

Presented by:

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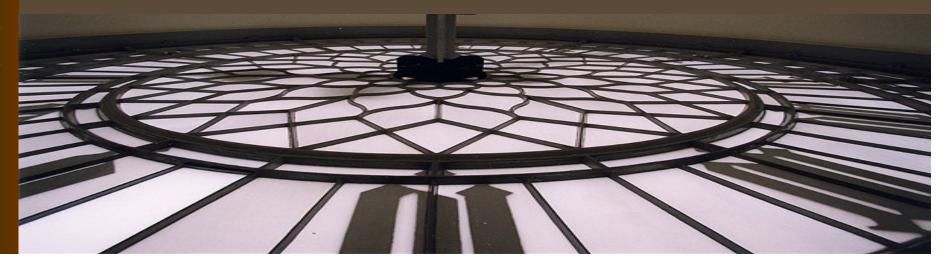


Parliamentary ICT

PICT is a joint service for the Houses of Parliament and we aspire to give an excellent professional service to both Houses.



We are Business Partners building the Information Technology Services, Communication and the Infrastructure to enable Parliament to work effectively and Connect with the Public.



A Member's day ...



...arrives at parliament, (& uses the Security Pass Access System)



buys a cup of coffee, and makes payment (using the EPOS system, which in turn integrates with the stock control systems)



collects Official Report, Order Paper, and Vote Bundle for day's proceedings, (created overnight using Procedural Applications)



Attends Chamber or Committee, where proceedings are recorded and transmitted (using Hansard Reporting applications & webcasting)

Goes in office, equipped with facilities and furniture (maintained using Accommodation Systems), sends emails, asks PQs, tables EDMs and makes telephone calls (using equipment provided & maintained by PICT and Procedural Applications such as e-Tabling)

Meanwhile...

- Researchers may be using Library Applications
- Constituency staff may be connected remotely to the Parliamentary Network and systems
- ❖ A Member's staff may be receiving IT training.
- Finance is processing a Member's expenses
- ❖ A Member can be receiving email communications via new Mobile PDA technology.
- ❖ The General Public may be accessing publications via the Parliamentary website.

PICT Services

<u>Procedural Services</u> (Clerks & Official Report)

PQs, EDMs, Vote Bundle, Bills, Hansard, Select Committee Reports

> (Modernisation Committee Outcomes)

Knowledge Services (Libraries)

Research,
Papers,
Statistics,
Public Information,
Education facilities

<u>Direct ICT Services</u> (PICT Service Desk & Members' Computer Officers)

Estate & Constituency Connectivity & equipment Mobile PDA Devices IT Training Fault Reporting <u>Corporate Services</u> (Serjeants, Refreshments, Works, Finance & HR)

Accommodation & Repairs
Security
Refreshments
Expenses & Finance
Occupational Health, HR

(Refreshment & Accommodation Committee outcomes)

Provided by ICT applications:

Framemaker,
Hansard Application,
Microsoft Templates
Web Apps for PQs



PAD, Archibus, Access Control System, Agresso

PIMS, Lexis Nexis,
Internet website

Network, PCs, Laptops, MS Desktop, Printers, VPN, Citrix, Telecoms

Parliament in Context

- Old Institution
 1295 Edward 1 Model Parliament (711 year old business processes)
- Structure Commons
 - Clerks
 - ❖ Library
 - Serjeant at Arms

Lords

- Clerks
- Library
- Black Rod
- PICT = 9 IT & IS departments into 1
- PICT 'central' but Business 'federal'
- Some parliamentary procedure in "Norman" French

What Braithwaite said....

