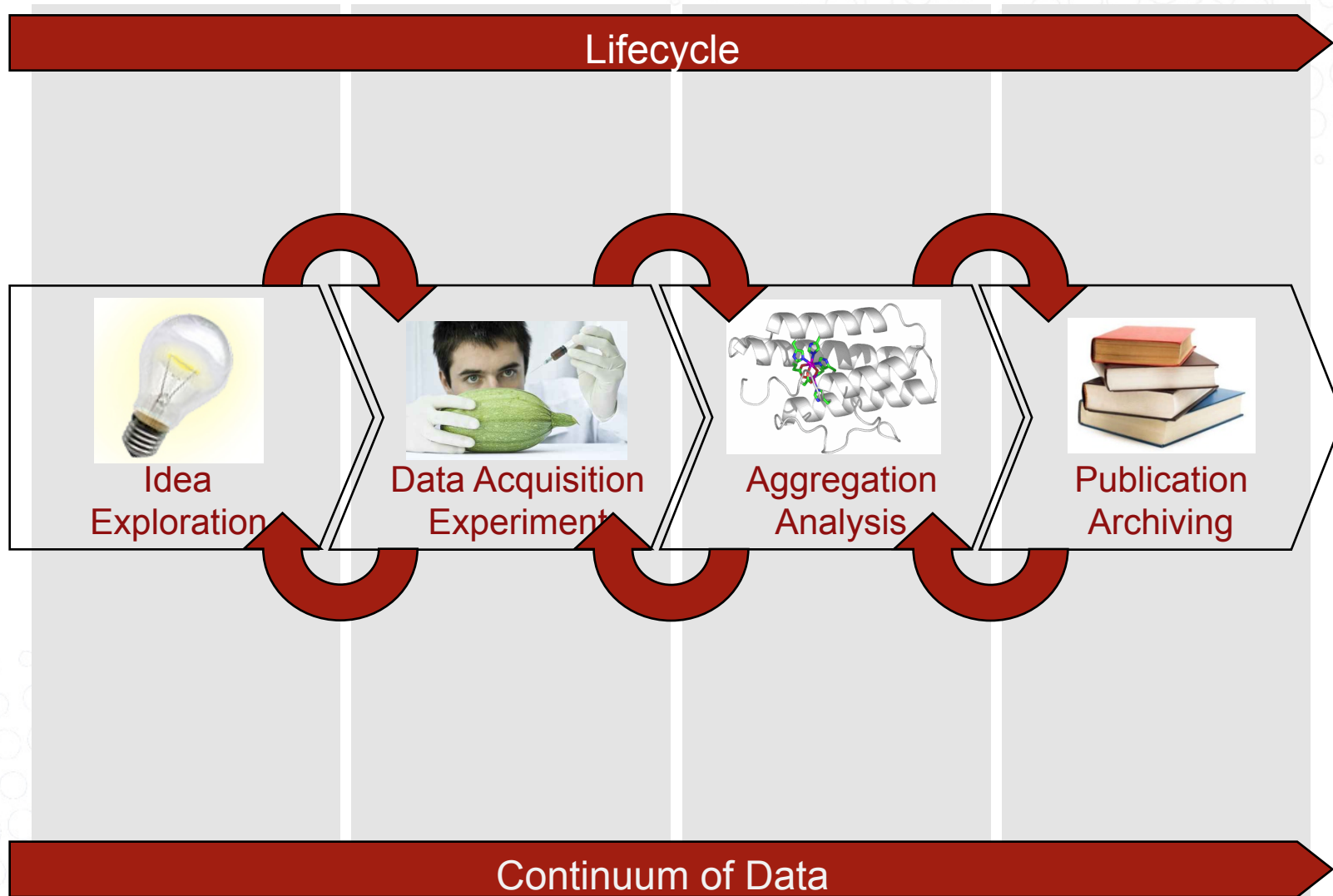
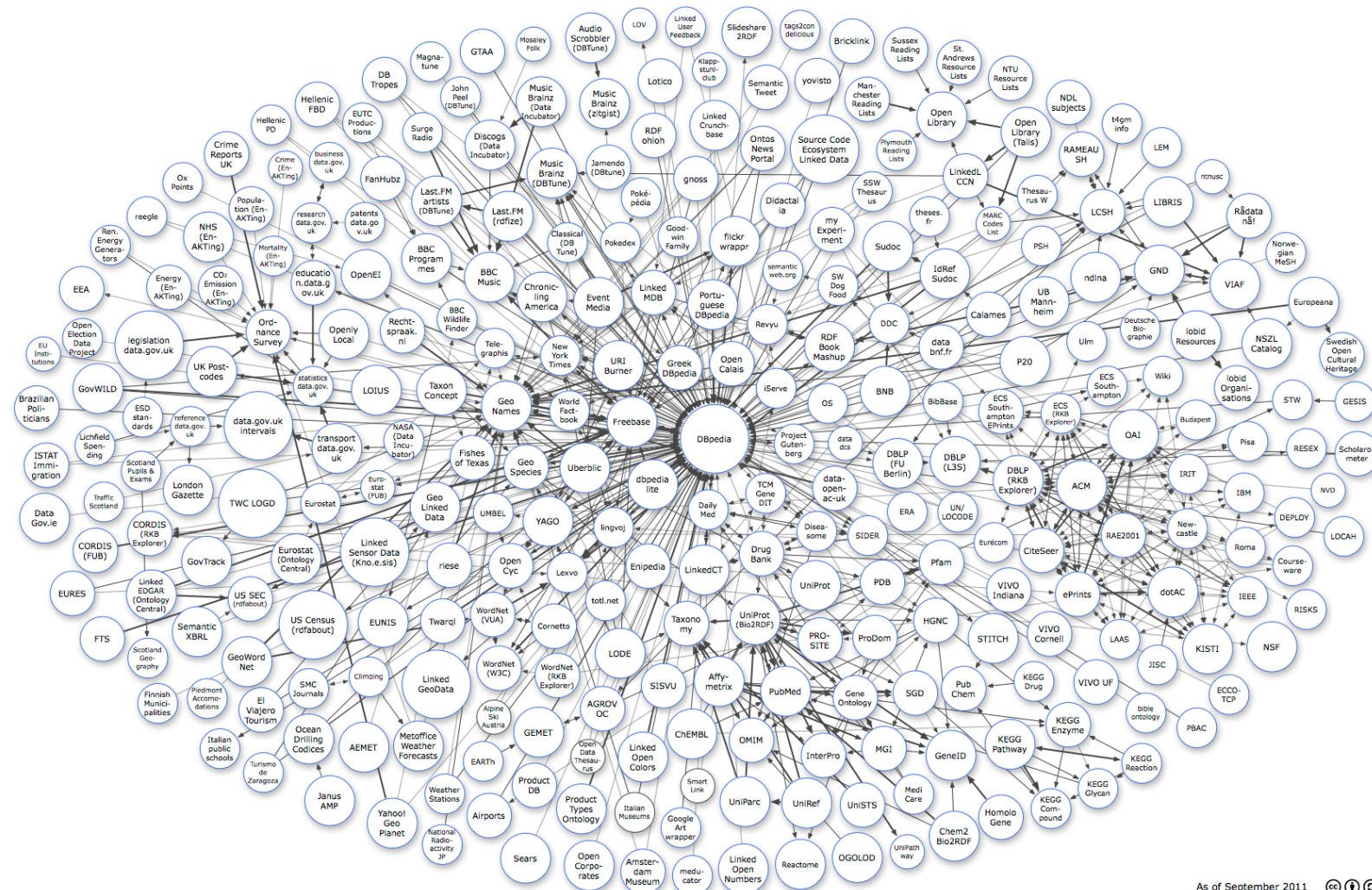


