Interoperability Presentations
Assistant Director, Maewyn Cumming

New Directions in Government, London, September 2004
Pan-European Challenges, Zaragoza, June 2004
Interoperability in the UK: The e-GIF, Norway, June 2004
Thesaurus Workshop, London, June 2004
Interoperability Standards for UK eGov Strategy, Italy, May 2004
Building the GCL: Practical taxonomy design, London, March 2004
New directions in government

Maewyn Cumming
Assistant Director, Technology Policy

DIAMOND September 2004
The e-Government Unit

- Works with departments to deliver efficiency savings while improving the delivery of public services by joining up electronic government services.

- Provides sponsorship of Information Assurance.
Objectives

• E-enablement of services
  • To allow citizens and companies to serve themselves in their dealings with government

• To transform the delivery of front-line services
  • Projects underpinned by ICT

• Transform corporate services
  • ICT support to utilise shared services or outsource

• Improve secure access to services
  • Identification technologies, e.g. biometrics
Agenda

• Focus on services and projects, not on ICT in itself

• Understand people’s agendas and concentrate on government-wide teamwork

• Set a climate of internal competence

• Draw on global best practice
Standards

- Work in standards will continue, e-GIF will be developed and used more widely
- e-GIF sets out the government’s policy and standards for interoperability across the public sector
Thank You

Any Questions?

maewyn.cumming@cabinet-office.gsi.gov.uk
Tel no. 020 7276 3101
Pan-European Challenges

Working Group 5
eGovernment Workshop on Semantic Interoperability
Bronnoysund, Norway June 2004
Objectives

The workshop will contribute in the area of semantic interoperability by

- Describing state-of-the-art semantic interoperability in Europe by presentations of good practice
- Documenting identified and agreed principles, methodology and standards related to identification of data and metadata
Programme

Good practice examples – from five countries
Using standards to improve efficiency

Workshop sessions –

- Organizational aspects
- Theoretical aspects
- Technical aspects
- Implementation aspects
- Pan-European challenges
What issues for the Working Group?

“Mapping” between EU and national administrations
- Federation of registries through a common EU “standard”?

European Interoperability Framework
- Scope, methodology, governance

EU domain specificity
- “Subsidiarity principle”
- Hierarchy of norms
  - Example: ebXML (ISO 15000) > UBL (OASIS)
- Layered approach
Information Territory

Vocabularies: metadata, taxonomies, thesauri, ontology
Multilingualism (human and “non-human” languages)
Modelling Design Rules?

Identify “interoperability nodes”
Mapping?

Many administrations have similar issues:
- Civil registrations projects
- Legal registration systems (company ID, patents)

Are there common answers/approaches?
- OSCI/XMeld
- OASIS
- ...

What can EU contribute?
- A reference authority?
- Multilingual vocabularies?
Start small…?

Difficult to achieve pan-European consensus, at least as starting point

- Some cross-national projects exist already: can we build on them?

Do we have some starting points?

- Existing data standards that we can propose?
- Project proposal of a Enterprise Interoperability Centre?
- Idea of the "virtual eGovernment agency"?
- EIF?, IDA?...
Start small... (2)

Need for "buy in"

- Easy "on ramp": make start up and access easy...
- Economies of scale
  - Particularly for smaller countries or those with less-developed infrastructure
- Win-win scenarios
- "Incentive structures": carrots and sticks?
Governance

Do we need “government-style” governance, that is currently missing from IT?
Who will be the custodian?
Who will develop/manage the standards
Using the strengths and contributions of different levels and/or competencies of different authorities:

- ISO, CEN,…and EU?
- Consortia…
Governance (2)

How do we work with business?

Issues of IT security (ENISA?)

- Federated identity management and supply: "negotiation" between legal, policy, data protection, freedom of access questions
- Relationship between policy and technical infrastructure questions

Need for reference authority?
- Need for trust and assertion management
Where do we go from here?

Do we know where we want to get to?
Where do we start?
What?