- "IT a source of considerable dissatisfaction..."
- "Quality of IT Service has a direct and increasing influence on the ability of the house administration to perform effectively..."
- "...Difficult to deal with issues of organisation, given the constraints of the federal structure"
- "The current management arrangements are complex..."
- "Progress has been painfully slow under the federal structure"





... and what happened until today

Braithwaite 1 Braithwaite 2 Cummins Programme PICT Launch Benefits

1999 2001 2003/4 2004 2006 2007

What Braithwaite did not address:



- Strategic management at a Board levelModel acceptable for Both Houses
- Unification of Departmental and Central Systems
- Therefore... the need for the Cummins Review



1999
Decentralised provision of Desktop Equipment



2001/2 Centralised provision of kit Extended Helpdesk Hours



2003 Windows 2000 Upgrade ISP/VPN -Broadband



2004

E-mail Spam Filtering Web casting SSL/VPN – via Internet



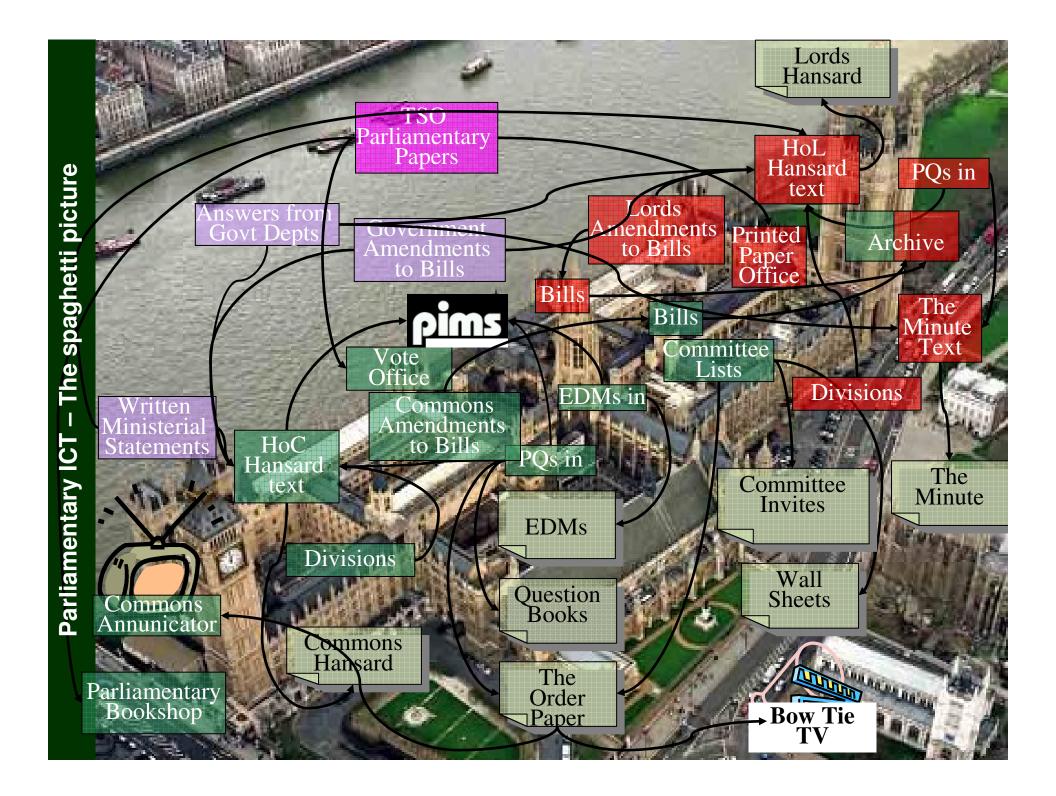
2005/6 Members IT PC/Laptop refresh

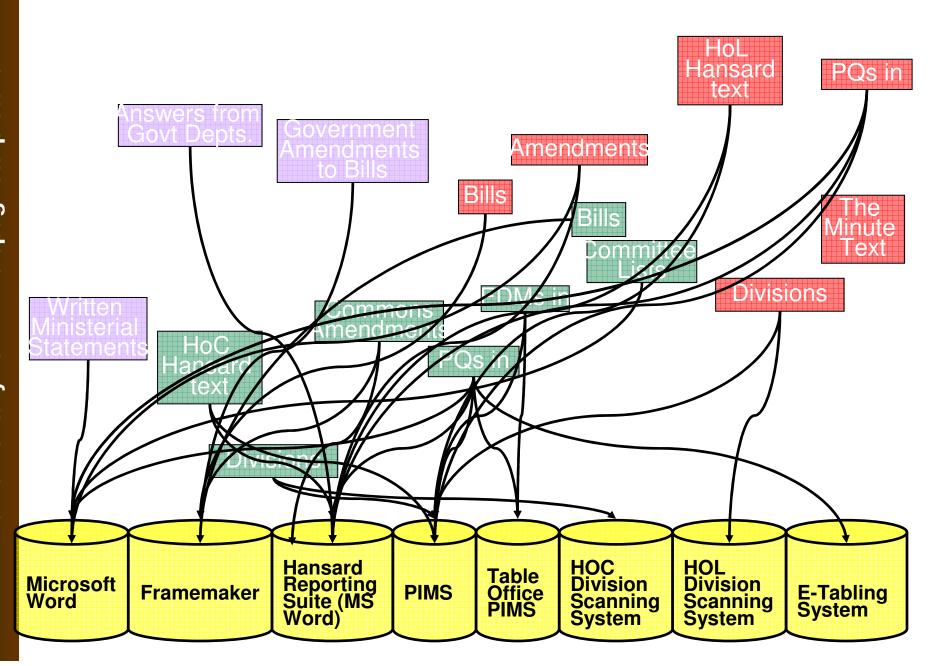


2006 Mobile computing Wireless Network



2007 Extended hours support constituency services

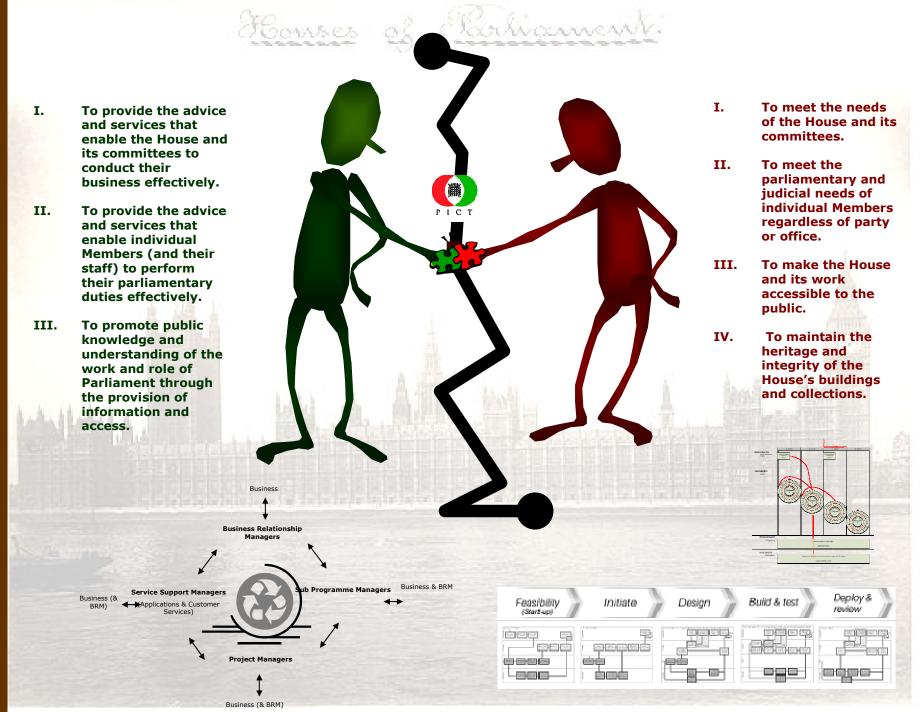


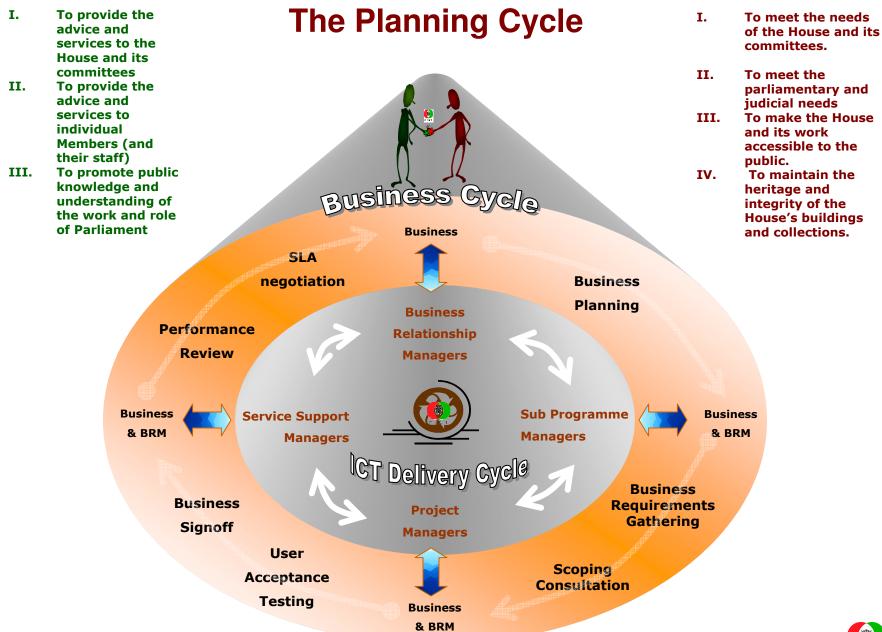


Problems for IT in Parliament

- Duplicate, re-keyed & redundant data
- Everyday language v parliamentary language not intuitive
