

USDC

Pete Jones / OUCS / July 2011

...so, what have you done so far?



Data Centre

Fit-out commenced
Racking, CCTV
Power & cabling to complete



Networking

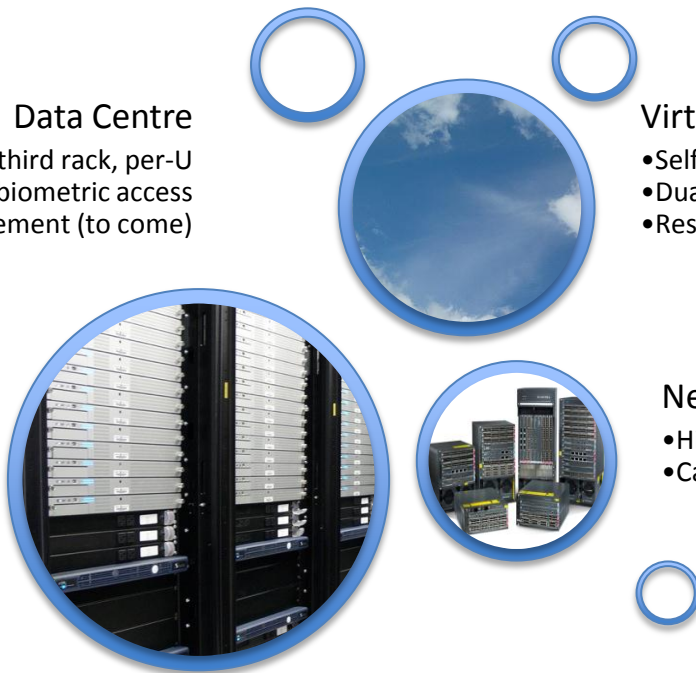
Phase 1 equipment procured
Installation and configuration imminent



Virtual Infrastructure/Private Cloud

Design complete
Procurement ongoing

...and what are you offering?



Data Centre

- Co-location – rack, ½ rack, third rack, per-U
 - 24-hour token/biometric access
- Remote power management (to come)

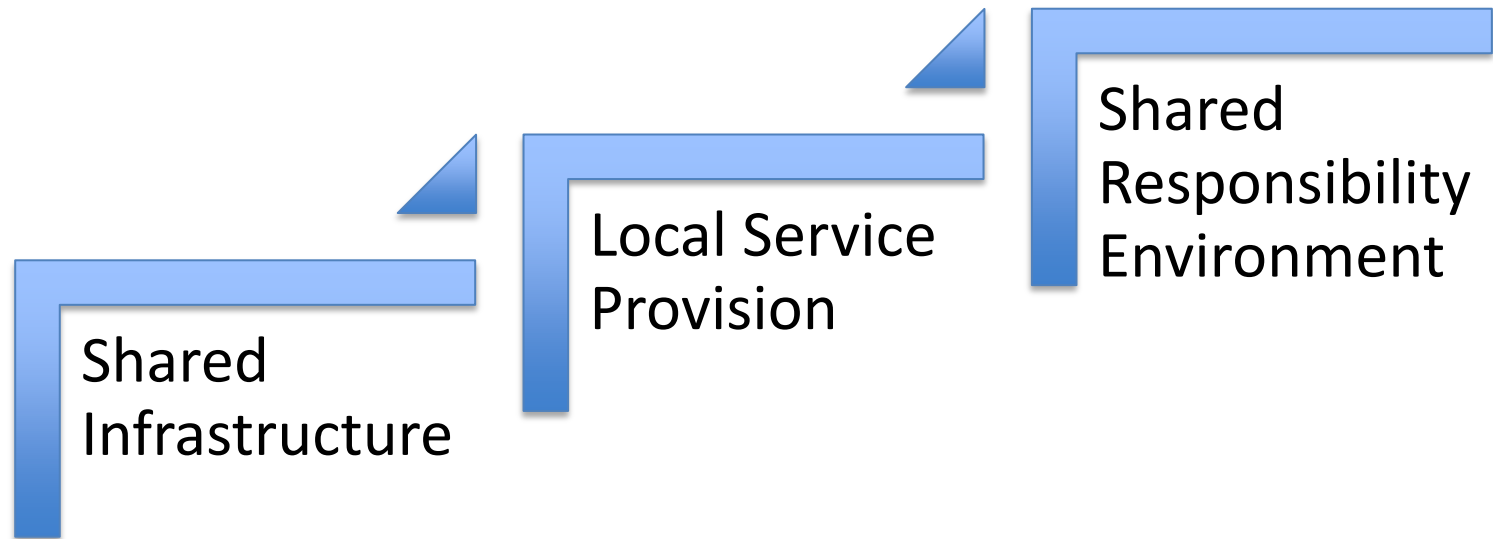
Virtual Infrastructure/Private Cloud

- Self Service
- Dual site HA
- Resource pools – virtual data centres (vDC)

Networking

- High availability data centre network
- Campus network – Your VLAN

...this works how with our services?

