

The Planets Testbed A Collaborative Research Environment for Digital Preservation

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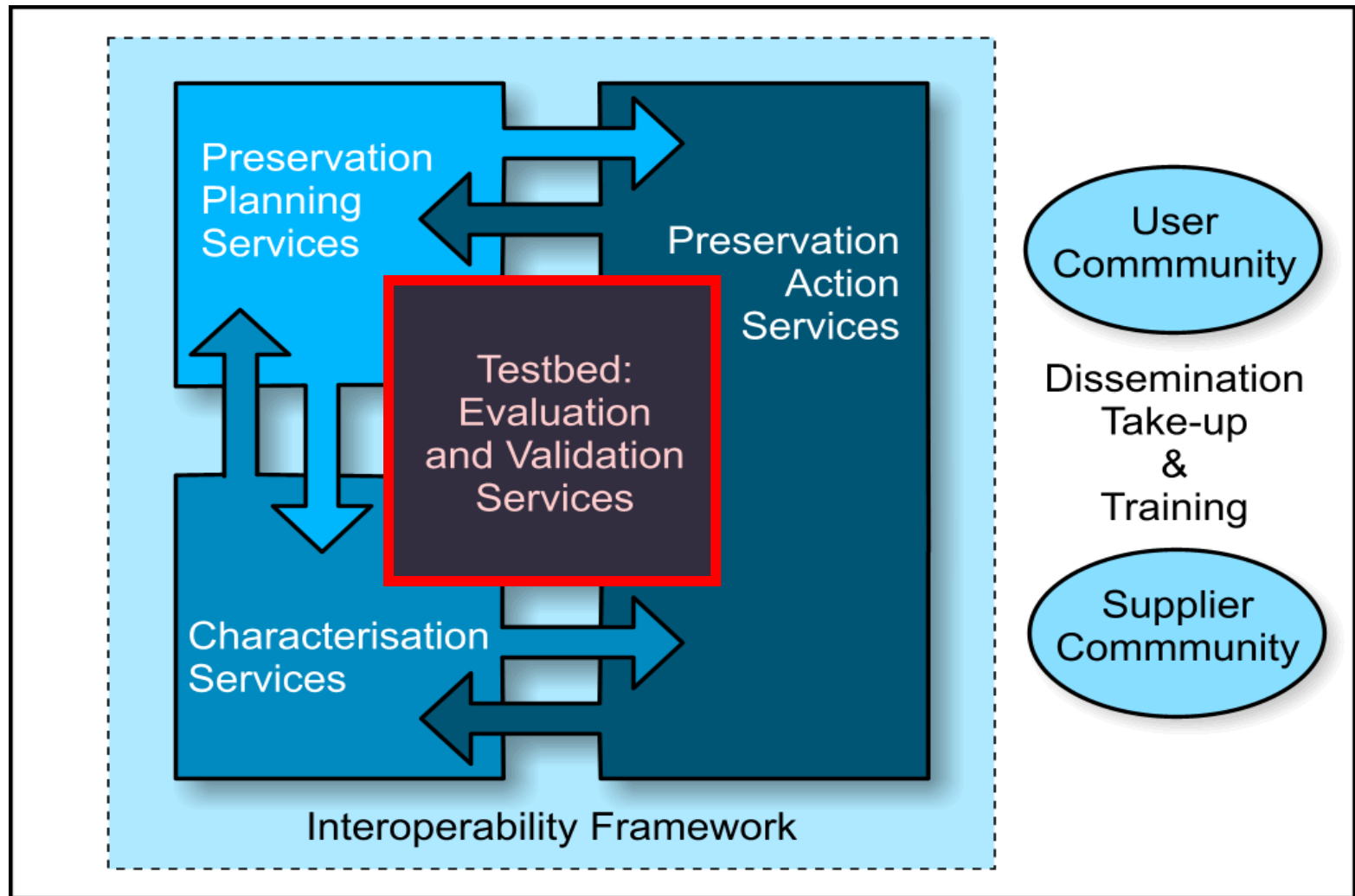
- Society risks a gaping hole in cultural and scientific records unless we act now
- European National Archives and Libraries:
 - Have the legal responsibility and the legislative framework to safeguard digital information
 - Must provide sustained access to cultural and scientific knowledge
 - Have limited ability to ensure that today's digital information will be accessible for future generations
- Many others have obligations or business need to preserve digital data
- Meeting the challenge of preserving access goes beyond the capabilities of any single institution



- Major initiative in the Information Science and Technology (IST) Framework Programme 6 (FP6)
- Cooperation between Libraries, Archives, Research Institutes and Companies
 - 16 partners, coordinated by British Library
 - Four year project, June 2006 – May 2010
 - 15 Mio. Euro budget
- Builds on strong digital archiving and preservation programmes at European, national and institutional levels
- Addresses core digital preservation challenges
- Empirical approach to learn what works and why
- Focus on needs of libraries and archives

