

## David Rodrick

Industry Liaison Manager

NHS Information Authority

"People of the same trade seldom meet together, even for merriment and diversion,





but the conversation ends in a conspiracy against the public."

Adam Smith, The Wealth of Nations

Adam Smith, professor at University of Glasgow - where I studied

### NHS

#### Our Environment over a week!

- I.4 million people will receive help in their home from the NHS
- 6.0 million people will visit their GPs
- More than 800,000 people will be treated in NHS hospital outpatient clinics
- 700,000 will visit a NHS dentist for a check-up
- NHS district nurses will make more than 700,000 visits
- Over 10,000 babies will be delivered by the NHS
- NHS ambulances will make over 50,000 emergency journeys
- NHS Direct nurses will receive around 25,000 calls from people seeking medical advice



#### And....

- Pharmacists will dispense approximately 8.5 million items on NHS prescriptions
- NHS surgeons will perform around 1,200 hip operations, 3,000 heart operations and 1,050 kidney operations.
- Labs and associated services will provide results on millions of tests.

This equates to roughly 3 Million critical processes per day. If totally supported by a single electronic records system, this would result in approximately 30 million new transactions per day on a 24 hour, 7 days a week basis.

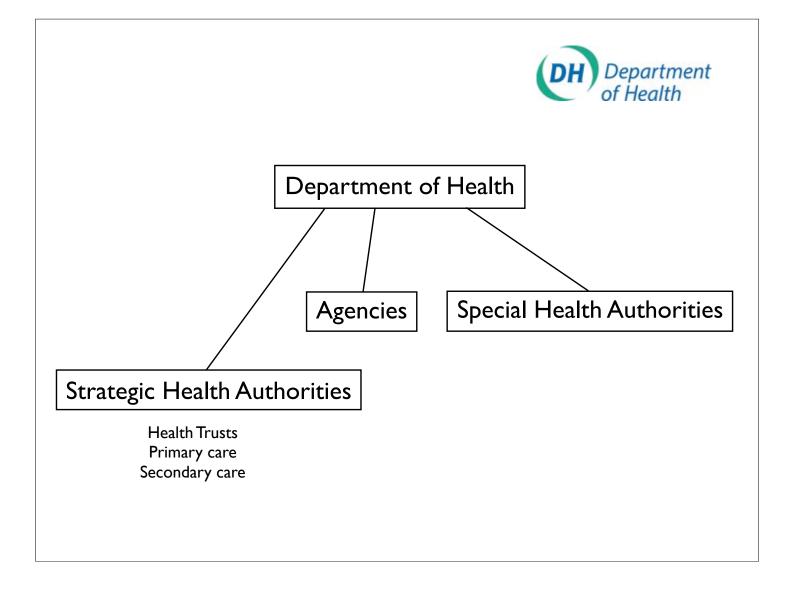
#### **Environment**



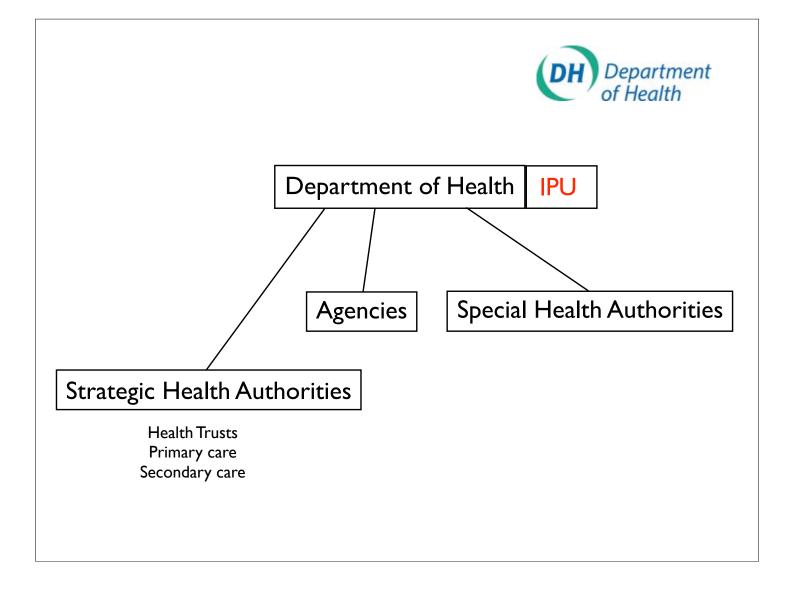
- Decades of chronic under investment.
- An appreciable loss of confidence in the ability of the NHS to implement IT successfully.
- A lack of unequivocal leadership commitment to making IT support patient care and improve services.
- And, the sheer difficulty of translating a national strategy into local implementation across a complex matrix of local organisations and patient centred services.

