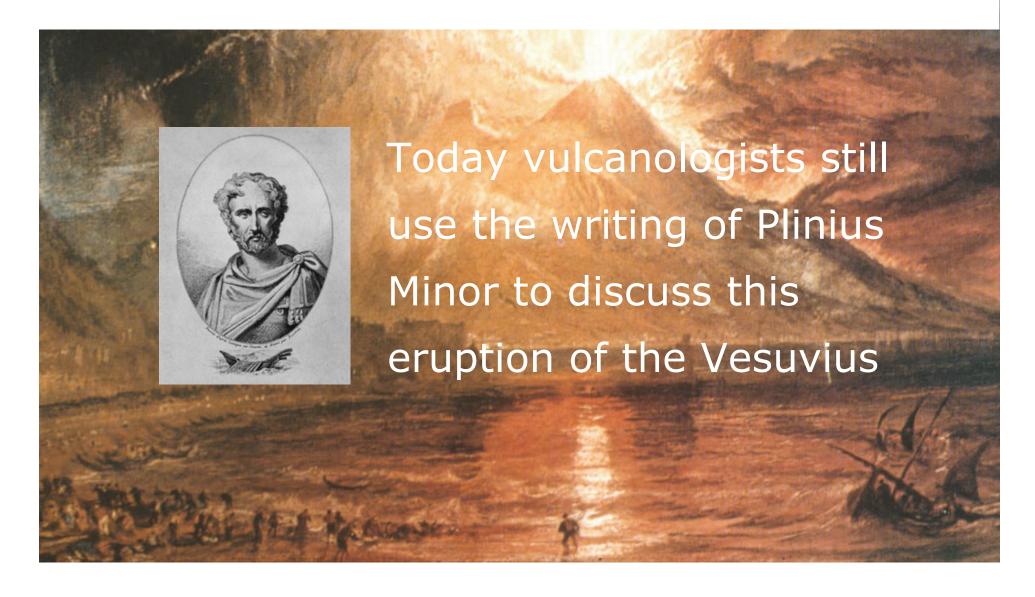
← Alliance for Permanent Access →

The European Approach

Wouter Spek München, 25 June 2009

Plinius Major – Plinius Minor

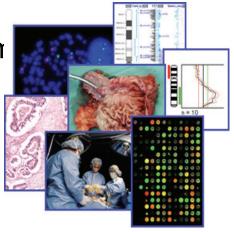


Science

- CERN Large Hadron Collider (LHC)
 - ~ 10 PB/ year at start
 - \sim 1.000 PB in 10 years



- International Cancer Genomics Consortiun
 - ~ 1000 Genomes
 - ~ 1 PB/year at start



Storing and Accessing the digital records of science



Objectives

- To support the development of a sustainable European digital information infrastructure
- To partner with national governments and European Commission
- To collaborate with European Science Consortia
- To initiate and facilitate strategic alliances between key stakeholders
- To strengthen the role of European parties in worldwide collaboration

Justification

- Science has changed in part because informatics has changed.
- Research is generating rapidly increasing volumes of data...
- ... a diverse range of formats like images, data, publication...
- New knowledge and know-how depend more and more on the ability to re-use and share data

So ...

We need to take action!



David Leppard

THE foreign secretary, David Miliband, faced embarrassment last night after it emerged that a computer disk containing confidential bank details of up to 2,000 public servants working for the British Council has been lost.

The council — the Foreign Office's cultural arm — admitted that the disk, which held the names, National Insurance numbers, salary and bank account details of staff on its UK payroll, went missing while in transit last month.

The incident is the latest in a string of losses which has led to criticism of the government's handling of sensitive data.

In November a memory stick holding data said to give access to tax and benefit records was lost in a pub car park, forcing officials to suspend the government's gateway website.

HSBC loses customers' data disc

The HSBC banking group has admitted losing a computer disc with the details of 370,000 customers.

The disc was lost four weeks ago after being sent by courier from the bank's life insurance offices in Southampton.

The customers' details included their names, dates of birth, and their levels of insurance cover.

However, there were no addresses said the customers' exposure to po

"We are looking into it and basicall an HSBC spokesman.

