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From Information Revolution to Information Society: Settling the Digital Pastures

From Revolution to Society

Agricultural Revolution

- The Plough ✕
- A network of Roads
- Agricultural Society



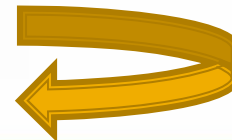
Industrial Revolution

- The Steam Engine ✕
- Canals and Railways
- Industrial Society



Information Revolution

- The Computer ✕
- Internet and the World Wide Web
- Information Society



The Digital Pastures

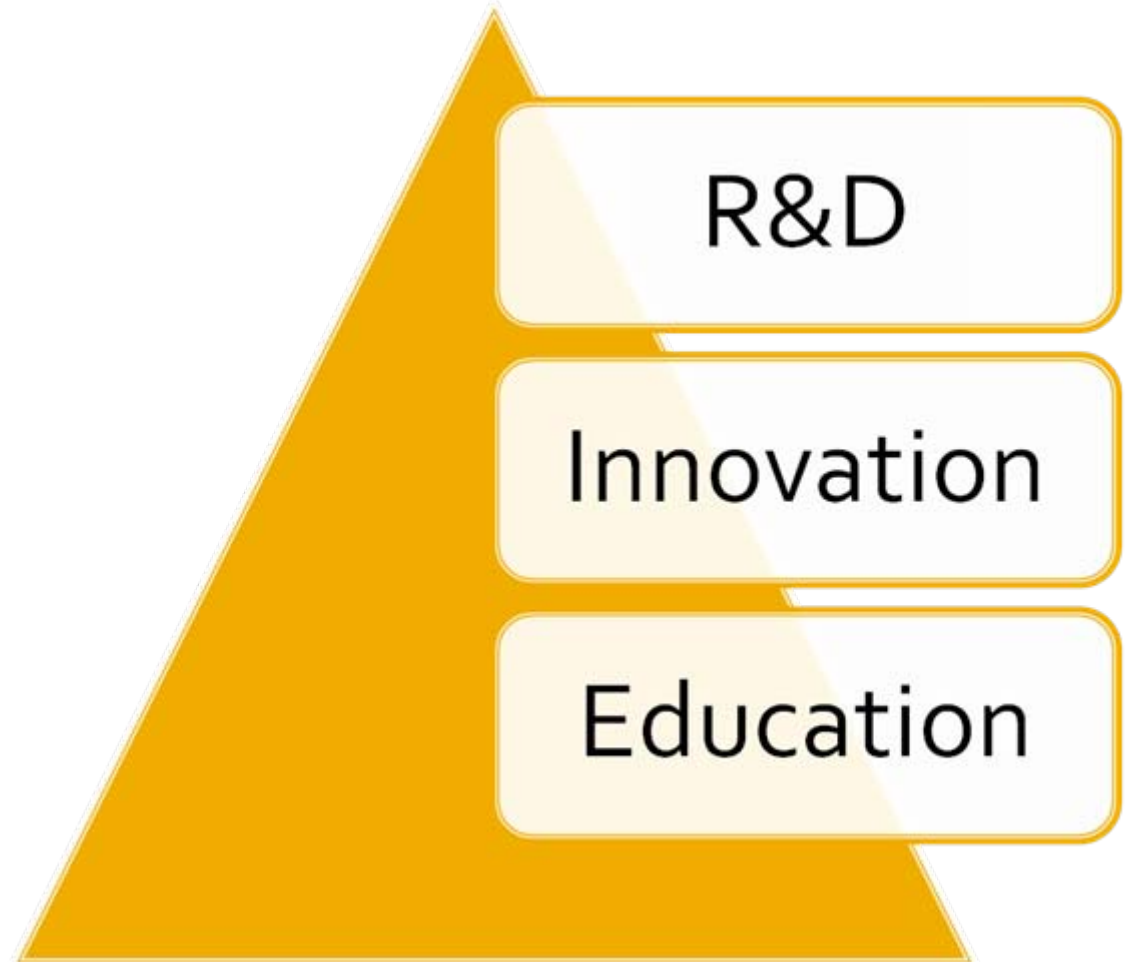
Pasture is land with vegetation cover used for grazing