- Quality Assurance
  - Semantic determinism – “is that what you mean?”
  - Data quality
  - Trusted authorities
- Cross-domain interoperability
- Understanding/agreement on standards to use
- Information re-use
- Simplicity at point of use
- Could we have it now please
- There is an answer…
What ? (2)

• Identity management
  • Seems to be the scenario most used
  • Multiple roles
  • Security (both for the systems and the user)

• Tool sets
  • Comprehensive versioning policies
  • Federated registries
  • Run-time security vs need for replication

• Clearly identified “interoperability nodes”
Who ?

• Who are the users?
  • Citizen as user
  • Gov service as user

• Authorities
  • Trusted agent role
  • Governing role
  • Reference role
  • EU as a “federator”: added-value layer
How?

Just do it!

• Start small
  - Make sure its scalable
• Best practice guidelines
• A forum for exchanging and advancing ideas
  - Virtual eGov centre?
• Public/private collaboration
  - Transparent platform
How (2)

• Reference authority (longer term aim?)
  • Carrots and Sticks: balance needed
  • A European data standards “entity”
  • Help “map” between different systems
• Give a clear direction for cooperation
  • Methodologies, processes, guidelines
• Assessment/Validation/Conformance systems
Follow up Requested

• Activity must not stop with this workshop
• Practical “low-key” follow up is most realistic
• Joint initiative CEC/CEN/OASIS
  (draft business plan exists)
  Could help lay basis for proposed virtual e-Gov Centre
• Extend cooperation
  Eg W3C Semantic Web Best Practices Group
• Project based approach?
Interoperability in the UK:
the e-GIF

Maewyn Cumming
Assistant Director, Technology Policy
Bronnoysund, Norway, 22 June 2004
The e-Gov vision (06/2000)
The e-Gov vision (06/2000)

• We are in the middle of an information revolution which is changing the way we work and live

• The UK to be at the forefront of the new global knowledge economy – this is vital for our future prosperity

• We must ensure that everyone in our society benefits from the new technology and economy

• But we need to change the way we think, operate and deliver services
Front Office – Direct Transactional Services

- Citizens & Business
- Local Authorities
- Departmental Systems
- Other Public sector systems

Multiple Access Channels
- DTV
- Mobile
- Call
- PC

Directgov
- Directgov

Government Gateway
- GSI
- Secure Intranet

Interoperable Government Systems
- Local Authorities
- Departmental Systems
- Other Public sector systems

Open Source
- e-GIF & Security

Private Sector Portals
- Portable

Central Infrastructure
- Portable

Local Authority Portals
- Portable
Standards - Why e-GIF?

• Joined-up Government needs joined-up information systems

• e-GIF sets out the government’s policy and standards for interoperability across the public sector

• Focuses on 5 aspects:
  Interconnectivity
  Data integration
  Access
  Content management
  Business Domains
e-GIF – headline decisions

- Adopts Internet and World Wide Web standards for all public sector systems
- Adopts XML as the key standard for data interchange
- Makes the browser the key interface for access and manipulation of all information
- Assign metadata to government information
- Adopts open, international standards that are well supported by the market
- Internet based implementation strategy through GovTalk website
e-GIF - architecture
e-GMS - metadata

- e-GMS based on Dublin Core with additional elements to support government information
  - Records management
  - Data Protection Act requirements
  - Freedom of Information requirements
  - e-Services
- Also see GCL, Data Standards, XML Schemas
e-GIF - implementation

• e-GIF is mandated for all UK public sector systems

• e-GIF Compliance Assessment Service
  Operated by NCC on behalf of eGU

• e-GIF Skills Accreditation
  NCC setting up new Accreditation Authority
GovTalk provides