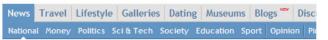
"There are no financial details ther in library are no address details or anything

As well as name, date of birth and revealed only the customer's policy customer was a smoker.









Loss of British Council staff da "The reinsurer we sent it to is doin We will do anything we can to find Secret Swedish military files left

Published: 4 Jan 08 11:08 CET

tionary tool Double click on a word to get a translation

A USB-memory stick loaded with secret documents from the Swedish Armed Forces was found in a Stockholm library, reports Aftonbladet.

- Swedish major facing sack over boozy African sex romp (1 Jun 09)
- Thailand to delay Gripen purchase: report (22 May 09)
- Spy ship rescues Russian fishermen (18 May 09)

The secret documents included material related to Nato's ISAF peace keeping force in Afghanistan, as well as an intelligence report from a private American security company analyzing the murder of the Sri Lankan foreign minister and the attempted assassination of Lebanon's defence minister.

"We take this kind of carelessness very seriously. Its primarily a matter of security for our soldiers," said Colonel Bengt Sandström, from the Military Intelligence and Security Service (MUST).

Threats | Opportunities

Case Study: The 1986 Domesday project



Copyright The National Archives, Catalogue reference: E 31/2/2 f.238a The original Domesday book, which was produced on vellum in 1086 for William the Conqueror, is still readable today at The National Archives, over 900 years later.

To mark the 900th anniversary of the original Domesday book, the BBC launched the 1986 Domesday project. This consisted of thousands of photographs and maps combined with statistical, written and visual information to produce a picture of Britain in 1986.

The project was recorded onto 30cm laserdiscs and could viewed with software running on BBC Microcomputers. Le 20 years later, not only are the 30cm laserdiscs obsolete, the necessary hardware. Separate projects were launched National Archives and by Leeds University to rescue the dathe software that made up the 1986 Domesday project. Thonly achieved thanks to a surviving laserdisc player and may a year's effort by specialist teams.

Mind the Gap - Digital Preservation Coalition, 2006

Leukemia Patient Classification - Genotype-Phenotype Correlation Better Overall Survival & Event Free Survival The NEW ENGLAND JOURNAL of MEDICINE 860 WINTER STREET, WALTHAM, MASSACHUSETTS 02451-1413 USA Low number of White Blood cells

Courtesy Professor Peter van der Spek – Erasmus Medical Centre

Alliance members































Activities

- Promote strategic agenda for European e-science infrastructure
- Creating a stakeholders forum for interaction
- Facilitate linkage between different scientific communities
- Annual conference: for governments, EU, funding agencies, research organisations, FP7 and ESFRI projects, publishers, national libraries, archives etc.
- PARSE.insight

PARSE.insight





Facts and Figures:

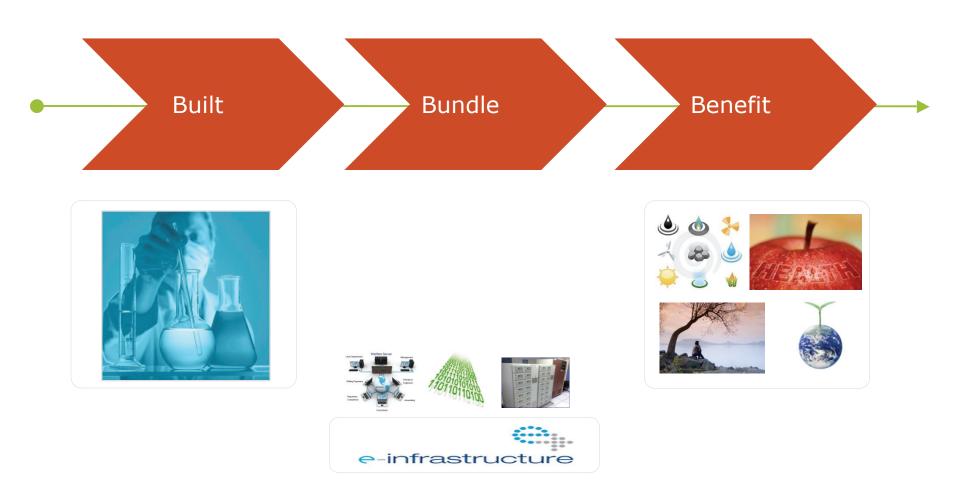
- Duration: March 2008 February 2010
- 9 partners ranging from libraries to universities and large research organisations
- EC funding: M€1,8, through the FP7
 ICT Work Programme
- Website: www.parse-insight.eu