The Knowledge Triangle

The Ljubljana Process

“Accelerating the transition to a smarter and greener economy where the key input will be knowledge”



Research Data Management

- Research data affects everyday lives



Research Data Management

- Research data affects everyday lives
- Absence of research data affects everyday lives
- *Therefore it must be properly managed by information managers*



Community wide
co-operation

The Four Roles for Libraries



- Aggregation
 - The long tail
 - Commercial material is in the minority
 - Openwetware, Blogs and Wikipedia
- Discovery
 - Authenticity and provenance
 - Logical Bibliographic Metadata
- Access
 - Usability
 - “Free and boundless” *Deputy Mayor*
- Preservation
 - Backup
 - Redundancy

Aggregation



Reuniting content

- Codex Sinaiticus



Linking related collections

- Emory Slave Trade Database



Creating New Collections

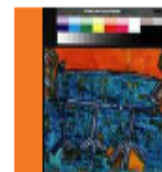
- Red Clydeside

beta



européana
tunne kultuuri

This is Europeana - a place for inspiration and ideas. Search through the cultural collections of Europe, connect to other user pathways and share your discoveries. [Find out more](#)

[Search](#)[Advanced search](#)[Share your ideas:](#)[People are currently thinking about:](#)[Timeline navigator:](#)[New content:](#)

Discovery

- Standards
- Interoperability
- Metadata
- Bibliographic Authenticity
- Trust metrics
- Provenance

A history of library co-operation: the early 20th Century

- Cooperation and the Russian Revolution
 - Interlending to St Petersburg
 - Latitude = $59^{\circ}26'N$
Longitude = $024^{\circ}46'E$



Access


- “The most used public service” Jukka Relander & Eppo VNTS
 - *Or the SECOND most used?*
- Institutional Repositories
- Creative Commons
- Managed Born Digital Content
- Information Free at the Point of Use
- Digitising Existing Collections
- Removing Barriers through Ensuring Usability
 - Equality of Access (age, gender, disability, location)
- A Culture of sharing

The Mobile Library



AT&T 12:16 PM

Details



John Steinbeck : a biography

Meltzer, Milton, 1915-

Summary

John Steinbeck consistently appears on class reading lists across the U.S., and his work has influenced generations. Steinbeck lived and wrote during some of the most eventful and

AT&T 1:17 PM

Locations

Mt. Pleasant

Monday	9:30 am-9 pm
Tuesday	9:30 am-5:30 pm
Wednesday	9:30 am-9 pm
Thursday	9:30 am-5:30 pm
Friday	9:30 am-5:30 pm
Saturday	9:30 am-5:30 pm
Sunday	1 pm-5 pm

Location

3160 16th Street, NW

Contact

(202) 671-0200

Preservation

Threats to preserved media

Media failure

Hardware failure

Software failure

Network failure

Format obsolescence

Natural disaster

- Operator error
- External attack
- Insider attack
- Economic failure
- Organization failure
- Suppression of data