#### The beginning

- Strategy document "Information for Health"
- Written by Frank Burns, CEO of the Wirrall Hospital in 1997/8
- Five year strategy to run from 2000 2005
- Available at http://www.nhsia.nhs.uk/def/pages/ info4health/contents.asp
- or PDF from the Department of Health web site (http://www.dh.gov.uk)



NHS not a single organisation. All health authorities are separate legal entities. This makes a difficult market for companies to break into – where do they start?

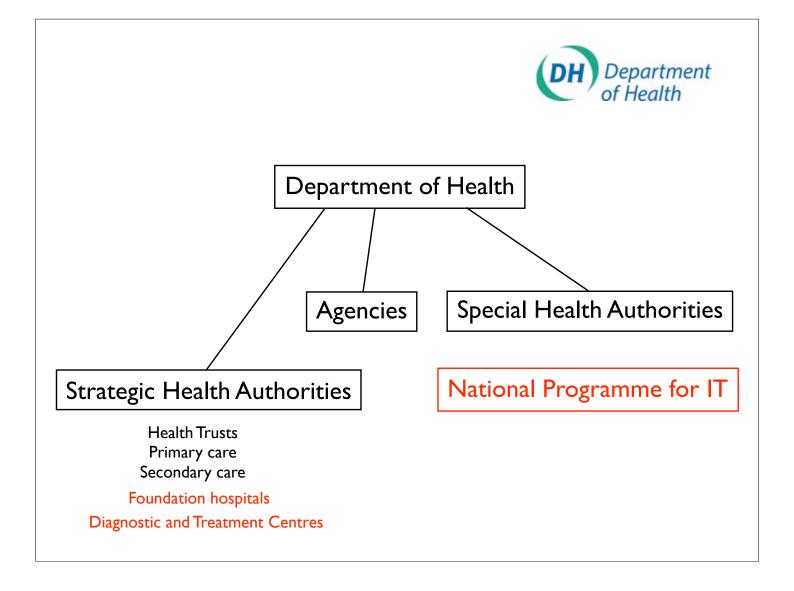


Frank Burns plan created the Informaqtion Policy Unit in the Department of Health and created the NHS Information Authority as a Special Health Authority.



Strategy "Information for Health" led to an overloaded market for patient information systems

"There will be more than one and fewer than five" suppliers – Sir John Pattison, Director of Research and Development, Department of Health at the Healthcare Computing conference, March 2002



Foundation hospitals have great freedom from central control. They achieved that status by scoring highly on a number of service criteria, waiting lists, patient satisfaction etc.

Problem of cancelled operations due to resources being used by emergency cases. Diagnostic and Treatment Centres have been set up to overcome this – facilities cannot be 'hi-jacked'. Some centres are privately run, some by the NHS.

National Programme based in Leeds. Not a legal entity, staff employed by the Information Authority.



# Information Authority

(www.nhsia.nhs.uk)

- Does national IT things e.g.
  - NHS Data Dictionary
  - Standards (CENTC251 WG3, BSI IST/35, ISO TC215 WG3
  - Patient identification
  - dm+d (www.dmd.nhs.uk)
  - ECDL (www.ecdl.nhs.uk)

dm+d - Dictionary of medicines and devices.