PARSE.insight

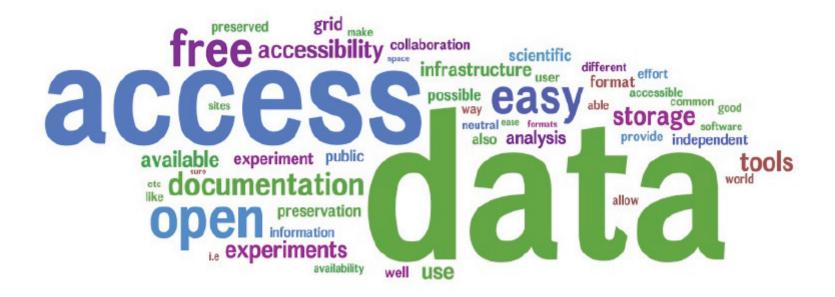


- Insight into issues of Permanent Access to the Records of Science in Europe
- Objectives:
 - Develop a roadmap and recommendations for building the e-Science infrastructure in order to maintain long-term access and use of scientific digital information in Europe

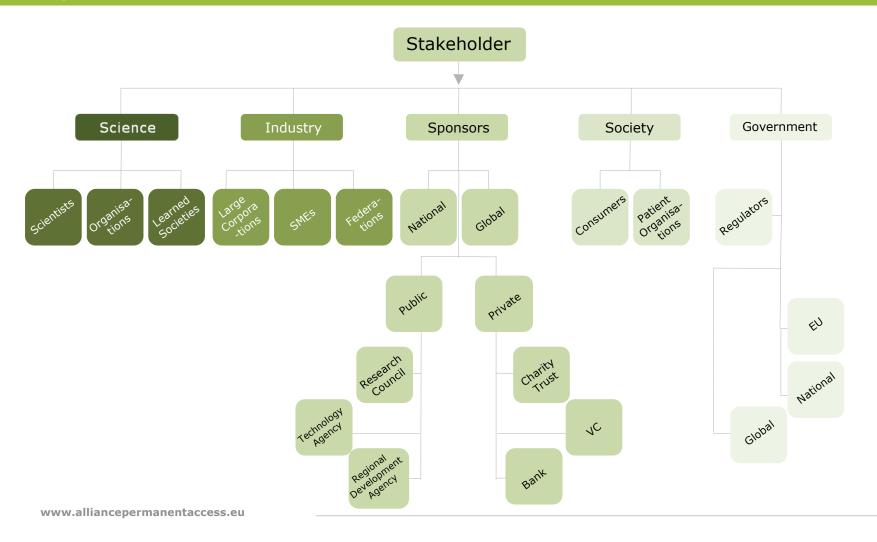
Grand challenges



Clear message needed



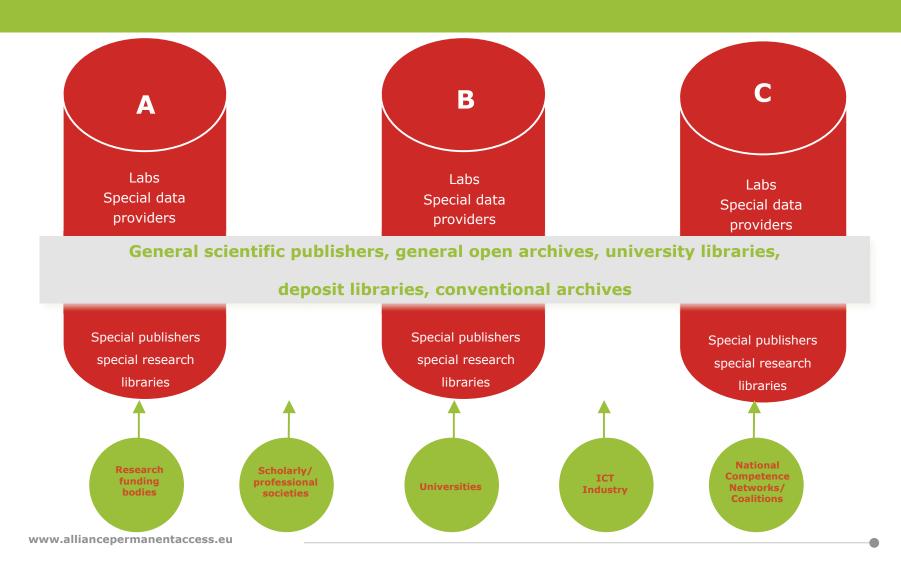
Whose problem is it anyway, who is picking up the check?



