

INsightful

Speculation

Prioritising

Institutional

Responses to

E-legislation.

- Past experience
- Theoretical response
- Harnessing INSPIRE
- Practical demonstration

& an antidote to the curse of metadata?



Modernising Government

Presented to Parliament by
the Prime Minister and the Minister for the Cabinet Office
by Command of Her Majesty.

March 1999.

<http://www.archive.official-documents.co.uk/document/cm43/4310/4310.htm>

Metadata



Serious e-stuff



Foreword by

The Prime Minister, Tony Blair

The Government has a mission to modernise - renewing our country for the new millennium. We are modernising our schools, our hospitals, our economy and our criminal justice system. We are modernising our democratic framework, with new arrangements for Scotland, Wales, Northern Ireland, the English regions, Parliament and local authorities.

But modernisation must go further. It must engage with how government itself works. Modernising government is a vital part of our programme of renewal for Britain. The old arguments about government are now outdated - big government against small government, interventionism against laissez-faire. The new issues are the right issues: modernising government, better government, getting government right.

Modernising Government is a significant step forward in what is a long-term programme of reform. It puts in place a number of important initiatives, and sets out an agenda for the future. But in line with the Government's overall modernisation programme, in line with our policy of investment for reform, it is modernisation for a purpose: modernising government to get better government for a better Britain.

Tony Blair

5. Information age government:



4 Interoperability
Sound familiar? *INSPIRE*

We will use new technology to meet the needs of citizens and business, and not trail behind technological developments

Better health services through the NHS

From the end of April 1999, 20 million people will be able to call [NHS Direct](#) for healthcare advice from experienced, qualified nurses. NHS Direct will work in partnership with other local services to provide advice to callers about getting the right level of care.

Some healthcare professionals are now able to deliver quicker test results, up-to-date specialist advice and even online booking of appointments through NHSnet. They will, later this year, also get access to a wide range of health information through the National Electronic Library for Health.

Better service for taxpayers

Taxpayers whose affairs are handled by the Inland Revenue Centre at East Kilbride can expect a great improvement in the service they receive. In February 1999, the Inland Revenue opened its first dedicated call centre in East Kilbride, which will conduct a wide range of business for 2 million employees and pensioners. Access to a faster and more convenient service for the customer is accompanied by increased efficiency for the Inland Revenue. Alongside the call centre is an incoming-mail room which will also handle all the postal interactions with customers in the area, and a one-stop shop handling 33,000 visits a year. This separation of roles will allow the 'customer facing' office to focus solely on providing excellent service to the customer, while the 'back office' can focus on efficient processing of data.

National Grid for Learning

More and more people are able to access information on a wide range of educational resources through the [National Grid for Learning](#). The Grid is the national focal point for learning on the Internet. It is both an architecture of educationally valuable content and a programme for developing the means to access it in schools, libraries, colleges, universities, workplaces, homes and elsewhere. The National Grid for Learning initiative aims to connect all schools to the Internet by 2002. Currently, 30% of primary schools, 90% of secondary schools and 45% of special schools in England have some form of Internet access. The Grid was launched in November 1998 by the Prime Minister. The National Grid for Learning site and its partners offer some 50,00060,000 pages of material, and more is available each week. The site is currently being accessed on average over 75,000 times a day.

University for Industry

Individuals and businesses will soon have access to a wealth of lifelong learning resources through the [University for Industry](#), a new kind of organisation for open and distance learning. Using modern information and communications technologies, it will broker high-quality learning products and services and make them available at home, in the workplace and at learning centres country-wide.

Electronic public records

The Public Record Office is leading a strategy across government for managing and accessing archives, using modern IT to support service delivery and accountability. It is our aim that by 2004 all newly created public records will be electronically stored and retrieved.

By the end of 1999, all the Public Record Office's research information will be available to the public electronically.



FRAMEWORK FOR INFORMATION AGE GOVERNMENT

Electronic records management

It is our aim that by 2004 all newly created public records will be electronically stored and retrieved.

