

# Experience of architecture within the NHS London LSP Project

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# Overview

- The NHS National Programme for IT
- Spine
- London

*The information in this presentation is in the public domain, as it has been taken from the Connecting for Health website*

# The National Programme for IT

The new IT infrastructure will link many different computer systems across the NHS in England and deliver:

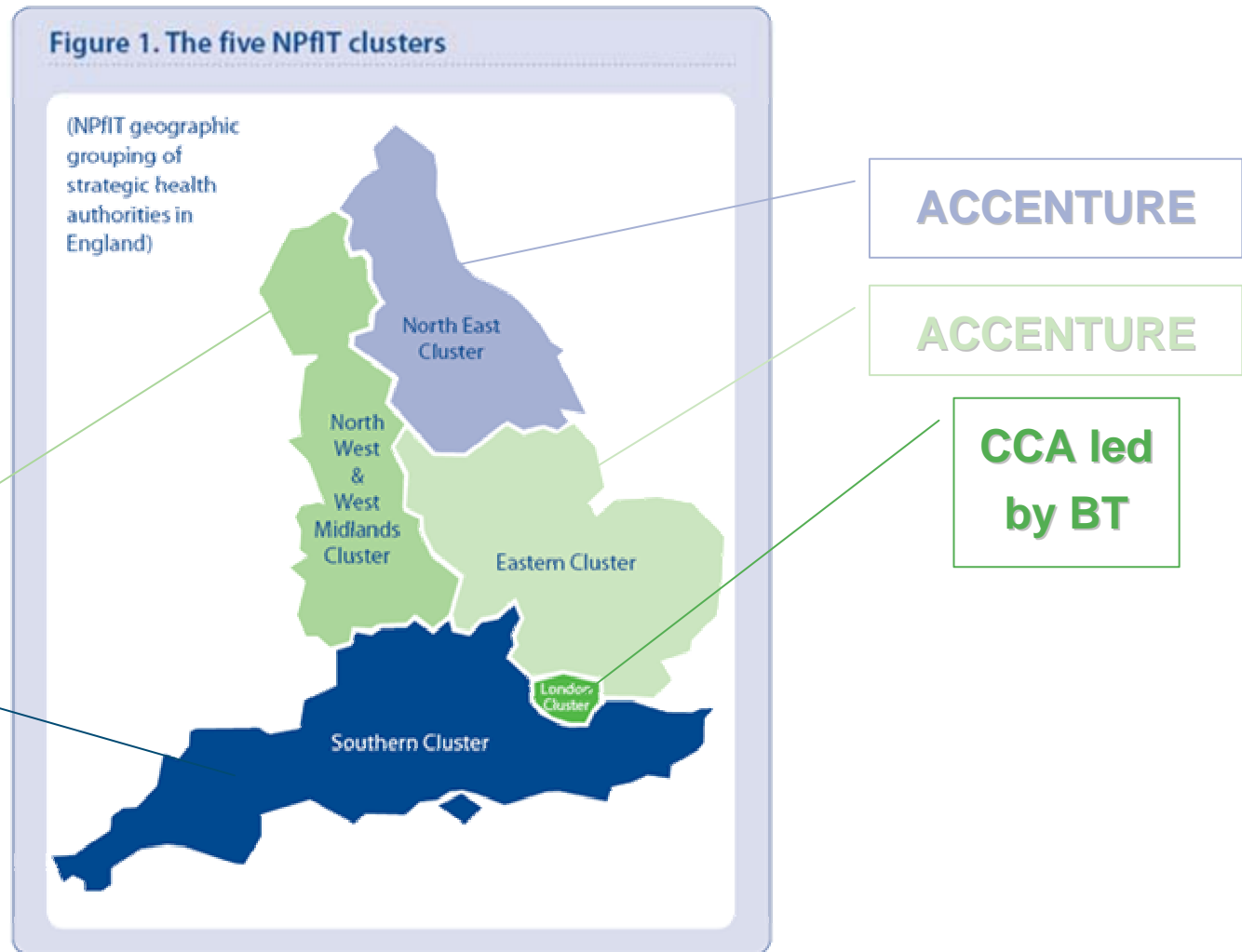
- the NHS Care Records Service (NHS CRS)
- Choose and Book, an electronic booking service
- a system for the Electronic Transmission of Prescriptions (ETP)
- a new national broadband IT network for the NHS (N3)
- Picture Archiving and Communications Systems (PACS)
- IT supporting GP payments, including the Quality Management and Analysis System (QMAS)
- Contact – a central email and directory service for the NHS.