- Search for information problematic 'where do I look?'
- Inadequate & difficult search capability on intranet & internet
- Everyday language v parliamentary language not intuitive
- Metadata patchy, incomplete and from different schemas
- Many 'stovepipe' systems each bit of the stovepipe solving a different problem
- Internet infrastructure 5yr old SW & HW
- ❖ Non existent or inadequate & inappropriate documentation
- Inadequate knowledge spread too much in few individuals
- Inconsistent user interface design
- Lack of appropriate resources
- Unpredictable effects of change
- Poor communications
- Little standards compliance
- Immature configuration management
- Inadequate development environment





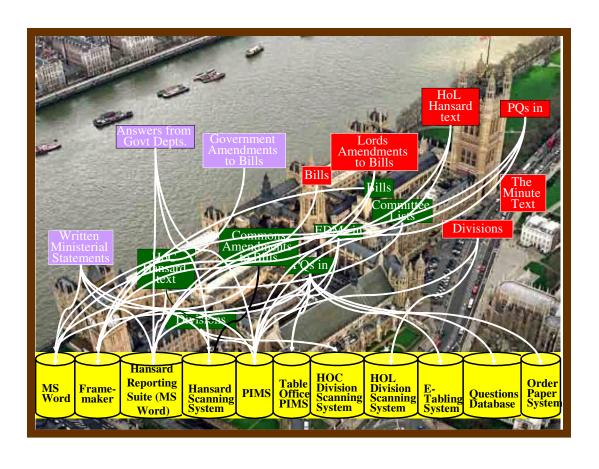


What we need to know:

- ❖ Is the current architecture supporting and adding value to Parliament?
- How might our architecture be changed to add more value to Parliament?
- Will the current architecture support or hinder what Parliament wants to accomplish in the future?



As-Is Model



The Future Model

- Untangles the Spaghetti
- Shows requirements being met using tested components from the EA component portfolio, each of which delivers business value
- Demonstrates increasing maturity of the capability to deliver what is required



The Migration Plan:

- ❖ A road map from As-Is to the Future Model
- Implement incrementally
- Deploy technical infrastructure as needed to meet business requirements