## Publication and Research Data

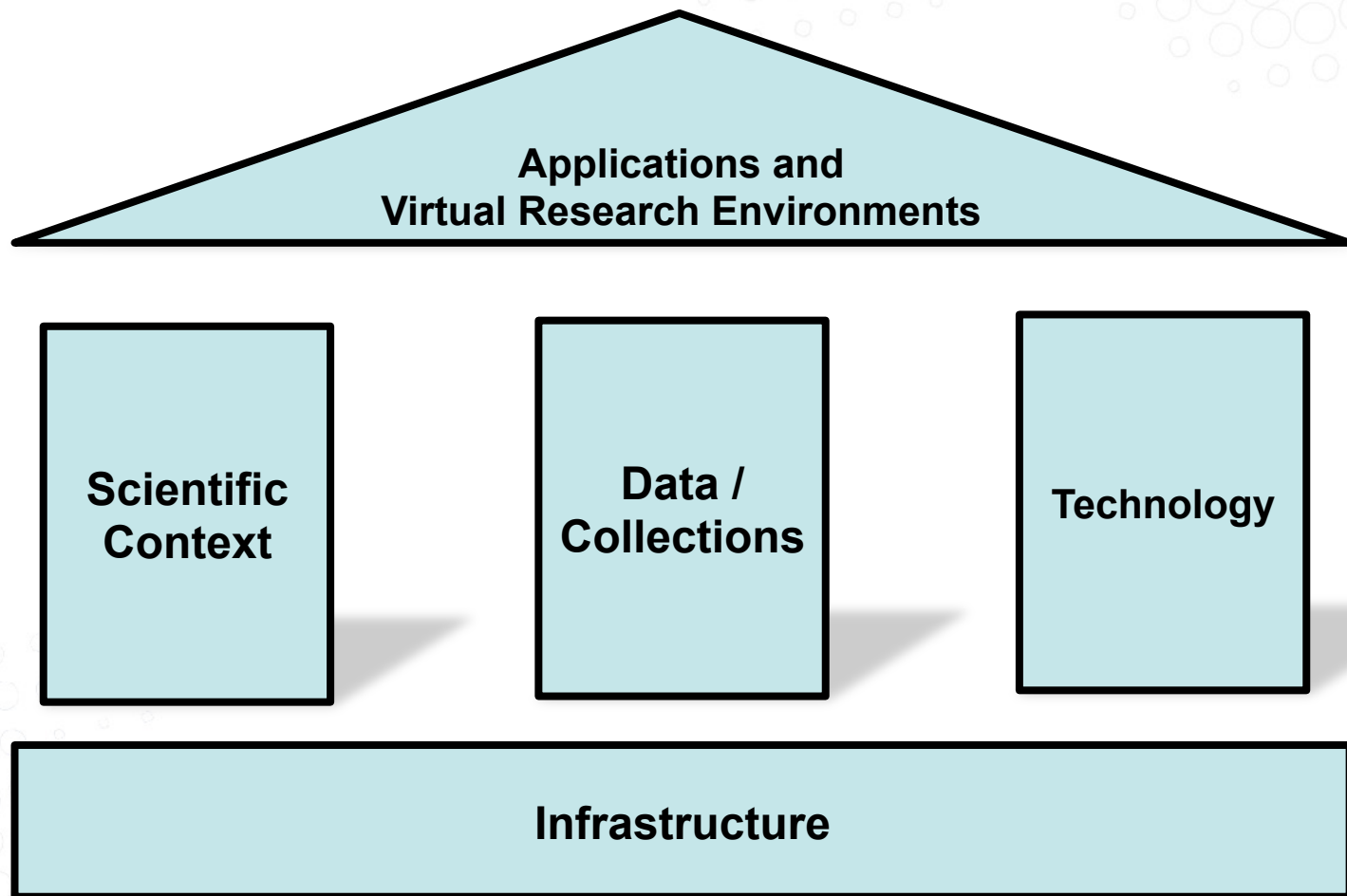


# Data Formats, Contents and Files: So Many





# Transparency of Scientific Discourse





## Transparency to Which Extend?

Dissemination, Portals, Integration

Tools

Manage, Edit, Discover,  
Publish

Per Content  
Type

Transformations  
Processes  
Semantic Techn

Repositories

Registries

Reference Data

