



The graphic features a central sun with 'RDF' written on it. To the left, two clouds labeled 'Sciences' and 'City' are raining 'data'. To the right, two clouds labeled 'WoT' and 'Open Data' are also raining 'data'. The background is a field of various flowers, including a bee on a white flower. At the bottom, a large green double-headed arrow contains the text 'LINKED DATA STANDARDS', with green roots extending down to a row of brown 3D blocks labeled 'Datasets'. The word 'Services' is on the left and 'Web Agent' is on the right.

Sciences City data

RDF

WoT Open Data data

Services Web Agent

# Journée Open Scientific Data

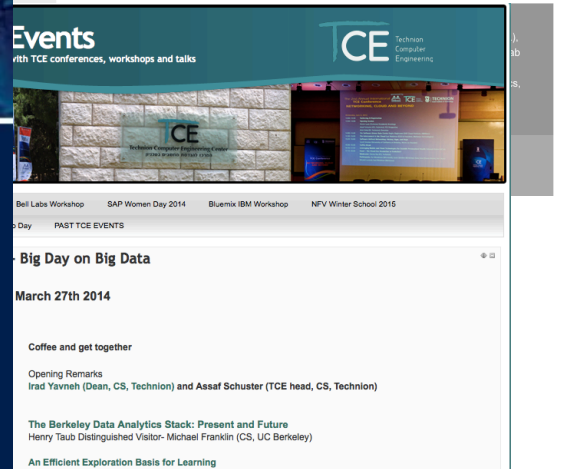
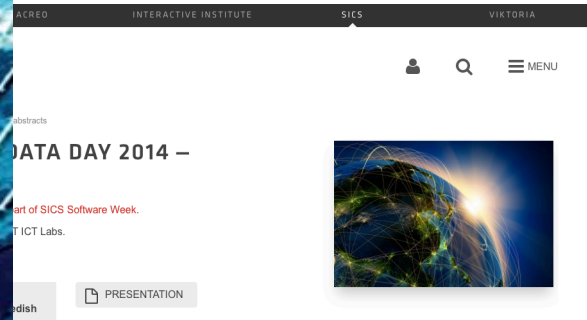
## 25 novembre 2014

### Orsay

LINKED DATA STANDARDS

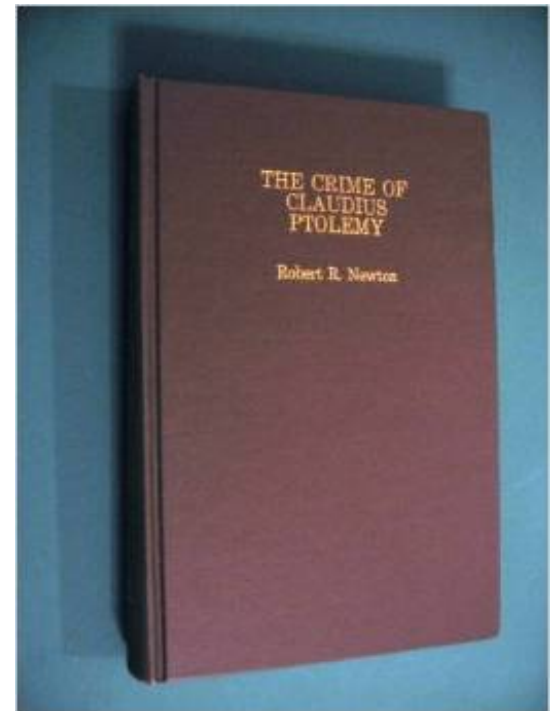
Datasets

# Drowning in Big Data days?

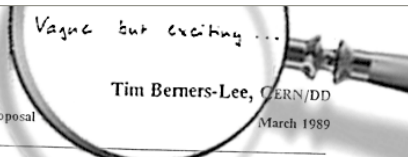


# Big and small share fundamental issues

- How to codify and represent our information and knowledge
  - How to (re)organize it
  - How to document it
  - Querying and visualization
- How to share it
  - Integrating data and literature
  - Curation and long-term preservation
  - Repeatability and reproducibility



