

European Commission and e-Infrastructures for OA

Open Access Forum 2011
Experts Meeting on the UNESCO OA Strategy
Paris 22 November 2011

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European Commission - DG INFSO



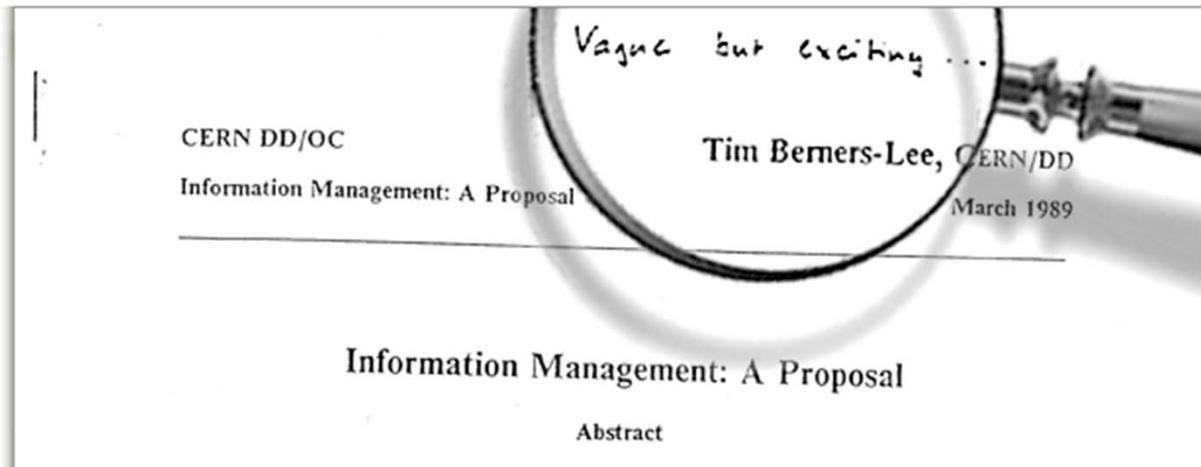
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on-line planet born 20 years ago

20 years ago Tim-Berners-Lee (CERN) proposed a vague but exciting idea... We call it today the "World Wide Web".

In March 1989, Tim Berners-Lee submitted a proposal for an information management system to his boss, Mike Sendall. '*Vague, but exciting*', were the words that Sendall wrote on the proposal, allowing Berners-Lee to continue.

[Full text](#) of the proposal in html.



Europe 2020

Smart	Sustainable	Inclusive
Innovation « <i>Innovation Union</i> »	Climate, energy and mobility « <i>Resource efficient Europe</i> »	Employment and skills « <i>An agenda for new skills and jobs</i> »
Education « <i>Youth on the move</i> »	Competitiveness « <i>An industrial policy for the globalisation era</i> »	Fighting poverty « <i>European platform against poverty</i> »
Digital society « <i>A Digital Agenda for Europe</i> »		

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characteristics of Research Infrastructures

- offer scope for world-leading research
- be of broad interest (research, education, innovation, socio-economic development...)
- be used by several research teams/users with highly advanced projects
- be so-large (in some sense) that individual groups cannot operate them on their own
- have long-term plans for their scientific objectives, funding and exploitation
- be open and accessible for researchers
- be persistently providing services (24/7)
- ...

Inspired on presentation from Swedish Royal Science Academy



European Data Infrastructure

Our dna...

Preparatory work done 2005-2006

Started investing resources with FP7 (2007-2013)

e-Science

Multidiscipline research and education

Global collaborations

Information continuum (human and machine readable information)

Participatory/open infrastructure architectures



European Data Infrastructure

Digital Agenda and Innovation Union

- Dialogue with stakeholders
- COMs being prepared end of 2011 and 2012
- Coordination with EU Member States
- Coordination with European Parliament



Future

- ERA framework/Knowledge Circulation
- Looking to HORIZON 2020... (2014-2020)
- Research Infrastructures in FP8



riding the wave

Riding the wave

How Europe can gain from the rising tide of scientific data

Final report of the High Level Expert Group on Scientific Data
A submission to the European Commission

October 2010

http://bit.ly/riding_the_wave

"Our Vision is a **scientific e-infrastructure** that supports seamless access, use, re-use, and trust of data. In a sense [...] the **data themselves become the infrastructure** – a valuable asset, on which science, technology, the economy and society can advance".

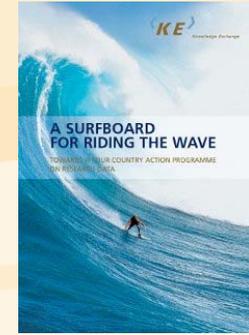
Report of the High-Level Group on Scientific Data, Oct 2010

"Riding the wave: how can Europe gain from the rising tide of scientific data"



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surfboards...



“The Riding the Wave report calls for a collaborative data infrastructure that will enable researchers and other stakeholders from education, society and business to use, re-use and exploit research data to the maximum benefit of science and society. ”

The Knowledge Exchange partners have embraced this vision.

The KE report “**a surfboard for riding the wave**”, published in November 2011, presents a four country(1) action programme on research data.

<http://www.knowledge-exchange.info/Default.aspx?ID=469>

(1) KE countries are Denmark, Germany, the Netherlands and the United Kingdom

open data strategy

The new strategy is built on three ambitious complementary strands:

1. Revising the **framework** in favour of **data re-use**, including legal, policy and soft law measures where appropriate and necessary
2. **Mobilising financing instruments** by prioritising open data in R&D&I and infrastructure programmes.
3. Facilitating **coordination and experience sharing** across the Member States.



Horizon 2020, a new cycle of R&D&I

The European Framework Programme
for 2014-2020

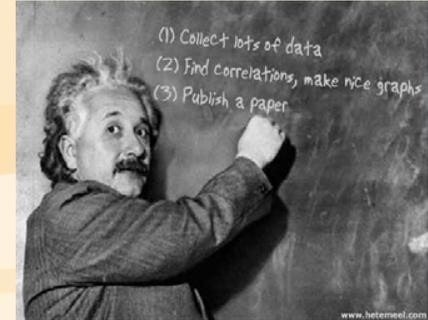
EC proposal: increase investment

Good opportunity to launch new
ideas, new challenges and new
collaboration frameworks...

Research Infrastructures and e-
Infrastructures as key elements
for excellence in science base



scholarly communication and data



We don't know how scholar communication will adapt to new paradigms bringing closer human and machine readable information, new narrative approaches...

Opportunities for innovation in publishing

- New hypermedia narratives
- Publication + data = new concept of "enriched publications"
- Quality assessment
- Preservation policies and infrastructures

What will follow the FP7 OA Pilot...



- e-Infrastructures in Horizon2020 (OArizon2020...)
- Data Management Plans
- DAITF



Global frameworks to develop an open and interoperable data infrastructure

Joint participation in groups such as the G8+05 working group on data

creation preservation, access, underlying infrastructures, scientific/user communities

Support participatory, viable and cost effective e-infrastructure architectures

Support research communities to work together on interoperability, access policies, standards,...

Identify non-technical barriers and overcome them (legal, culture,...)



obrigado pela Vossa atenção



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