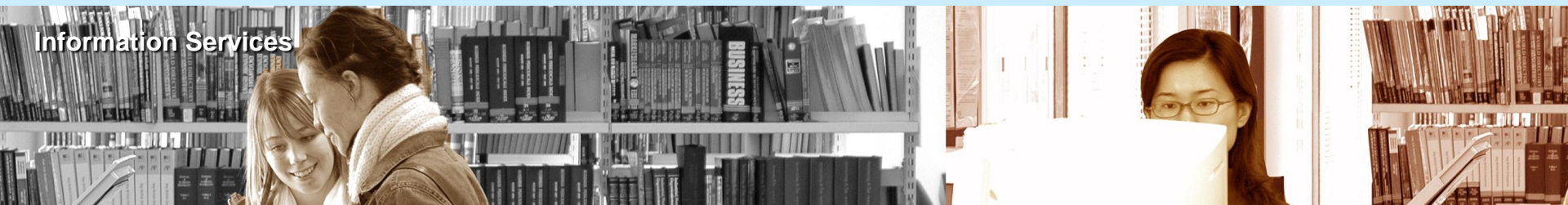# NHS / HE Interconnectivity for the University of Nottingham

Information Services

David Valentine-Hagart
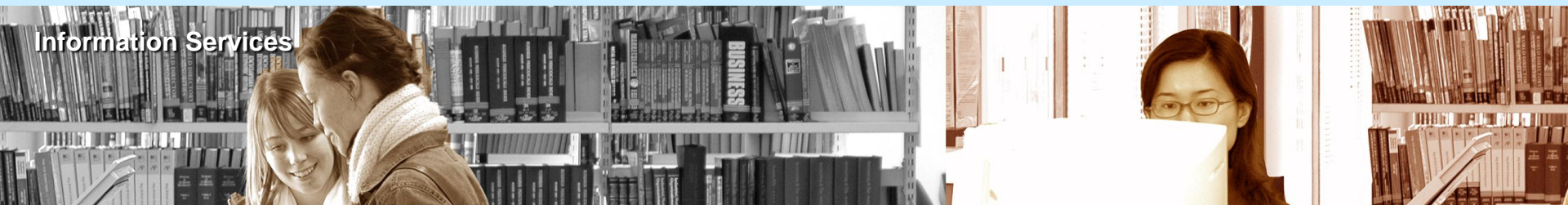
Overview

- Some History
- Drivers
- Technology
- Challenges
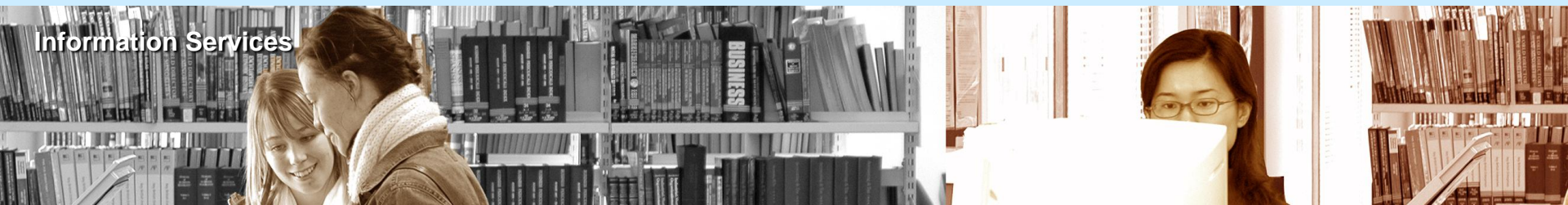- Next steps

History

- LOCAL Agreement between UoN and NHS technical leads
- Back to Back Terminal Server to NHS mainframe
- VERY small userbase (<10)
- Not a published service
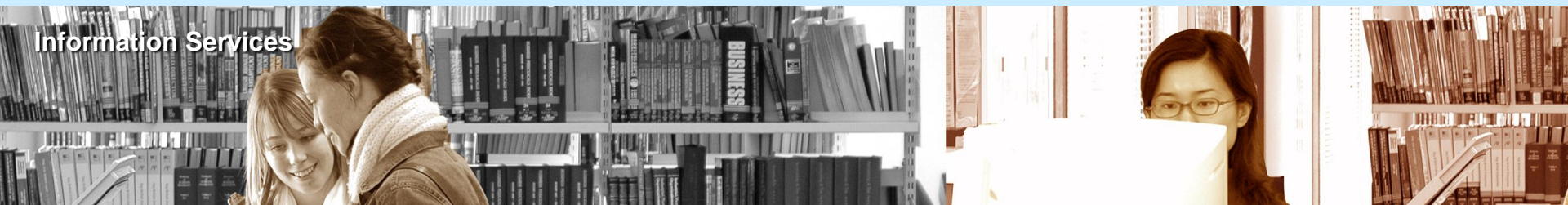- No resilience & no planned future !