- Implement across all 4 architectures



PN3 Stage 4

Single PN

Improving the Infrastructure...

Complete

Complete

2006 2007 2008 Technical Infrastructure Initial Strategy In Place Strategy First Phase Rollout Commences Continued Service Take Up Constituency Network & Support Strategic PN WIFI 8 Guest WIFI In Wireless Network (Inc RD WIFI) Rationalisation Project Rationalisation Pilot Completed Desktop AC 8 Server Rationalisation Complete Telecommunications Dual Resilient Parliamentary Voice Network in Place Parenting **Telecommunications** Telephony Switch Recovery Contrac in Place Resilience Contract Server Virtualisation Work Server Virtualisation Server Virtualisation Work Complete Commences Remote Data Centre & Commence Procurement of Remote Disaster Recovery Solution in Place Full Disaster Recovery Data Centre Solution Commence Enhancements to Remote Remote & Mobile Enhanced Services Available 8 Mobile Solution Enhancements Further Enhancements to Parliamentary Estate Initial Upgrades to Parliamentary Parliamentary Estate Cabling to Cabling Complete Support Strategy & Designs Cabling New Voicemai & Operator Bureau Voicemail & Operator Solutions in Place Bureau Further Services Monitored -Basic Service Monitoring In Place Service Monitoring IT Asset Management in Place 8 up IT Asset Management to date Proposed of transition Roadmap of

We're undertaking a big re-organisation...