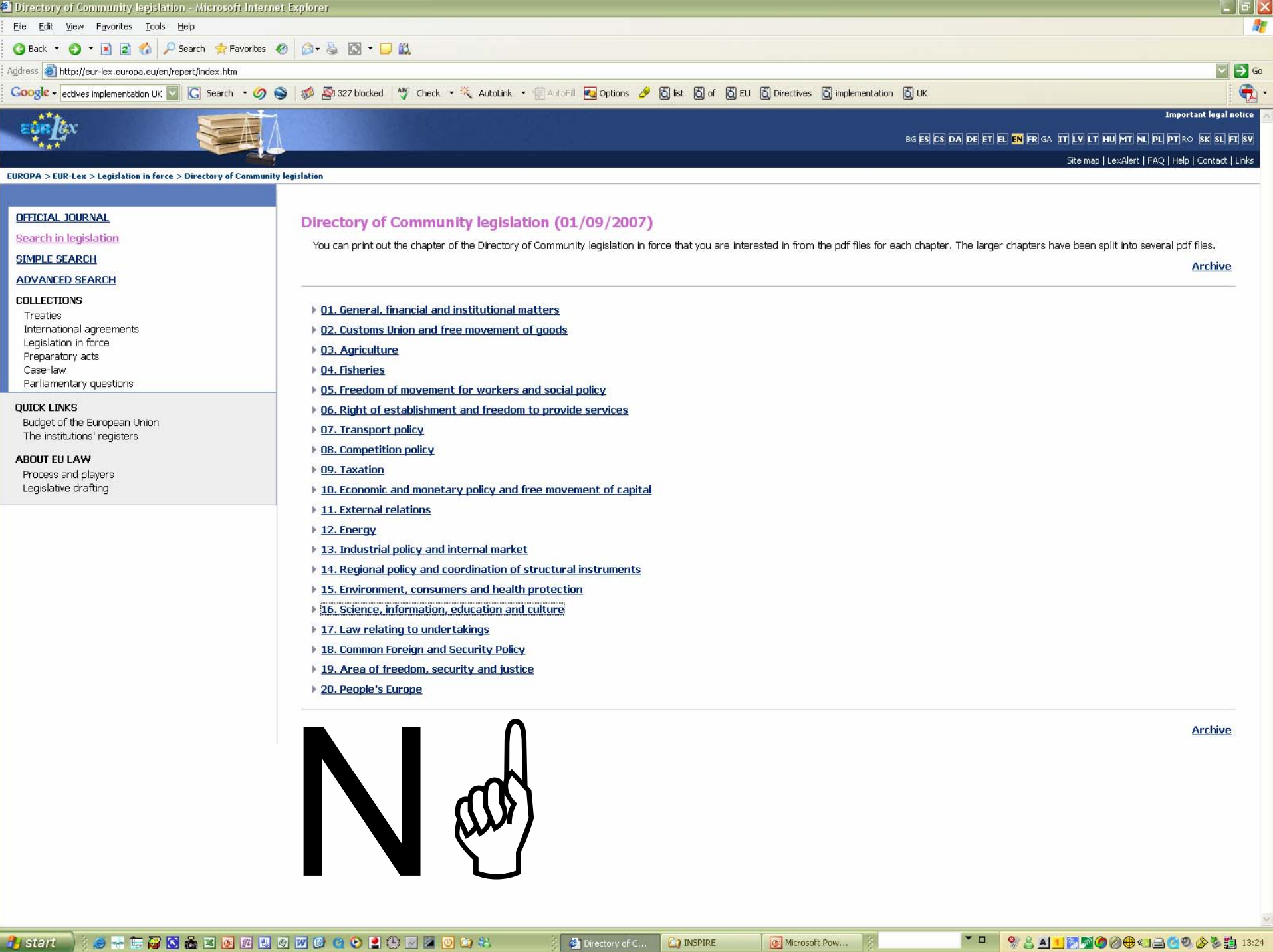
[http://archive.cabinetoffice.gov.uk/e-envoy/resources-pdfs/\\$file/erm.pdf](http://archive.cabinetoffice.gov.uk/e-envoy/resources-pdfs/$file/erm.pdf)

- provides a framework and a set of milestones for departments and agencies to move towards full electronic records management by gaining formal control of existing electronic records which have value as evidence; and to plan for the implementation of electronic records management systems to meet the *Modernising Government* target — that by 2004 all newly created public records will be electronically stored and retrieved

- *aim* – we aimed (at full electronic records management)
- *move towards* – we moved – mostly electronic and retrievable but a bit less formal/structured/all encompassing than originally envisaged?
- *by 2004*
- *1 JAN 2004* became
- *31 DEC 2004* became
- “*aspirational target*” [that we are still moving towards – thank you the Web, Web 2, Microsoft and others]
- Some [the big players] may even have made it all the way

some INSPIRE metadata

- Bounding Co-ordinates
 - N
 - E
 - S
 - W



OFFICIAL JOURNAL
[Search in legislation](#)
SIMPLE SEARCH
ADVANCED SEARCH

COLLECTIONS
 Treaties
 International agreements
 Legislation in force
 Preparatory acts
 Case-law
 Parliamentary questions

QUICK LINKS
 Budget of the European Union
 The institutions' registers

ABOUT EU LAW
 Process and players
 Legislative drafting

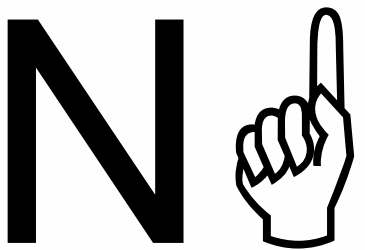
Directory of Community legislation (01/09/2007)