Data Lifecycle Management

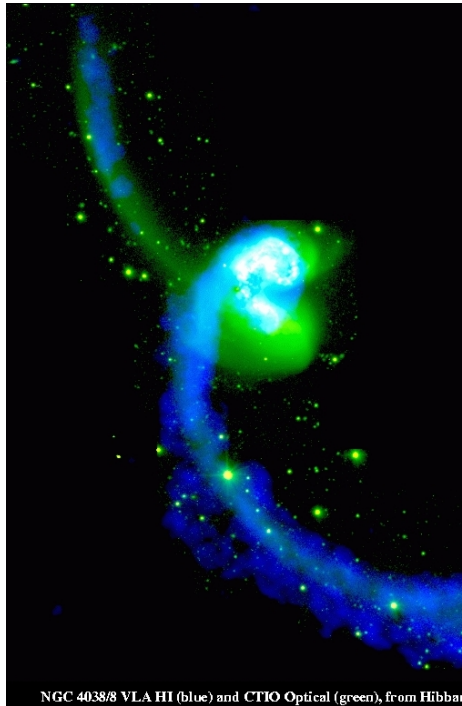
Technical Long Term Archiving



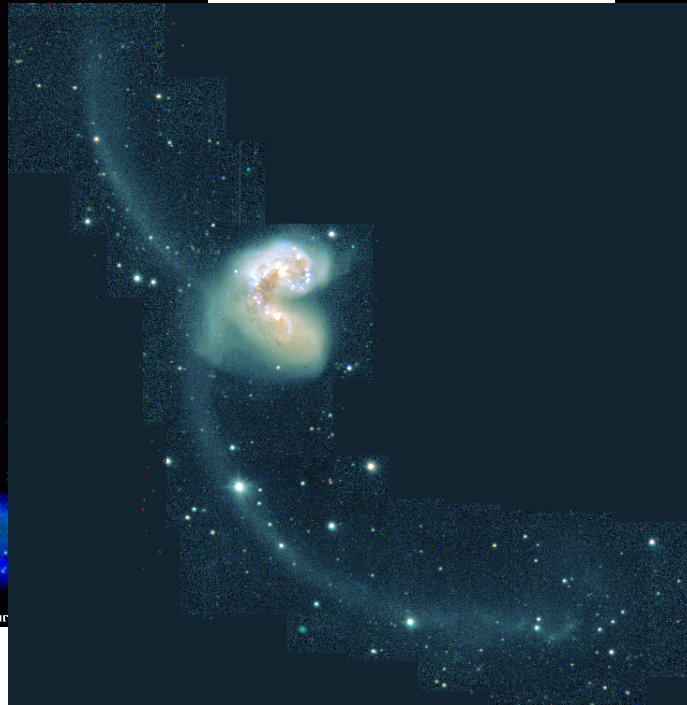


# Research Data /1: Astrophysics

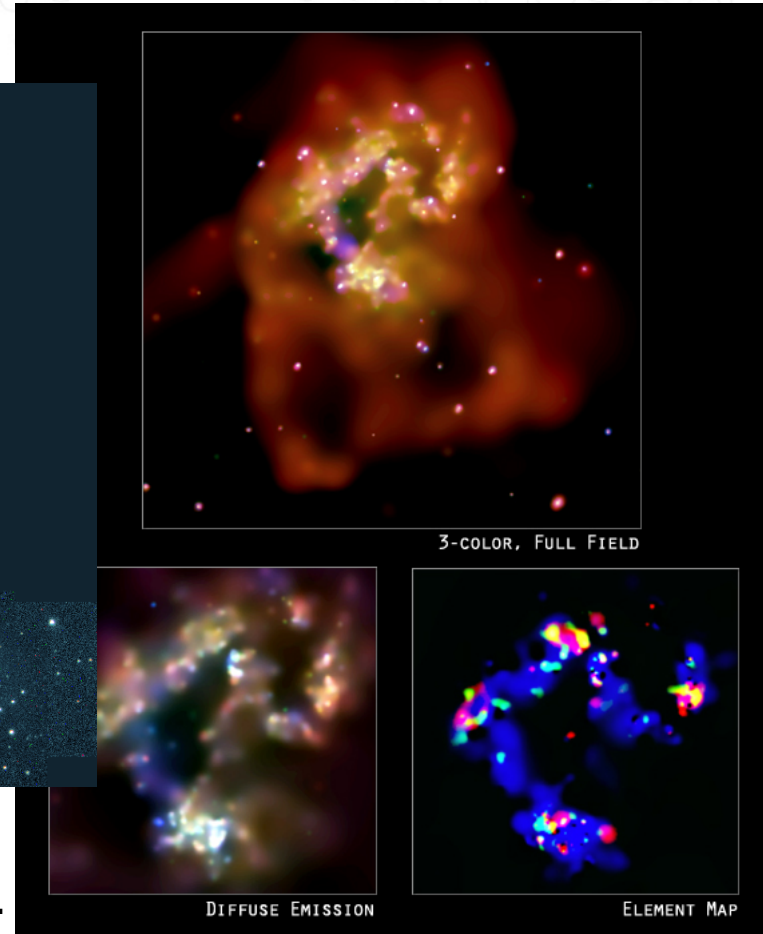
Radio



Optical



X-Ray

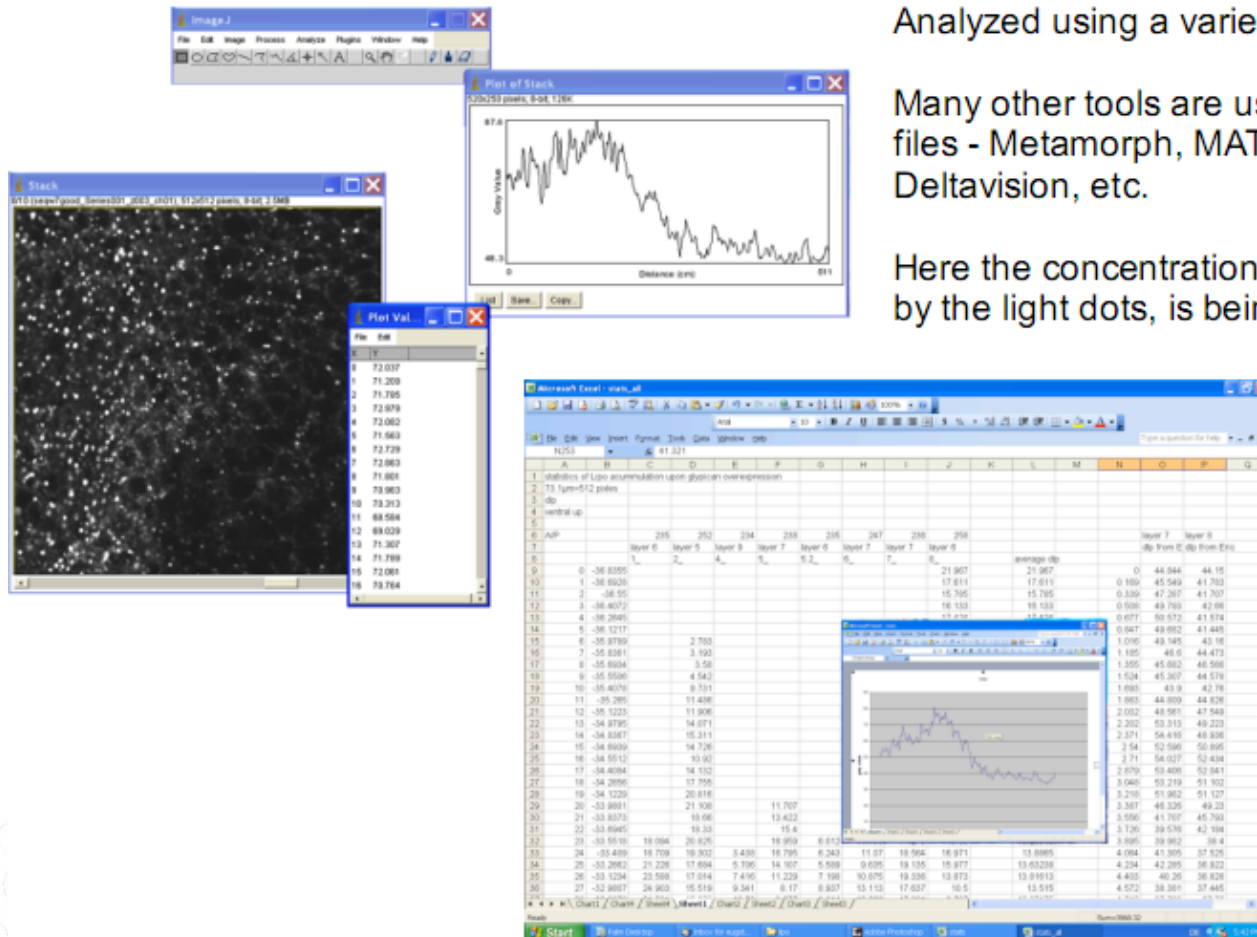


John Hibbard  
<http://www.cv.nrao.edu/~jhibbard/n4038/n4038.html>

NASA/CXC/SAO/G. Fabbiano et al.