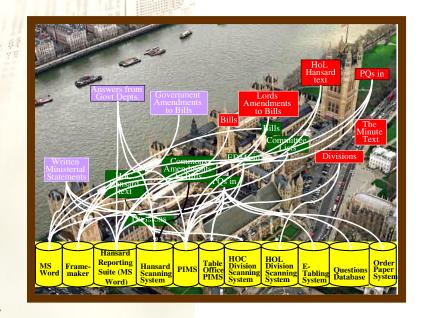
 ${\tt Parliament is} \ \, \textbf{Complex}$

Disjointed ICT across Parliament

Working in SIOS within Departments & Houses

A **confused** matrix of responsibilities

But... with a clear vision of implementing ICT Excellence and Efficiency



Parliament's Architectural Principles

- Principles are relevant to the business objectives and strategy
- They are constantly evolving, evaluated and refined
- The Enterprise Architecture will be built in accordance with our values:

Respect, Excellence, Accountability and Learning



What is a Principle?

- ❖ A principle has a name and description
- ❖ A principle has a rationale to be adhered to
- ❖ A principle has implications to be considered if followed
- A principle supports our values



Key Parliamentary Business Information Requirements

- Business Processes
 - Agile and flexible output
 - Cater for required timeliness
 - Highly diverse but low volume
 - ❖ Facilitate exposure of knowledge from silos
- Data
 - Single point of entry
 - Local representation catered for
 - Value appreciated
- Application
 - Interactive capability especially for facilities and asset management
 - Intranet based transactions
 - Timely and transparent transactions



Key Parliamentary Business Information Requirements

- ❖ Skills
 - Cater for skills and support availability
 - Facilitate the management of knowledge
- Others
 - Ensure value for money
 - Ensure legal compliance
 - Exploit the niche of Parliamentary business and processes



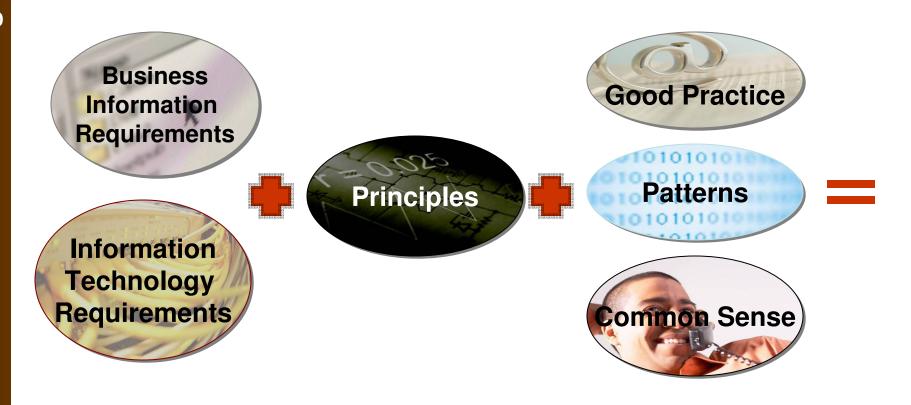
Parliamentary Information Technology Requirements

