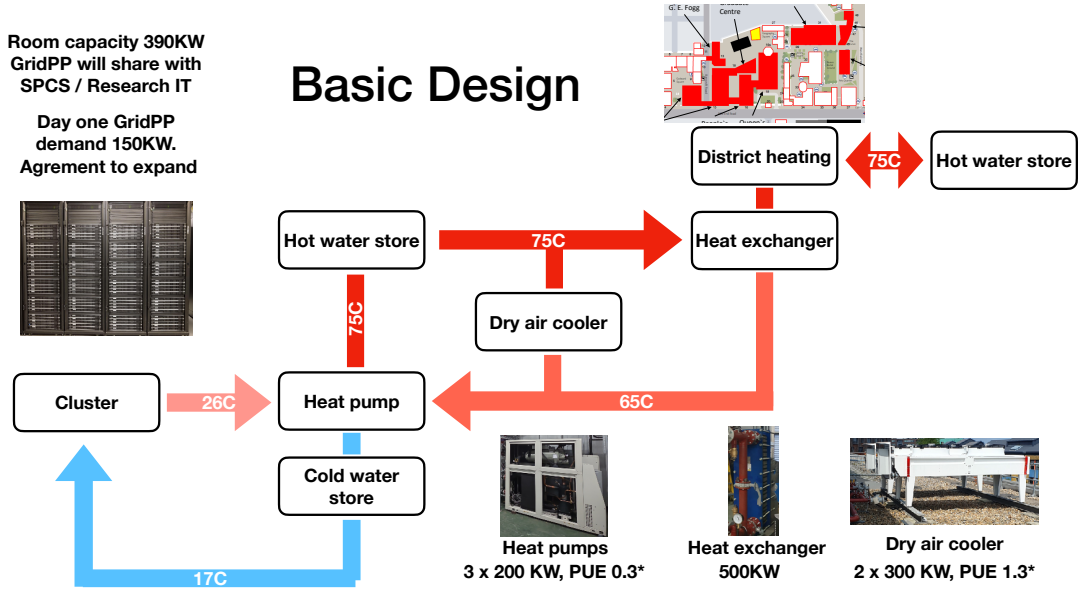


Enclosed hot aisle with in-row coolers

Room capacity 390KW  
GridPP will share with  
SPCS / Research IT  
  
Day one GridPP  
demand 150KW.  
Agreement to expand



## Basic Design



\*Heat pumps consume apx 30KW for every 100KW transferred

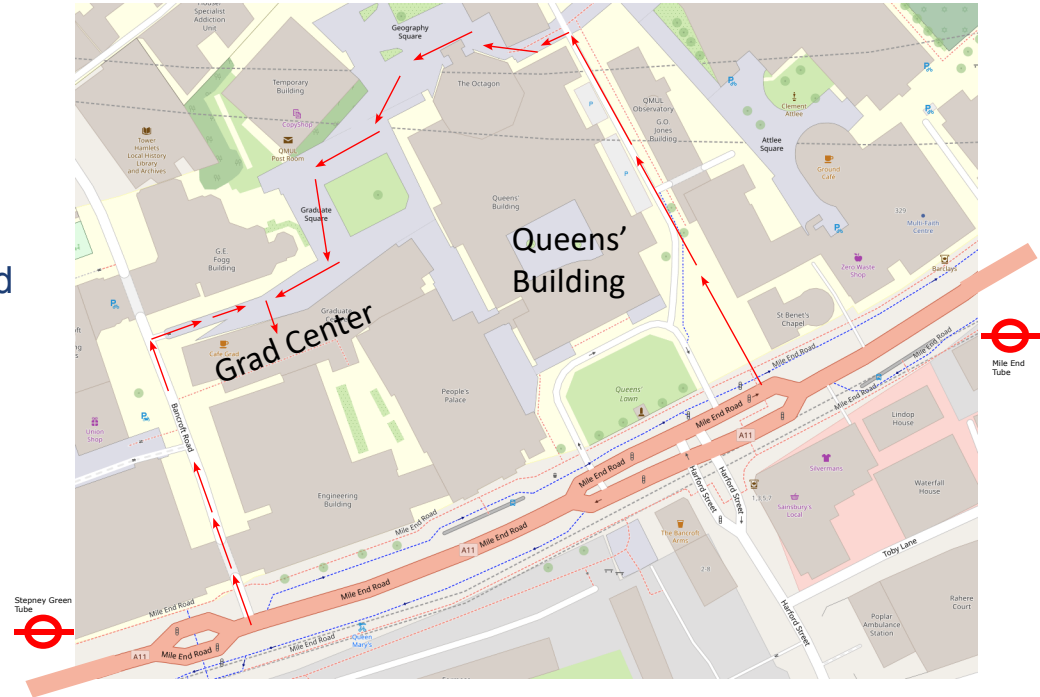
# Welcome to the Pathology Museum @ QMUL Westsmithfeild Campus

- No Photography
- Toilets - signed on this floor.  
Turn right towards lift then left and follow signs.
- In case of fire evacuate to the main square
- We will discuss issues and may well disagree:  
  
By attending this meeting you agree to behave in a professional and courteous manner.



# Dinner: Graduate Centre 7th Floor @ QMUL Mile End Campus

- 7:00 for 7:30 (Until 9:45)
- Exit Mile End Tube turn left
- Exit Stepney Green Tube turn left
- Bancroft Road gate (or main gate and behind Queens' building) to Graduate Centre





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