# NHS CRS

The design and roll-out of the NHS CRS has been organised into two parts:

- Services that are common to all users nationally will be the responsibility of the National Application Service Provider (NASP).
- Services delivered at a more local level will be the responsibility of the five Local Service Providers (LSPs). The Local Service Provider (LSP) for London is Capital Care Alliance (CCA) led by BT.

# Who will deliver CRS where



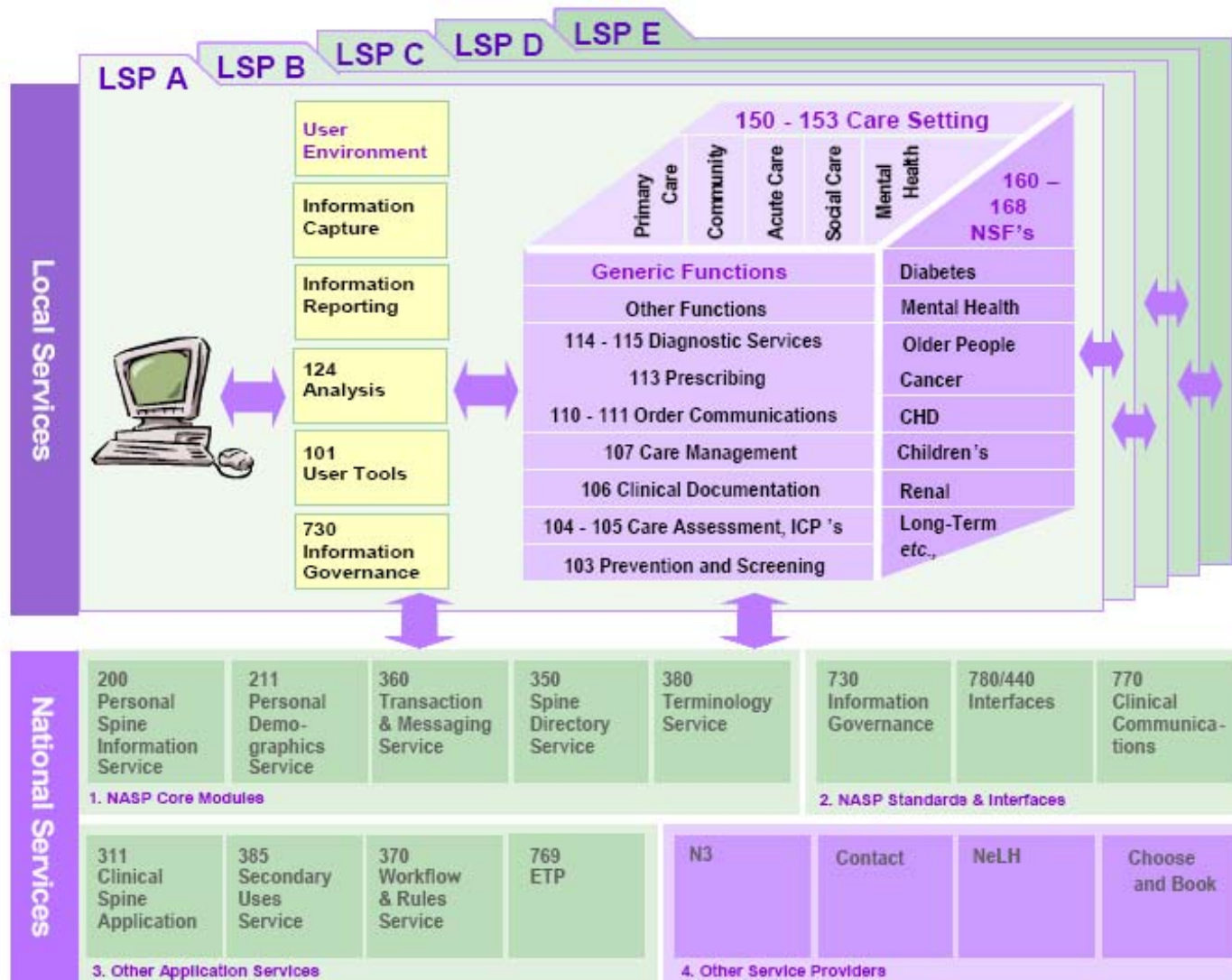
**The Five NPfIT Clusters: (NPfIT's geographic grouping of Strategic Health Authorities in England)**