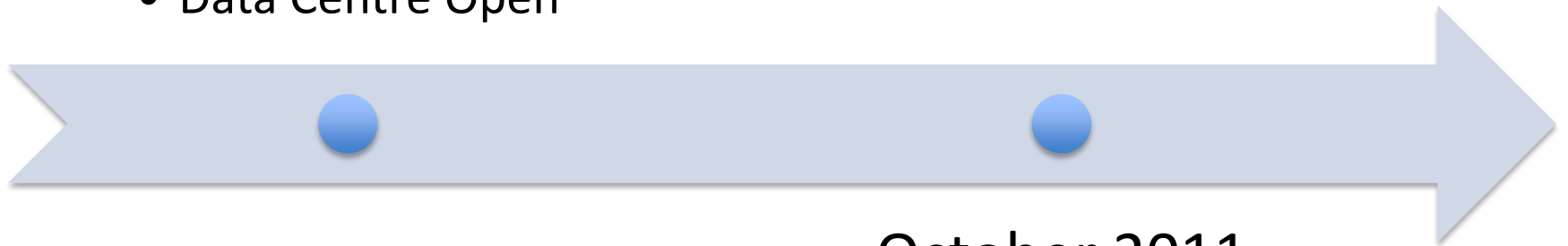


Shared Infrastructure, Local Services

...are we there yet?

August 2011

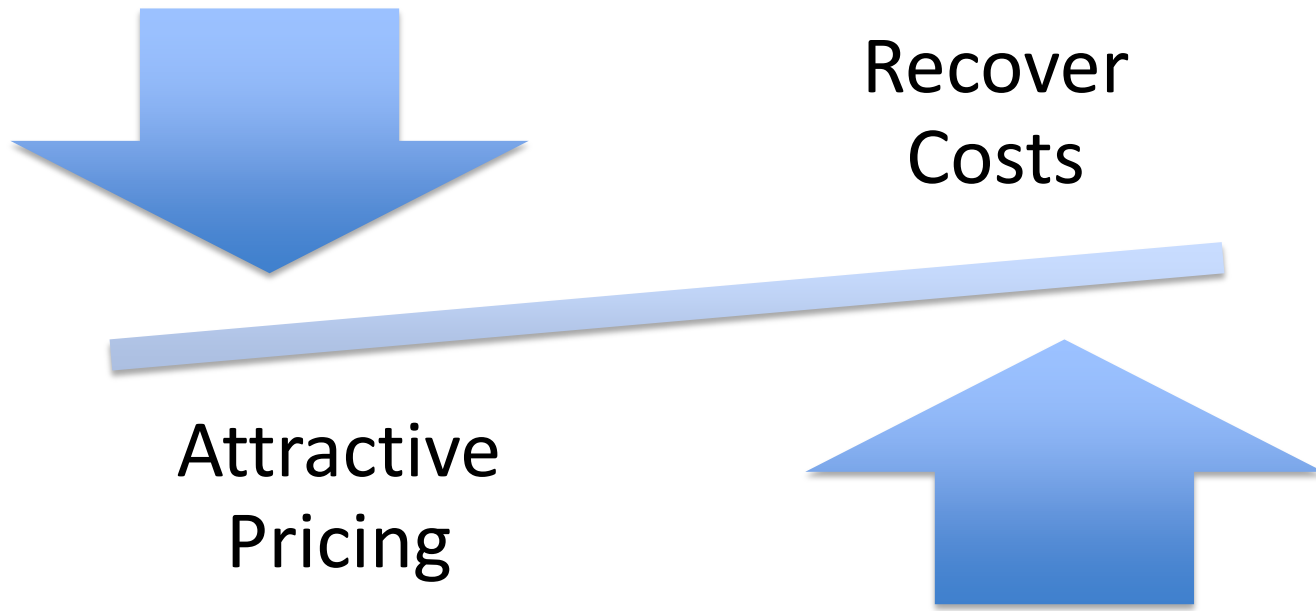
- Data Centre Open



October 2011

- Private Cloud

let's talk money...



...how much is it going to cost me?