Drivers

- Resilience and future of terminal server setup
- NHS services moving away from mainframe and VT Terminal style delivery
- University staff and students working in NHS space
- University clinical academics wanting to retain access to NHS services
- NUH and University wanting to avoid 2 PCs on every University clinicians desk !
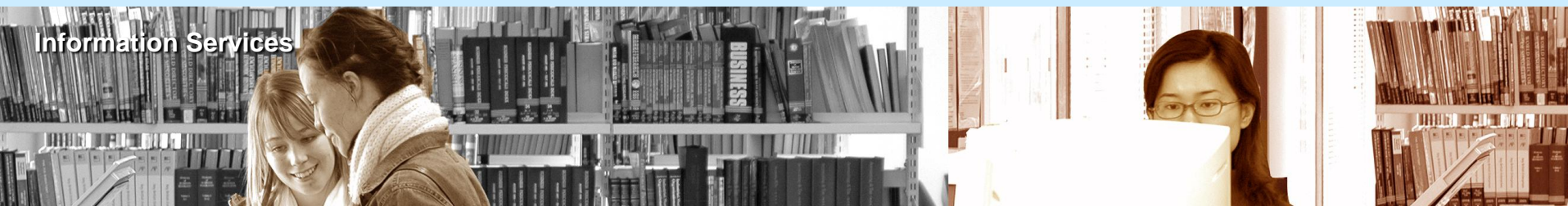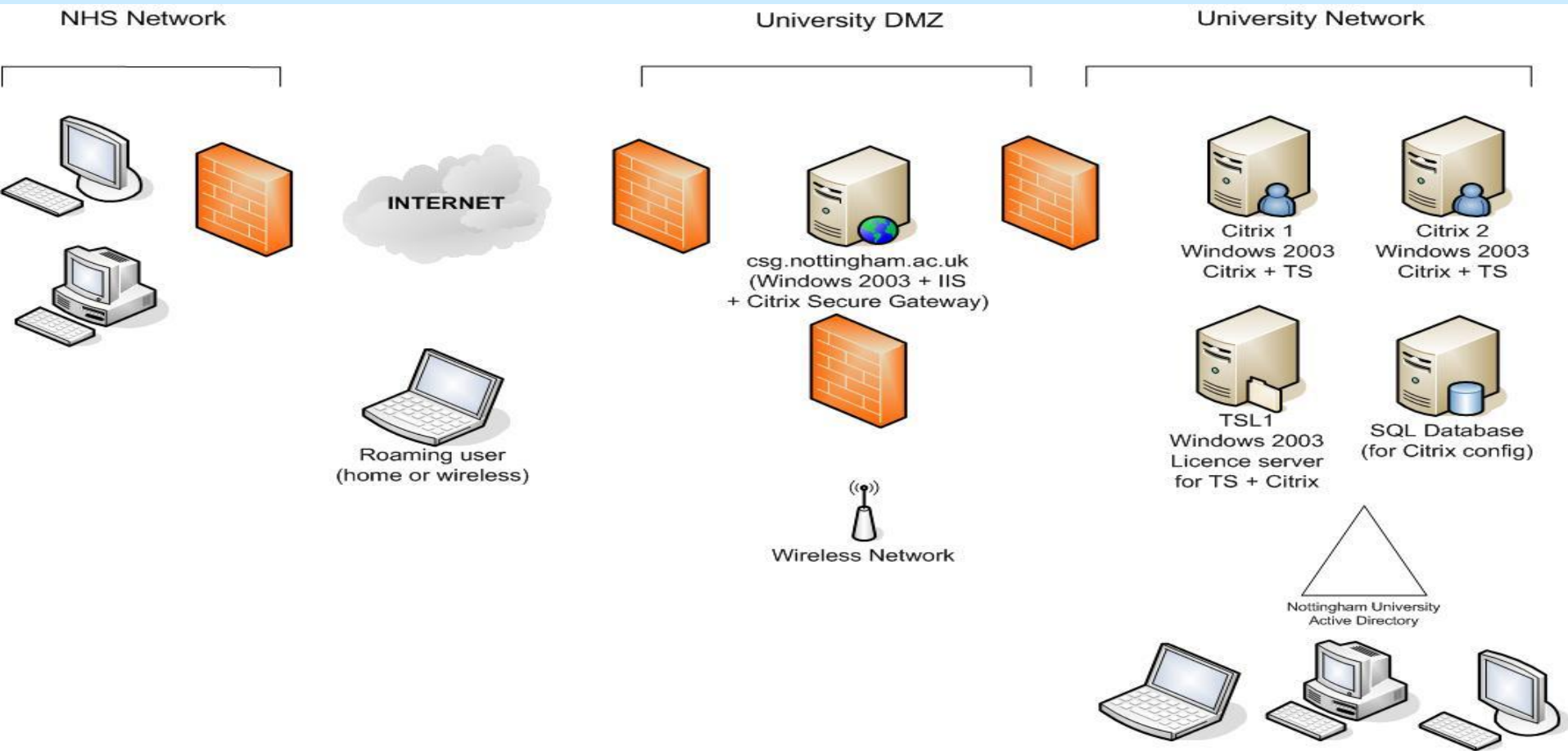
Technology