# LSPs

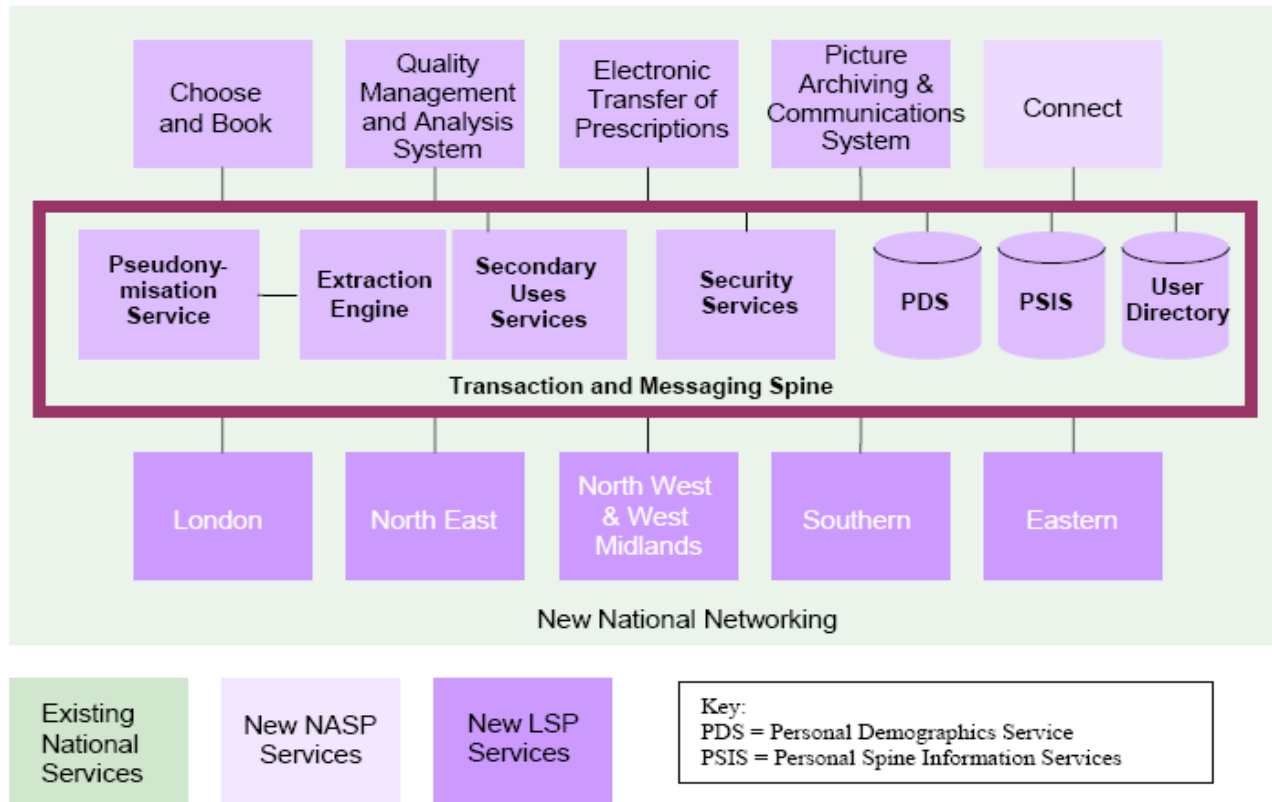
Local Service Provider contracts have been awarded to:

- Accenture in the North East Cluster, worth a total of £1099 million (8 December 2003)
- Capital Care Alliance (CCA) led by BT in the London Cluster, worth a total of £996 million (8 December 2003)
- CSC in the North West and West Midlands region worth £973 million (23 December 2003)
- Accenture in the Eastern Cluster, worth £934 million (23 December 2003)
- The Fujitsu Alliance in the Southern Cluster, worth £896 million (26 January 2004)