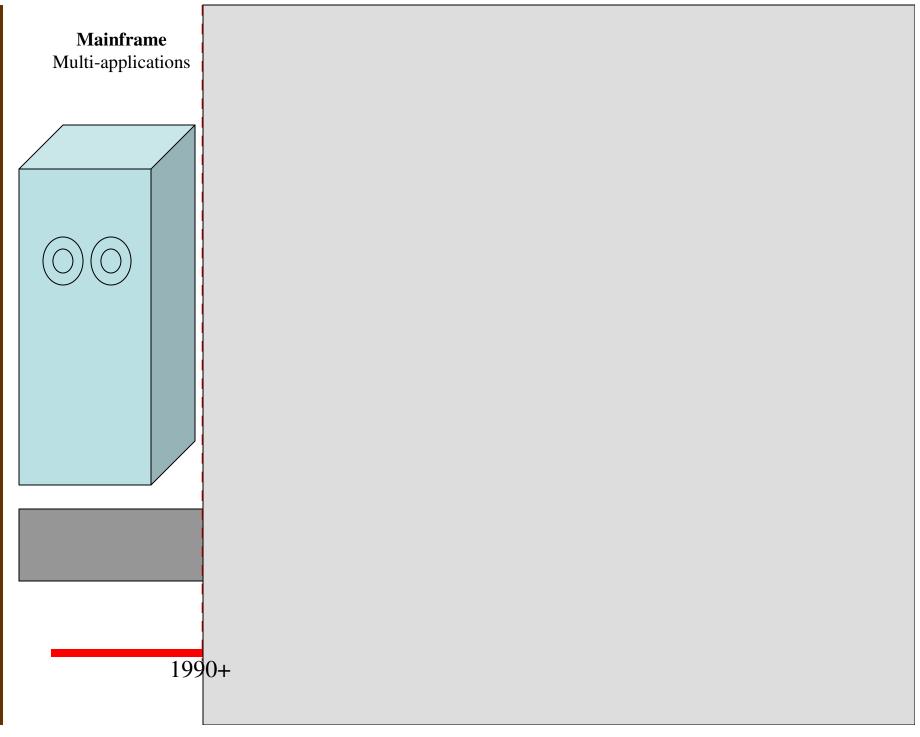
- Platform
 - Open standards based
 - Legacy adaptors for integration services
 - Web services
 - XML metadata
 - Publishing framework
 - Development and test environment
- Functionality
 - Coherent and consistent security
 - ❖ In excess of 95% availability
 - Validated and timely access to data, anytime, anywhere
 - Requirements management
 - Data replication and warehousing



...and then something happened

- Business Information Requirements
- Information Technology Requirements
- Principles
- Good practice, patterns & common sense





What is Service Oriented Architecture?

- A business process delivers combinations of services in pursuit of business objectives
- ❖ Some of these services involve the use of IT systems
- Usage of IT services may be made:
 Person to person (e.g. by telephone service desk)
 Person to machine (e.g. over the internet)
 Machine to machine (e.g. a scheduled file upload)
- Services are the components of a business process
- SOA An architecture that manages & supports the service lifecycle
- ❖ SOA enables delivery of the EA − it is built with components from the EA portfolio
- SOA services monitor themselves and supply performance metrics enables Business Activity Monitoring
- SOA facilitates Business Process Management

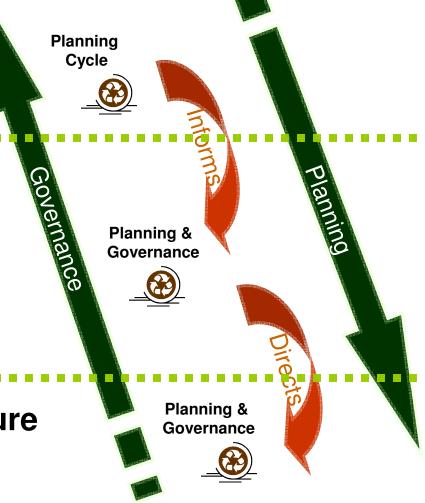
Parliament, EA & SOA



Values, Objectives, Strategies

Enterprise Architecture

Service Oriented Architecture





Vision & Timescale

2007

Key EA Infrastructure & Artefacts Requirements Management Key Web Services Initial Technical Services

2008

SOA Business System Integration Enterprise Service Bus – Specification, selection, migration & deployment Services identified & specified