## Research Data /2: Analysis Data

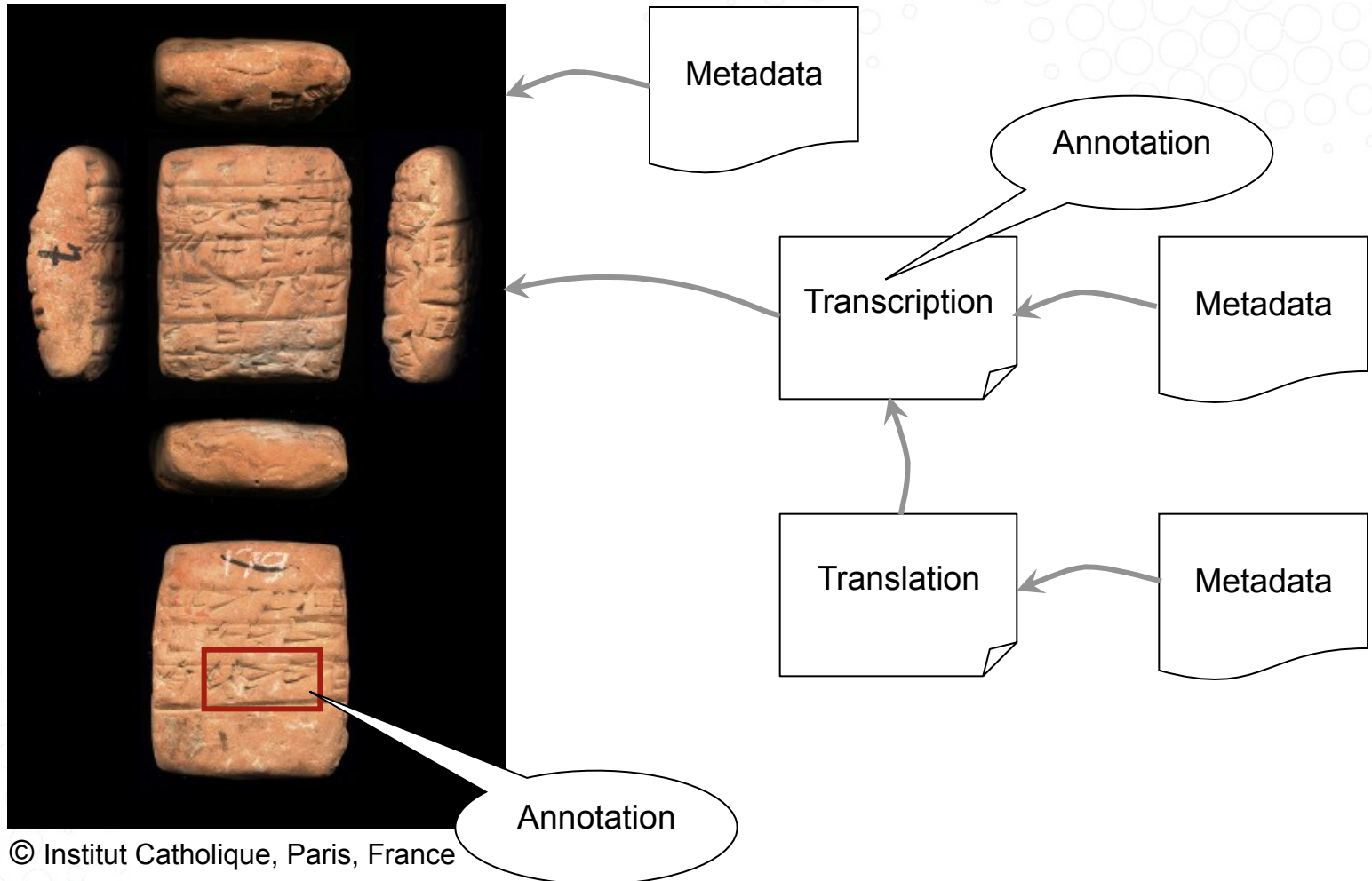


Analyzed using a variety of tools - Example ImageJ

Many other tools are used and generate a variety of files - Metamorph, MATLAB, Huygens, Definiens, Deltavision, etc.

Here the concentration of lipoprotein, as indicated by the light dots, is being examined and plotted.

## Research Data /3: Network of Interrelated Objects



© Institut Catholique, Paris, France

# Challenges

## Additional Needs

- Data Management Plans
- Data Citation
- Metadata
- Legal Constraints
- Data Sharing
- Cost Transparency
- Interoperability
- Extended Scholarly Record

## For

- Funders
- „Safeguarding Good Scientific Practice“
- Enabling for Re-Use and Re-Purposing
- OA Paradigm
- Higher Efficiency
- Open Science
- Scholarly Impact Measurement