# Logical Architecture



# Application Architecture





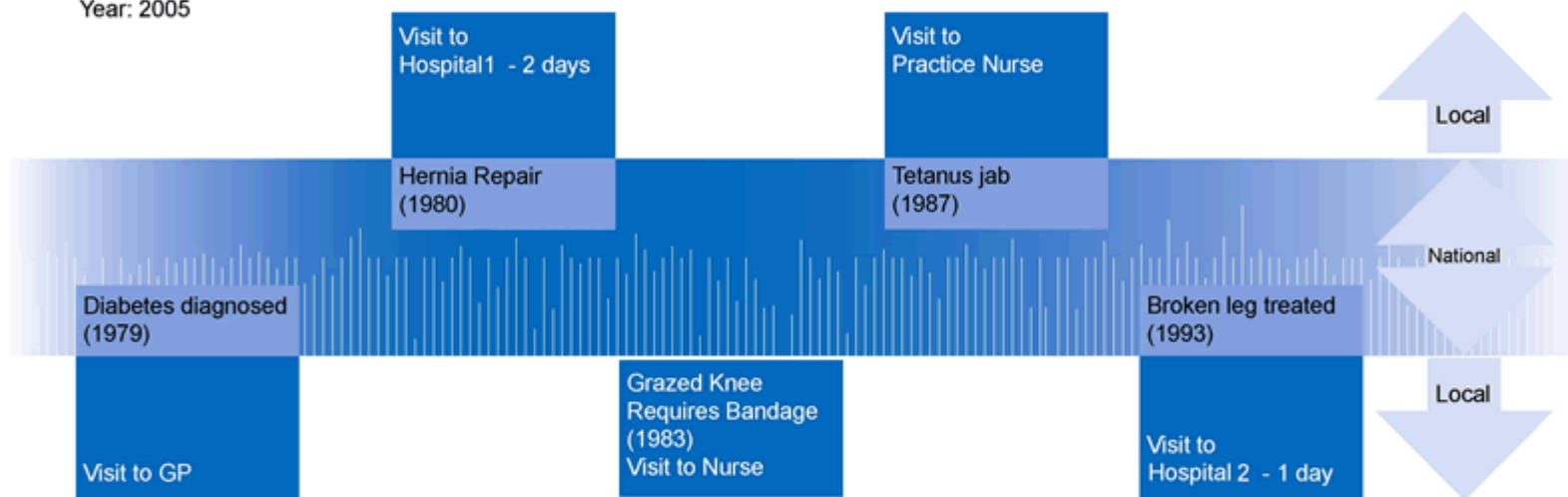
# National Services

- The PDS is the central source of patient demographics. It holds typical information such as NHS number, name, address, date of birth.
- The Personal Spine Information service will be the central database containing clinical records on each patient.
- The transaction messaging service is a message transfer service to allow clinical messages from NHS CRS users to be securely routed to the service they are requesting.
- Choose and Book allows GPs and other primary care staff to make initial hospital or clinic outpatient appointments.
- Secondary Uses Service will provide timely, anonymous patient data for purposes other than direct clinical care.
- ETP will allow prescriptions generated by GPs to be transferred electronically from their surgeries to local pharmacies.
- The Clinical Spine Application will provide healthcare professionals with access to the NHS CRS to gain controlled access to patient information provided by the PDS and the PSIS.
- The Spine Directory Service comprises a master source of information about accredited users and systems.

# Care Record

## NHS Care Record

Patient X NHS Care Record National and Local  
NHS No: 000 000 0000  
Year: 2005



# London

- 7.2+ million citizens
- 150,000+ staff
- 43 hospitals
- 1,660 GP practices
- 13 care communities

# Capital Care Alliance (CCA)

- Leading consortium
- Change Management
- Best Practice – Process Design

- Care Record Service System
- Implementation support

- Implementation
- Best Practice – Local Implementation
- Design and Change Management