- Interoperability and metadata standards
- XML schemas
- Government Data Standards Catalogue
- Government Category List
- e-Service Development Framework
- Change control procedures
- Discussion forum
- RFC and RFP on a global business
- Other ICT frameworks

www.govtalk.gov.uk
e-Government Unit

**Governance**
- e-Government Programme Board
- Interoperability Working Group
- Metadata Working Group
- Gov’t Processes Working Group
- Gov’t Schemas Working Group
- Smart Cards Working Group
- Industry Consultation Group (Industry & Government)
E-GIF - Next steps

- DOIs
- ebXML registry
- Semantic interoperability
- Geographic application profile
e-GIF – the international dimension

- European e-GIF
  Project underway to support pan-European services
  eGU representing UK
  Using UK e-GIF as basis
- eGU working with major standards bodies, eg BSI, OASIS, W3C
  chair OASIS e-Government Technical Committee
  chair OASIS Election & Voter Services Technical Committee
OASIS e-Government technical committee

- Approx 150 members to date
- Many governments and their agencies: UK, USA, Finland, Denmark, Germany, Netherlands, Belgium, Canada, Hong Kong, China, Japan, Malaysia, Korea, Australia, New Zealand
- ICT suppliers – small and large
- Members of other OASIS TCs and other standards bodies
- Individuals
UK e-Gov - next steps

- Develop Enterprise Architecture for whole of government
- Set standards for back office systems and infrastructure
- Ensure interoperability between back and front office
- Define future data architecture for government
- Develop shared service centres and self service facilities
Thank You

Any Questions?

maewyn.cumming@cabinet-office.gsi.gov.uk
Interoperability Standards for UK’s e-Government Strategy

Maewyn Cumming
Assistant Director, Interoperability Technology Policy
Office of the e-Envoy - Cabinet Office

E-Learning Results Summit
Sestri Levante, Italy, May 2004
Today’s Agenda

• UK’s e-government vision and strategy
• The e-Government Interoperability Framework (e-GIF)
• e-Learning technical standards
• Conclusions
e-Government Vision

• We are in the middle of an information revolution which is changing the way we work and live .... And we need to change the way we think about delivering services

• The UK to be at the forefront of the new global knowledge economy – this is vital for our future prosperity

• We must ensure that everyone in our society benefits from the new technology and economy
e-Government Strategy

- All Government services to be online by 2005 with key services achieving high levels of use

- At end 2002 we had 68% of services online

- OeE’s task is to provide the policies, legislation and programmes to make the above a reality
e-Government Interoperability Framework (e-GIF)

- Joined-up Government needs Joined-up Information Systems
  - e-GIF sets out the government’s policy and standards for interoperability across the public sector
  - Based on wide consultation and agreement
  - Updated every six months
e-GIF – Headline Decisions

- Adopts Internet and World Wide Web standards for all public sector systems
- Adopts XML as the key standard for data interchange
- Makes the browser the key interface for access and manipulation of information
- Assign metadata to government information
- Adopts open, international standards that are well supported by the market
- Internet based implementation strategy through GovTalk website
- e-GIF is mandated for all UK public sector systems
E-GIF architecture
Specifications for Business Areas

• Specifications for business areas set out in the Technical Standards Catalogue: including
  – finance, procurement, legal, personnel, voting, e-Learning
• Specs are at various stages of maturity
• Level of adoption indicated under “Status”
• OeE Working Groups advise on amendments
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<th>Sponsor</th>
<th>Status</th>
<th>Recommendation</th>
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<td>IMS Global Learning Consortium, Inc.</td>
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<td>BS 98419</td>
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E-GIF e-learning

• Need guidance and clear conformance measures to be ‘Adopted’ - none at present
• ‘Recommended’ standards include
  – IEEE 1484.12.1 - 2002 LOM
  – IMS Content Packaging
  – SCORM 1.2 Runtime API
  – IMS Meta-data XML Binding
  – IMS Question and Test Interoperability
  – IMS Learner Information Package
  – IMS Accessibility Guidelines
  – BS7988 IT in the delivery of assessments
E-Learning groups