# CERN March 1989



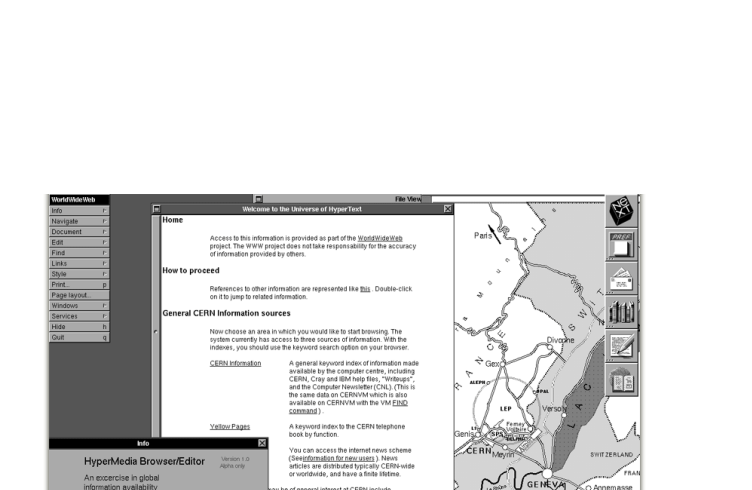
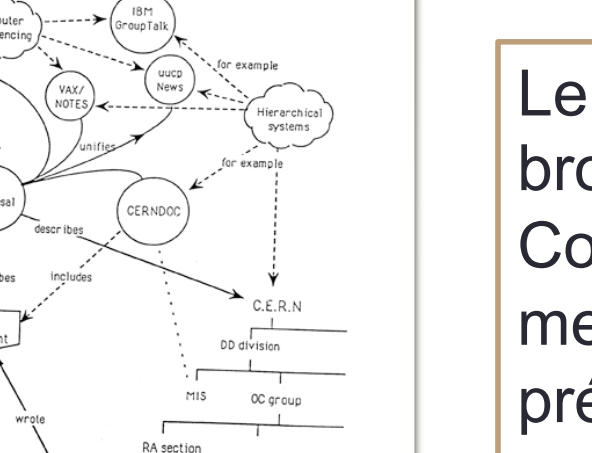
CERN DD/OC  
Information Management: A Proposal  
March 1989

**Information Management: A Proposal**

Abstract

This proposal concerns the management of general information about accelerators and experiments at CERN. It discusses the problems of loss of information about complex evolving systems and derives a solution based on a distributed hypertext system.

Keywords: Hypertext, Computer conferencing, Document retrieval, Information management, Project control

WorldWideWeb

Welcome to the Universe of HyperText

Access to this information is provided as part of the WorldWideWeb project. The WWW project does not take responsibility for the accuracy of information provided by others.

How to proceed

References to other information are represented like this: Double-click on it to jump to related information.

General CERN Information sources

Now choose an area in which you would like to start browsing. The system currently has access to these sources of information. With the indexes, you should use the keyword search option on your browser.

CERN Information

A general keyword index of information made available by the computer centre, including CERN, CERN and IBM help files, "Whiteboard", and the Computer Newsletter (CML). (This is the same data on CERNSYS which is also available on CERNSYS with the VM EBC command).

Yellow Pages

A keyword index to the CERN telephone book by function.

Info

HyperMedia Browser/Editor

Version 1.0

Alpha 0.01

An exercise in global information availability

by Tim Berners-Lee

Copyright © 1989, CERN. Distribution outside CERN for non-TECH-ONLY users is prohibited. Test which is not constrained to be linear. Code: Information which is not constrained linear... or to be test.