Strong Foundations: LOCKSS

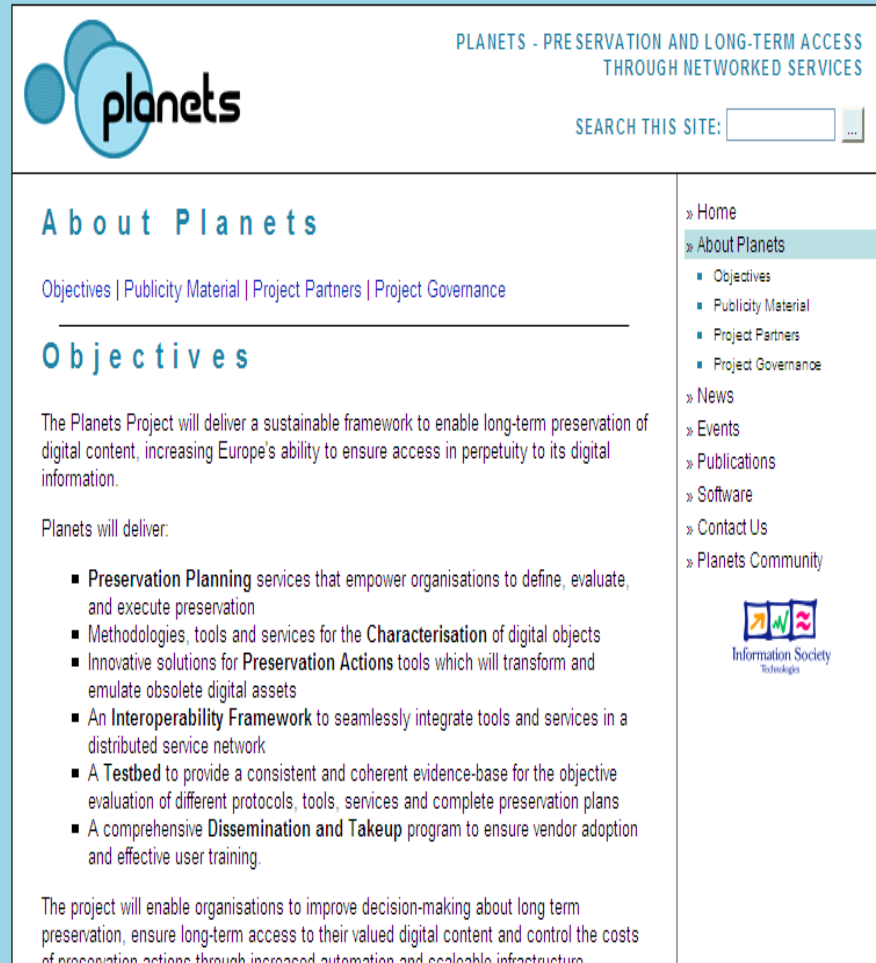
Lots of Copies Keeps Stuff Safe

- ✓ Decentralized, distributed, and redundant
- ✓ Responsibility spread across the community
- ✓ Built upon a strong organisational foundation
- ✓ Local access, control, and custody of content
- ✓ Permanent access to content without continued fees
- ✓ Spreading the archive over
 - ✓ multiple libraries,
 - ✓ multiple nodes,
 - ✓ multiple voices
- ✓ Shepherded by strong universities with strong libraries

PLANETS PROJECT

Preservation and Long-Term Access Through Networked Services

5 National Libraries
3 National Archives
4 Universities
4 Technology
Companies



The screenshot shows the PLANETS project website. The header features the PLANETS logo (three overlapping circles) and the text "PLANETS - PRESERVATION AND LONG-TERM ACCESS THROUGH NETWORKED SERVICES". A search bar is located on the right. The main content area is divided into two columns. The left column contains the "About Planets" section with links to "Objectives", "Publicity Material", "Project Partners", and "Project Governance". Below this is the "Objectives" section, which describes the project's goal of delivering a sustainable framework for long-term preservation of digital content. It lists five key deliverables: Preservation Planning services, methodologies and tools for characterisation, innovative solutions for preservation actions, an interoperability framework, a testbed, and a dissemination and takeup program. The right column contains a navigation menu with links to Home, About Planets (selected), Objectives, Publicity Material, Project Partners, Project Governance, News, Events, Publications, Software, Contact Us, and Planets Community. At the bottom right is the Information Society Technologies logo.