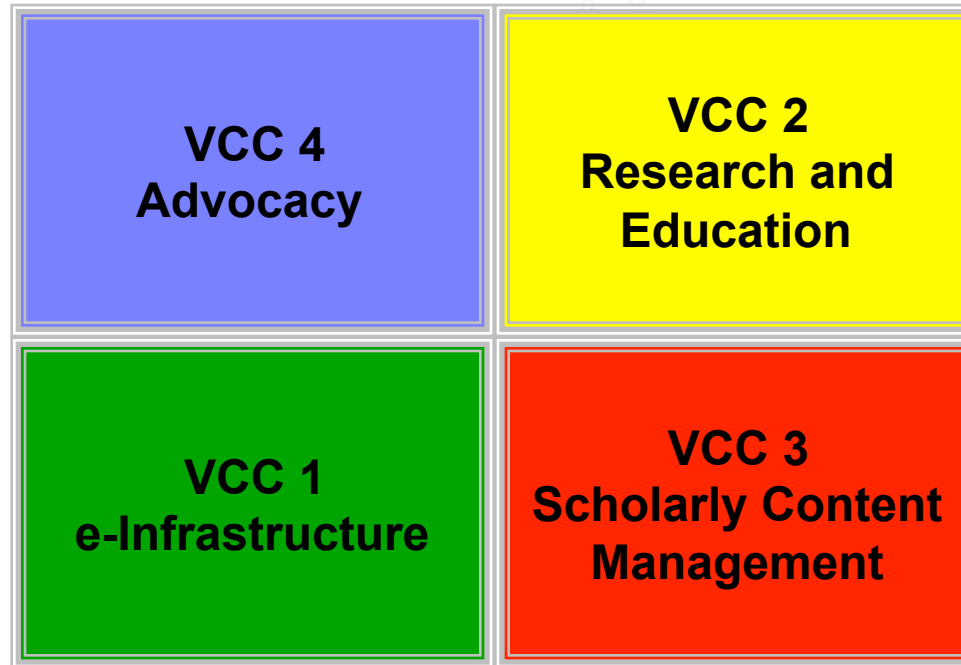




# Examples

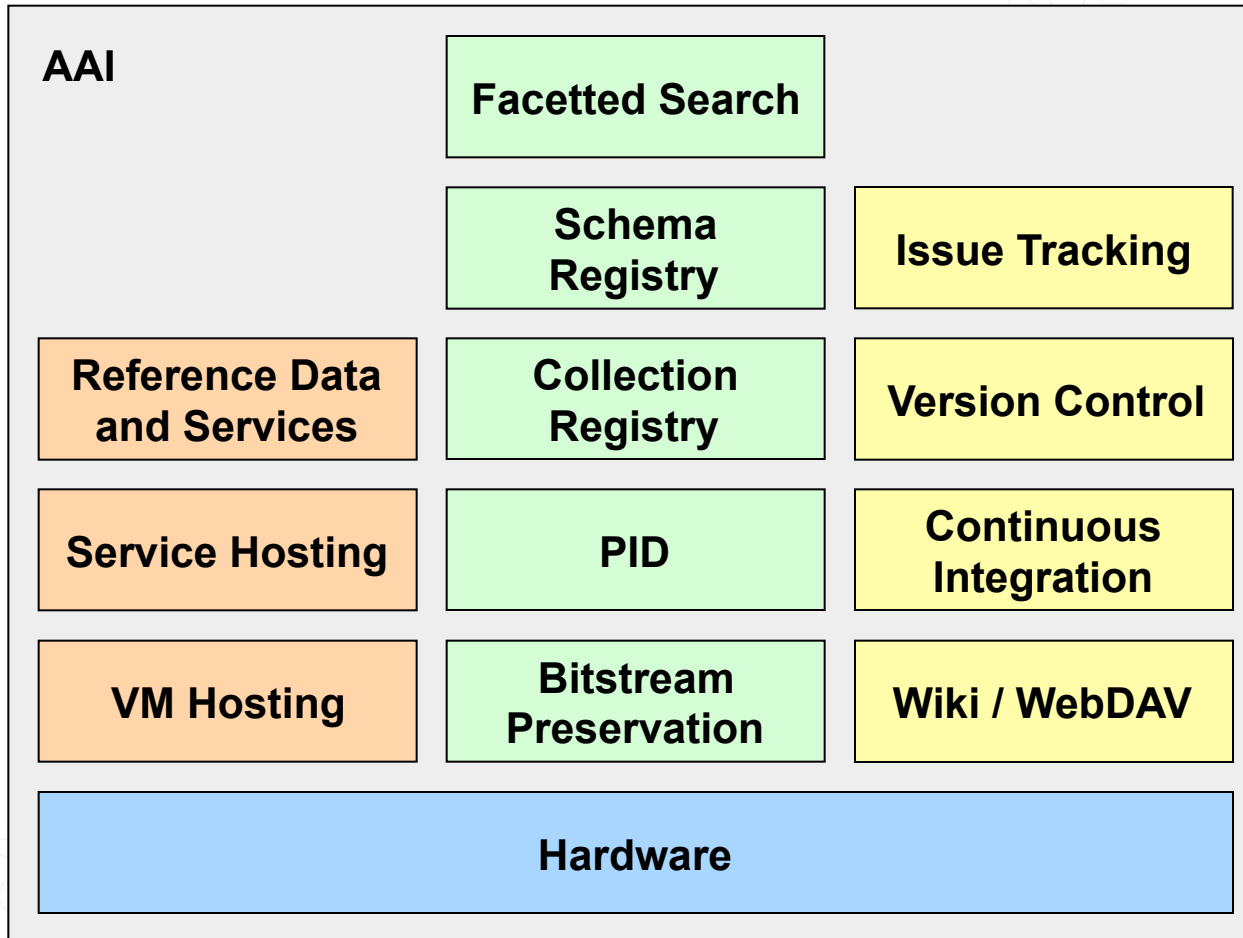


## Example: Digital Research Infrastructure for the Arts and Humanities DARIAH