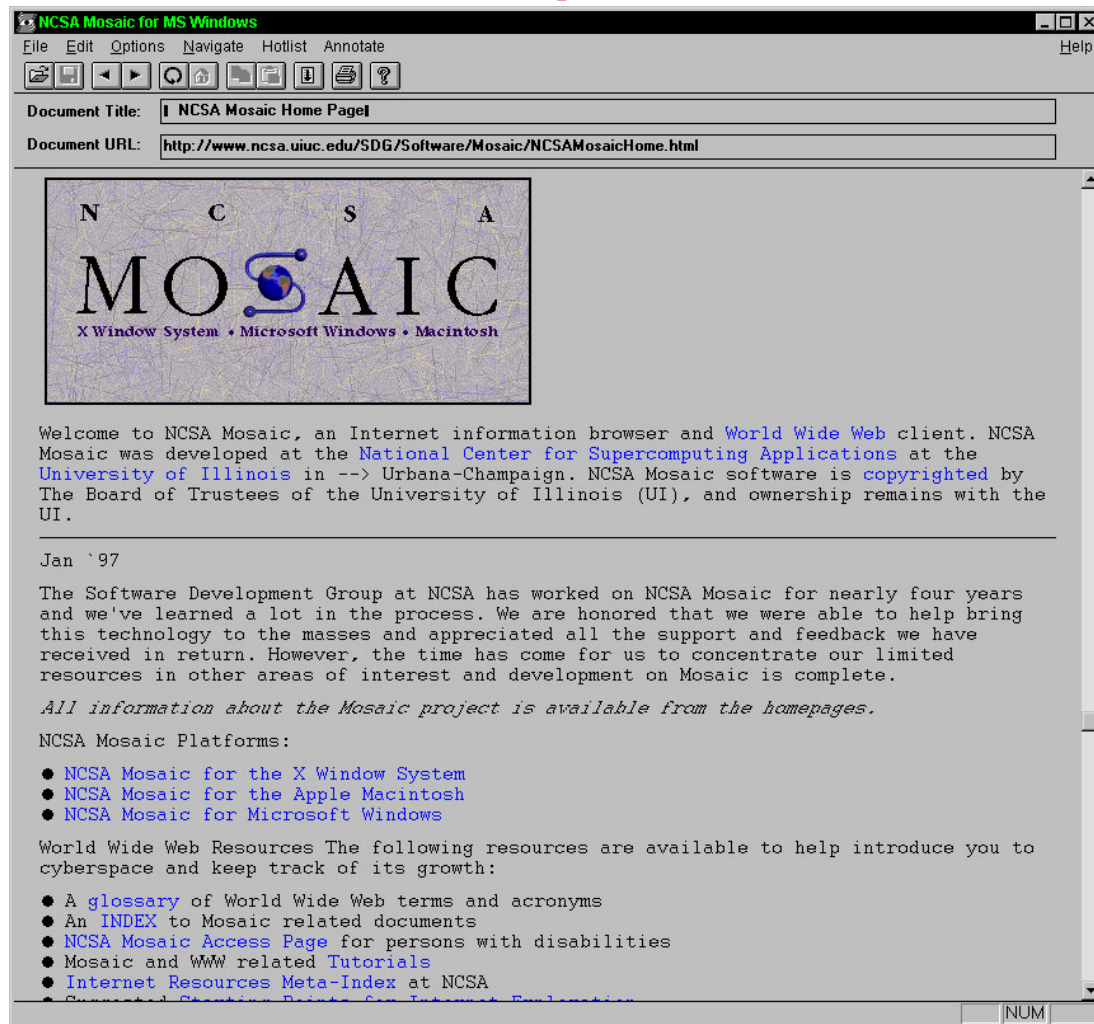
This is the first version of the NeXTStep WorldWideWeb application on the IBM WWW library. Bug reports to www-bug@info.cern.ch. Check the list of known bugs in the web box.

This was the original prototype for the WorldWideWeb. Many features for other platforms now exist. Read the web for details.