Also things like SNOMED/CT.

The National Programme was set in motion by IA and Department of Health.



Prime Service Providers Prime Service Providers

Application Providers Application Providers

"Niche" suppliers "Niche" suppliers

The original plan – a number of Prime Service Providers, each offering a product or products from one or more application providers. PSPs would not have applications of their own, but me management/implementation organisations.

Niche providers would have products that added value to the layer above. Not necessarily small companies, e.g. Veritas for disaster recovery.

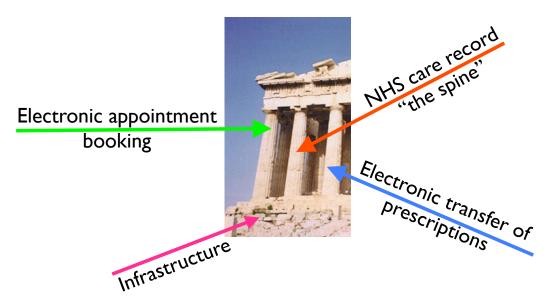




The Greek Temple

Image © Historylink101.com

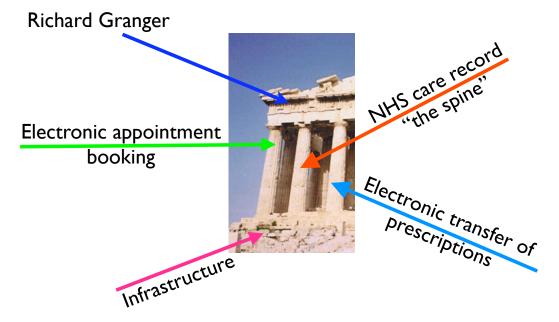




The Greek Temple

Image © Historylink101.com





The Greek Temple

Image © Historylink101.com

Richard Granger took up his job in October 2002. Previous job - setting ujp the IT infrastructure for the London Congestion Charge.

#### Infrastructure

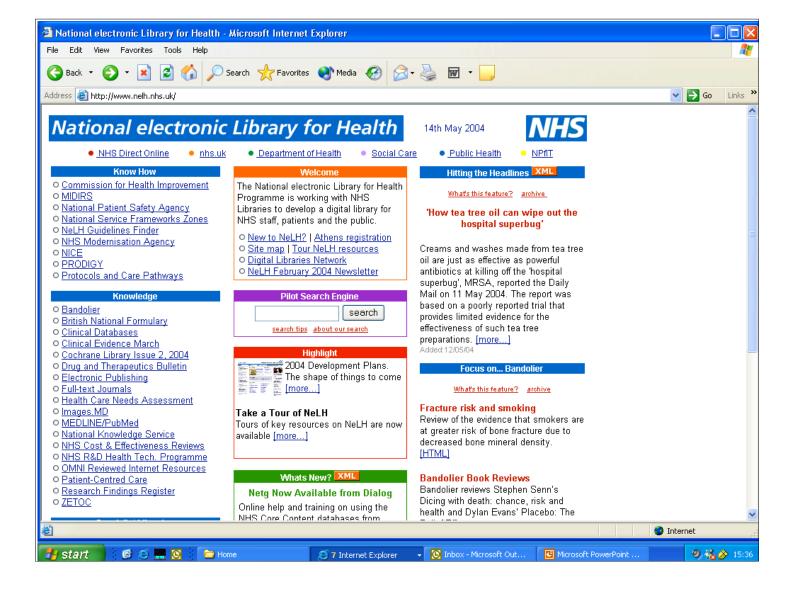
- National electronic Library for Health (www.nelh.nhs.uk)
- NHS mail and directory
- N3 replacement for NHSnet
- nhs.uk

NeLH part of Frank Burns's plan. Set up as a pilot in 1999/2000

nhs.uk probably not infrastructure, but it is an award winning information service for the public.