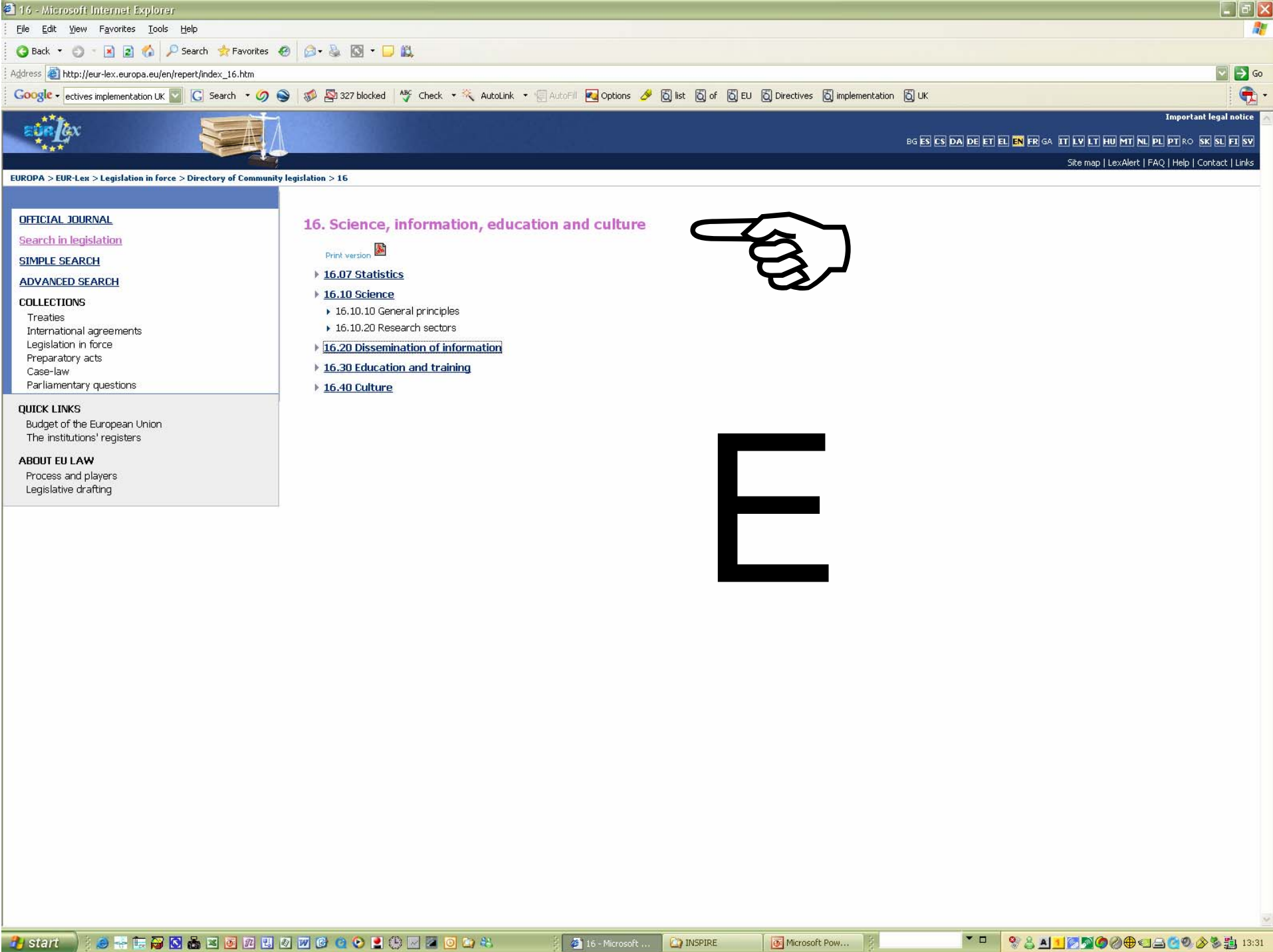
You can print out the chapter of the Directory of Community legislation in force that you are interested in from the pdf files for each chapter. The larger chapters have been split into several pdf files.

[Archive](#)

- ▶ [01. General, financial and institutional matters](#)
- ▶ [02. Customs Union and free movement of goods](#)
- ▶ [03. Agriculture](#)
- ▶ [04. Fisheries](#)
- ▶ [05. Freedom of movement for workers and social policy](#)
- ▶ [06. Right of establishment and freedom to provide services](#)
- ▶ [07. Transport policy](#)
- ▶ [08. Competition policy](#)
- ▶ [09. Taxation](#)
- ▶ [10. Economic and monetary policy and free movement of capital](#)
- ▶ [11. External relations](#)
- ▶ [12. Energy](#)
- ▶ [13. Industrial policy and internal market](#)
- ▶ [14. Regional policy and coordination of structural instruments](#)
- ▶ [15. Environment, consumers and health protection](#)
- ▶ [16. Science, information, education and culture](#)
- ▶ [17. Law relating to undertakings](#)
- ▶ [18. Common Foreign and Security Policy](#)
- ▶ [19. Area of freedom, security and justice](#)
- ▶ [20. People's Europe](#)

[Archive](#)