Towards permanent access

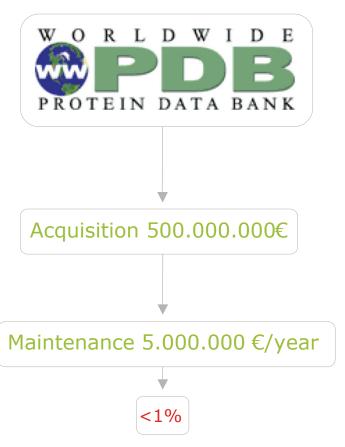
- Management & Organisation
- Policy & strategy
- Standardisation
- Technical issues
- Legal Framework
- Finance

Management & Organisation



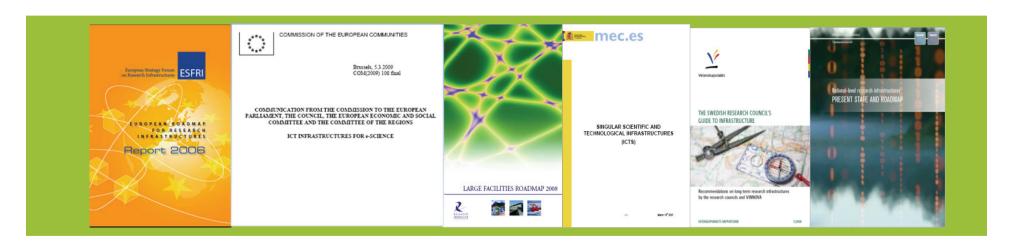
Community example | ELIXIR





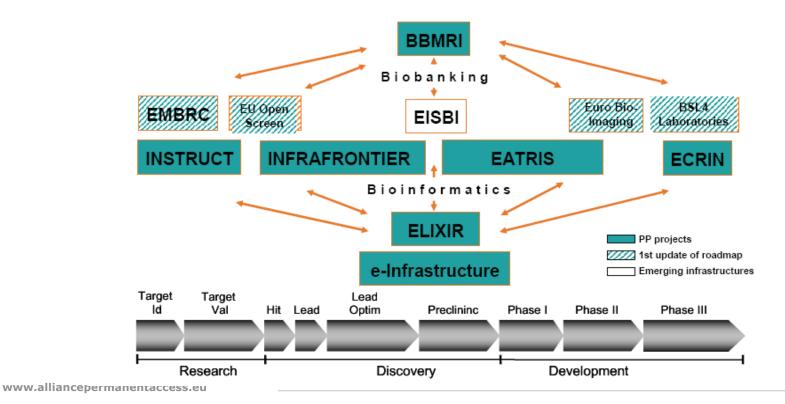
Policy & Strategy

- EU | ICT infrastructure for e-science
- ESFRI | roadmap | preparatory phase
- Nations | national roadmaps