### Infrastructure

- National electronic Library for Health several contracts covering hosting, content etc.
- NHS mail and directory contract with EDS terminated. Advertised in OJEU
- N3 replacement for NHSnet contract awarded to BT
- www.nhs.uk



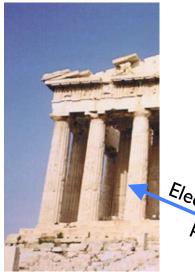
'Know how' is a set of resources, e.g. National Service Frameworks.

Knowledge is an information bese, includes for example the Cochrane Library, British National Formulary. Some content only available to registered users for contractual reasons.

"Hitting the Headlines" is a critical review of healthcare information that has been in the press.

Off the bottom of the screen, the 'special collections', e.g. on cancer, heart disease, healthcare management.





Electronic transfer of

The Greek Temple

Image © Historylink101.com

### Electronic transfer of prescriptions

- From family doctor to pharmacy
- PDF 417 trial in 1993/4
- Later trials sponsored by the Primary Care Division of the Department of Health
- Funding for three trials
- Funding stopped at the end of the term

Electronic appointment booking



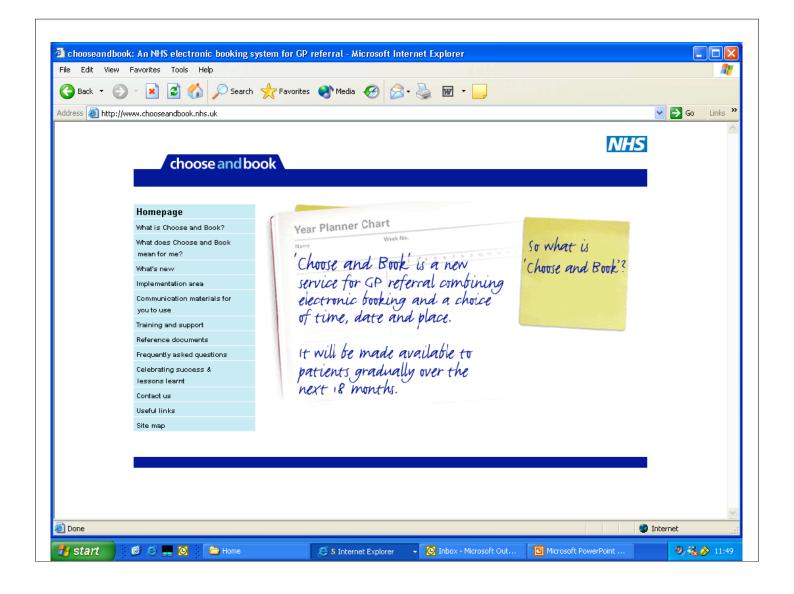
The Greek Temple

Image © Historylink101.com

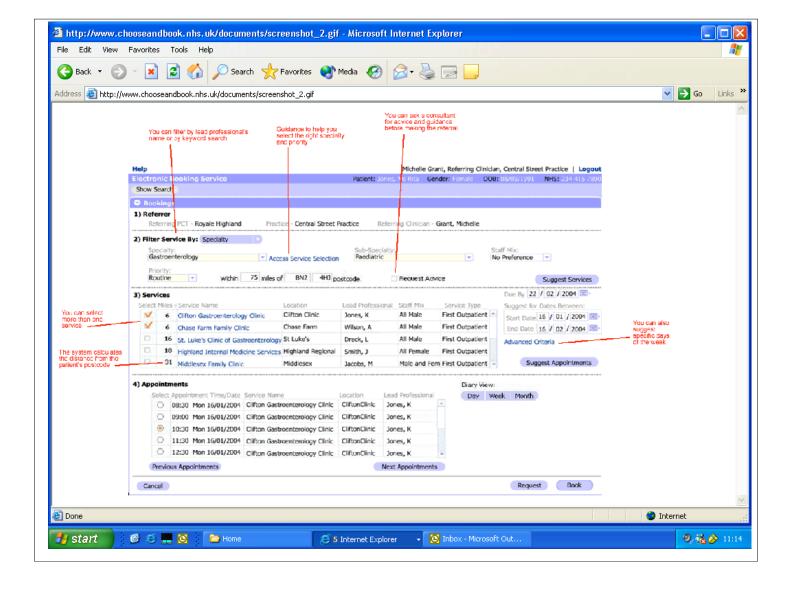
#### Electronic booking of appointments

- First one in England in 1992/93 (London)
- Web based trial in Birmingham (c 1998)
- National Programme contract awarded to Schlumberger Sema (now Atos Origin)

PDF417 trial ariund 1994



http://www.chooseandbook.nhs.uk





The Greek Temple

Image © Historylink101.com

#### NHS Care Record

- Originally Integrated Care Record Service
- Output based specification available at http:// dh.gov.uk/PolicyAndGuidance/ InformationTechnology/ NationalITProgramme//fs/en

ICRS specification started in the IA, then moved to the Design Authority, part of the National programme.



Local Service Providers

**Application Providers** 

"Niche" suppliers

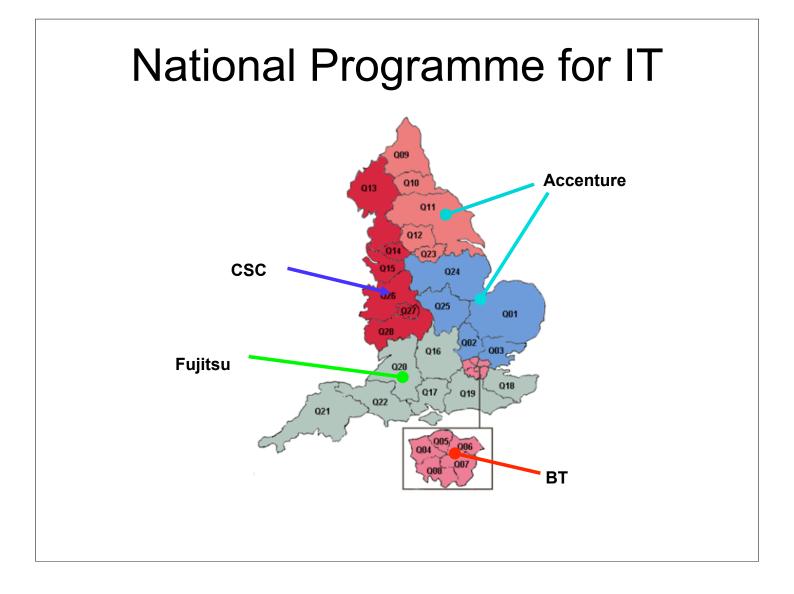
National Application Service Providers

"Spine" - BT

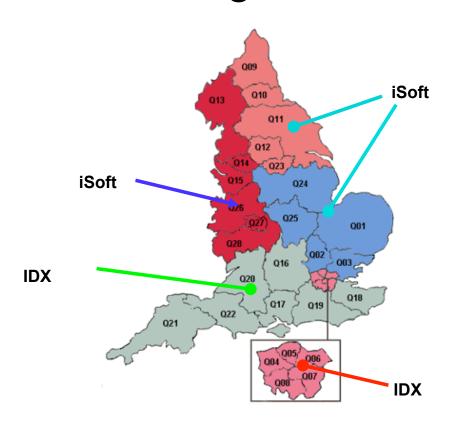
Electronic
Appointments Schlumber Sema, now
Atos Origin