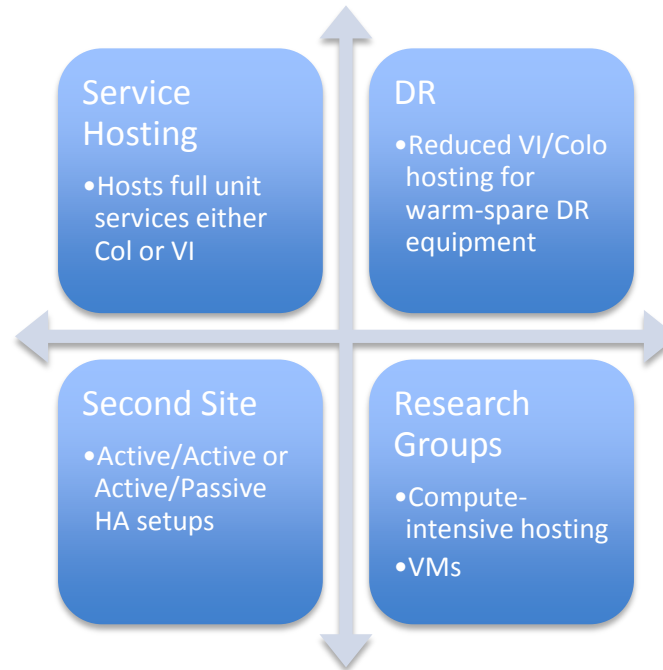
Colocation

- Full Rack - £625 pcm
- Half Rack - £400 pcm
- Third Rack - £240 pcm
- Electricity at 1.5x usage