PLANETS - PRESERVATION AND LONG-TERM ACCESS
THROUGH NETWORKED SERVICES

SEARCH THIS SITE:

About Planets

[Objectives](#) | [Publicity Material](#) | [Project Partners](#) | [Project Governance](#)

Objectives

The Planets Project will deliver a sustainable framework to enable long-term preservation of digital content, increasing Europe's ability to ensure access in perpetuity to its digital information.

Planets will deliver:

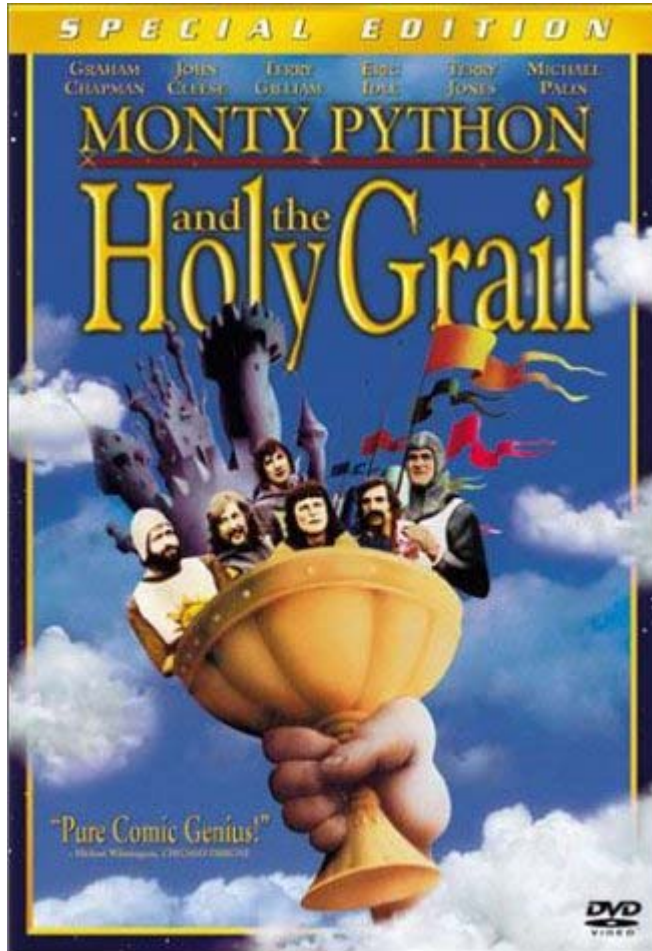
- **Preservation Planning** services that empower organisations to define, evaluate, and execute preservation
- Methodologies, tools and services for the **Characterisation** of digital objects
- Innovative solutions for **Preservation Actions** tools which will transform and emulate obsolete digital assets
- An **Interoperability Framework** to seamlessly integrate tools and services in a distributed service network
- A **Testbed** to provide a consistent and coherent evidence-base for the objective evaluation of different protocols, tools, services and complete preservation plans
- A comprehensive **Dissemination and Takeup** program to ensure vendor adoption and effective user training.

The project will enable organisations to improve decision-making about long term preservation, ensure long-term access to their valued digital content and control the costs of preservation actions through increased automation and scalable infrastructure.

» Home
» **About Planets**
 ■ Objectives
 ■ Publicity Material
 ■ Project Partners
 ■ Project Governance
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» Events
» Publications
» Software
» Contact Us
» Planets Community

Information Society
Technologies

Finding the Holy Grail is really hard.....



- Jon Landau has noted that *Avatar* is preserved in 2D not 3D because it's too difficult

This is rocket science

But it looks easy.....

GOOD NEWS! WE WON
THE BID TO BUILD A
NATIONWIDE WIRELESS
NETWORK!



Dilbert.com DilbertCartoonist@gmail.com

BAD NEWS! WE DON'T
KNOW HOW TO BUILD
A NATIONWIDE
WIRELESS NETWORK!



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IT'S WIRELESS. HOW
HARD COULD IT BE
TO NOT INSTALL
WIRES?



By the Way..... Avatar is preserved in 2-D not 3-D