- Nottingham CITRIX Presentation Server
- Active Directory backend for authentication and Group Policies
- Applications published via 'Public' Internet & JANET to NUH PCs

Structure of the UoN Setup

Diagram showing: **NHS Network** | **University DMZ** | **University Network**

NHS Network: desktop computers with firewall, connected via INTERNET (cloud), Roaming user (home or wireless) laptop.

University DMZ: firewall, csg.nottingham.ac.uk (Windows 2003 + IIS + Citrix Secure Gateway) server, firewall, firewall, Wireless Network.

University Network: Citrix 1 Windows 2003 Citrix + TS, Citrix 2 Windows 2003 Citrix + TS, TSL1 Windows 2003 Licence server for TS + Citrix, SQL Database (for Citrix config), Nottingham University Active Directory, client computers.
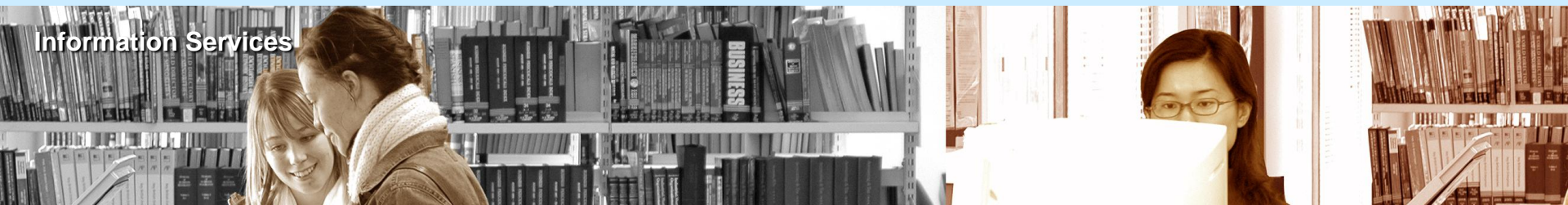
Demo Movie

Challenges

- Technical
  - Very FEW on UoN side
  - Some Proxy config changes required on NUH side
  - Provisioning and defining the Service
 - What happens beyond NUH ?

Challenges

- Political
  - Very FEW on UoN side
    - Identifying potential & actual customers

  - Liaison with NHS colleagues
    - Gaining and maintaining contacts
    - Understanding NHS !
      - Priorities (national applications etc.)
      - Structures (seem to be changing regularly !)
      - 'rules'
      - Agreement to **reciprocal service provision**

- Liaison is presently still difficult and an ongoing challenge
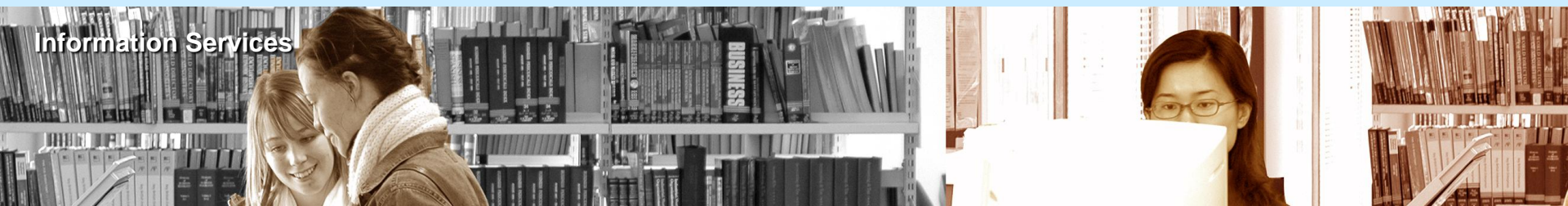
Summary

- UON have a service to offer within NUH
- NUH have agreed to support this service via installation of the ICA client
- NUH have yet to offer a reciprocal service
  - Work ongoing on this (see challenges)