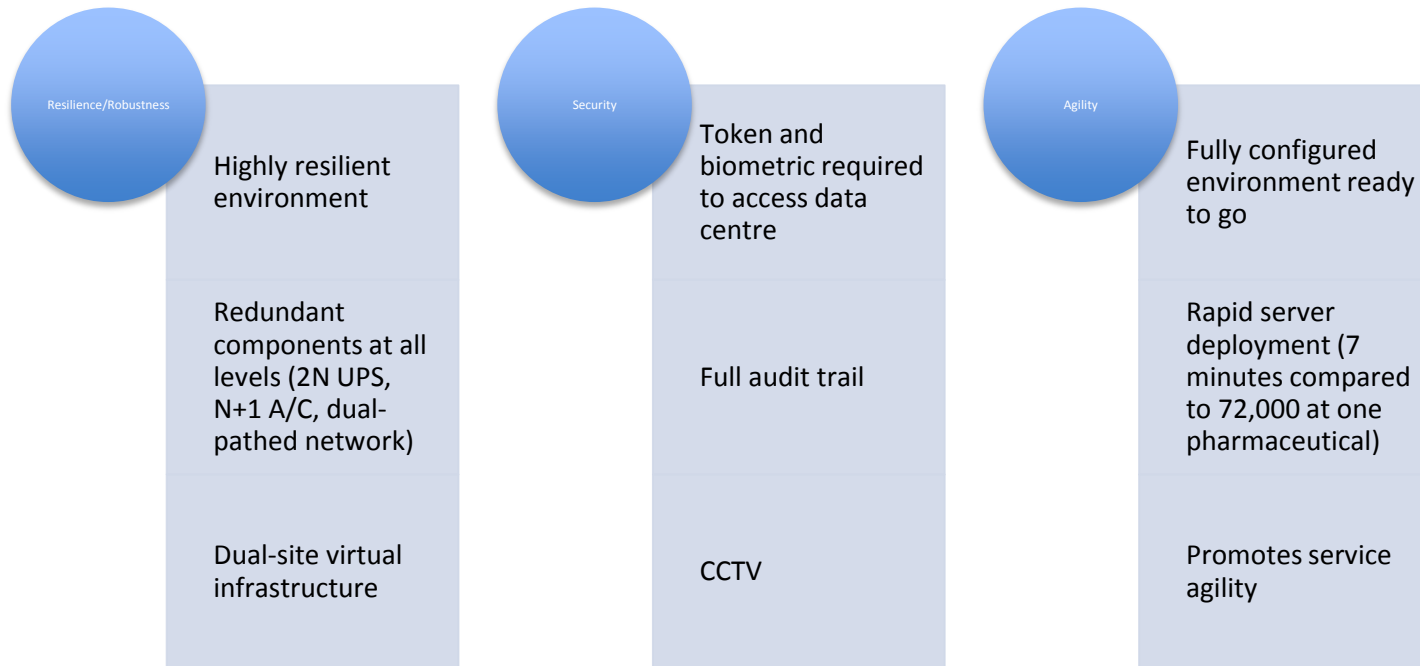
Private Cloud

- Virtual Instance - £40 pcm
- Additional capacity - £10/£5 pcm

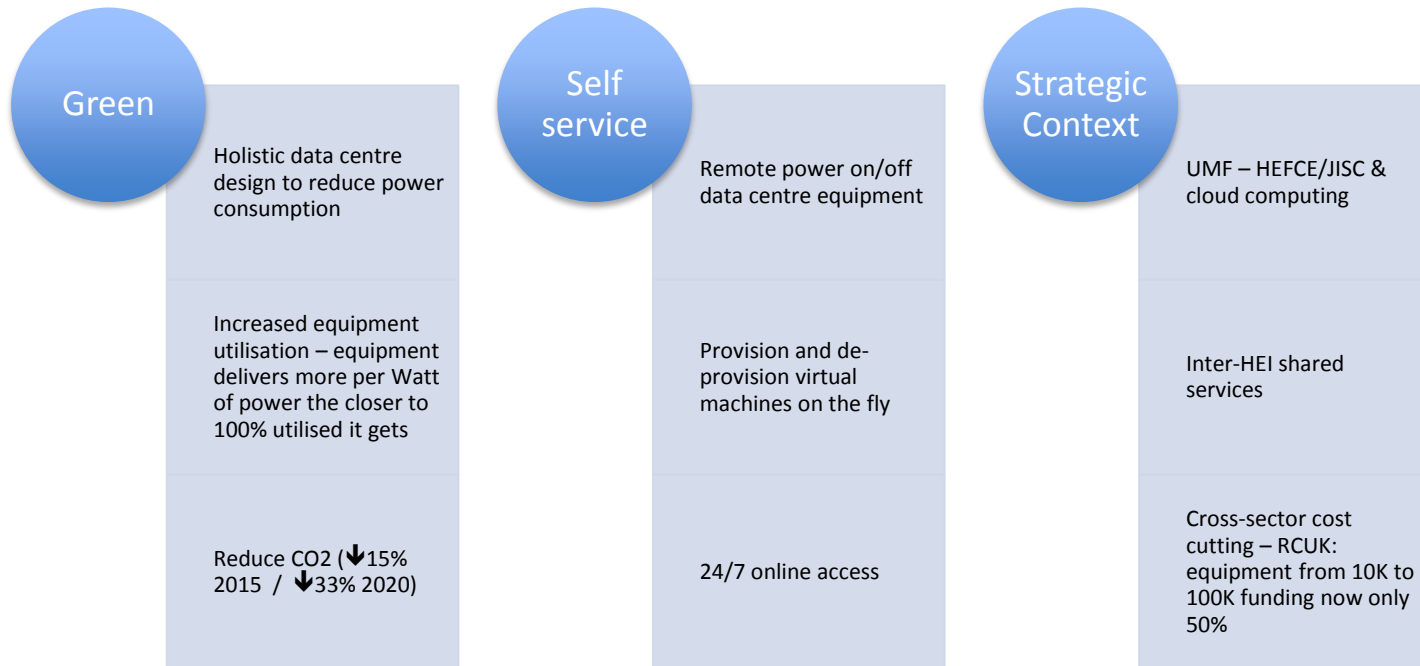
how could I make use of these?



...and why should I?



...and why should I?



...and why should I?



Cost

- Electricity Savings (up 14.8% last year but potential ~40% saving using USDC)
- Virtualization drives up utilization of equipment, reducing procurement
- Pay per use billing
- Like-for-like comparison over 5 years required – hidden costs in facilities budgets

Questions

Feel free to e-mail:
usdc@oucs.ox.ac.uk

Co-location Outline

- Rack: ~40U, 22 DC Network or 1 Campus Network, 32xC13, 8xC19, 24/7 unaccompanied access
- Half-rack: ~19U, 11DC Network or 1 Campus Network, 32xC13, 24/7 unaccompanied access
- Third-Rack: ~11U, 7 DC Network or 1 Campus Network, 16xC13, 24/7 unaccompanied access
- Per-U: 1U, 1 DC Network or 1 Campus Network, 2xC13, working hours accompanied access
- By request: Multi-mode fibre connections, Fibre-channel virtual SANs, private VLANs (DC Network only)

VI Outline

- Standard VM: 1 vCPU, 2GB RAM, 50GB storage, 1 virtual NIC (Campus or DC)
- Extra memory / storage / CPUs available
- Combine resources into a pool – virtual Data Centre (vDC)
- Dual-site
- 24/7 self-service
- Image level backups being considered (may be chargeable extra/phone up for a restore)
- NB: at earlier stage (less defined) than co-location services