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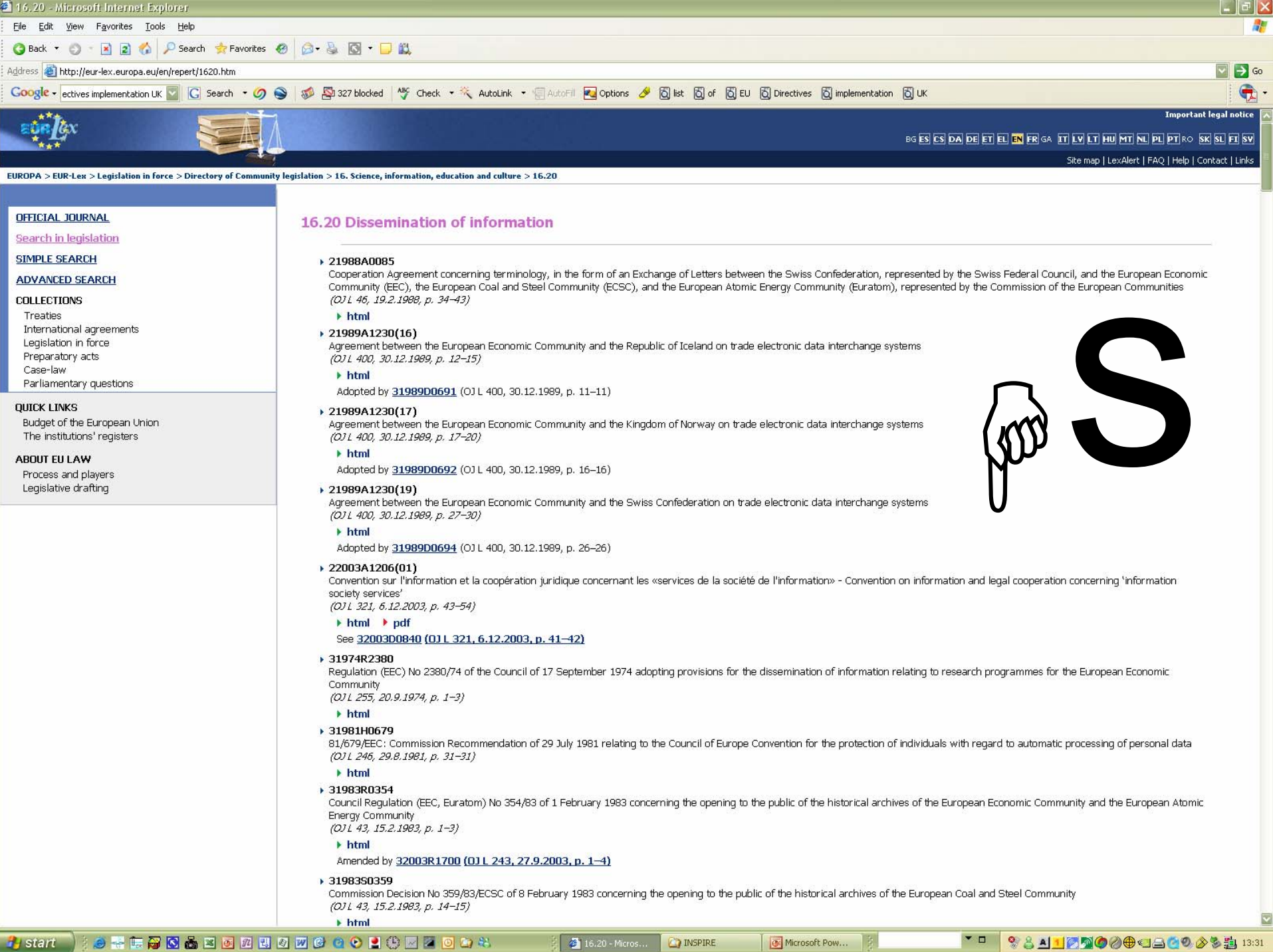
16. Science, information, education and culture

[Print version](#)

- ▶ [16.07 Statistics](#)
- ▶ [16.10 Science](#)
 - ▶ 16.10.10 General principles
 - ▶ 16.10.20 Research sectors
- ▶ [16.20 Dissemination of information](#)
- ▶ [16.30 Education and training](#)
- ▶ [16.40 Culture](#)



E



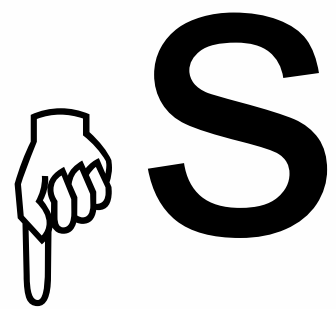
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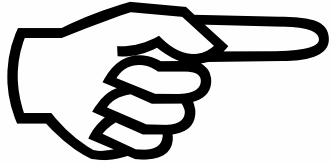
- QUICK LINKS**
- Budget of the European Union
- The institutions' registers

- ABOUT EU LAW**
- Process and players
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16.20 Dissemination of information