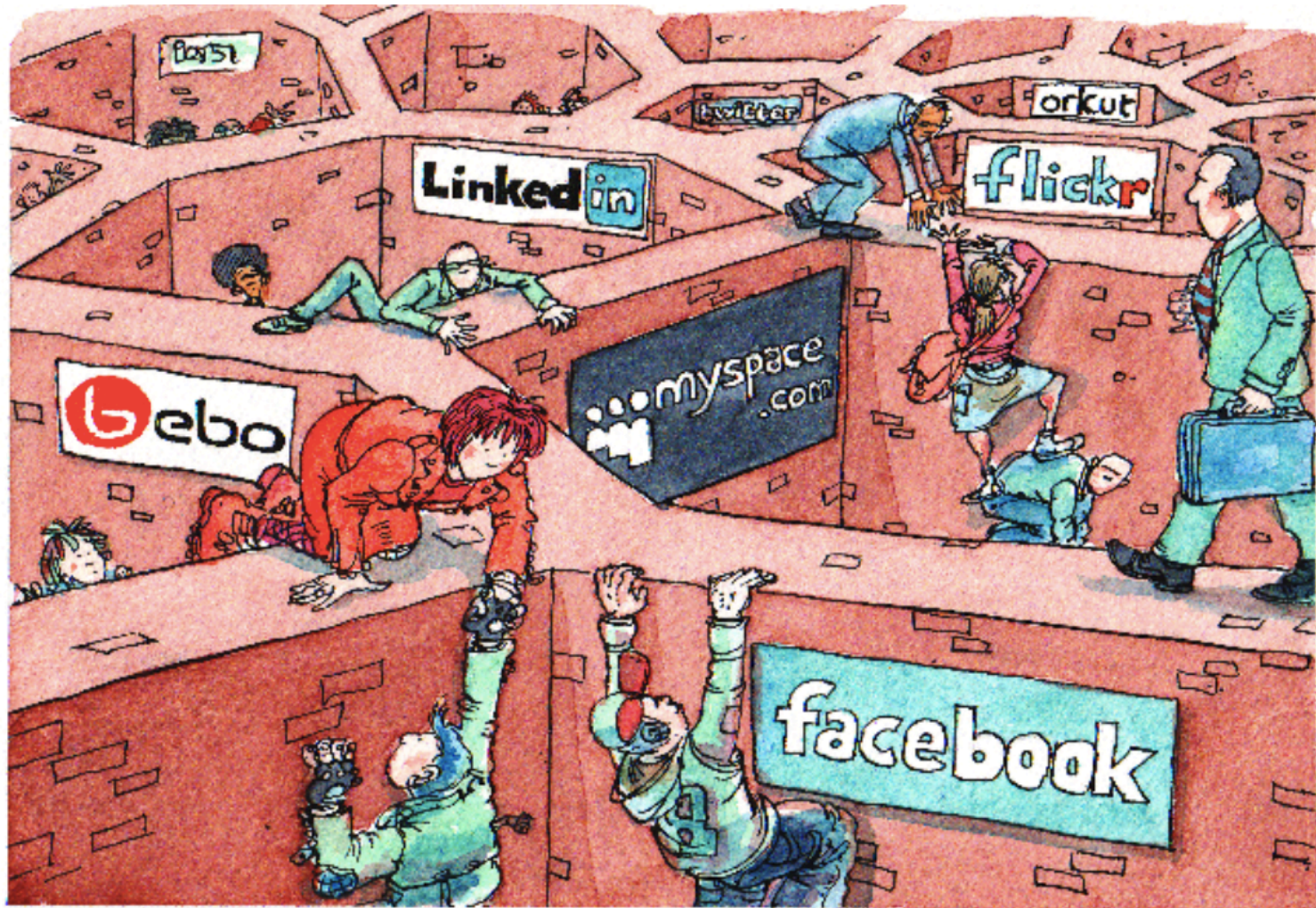
We should configure the newreader code in this application to know where your local news (NNTP) servers. Type in terminal window

Le WorldWideWeb  
browser-**editeur** :  
Construction collective de  
metadonnées, de  
préservation/curation,  
d'intégration de sources  
hétérogènes