Interoperability Working Group

e-Learning Technical Standards Group

Consultation Forum
UK GovTalk provides

- Interoperability and Metadata Standards
- XML Schemas
- Government Data Standards
- Government Category List
- e-Service Development Framework
- Change Control Procedures
- Discussion Forum
- RFC and RFP on a global business
- Other ICT frameworks

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Way Forward

• e-Learning Technical Standards Working Group
  – produce roadmap of adoption of specifications
  – continue to monitor, develop and agree specifications for future versions of e-GIF
• Consider Conformance Testing needs
• Liaison with EC and international initiatives
**Summary**

- UK’s e-government strategy: harnessing the information revolution to improve the lives of our citizens and the UK economy
- Delivering e-government requires pervasive technologies, eg Internet, XML
- The delivery requires the involvement of, acceptance by and partnership with the public and private sectors
thank you

maewyn.cumming@e-envoy.gsi.gov.uk

www.govtalk.gov.uk
Thesaurus workshop:

Home Office, 17 June 2004
Maewyn Cumming, AD, Interoperability and Metadata
A word about words......

• List
• Taxonomy
• Thesaurus
• Ontology

• All are types of controlled vocabulary
Traditional taxonomy

Fruit

Tree fruit

- Apples
- Pears

Vine fruit

- Grapes
- Tomatoes
Vegetables

Tree fruit

Apples

Pears

Vine fruit

Grapes

Salad vegetables

Tomatoes

Carrots

Root vegetables

Potatoes

Polyhierarchical taxonomy
**Fruit**

- **Tree fruits**
  - Apples
  - Pears
  - Grapes
- **Vine fruits**
  - Apples

**Root vegetables**

**Vegetables**

- **Salad vegetables**
  - Carrots
  - Potatoes

**Scope note**: The fruit of any member of the species *Malus pumila*

**Broader term**: Foodstuffs

**Related terms**: Cooking ingredients, Taxable foodstuffs, Horticulture

**Narrower term**: Granny Smiths

**See also**: Apple trees

**Use**: For Apple computers use Personal computers (Apple)

*Thesaurus*
Fruit

Apple Noun Apples Noun plural Scope note: The fruit of any member of the family Malus pimula Price £0.90/kilo Supplier Bob’s fruit store Delivery area SW12

Agent: Are apples expensive?

Apple is a noun Expensive is an adjective Adjectives are used to distinguish nouns An Apple is either a computer or a fruit in any context. Apple in the context of computers is the name of a computer manufacturer. If an Apple is perishable or has pips it is Fruit. Apple in the context of fruit is a type of fruit. When Apples are computers expensive means price £1500. When Apples are a fruit, expensive means price £1/kilo.

Therefore: these apples are not expensive.
In context

• Metadata: used to ‘tag’ things so they can be found

  • Metadata covers a range of ‘elements’ such as title, date published, type, and subject

  • Adding metadata is mandated by the e-GIF

  • Adding a GCL terms is part of being e-GIF compliant
Brita Acclario Select Water Filter Kettle.

Was £59.99

£49.95

- Premium chrome finish.
- 3kW Rapid Boil technology.
- 1.5 litre filtered capacity - to 12 cups, 2.5 litre total capacity.
- Easy fill, pour through lid.
- Includes 1 cartridge.
- Combined water filter and kettle.
- Integral BRITA water filter cartridge.
- Concealed stainless steel element.
- Features 'Memo'.
- Dual water level indicators.
- Auto shut off.
- Dual on/off switch for separate water filtration and boiling.
- Attractive transparent cordless kettle.

This item can be reserved for store pick up
Delivery usually within 2 working days.

Special Offer

Save £5 when you buy either the Brita Acclario Select Kettle (422/1294) or Brita Acclario Premium
EST FOR A LAPTOP

Desk Telephone:

Justification for Laptop:

AB has attended many workshops and meetings outside Stockley House where he will present our developing thoughts on complex issues, and it is not practical for him to print off all the material that may be used in any one meeting subject to frequent updates.