- ▶ **21988A0085**
Cooperation Agreement concerning terminology, in the form of an Exchange of Letters between the Swiss Confederation, represented by the Swiss Federal Council, and the European Economic Community (EEC), the European Coal and Steel Community (ECSC), and the European Atomic Energy Community (Euratom), represented by the Commission of the European Communities
(*OJ L 45, 19.2.1988, p. 34-43*)
▶ [html](#)
- ▶ **21989A1230(16)**
Agreement between the European Economic Community and the Republic of Iceland on trade electronic data interchange systems
(*OJ L 400, 30.12.1989, p. 12-15*)
▶ [html](#)
Adopted by [31989D0691](#) (OJ L 400, 30.12.1989, p. 11-11)
- ▶ **21989A1230(17)**
Agreement between the European Economic Community and the Kingdom of Norway on trade electronic data interchange systems
(*OJ L 400, 30.12.1989, p. 17-20*)
▶ [html](#)
Adopted by [31989D0692](#) (OJ L 400, 30.12.1989, p. 16-16)
- ▶ **21989A1230(19)**
Agreement between the European Economic Community and the Swiss Confederation on trade electronic data interchange systems
(*OJ L 400, 30.12.1989, p. 27-30*)
▶ [html](#)
Adopted by [31989D0694](#) (OJ L 400, 30.12.1989, p. 26-26)
- ▶ **22003A1206(01)**
Convention sur l'information et la coopération juridique concernant les «services de la société de l'information» - Convention on information and legal cooperation concerning 'information society services'
(*OJ L 321, 6.12.2003, p. 43-54*)
▶ [html](#) ▶ [pdf](#)
See [32003D0840](#) ([OJ L 321, 6.12.2003, p. 41-42](#))
- ▶ **31974R2380**
Regulation (EEC) No 2380/74 of the Council of 17 September 1974 adopting provisions for the dissemination of information relating to research programmes for the European Economic Community
(*OJ L 255, 20.9.1974, p. 1-3*)
▶ [html](#)
- ▶ **31981H0679**
81/679/EEC: Commission Recommendation of 29 July 1981 relating to the Council of Europe Convention for the protection of individuals with regard to automatic processing of personal data
(*OJ L 246, 29.8.1981, p. 31-31*)
▶ [html](#)
- ▶ **31983R0354**
Council Regulation (EEC, Euratom) No 354/83 of 1 February 1983 concerning the opening to the public of the historical archives of the European Economic Community and the European Atomic Energy Community
(*OJ L 43, 15.2.1983, p. 1-3*)
▶ [html](#)
Amended by [32003R1700](#) ([OJ L 243, 27.9.2003, p. 1-4](#))
- ▶ **31983S0359**
Commission Decision No 359/83/ECSC of 8 February 1983 concerning the opening to the public of the historical archives of the European Coal and Steel Community
(*OJ L 43, 15.2.1983, p. 14-15*)
▶ [html](#)





W

1 in 127
in
16.20

- [html](#) [pdf](#)
- 32007L0002**
Directive 2007/2/EC of the European Parliament and of the Council of 14 March 2007 establishing an Infrastructure for Spatial Information in the European Community (INSPIRE)
(OJ L 108, 25.4.2007, p. 1-14)
[html](#) [pdf](#)
- 32007R0215**
Commission Regulation (EC) No 215/2007 of 28 February 2007 on implementing in income and living conditions (EU-SILC) as regards the list of target secondary
(OJ L 62, 1.3.2007, p. 8-15)
[html](#) [pdf](#)
- 32007R0716**
Regulation (EC) No 716/2007 of the European Parliament and of the Council of 2
(OJ L 171, 29.6.2007, p. 17-31)
[html](#) [pdf](#)
- 32007R0847**
Commission Regulation (EC) No 847/2007 of 18 July 2007 implementing Regulation (EC) No 808/2004 of the European Parliament and of the Council concerning Community statistics on the information society (Text with EEA relevance)
(OJ L 187, 19.7.2007, p. 5-19)
[html](#) [pdf](#)
- 32007R0862**
Regulation (EC) No 862/2007 of the European Parliament and of the Council of 11 July 2007 on Community statistics on migration and international protection and repealing Council Regulation (EEC) No 311/76 on the compilation of statistics on foreign workers (Text with EEA relevance)
(OJ L 199, 31.7.2007, p. 23-29)
[html](#) [pdf](#)
- 41971X1210**
Resolution of the Council and of the Representatives of the Member States, meeting in the Council, with a view to co-ordinating the action of the Member States regarding scientific and technical information and documentation (STID), adopted at the 157th Council meeting held on 24 June 1971
(OJ C 122, 10.12.1971, p. 7-8)
[html](#)
- 41971X1210(01)**
Resolution of the Council and of the Representatives of the Member States, meeting in the Council, on the creation of a system of metallurgical documentation and information (SMDI)
(OJ C 122, 10.12.1971, p. 8-10)
[html](#)
- 41985X1023**
Resolution of the Council and the ministers with responsibility for cultural affairs, meeting within the Council, of 27 September 1985, on collaboration between libraries in the field of data processing
(OJ C 271, 23.10.1985, p. 1-1)
[html](#)
- 41991X1205(01)**
Resolution of the Council and the Ministers of Culture, meeting within the Council of 14 November 1991 on arrangements concerning archives
(OJ C 314, 5.12.1991, p. 2-2)
[html](#)
- 41994D0271**
94/271/EC, Euratom: Decision of the representatives of the Governments of the Member States of 24 March 1994 on the consultation and disclosure of archive documents concerning the negotiations for the Treaties of Rome, the negotiations for the European Political Community and the Interim Committee for the Common Market and Euratom
(OJ L 117, 7.5.1994, p. 29-29)
[html](#)
- 41997X0306**
Resolution of the Council and of the Representatives of the Governments of the Member States, meeting within the Council of 17 February 1997 on illegal and harmful content on the Internet
(OJ C 70, 6.3.1997, p. 1-2)
[html](#)
- 41999X0205**
Resolution of the Council and of the Representatives of the Governments of the Member States, meeting within the Council of 25 January 1999 concerning public service broadcasting
(OJ C 30, 5.2.1999, p. 1-1)
[html](#) [pdf](#)