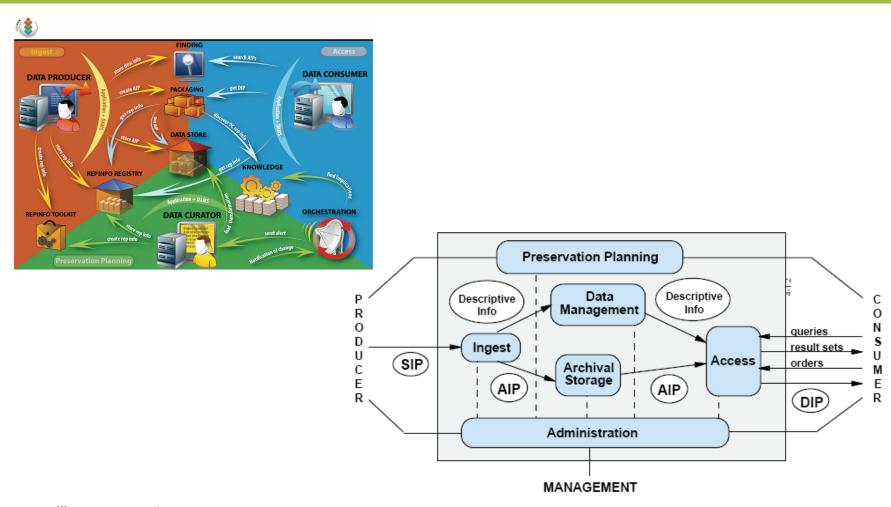


Policy & Strategy | ESFRI

Synergies of BMS Research Infrastructures



Standardisation & Technical Issues



A European Digital Information Infrastructure to take care of these issues

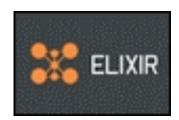
- Identify core physical digital archives/repositories in several initial communities and among cross-community organisations. Do this for documents and for data
- 2. These must *OAIS-compliant* to ensure proper archiving, interoperability and longterm preservation
- 3. Framework for *metadata*, Framework for *persistent identifiers*, and number of *registries*, possibly *other standards*
- 4. Cost-effective preservation methods and services must be available
- 5. Common framework of *principles and guidelines for management of access and rights* (underlying the technical tools to implement this framework)
- 6. Create *Financial mechanism* for developing and testing implementation tools, techniques and services, and for strengthening collaboration and training
- 7. a. *Certification service* providers, accredited according to
 - b. Common European accreditation mechanism.

Changing European landscape



















- Lack of funding possibilities
 - There is no lack of funding possibilities, but there are a lot of good projects in vain seeking funding



- Unmet needs
 - Few projects are tailored to meet funding requirements, and funders are really looking for high impact opportunities



- Sources of funding
 - Differences between public and private funders, but also differences between various public funders



- Stakeholders value
 - Projects are becoming more and more complex, the days of single community approach have passed, stakeholders might have different views on the same project



Finance



Keeping the records of science accessible

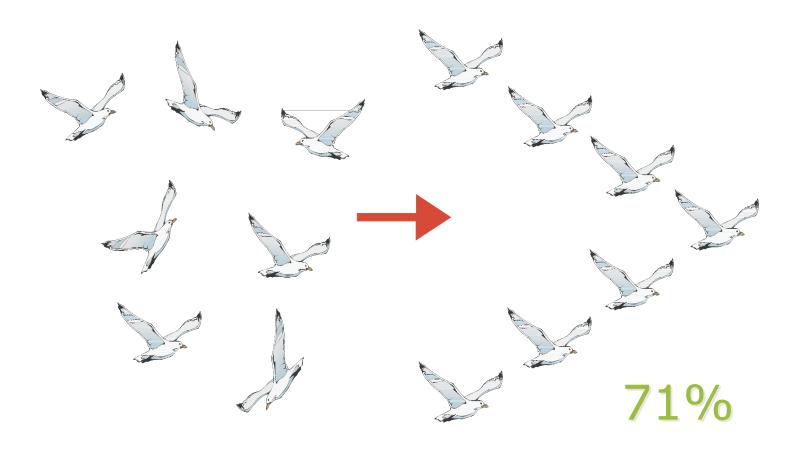
- Leadership
- Science breakthrough / Market opportunity
- Involvement of all relevant stakeholders
- Sense of urgency / Unmet need
- Support from the top



Alliance aims to:

- Establish wide consensus at strategic level among major stakeholders
- Promote creation of main building blocks of the infrastructure
- Work with European partners to ensure that technology, skills, and standards are in place
- Work with public and private funders
- Be key anabling mechanism for national governments and the EU
- Offers platform for effective coordination and sharing information
- Strengthen role of European parties in world-wide efforts

The European Approach



Annual Conference 24 November 2009



- Keeping the records of Science Accessible: towards a sustainable scientific data e-infrastructure!
- Den Haag, The Netherlands

Thank you

For more information, please contact:

Alliance for Permanent Access

PB 90407

2509 LK The Hague

The Netherlands

t: +31 70 3140367

www. alliancepermanentaccess.eu