I have found a laptop to be essential for the job.

It is expected that AB will have caring commitments, disability etc.

Unable to determine as he has not yet started.

- I understand that the Laptop, while in my possession, remains the property of the Office of the e-Envoy and must be returned, when requested, to the Accommodation Team for upgrades and on completion of duty.

- It is not his personal property.
GCL

- **Government Category List**
- Subject.category
- List of broad subject headings to aid cross-governmental browsing
- Helps people find information easily
- Provides consistency across public sector
- Designed to fit on a screen
Documents page, for more hints on how to use the GCL efficiently and effectively.

The GCL is updated twice a year and it may be downloaded in several different formats from the Documents page.

The online version beginning on this page is:

GCL Version 2.0, January 2004

Index
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Agriculture, environment and natural resources
Arts, recreation and travel
Business and industry
Crime, law, justice and rights
Economics and finance
Education, careers and employment
Government, politics and public administration
Health, nutrition and care
Information and communication
International affairs and defence
People, communities and living
Science, technology and innovation
Crime

Use for
Crime prevention
Crime reduction

Broader category
Crime, law, justice and rights

Narrower category
Domestic violence
Drug-related crime
Murder
Offenders
Organised crime and terrorism
Racially motivated crime
Sex offences
Smuggling
Theft and burglary
Vehicle crime
Victims of crime
Violence against the person
War crime
Antisocial behaviour and disorder
Arson
Business crime

See also
Security
Extradition
Forensic science
What is this all for?

• Finding stuff
  • On the internal filing system
  • On the intranet
  • On the website
  • On cross-government portals/ TNA

• Managing information
  • Deleting old stuff
  • Reorganising stuff
  • Archiving stuff
  • Records management, FOI, DPA....
You say potato...

- ...I say tuberosum s
- Murder
- Unlawful killing
- Homocide
- Murder One
- First degree murder
- Hooliganism, anti-social behaviour, soccer thugs, drunk and disorderly, yobos, youths...
Implementing a controlled vocabulary

• See from both ends – input and user
• Needs to be as automated as possible
• Needs to fit into existing systems
• Needs visible value (to be exploited)
• Should require no repetition of effort
• It should be easy to add terms
• It’s harder than you’d think
• Is all about filing!
• Finding stuff, no matter where it is or what type of file it is, or how it's asked for
A problem of multiple taxonomies

- All public sector told to use GCL
- ODPM / LAWS creates LGCL
- Essex gets Seamless
- Join-up
Information and advice

- Govtalk [www.govtalk.gov.uk](http://www.govtalk.gov.uk)

- Govtalk email [govtalk@cabinet-office.gsi.gov.uk](mailto:govtalk@cabinet-office.gsi.gov.uk)


Questions?
Where next?
Government Category List

Home Office Thesaurus

Police

Crime Reduction

Immigration
New & Notable

Birds Without Wings
by Louis De Bernieres
Our Price: £12.59

The Supernaturalist
by Eoin Colfer
Our Price: £7.79
Used & New from £7.79

Shopaholic and Sister
by Sophie Kinsella
Our Price: £9.09
Used & New from £9.00

Boris Becker - The Player: The Autobiography
by Boris Becker
Our Price: £12.59
Used & New from £11.79

Summer Paperbacks--3 for £12

Get 3 for £12 on a great selection of summer paperbacks new and old, including Empire: How Britain Made the Modern World. Niall Ferguson captures the excitement, brutality and adventure of the British Empire, showing how Britain in the 19th century was a force to be reckoned with.

Football for Fathers
Treat Dad to 100 Years of Football. Find more great Father's Day gifts or browse more football books.
Our Price: £15.00

Hot 100 Books
Updated hourly

1. A Short History of Nearly Everything ~ Bill Bryson
2. The Da Vinci Code ~ Dan Brown
3. Monday Mourning ~ Kathy Reichs 40% off
Hot Summer Deals
Get 3 for £12 on a huge range of paperback titles--choose from a selection of this summer’s hottest must-read books.