## DARIAH e-Infrastructure



**Software Interoperability**

**Provenance Concept**

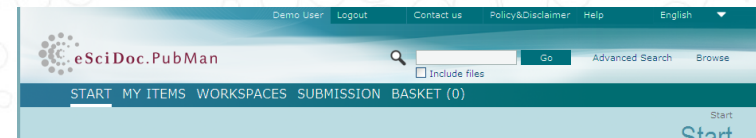
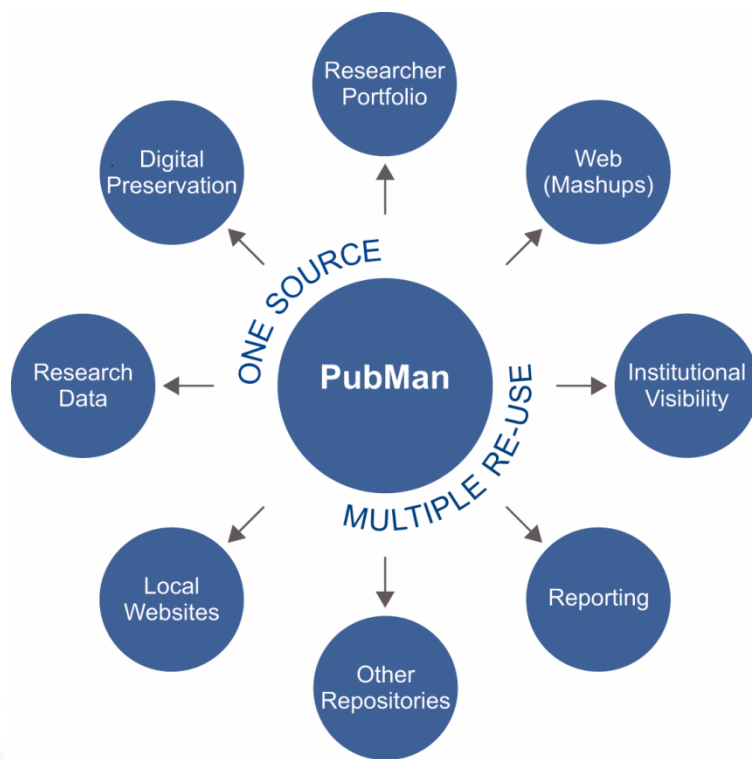
**Archive-in-a-Box**