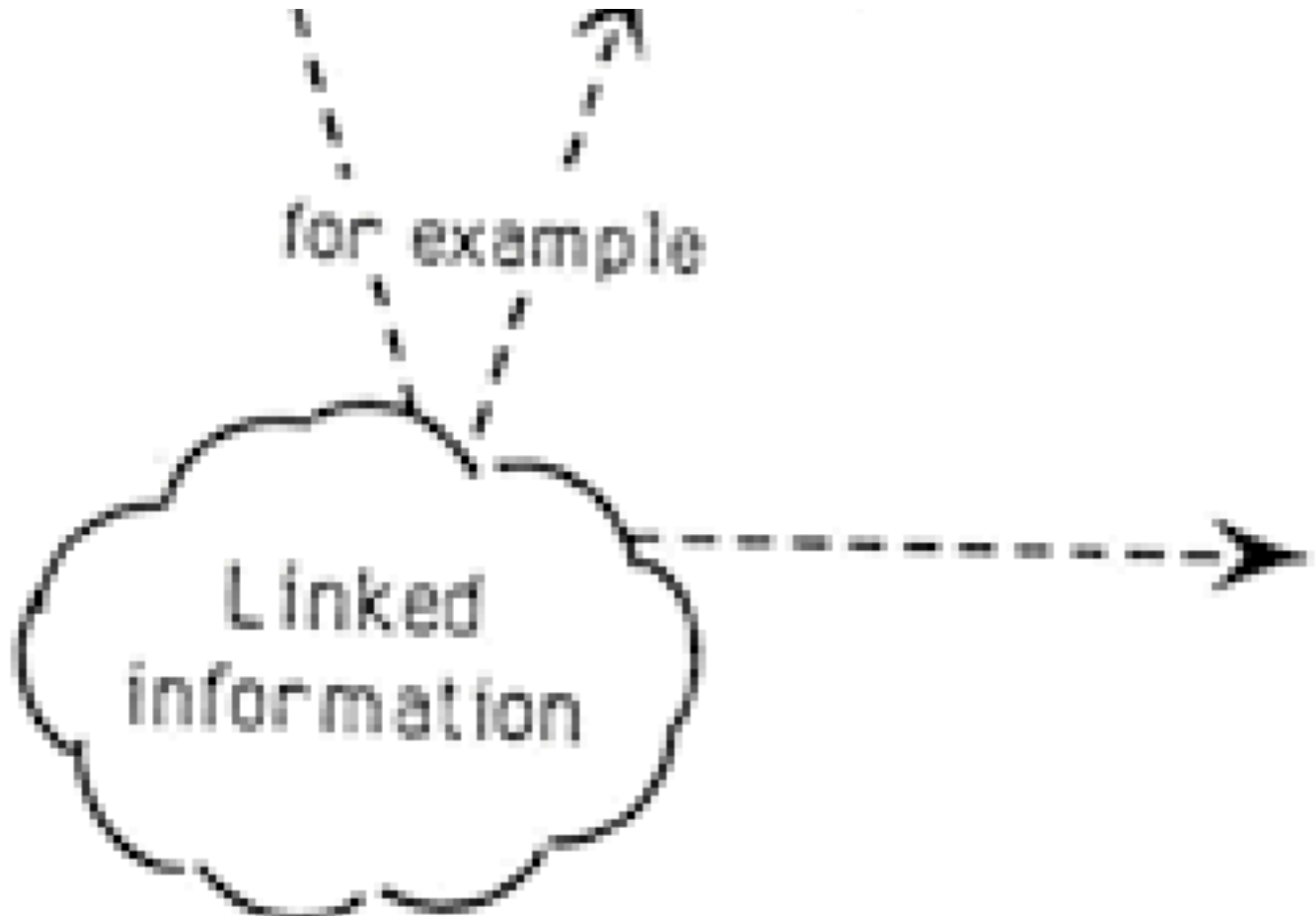
# 1993, NCSA Mosaic: text and images on-line on standard computers