Find

Find what:

Match whole word only

Match case

Direction: Up Down

Theoretical Response

(to this high profile piece of legislation)

- The Cefas INSPIRE Team
- 1 vision
- 10 years
- 100 staff
- 1,000 laptops
- 10,000 questions
- 100,000 solutions
- £1,000,000 a year budget

**I Note Special Pleading Is Rarely Easy
It Never Succeeds Particularly In Reduced Economics**

Harnessing INSPIRE

- This is BIG
- This is potentially HUGE
- This could & should be a big part of any ecosystem approach
- This could & should be a big part of any climate change and adaptation work
- This could & should mean we actually know who and what is where, when and how; leaving us to worry about the why.....
- The harness?
 - some proper, formal, strategically targeted research, thinking, discussion, consultation and planning about what we can get out of this seems a good idea to me
 - starting today (?)
 - Any takers?
 - Any funders?

Practical Demonstration

British Energy Estuarine & Marine Studies

- New nuclear build work - marine is up front
- Timescales are NOW and, for data and decisions, on to 100+ years
- All data into a Data Centre (new & legacy)
- All data discoverable and transparent and specifically designed to be shared and re-used (*sound familiar? – Charting Progress ... MDIP*)
- All data will have metadata (UK Gemini/MetaGenie +)
- All data will, therefore, be geo-referenced and MDIP and INSPIRE “compliant”, by default (with a few tweaks as things evolve).

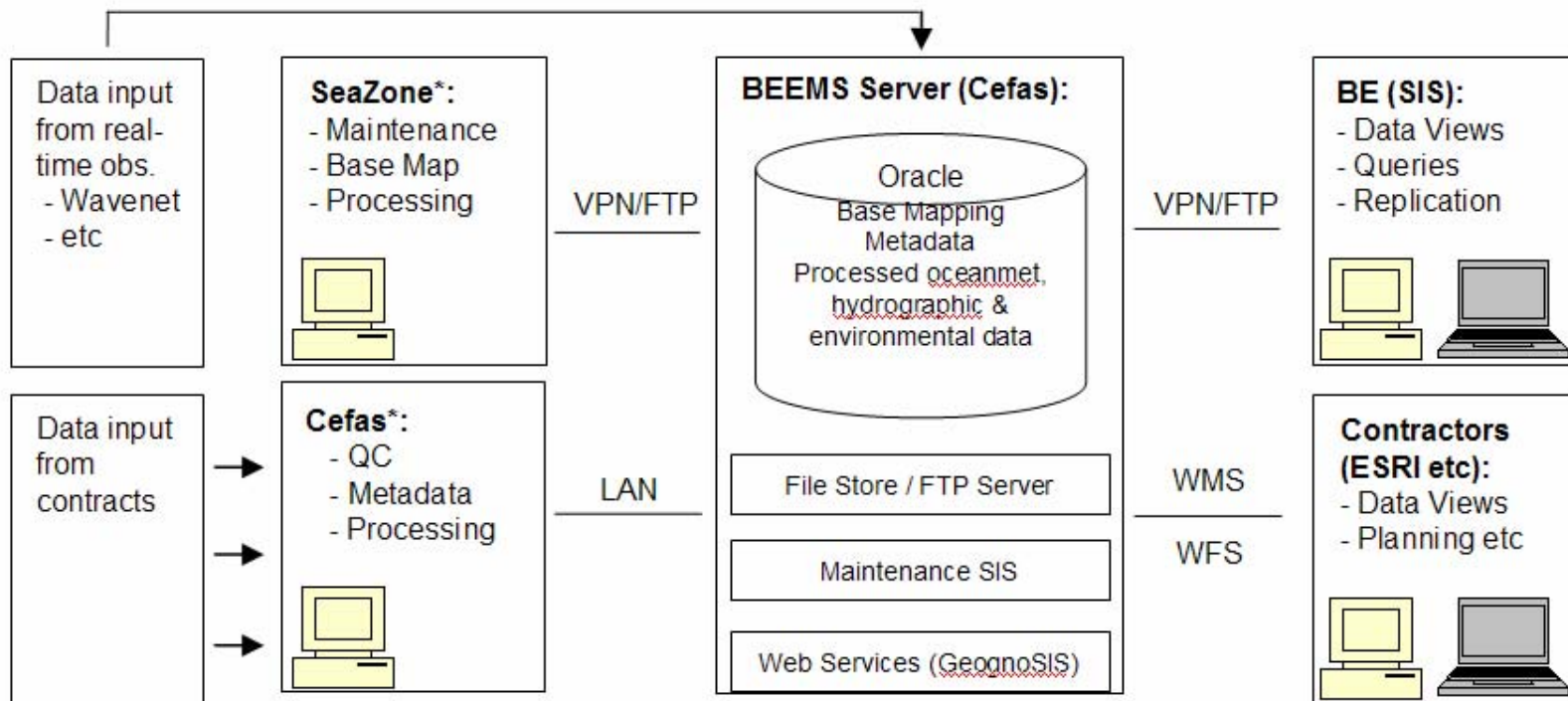
Why?