**Guidelines**

**Responsibilities and Contacts**



# Infrastructure Technology: eSciDoc.org



**NIMS Researchers Database**  
**SAMURAI**

Through this page, you can browse and search pages related to NIMS researchers and their results, archived in the NIMS digital library ([NIMS eSciDoc](#)).  
(April 1, 2011) We are verifying NIMS staff affiliations and will update them shortly.  
(Scientific Information Office)

## Search

Search by keywords (name, research field, etc.)

## Browse research units

You can browse research units.

## Browse researchers directory

Alphabetical listings of all NIMS researchers.

## Search by publication (under construction)

You can browse and search researchers via research results, i.e. journal articles, proceedings, patents and so on.

## Most Recently Released Items

Die "Nuova Cronica" des Giovanni Villani (Bib. Apost. Vat., ms. Chigi L. VIII.296) : Verbildlichung von Geschichte im spätmittelalterlichen Florenz  
Gebhard, Verena - 2011-09-02

tzlutzditzlu

Joel, P. Baumgart - 2011-09-02

Kapitalmarktrecht in Deutschland

Bishop, John; Reesink, Ger; Schmidhuber, Hans; Harald, Huber - 2011-09-02

The Speaker as Information Processor

Levelt, Willem J. M. - 2011-08-30

## Latest News on PubMan

Hotfix for Creator Role Problem

by Martin Soosen - Jul 29, 2011  
Because of the far reaching implications caused by the creator role problem which occurred since the latest PubMan release, we ...



Estudio sobre el posicionamiento de la Pyme española entre el Acta Europea de la Pequeña y la Mediana Empresa (Small Business Act). Se pretende contrastar las experiencias y opiniones de un grupo de empresas españolas con el contenido del Acta para, a partir de ahí, tratar de obtener algunas conclusiones acerca de la percepción de aquellas en cuanto al interés de las propuestas del Acta y la viabilidad de su aplicación.

Licencia: <http://creativecommons.org/licenses/by-nc-sa/3.0/es/>  
Temas: Innovación y creatividad en la gestión empresarial  
Etiquetas: 050 - Innovación y creatividad en la gestión empresarial  
100 - Dirección de empresas  
URL: <http://www.eoi.es/savia/pubman/item/eoi:52227:9>  
comprar buy it!

Descarga: [EOI\\_ActaEuropeaPyme\\_2011](#)

## Temas

Economía digital  
Economía social  
Economía verde  
Nuevas industrias  
Innovación y creatividad

## Tipos

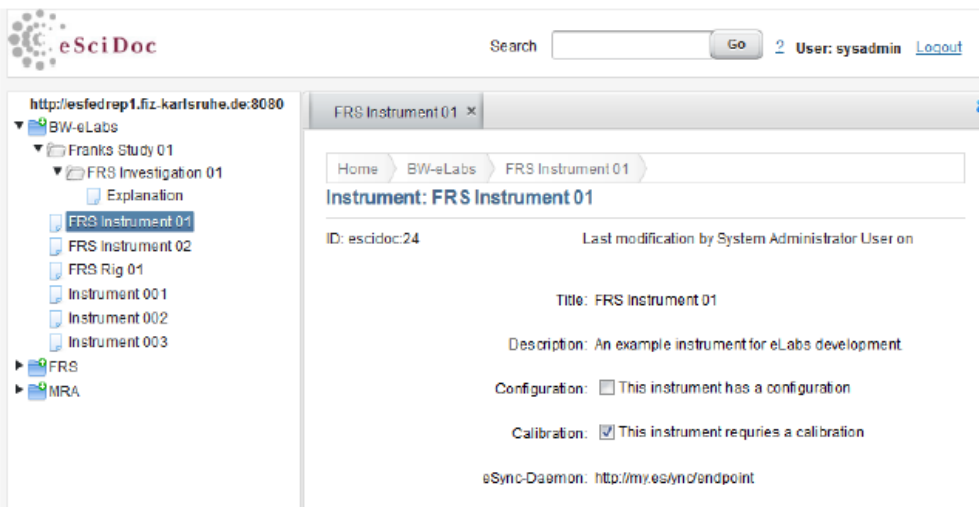
Libros  
Casos de empresa  
Proyectos master  
Doc. académica  
Doc. corporativa