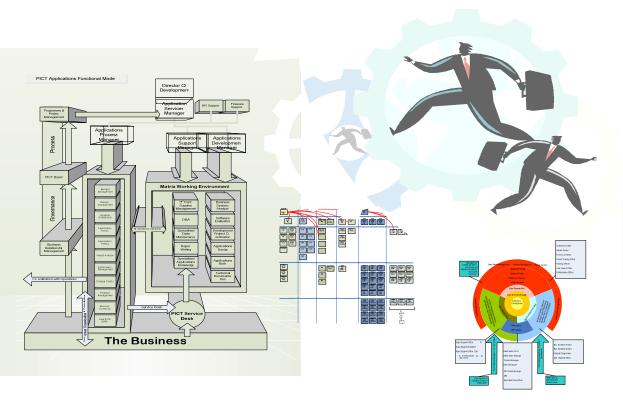
Mid 2009

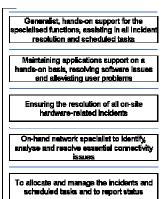
Complete SOA technical infrastructure
Service lifecycle management
EA integrated into the planning lifecycle
An 'actionable architecture'
Maturing EA, SOA & development capabilities

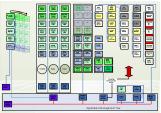


... application's resilience improvements

- Understanding the inherited organisation
- Evaluated the need to bring the teams together
- Managed a transition project
- Created a functional based model
- Creating a flexible future proof applications layer







Connecting with the Public

http://www.publications.parliament.uk/pa/cm200304/cmselect/cmmodern/368/36802.htm

Collaborating in the business led Internet Strategy to Inform, Promote Parliament, Listen.

Developed a Business Case* based on the Voice of the Customer, segmentation of audiences, usability research and Customer satisfaction tracking studies

Designed a programme of agile service delivery with a flexible and clear project governance structure

Identified and implemented Short Term Benefits to respond to the most immediate needs and planned Interim Improvements

We worked in Close partnership with other Parliamentary teams to develop a vision and a long term process of continuous improvement

We proactively keep looking for ways to explore new trends and **technological advances** such as Personalisation, and User knowledge management including acceptable channels to Listen to the Public

We have implemented a plan of Measurements and continual review of objectives, risks, evolving priorities, audience research, flexibility of releases and Management of Benefits

Governance, People, Performance, Plan

Governance

PICT Governance established:

- ✓ JBSB
- ✓ PICT Forum
- ✓ PICT Board
- ✓ Performance Board
- ✓ Programme Board
- ✓ Legislation

People

- ✓ Values & Culture
- √ Structure
- ✓ Development
- √ Skills Gap
- √ IiP accreditation

Performance

- ✓ Zero Base Budget
- √ Forward Plan
- **✓ Performance Dashboards**
- √ Gartner Benchmarking
- √ Service Level Agreements
- ✓ Action and risk logs

The Plan

Business plan 2006/2007

Business plan 2007/2008

Identify what to do first:

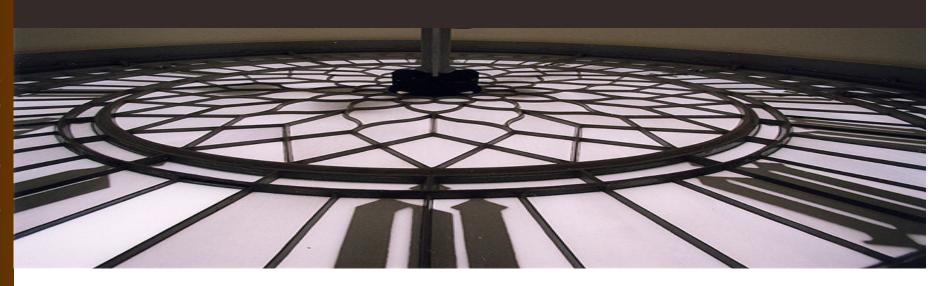
- ✓ Develop Programme
- ✓ CSII: Improve customer service
- √ CSII2: Improve service response
- √ Improve PICT internal processes
- ✓ Design Architecture
- ✓ CSII3 ITIL, Change Control
- ✓ Business Continuity
- ✓ Disaster Recovery
- ✓ Internet
- √ Strategy for Members' services
- ✓ Inventory
- ✓ Procurement
- ✓ 24/7 Support

Priorities:

- Completing the structure
- People into posts
- Construct budget
- Monitor, Learn, Improve



PICT aims to attain best practice in delivery, support and exploitation of ICT in Parliament



Enabling Parliament to work effectively and connect with the Public