- Not because INSPIRE says so (BE is not a public body)
- Not because MDIP asks
- Not because we can (a fellow conspirator in this is Mike Osborne)
- BUT because it makes sound commercial sense to invest in data management and GIS from the beginning, because, amongst many reasons, questions need answering quickly and any answers must have a known provenance and the assurance that they are the best available (because a Public Enquiry is a distinct possibility and public scrutiny a certainty) *[sound familiar?– Evidence Based Policy....]*
- For BEEMS the evidence base has to exist

EVIDENCE-BASED POLICY MAKING: IF IT EXISTS, WHAT MAKES IT ROBUST?

The four well-understood components of robustness are *credibility, transferability, reliability and objectivity*⁹. There is also a fifth – *well rooted* – which has direct and profound relevance for policy making. (This is also defined as 'authenticity' and is examined to a degree in the qualitative literature, but has been ignored in the quantitative literature.)

Figure 1 - BEEMS System Architecture



The Elephants' Child 6 years on

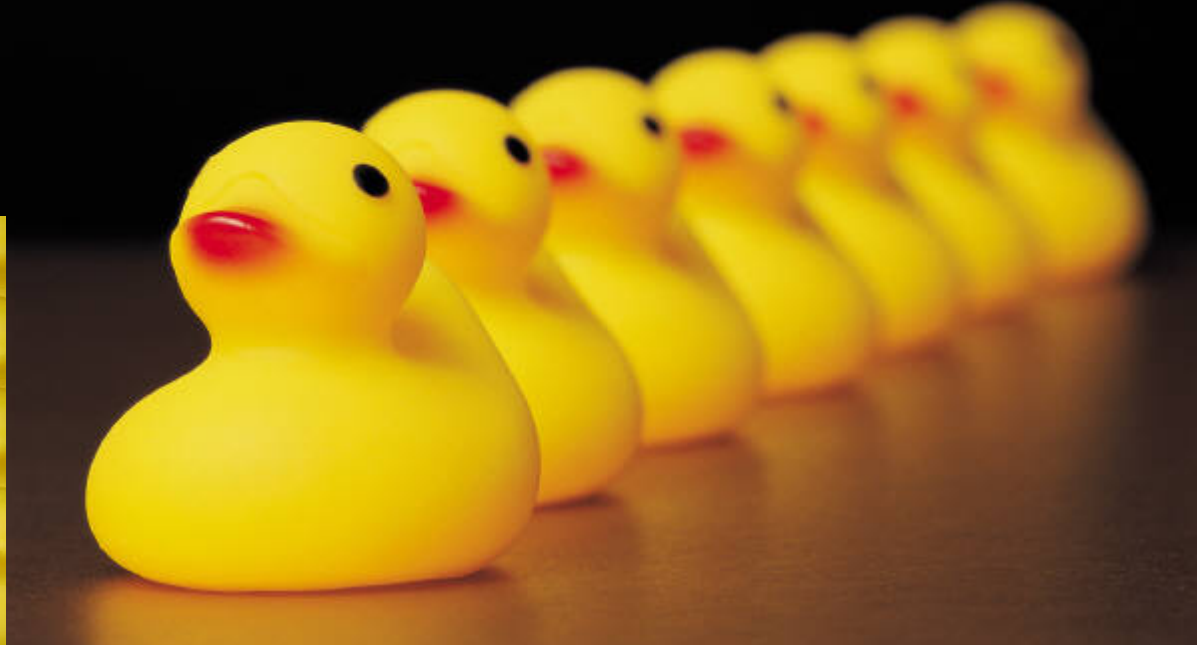
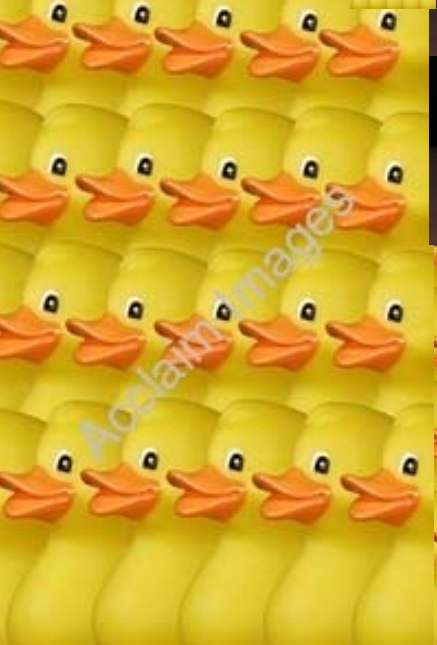
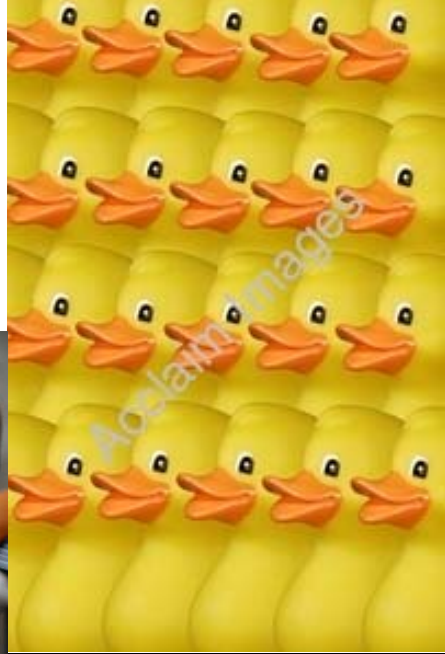
- **WHAT** (Title, format)
- **WHERE** (bounding co-ordinates, place names?)
- **WHEN** (dates)
- **WHY** (linked pdf's – everyone writes reports)
- **HOW** (methods – another type of metadata)
- **WHO** (who did it - owner)