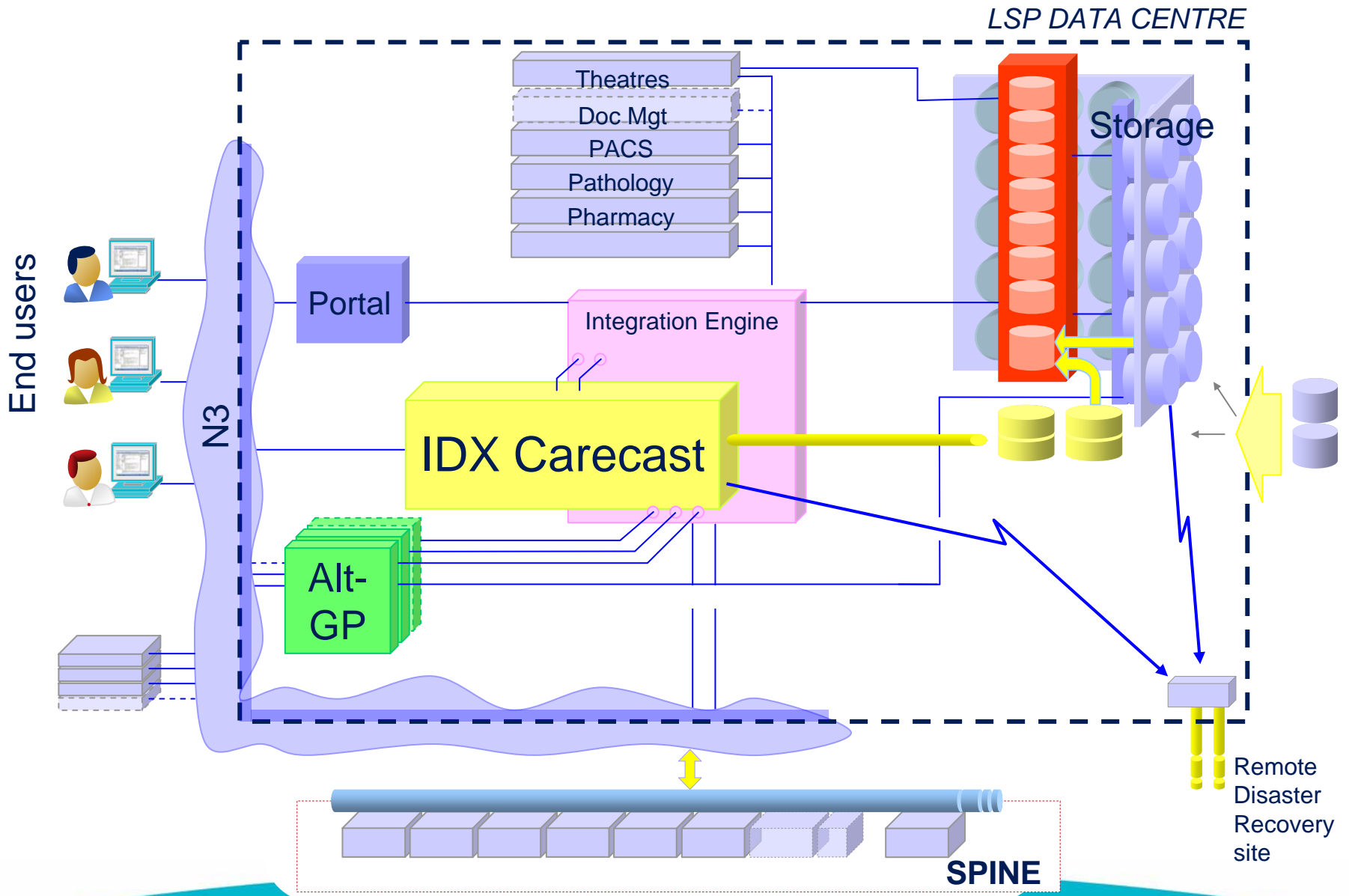
- Portal designer



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# Information Governance

- Strict authentication for logging onto the system
- Access to the patient's record restricted to care professionals who have what will be called a legitimate relationship with them e.g. their GP
- Role based access will also ensures that care professionals only have access to as much information as they need to know
- Patient sealed envelopes will become available where people can place sensitive information

# Closing

- Just under two years into the programme
- As a result of delays to the new systems for London's NHS interim systems are being introduced to meet immediate business needs (e.g. RiO for mental health)
- 766 deployments (to 6 September 2005)