Top Sellers
Updated Daily

1. *Eats, Shoots & Leaves: The Zero Tolerance Approach to Punctuation* by Lynne Truss
   **Our Price:** £6.99 **You Save:** £3.00 (30%) **Used & New** from £5.90

2. *Dave Gorman’s Googlewhack Adventure* by Dave Gorman
   **Our Price:** £7.69 **You Save:** £3.30 (30%) **Used & New** from £7.00

   **Our Price:** £7.19 **You Save:** £1.80 (20%) **Used & New** from £5.92

4. *There Was an Old Lady Who Swallowed a Fly (Classic Board Books with Holes)* by Pam Adams
   **Our Price:** £3.99 **Used & New** from £2.45
Building the GCL

Practical taxonomy design
London 9 March 2004
The beginning

- Information Asset Register
- Pan Government Thesaurus
- Knowledge Network
- Policy Category List
- UKonline
- APLAWS
- Metadata Working Group
Next stages

• Needs analysis
  – no single contender for main user
  – very wide coverage
  – many users
• First major consultation – the workshop
• Input from specialists
Purpose

• Clear about purpose:
  – Joining up government
  – Browsing web sites, esp portals
  – Cross government – wide range

• Clear criteria, based on PCL
The criteria

• Keywords should describe the subject of a document, not its type, format etc.
• Choice of terms should be citizen-oriented rather than discipline-oriented or department-oriented.
• Keywords should be phrased with stability in mind.
• It will be possible to assign more than one keyword to a resource
Criteria for terms

• The terms must be:
  – comprehensible
  – unambiguous
  – unique
  – as short as possible
  – expressed in English
  – politically unbiased
The build

- The easy bit!
- All organisations asked to contribute terms
- Policy Category List
- Consultation all the way
Updating

- GCL always available for comment
- Formal consultation rounds
- Updating period now 6 months
Uses

The easy way to government info and services online

Down your street
Local services from the UK government. Find your nearest GP, discover more about your neighbourhood and more...

- Neighbourhood statistics
- Local NHS services
- Public services

Inquiry into the death of Dr David Kelly

Lord Hutton has published his report
- Lord Hutton's report (Inquiry website)
- PDF of Hutton Report (2Mb)
- PM's statements

Your questions answered!

If you have a question that needs answering why not try our frequently asked questions or ask our editor?
- Frequently Asked Questions
- The Editor's inbox

News from across government

NHS advertises for choice

People waiting for surgery in London are being reminded of the choices they have for treatment by newspaper adverts.
Search the Information Asset Register

Enter your search words here:

Search
Clear

☐ Select for Boolean search.
(You may use any of the following operators in a Boolean search: AND, NOT, OR)

Government Category List

Select a link below to browse and search by Government Category List classification.

- Agriculture, environment and natural resources
- Crime, law, justice and rights
- Government, politics and public administration
- International affairs and defence
- Arts, recreation and travel
- Economics and finance
- Health, nutrition and care
- People, communities and living
- Business and industry
- Education, careers and employment
- Information and communication
- Science, technology and innovation

Further Search Options

Restrict your search by Organisation:

---Any---
British Geological Survey
British Trade International
Cabinet Office

Restrict your search by Title:
Society

This category has data sources under the Level 1 Government Category List (GCL) headings of:

- Arts and recreation
- Crime, law, justice and rights
- Government, politics and public administration
- Information and communication
- International affairs and defence
- People, communities and living

Key Resources

The following websites are key resources for data on society.