And if you don't know all that now (you do really, its just not necessarily created, stored and retrieved electronically) get it, make it electronic now and INSPIRE will be easier and you can find your data while you wait for it to come along.....

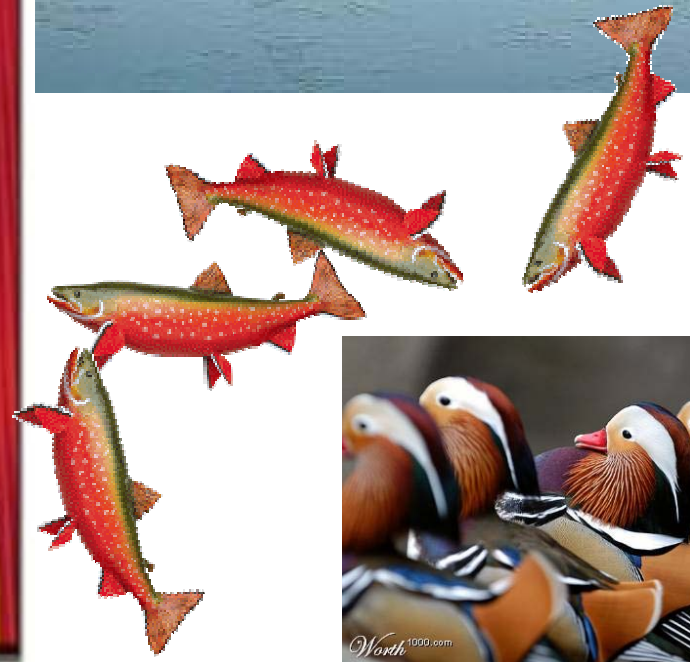
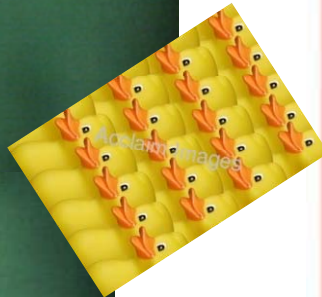
Antidote?

- Not just the metadata syndrome – We’re fighting perceptions of the EU & its many Directives, funding strictures, time (it’s a long way off), the past, incomprehension, “computers will do it all if I wait long enough” [and they will sort of, maybe], the Google syndrome (“they do it for free”), marine XML (a salty panacea – the coming thing 6 years ago), “I’ve managed so far without it”,
- Antidote? There isn’t one, all I’m doing is getting my sea ducks in a row

the
ideal?



Currently my rows are more like



Cefas “soon” ... then ...Inspire

- Not in a row
- Not all yellow
- But at least they are all ducks
- And being organised (that metadata word again)
- As much as ducks can be



BEEMS?

Because we start from scratch, because we choose to, and NOW (and for the FUTURE)



And finally

(courtesy of Mike Osborne)