## Etiquetas

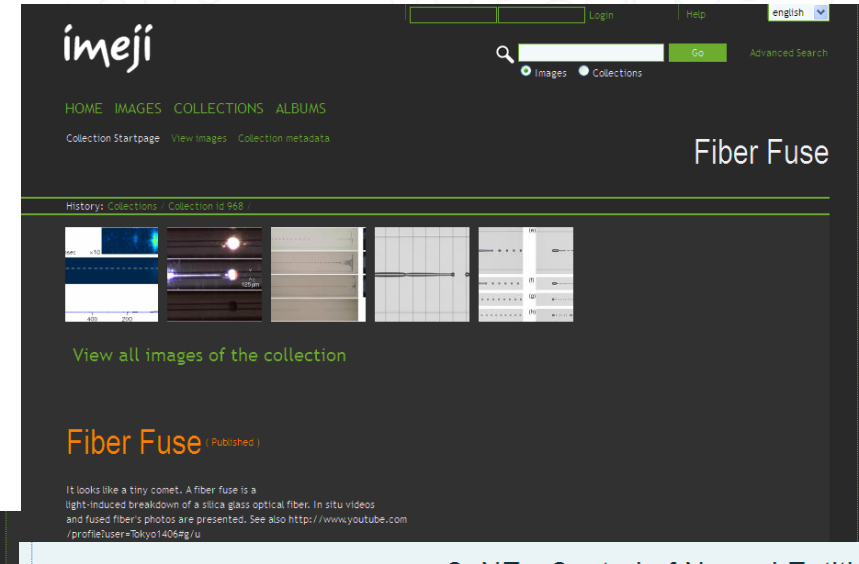
Economía abierta  
Innovación y creatividad en la gestión empresarial  
Dirección de empresas  
Organización y gobernanza  
Economía verde  
Medio ambiente, energía y sostenibilidad  
Economía digital  
Digital, technological and design innovation  
Nuevas industrias  
Economía social



# eSciDoc: Software Services and Applications



The screenshot shows the eSciDoc web interface. At the top, there's a search bar and a user login area showing 'User: sysadmin' with a 'Logout' link. The left sidebar displays a tree view of the repository structure, including 'BW-eLabs', 'Franks Study 01', and 'FRS Investigation 01'. The main content area shows details for 'FRS Instrument 01', including its ID (escidoc:24), last modification by 'System Administrator User on', title 'FRS Instrument 01', description 'An example instrument for eLabs development', configuration status (unchecked), calibration status (checked), and eSync-Daemon URL.



The screenshot shows the imeji web interface for a collection titled 'Fiber Fuse'. The top navigation bar includes 'HOME', 'IMAGES', 'COLLECTIONS', and 'ALBUMS'. Below the navigation, there's a search bar and a 'Go' button. The main content area displays a grid of image thumbnails from the collection. A link 'View all images of the collection' is provided. The title 'Fiber Fuse' is prominently displayed, along with a description: 'It looks like a tiny comet. A fiber fuse is a light-induced breakdown of a silica glass optical fiber. In situ videos and fused fiber's photos are presented. See also http://www.youtube.com/profile?user=Tokyo1404g/ru'.

panMetaDocs **beta** [logout](#)

[Home](#) [New/Edit](#) [Search](#) [Message](#) [My Account](#)

## Home

### Datasets (3)

View: Project data sets in: All folders with publishing status: All statuses [Change View](#) [RSS](#)

No	Date	Entry	File	Status
1	2011-08-03	<a href="#">test</a> () by: test [PMDTest]		
2	2011-08-02	<a href="#">Test</a> () by: Bertelmann [PMDTest]		
3	2011-08-02	<a href="#">Albert und vernetzte Recherche</a> () by: Szott, Sascha [PMDTest]		

With selected do:  [Do it!](#)

### Folders:

Show all datasets

1111  
 222

[Send f](#)

## CoNE - Control of Named Entities

About: The purpose of this service is to provide methods to deal with controlled lists of named entities to assure data quality and facilitate data access and data entry.

Journals	Description	Journal Names
	HTML	<a href="#">query</a> <a href="#">all</a> <a href="#">details</a>
	RDF/XML	<a href="#">query</a> <a href="#">all</a> <a href="#">details</a>
	JSON	<a href="#">query</a> <a href="#">all</a> <a href="#">details</a>
	Options	<a href="#">query</a> <a href="#">all</a> <a href="#">details</a>
	jQuery	<a href="#">query</a> <a href="#">all</a> <a href="#">details</a>
iso639-1	Description	Languages
	HTML	<a href="#">query</a> <a href="#">all</a> <a href="#">details</a>
	RDF/XML	<a href="#">query</a> <a href="#">all</a> <a href="#">details</a>
	JSON	<a href="#">query</a> <a href="#">all</a> <a href="#">details</a>
	Options	<a href="#">query</a> <a href="#">all</a> <a href="#">details</a>
	jQuery	<a href="#">query</a> <a href="#">all</a> <a href="#">details</a>
iso639-2	Description	Languages
	HTML	<a href="#">query</a> <a href="#">all</a> <a href="#">details</a>
	RDF/XML	<a href="#">query</a> <a href="#">all</a> <a href="#">details</a>
	JSON	<a href="#">query</a> <a href="#">all</a> <a href="#">details</a>
	Options	<a href="#">query</a> <a href="#">all</a> <a href="#">details</a>
	jQuery	<a href="#">query</a> <a href="#">all</a> <a href="#">details</a>



# Challenges

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- Enabling for Re-Use and Re-Purposing
- OA Paradigm
- Higher Efficiency
- Open Science
- Scholarly Impact Measurement



# The End

Thanks for your attention !

[Malte.dreyer@mpdl.mpg.de](mailto:Malte.dreyer@mpdl.mpg.de)