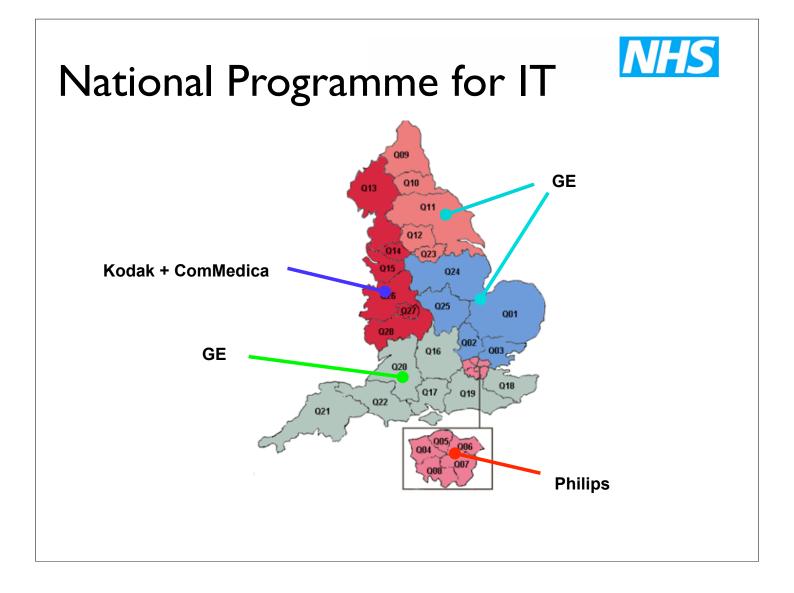
England divided into five regions, each with its LSP. Each LSP has an application provider for electronic records, from which data for the spine is extracted.

Electronic Transfer of Prescriptions not yet contracted for.



London and the North East the first cintracts in place. The last was the South.





Each LSP will provide a PACS system in its region. No compulsion on trusts to accept this, though financially better to do so.



- Contact with industry through Intellect
- Contact with SMEs through UK eHealth Association SME Special Interest Group
- UK eHA SME SIG represented on NPfIT Supplier Consultation Group
- AIM UK Healthcare SIG



- British Computer Society HISG
- ASSIST
- UKeHA

#### The future

- "Arms length Bodies" to be reduced by 50%
- Staff reduction of 25%
- £5,000,000 savings to go to patient care

CHI - Commission for Health Improvement

CPPIH - Commission for Patient & Public Involvement in Health

CRHP - Council for the Regulation of Health Care Professionals

DPB - Dental Practice Board

DVTA - Dental Vocational Training Authority

FHSAA - Family Health Services Appeals
Authority

GSCC - General Social Care Council

HDA - Health Development Agency

HFEA - Human Fertilisation & Embryology
Authority

**HPA** - Health Protection Agency

MHAC - Mental Health Act Commission

MHRA - Medicines & Health Care Products
Regulatory Agency

NBA - National Blood Authority

NBSB - National Biological Standards Board

NCSC - National Care Standards Commission

NCAA - National Clinical Assessment Authority

NHS AC - NHS Appointments Commission NHS CFSMS - NHS Counter Fraud & Security

Management Service

**NHS Direct** 

**NHS** Estates

NHS IA - NHS Information Authority

NHS LA - NHS Litigation Authority

NHS Logistics Authority

NHS Modernisation Agency

NHS PASA - NHS Purchasing & Supplies
Authority

NHS PA - NHS Pensions Agency

NHS Professionals

**NHS** University

NICE - National Institute for Clinical Excellence

NPSA - National Patients Safety Agency

NRPB - National Radiological Protection Board

NTA - National Treatment Agency for Substance Misuse

OIR - Office of the Independent Regulator of NHS Foundation Trusts

PHLS - Public Health Laboratory Service

PMETB - Postgraduate Medical Éducation & Training Board

PPA - Prescriptions Pricing Authority

**ROC - Retained Organs Commission** 

**UKT** - **UK** Transplant

Some bodies already eliminated or changed.

Some functions will have to remain in some form or another, e.g. National Blood Service, NHS Direct (a telephone based, nurse-led triage service)



"Fasten your seatbelts - it's going to be a bumpy ride"