<table>
<thead>
<tr>
<th>Data Source</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cabinet Office</td>
<td><a href="http://www.cabinet-office.gov.uk">www.cabinet-office.gov.uk</a></td>
</tr>
<tr>
<td>DCMS (Department for Culture, Media and Sport)</td>
<td><a href="http://www.dcms.gov.uk">www.dcms.gov.uk</a></td>
</tr>
<tr>
<td>DWP Statistics and Research</td>
<td><a href="http://www.dwp.gov.uk/asd/index.asp">www.dwp.gov.uk/asd/index.asp</a></td>
</tr>
<tr>
<td>Neighbourhood Statistics</td>
<td><a href="http://www.neighbourhood.statistics.gov.uk/">www.neighbourhood.statistics.gov.uk/</a></td>
</tr>
<tr>
<td>ODPM Statistics</td>
<td><a href="http://www.odpm.gov.uk/about/statistics/index.htm">www.odpm.gov.uk/about/statistics/index.htm</a></td>
</tr>
<tr>
<td>Office for National Statistics</td>
<td><a href="http://www.statistics.gov.uk">www.statistics.gov.uk</a></td>
</tr>
<tr>
<td>Office of the e-Envoy e-Statistics</td>
<td><a href="http://www.e-envoy.gov.uk/Resources/ESTatmap/fs/en">www.e-envoy.gov.uk/Resources/ESTatmap/fs/en</a></td>
</tr>
<tr>
<td>Star UK Tourism Facts</td>
<td><a href="http://www.staruk.org.uk/default.asp?id=14&amp;encDivVal=0-14&amp;parentid=0">www.staruk.org.uk/default.asp?id=14&amp;encDivVal=0-14&amp;parentid=0</a></td>
</tr>
<tr>
<td>Statistical Office of the European Communities</td>
<td><a href="http://www.europa.eu.int/comm/eurostat">www.europa.eu.int/comm/eurostat</a></td>
</tr>
</tbody>
</table>

Further society data sources are grouped under the following headings:

- Data Sources
- Reports
- Regional Documents
- Maps
This page offers a guide to "Government, Politics and Public Administration" with links to its data sources, reports, regional documents, maps and metadata.

### Data Sources

<table>
<thead>
<tr>
<th>TITLE</th>
<th>DATE</th>
<th>AUTHOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dod On Line</td>
<td>2003</td>
<td>Vacher Dod Publishing</td>
</tr>
<tr>
<td>This website gives a wide range of information on government and its departments, Parliament and MP’s...</td>
<td></td>
<td></td>
</tr>
<tr>
<td>e-Government Interoperability Framework (e-GIF)</td>
<td>2003</td>
<td>Office for e-Envoy</td>
</tr>
<tr>
<td>This document, published by the Office for the e-Envoy, sets out the government’s technical policies...</td>
<td></td>
<td></td>
</tr>
<tr>
<td>e-Government Metadata Standard (e-GMS) Version 2</td>
<td>2003</td>
<td>Office for e-Envoy</td>
</tr>
<tr>
<td>This document forms part of the e-Government Interoperability Framework. The e-GMS lays down the el...</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Government Category List v1.5</td>
<td>Sept 2003</td>
<td>UK Govtalk</td>
</tr>
<tr>
<td>The Government Category List is a classification system providing broad subject terms for public sect...</td>
<td></td>
<td></td>
</tr>
<tr>
<td>This site contains all Government departments’ press releases.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Houses of Parliament Website</td>
<td>2003</td>
<td>The Stationery Office</td>
</tr>
<tr>
<td>This site provides information and news about Parliament, including a directory of MPs (by county/UA...</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Information for Local Government from Central Government</td>
<td>2003</td>
<td>The Office of the Deputy Prime Ministe...</td>
</tr>
<tr>
<td>This site provides the first one-stop portal for local authorities to get quick and easy access to i...</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Public Expenditure Statistical Analysis (PESA)</td>
<td>2003</td>
<td>HM Treasury</td>
</tr>
</tbody>
</table>

http://www.govtalk.gov.uk/schemasstandards/eGf.asp
Lessons

• Consultation, Consultation, Consultation!
• Do plenty of planning
• Think long term
  – Have resources in place for maintenance
  – Be prepared for awkward questions
  – Do more than a list of words
  – Don’t expect people to understand it!