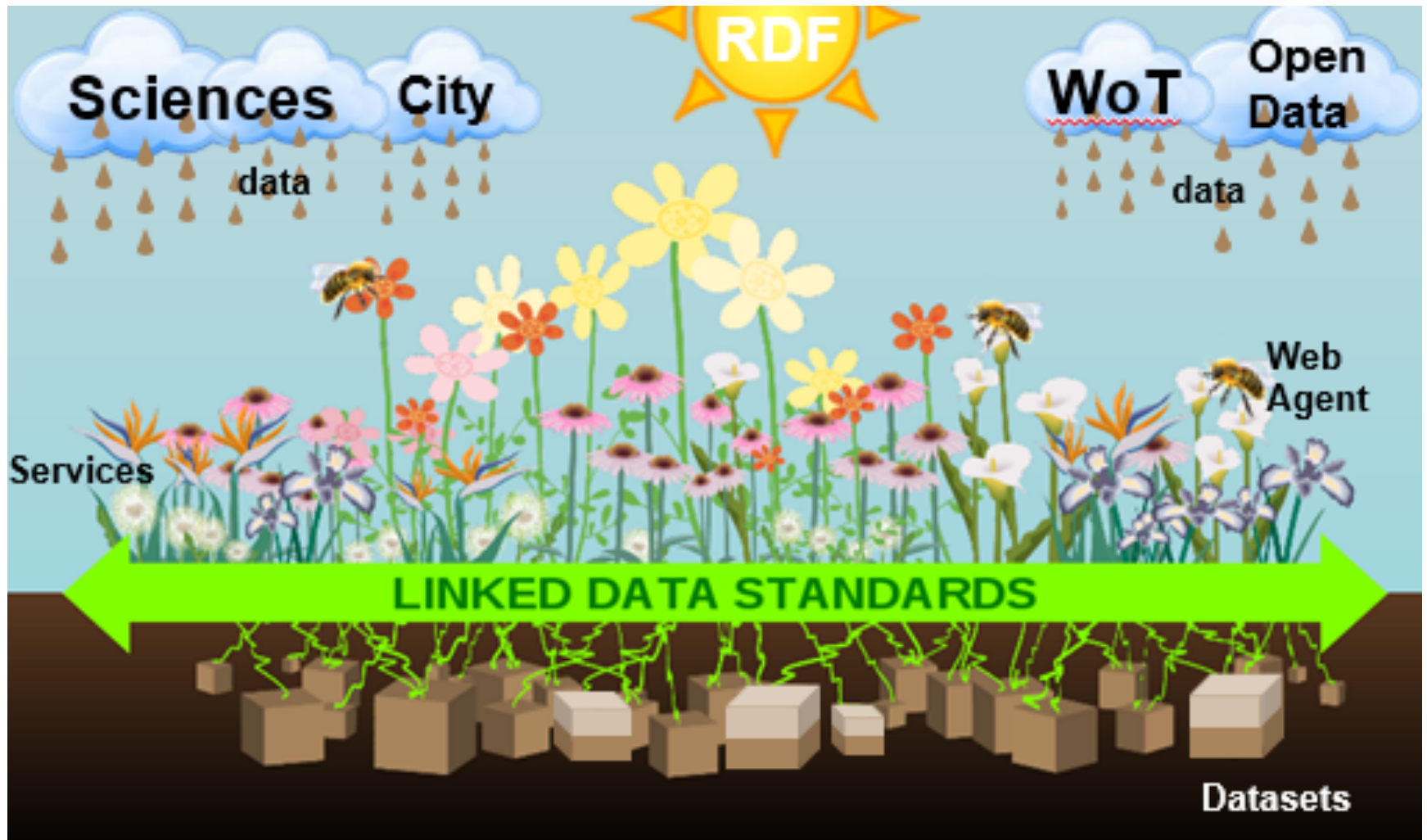
# Tim Berners Lee view at TED 2009



# Linked (Open) Scientific Data



# Tomorrow?





# ~~Tomorrow?~~ Today!



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Nombre de résultats : 1

Afficher 10 résultats / page 1 / 1

Procédure Catégorie Publié le	Référence   Intitulé Objet Organisme	Lots Lieu d'exécution Clauses soc./env.	Date limite de remise des plis	Actions
MAPA... Services 01/07/2014	<b>ub14.34</b> - Prestation de service portant sur la prestation d'intégration sémantique des bases de données distribuées à l'aide de triplestores. ... <b>Objet</b> : La tâche consiste à définir un serveur VIRTUOSO pour chaque source de données et un serveur central VIRTUOSO comme entrée principale pour interroger toutes les données. Cette architecture est un système d'information coopératif ... <b>Organisme</b> : Etablissements et Organismes d'Enseignement Supérieur et de Recherche - Université de Bourgogne (21078 - Dijon cedex)	- (21) Côte-d'Or	22/07/2014 12:00	  

Afficher 10 résultats / page 1 / 1

Nouvelle recherche →


# Open Data


## 5 Star Data Schema

- ★ Available on the web (whatever format) but with an open license, to be Open Data
- ★★ Available as machine-readable structured data (e.g. excel instead of image scan of a table)
- ★★★ as (2) plus non-proprietary format (e.g. CSV instead of excel)
- ★★★★ All the above plus, Use open standards from W3C (RDF and SPARQL) to identify things, so that people can point at your stuff
- ★★★★★ All the above, plus: Link your data to other people's data to provide context

# https://open-data.europa.eu/en/data

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---

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### What is this Data Portal about?

Are you looking for easy access to EU Data? Do you want to reuse data for research, an article, an application or something else?

You have come to the right place. The EU Open Data Portal is your single point of access to a growing range of data produced by the institutions and other bodies of the European Union.

Data are free to use, reuse, link and redistribute for commercial or non-commercial purposes.

### Popular terms

# Goals of the day

- Open/Linked data
  - Are useful to knowledge discovery/building
