В

B

Ligue des Bibliothèques Européennes de Recherche Association of European Research Libraries

The role of research libraries in a European e-science environment

Wouter Schallier LIBER Executive Director



18° Πανελλήνιο Συνέδριο Ακαδημαϊκών Βιβλιοθηκών Ψηφιακό Επιστημονικό Περιεχόμε[,] Δημιουργία, Διάθεση, Διατήρηση

λιοθήκη & Κέντρο Πληροφόρησης νεπιστήμιο Πατρών, 6 Νοεμβρίου 2009

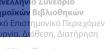


- www.libereurope.eu
- The largest network of European research/academic libraries: 400 institutions, from over 40 countries
- <u>Mission</u>: to represent and promote the interests of European research/academic libraries, and of their users: students and researchers





- Research that requires/is
 - Large scale computing resources
 - Data-intensive
 - Carried out over the internet
 - Collaborative (team science, virtual science communities)
 - Distributed (networked science)
 - Interdisciplinary
 - Heterogeneous

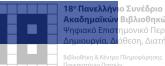




 "Data are no longer considered as interim products to be discarded once the research reporting them is published. Rather, they have become <u>important sources of</u> <u>scholarly content to be used and re-used</u>."

(Borgman, The role of libraries in e-science)

Ex. Hubble telescope, CERN Large Hadron Collider etc.





- Documents:
 - Formal: books, journal articles, proceedings etc.
 - Gray literature: reports, working papers etc.
 - Websites, blogs, wiki's, tweets etc.
- Primary/raw data:
 - result of observation, experimentation, calculation etc.
- And all mixtures of these



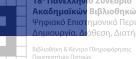


- PPT's
- Abstracts
- Biographies
- Podcasts
- Interviews
- Reports of break out sessions
- **.**...
- Full text papers





- E-science is already a reality but we can do more
- Internet, global connectivity
- Data deluge, data collection, data mining
- New and cheap means to share, distribute and publish information quickly
- More efficient use of technology in R&E essential for <u>European knowledge</u>
 <u>economy</u>
- Time of crisis = time of opportunities





Race against the time: the new generations are arriving at the university

Vs.

- Cultural change: how do you make researchers share data?
 - How do you make funding agencies reward collaboration and sharing data?
 - Current copyright/IPR rules are hindrance for e-science





- There is no other way
- Collaboration is a necessity
- Gives visibility and recognition



ιήνιο Συνέδριο ιών Βιβλιοθηκών ιιστημονικό Περιεχόμει • **Λι**άθεση, Διατήοηση

Βιβλιοθήκη & Κέντρο Πληροφόρη Πανεπιστήμιο Πατρών, 5 - 6 Νοεμβρίου 2009



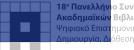
- "Digital Europe a vision for the next 5 years": 4 priorities:
 - Easy access to digital content ("modern copyright and IPR rules are essential for the development of attractive digital content")
 - Safe and consumer-friendly space for mobile payments
 - Digital economy open to small businesses
 - Innovative ICT solutions for low-carbon economy
 - (V. Reding, Brussels, 9 July 2009)



- EC E-infrastructures Concertation and Consultation Meeting, Brussels 12-13 October 2009 (http://www.beliefproject.org):
 - GEANT (backbone for European data networking)
 - Sharing computational resources (e-science grid, supercomputing)
 - Global virtual research communities
 - Scientific data
 - Simulation and visualisation



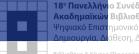
- Essential
- Results of publicly funded research should be available in public domain
- Allows verification and replication of findings
- Stimulates international competition based on excellence



ίϊκών Βιβλιοθηκών Επιστημονικό Περιεχόμε νία, Δι</mark>άθεση, Διατήρηση



- Ubiquitous, trusted and easy access to (discovery of) research data
- Integrity
- Version management
- Semantics: how to interpret data?
- Ownership of data
- Long term preservation
- Visualisation





- Licensing
- Technology and sustainable infrastructure (funding!)
- Repositories
- Use and re-use
- HR: data managers
- "Data repositories may become the new special collections for research libraries" (Borgman)



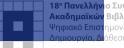


- Kill the library as book and journal store!
- Integration of library services in virtual research and education environments
- Support to data producers
- Recruitment of content
- Digital repositories: data!
- Enhanced publications: annotations, recommendations, primary data, podcasts etc.





- Observe the angry young (wo)men
- They ALL deal with information/data!
- How do they:
 - Access
 - Disseminate
 - Preserve
 - Legitimise CONTENT



ιργία, Διάθεση, Διατήρησ «η & Κέντρο Πληροφόρησης όμο Πατοών



- E-science requires
 - New strategies for research support
 - New infrastructures
 - Integration in scholarly workflows
 - Skilled library professionals



- Annual Conference "Re-inventing the library. The challenges of the new information environment", 29 June-2 July 2010
- "Books and reading in the digital age". 5-6 July 2010 (to be confirmed)
- Interested?
 - Subscribe to LIBER-NEWS/LIBER-ALL
 - Join LIBER on LinkedIn
 - Subscribe to RSS at <u>http://www.libereurope.eu</u>





- ARL (2007), Agenda for Developing E-science in Research Libraries
- ARL (2009), Transformational Times: an Environmental Scan prepared for the ARL Strategic Plan Review Task Force
- Borgman Ch. (2008), The Role of Libraries in E-Science (PPT at EAHIL Helsinki)
- EC (2009), E-infrastructures Concertation and Consultation Meeting, Brussels, 13/10/2009
- Gold A. (2007), Libraries and the Data Challenge: Roles and Actions for Libraries. In D-Lib Magazine, Sept/Oct 2007

- Reding V. (2009), Digital Europe: a vision for the next 5 years, Lisbonne Council, Brussels, 9/7/2009
- Wikipedia, <u>http://en.wikipedia.org/wiki/E-Science</u>





Wouter SCHALLIER LIBER Executive Director

+31 6 29 04 79 52 wouter.schallier@kb.nl

"Making the case for European Research Libraries"

Join LIBER on www.libereurope.eu