  - Not in a distant future, just now. Best period: **early adopter** time
  - For **all**, not just the big structures. Comes in many flavors, there is one for you
- Discover a sample of
  - The research data **intersecting** Paris-Saclay
  - Their scientific management procedures
- Discuss the specifics of scientific data
  - How to interpret Raw Data and Openness?
  - How to organize **crowdsourcing**?



## **Session Interopérabilité, Interdisciplinarité, Reproductibilité**

09:30 Turn your "digital self" into a knowledge base.

Serge Abiteboul (INRIA et ENS-Cachan)

10:00 Linked Open Data et la plateforme de Data as a Service de CDS

Karima Rafes (INRIA et BorderCloud)

10:40 Reproductibilité: l'exemple d'Image Processing On Line (IPOL)

Rafael Grompone (CMLA), Ives Rey Otero (CMLA)

## **Session Identifier et valoriser les données**

11:30 Les données de la recherche dans l'écosystème des publications scientifiques

Odile Hologne (directrice de l'information scientifique et technique à l'Inra)

12:00 Services pour identifier et valoriser : l'enregistrement de données via DataCite

Mohamed Yahia (INIST-CNRS)

12:30 Research Data Alliance

Patrick Cocquet (Délégué général Cap Digital)

## **Session Usages**

### **13h-13h25 : Posters**

14:30 Data Preservation@HEP

Jamie Shiers (CERN)

15:00 -16:15 Démonstrations & Posters

16:15- 17:15 Table ronde





**Sciences City** data

**WoT** **Open Data** data

**RDF**

**Services** **Web Agent**

# Journée Open Scientific Data

## 25 novembre 2014

### Orsay

**LINKED DATA STANDARDS**

**Datasets**

The graphic features a central sun with 'RDF' written on it, surrounded by clouds labeled 'Sciences City' and 'WoT Open Data', both with 'data' written below them. Raindrops fall from these clouds. Below the clouds is a field of various flowers, including irises and daisies, with a bee on one of them. The text 'Services' and 'Web Agent' is positioned on the left and right sides of the flower field respectively. A large green double-headed arrow points left and right across the middle, with 'LINKED DATA STANDARDS' written inside it. Below the arrow is a row of brown 3D blocks of varying sizes, with green lines connecting them, and the word 'Datasets' is written at the bottom right.