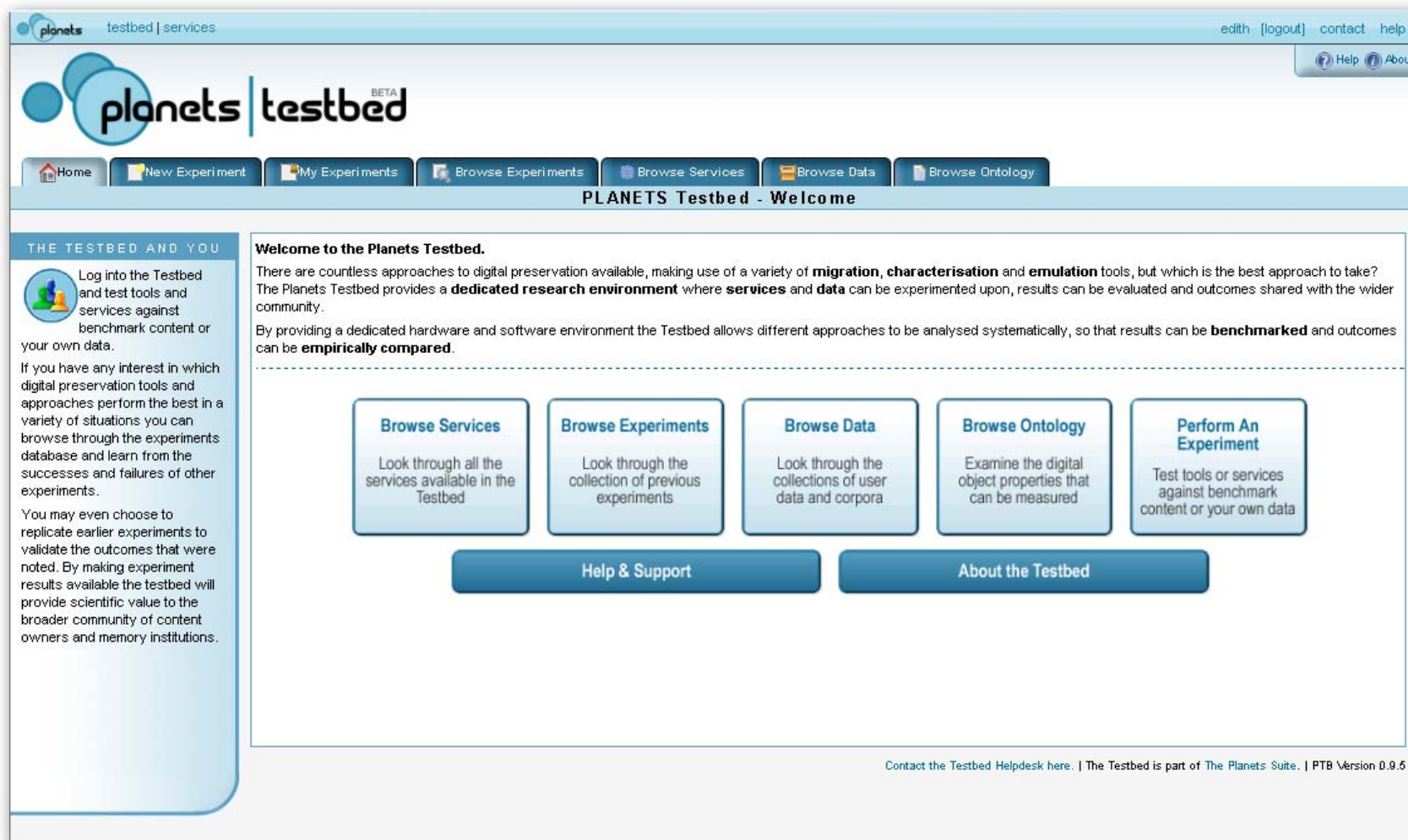
- Increase Europe's ability to ensure long-term access to its cultural and scientific heritage
 - Improve decision-making about long term preservation
 - Ensure long-term access to valued digital content
 - Control the costs of preservation actions through increased automation, scaleable infrastructure
 - Ensure wide adoption across the user community and establish market place for preservation services and tools
- Build practical, accessible solutions
 - Integrate existing expertise, designs and tools
 - Share and build
 - Open, extensible architecture

- We must plan preservation: make decisions on what and how to preserve
→ Planets Preservation Tool (Plato)
- We must identify objects, extract and register their characteristics
→ XCL tools, Pronom
- We must perform concrete actions on digital objects
→ evaluate preservation action tools, provide services for action tools
- We must test how objects behave under certain circumstances
→ Testbed
- We must be able to combine different preservation tasks
→ Planets Interoperability Framework



- Controlled environment for experimentation and evaluation
 - enables comparison of preservation tools
 - on various digital object types (e.g. text, image, audio, video)
 - with predefined and well described content (corpora)
- Planets Testbed provides:
 - Methodology for systematic execution of experiments
 - Partly automated evaluation of experiment results
 - Shared access to the experiments themselves
 - Reproducibility of experiments
 - Long-term availability of structured experiment documentation
 - Comparison of experiments results

- Platform independent
 - Java Enterprise Edition
- Allows to execute experiments on a wide array of preservation tools and services
 - Web Service approach
 - Tools wrapped as web services can be accessed by the Testbed application by means of a platform-independent URI
- Part of the overall Planets software suite
 - Sharing of common components across the entire Planets project



planets testbed | services edith [logout] contact help


Help About

planets testbed BETA

Home New Experiment My Experiments Browse Experiments Browse Services Browse Data Browse Ontology

PLANETS Testbed - Welcome

THE TESTBED AND YOU

 Log into the Testbed and test tools and services against benchmark content or your own data.

If you have any interest in which digital preservation tools and approaches perform the best in a variety of situations you can browse through the experiments database and learn from the successes and failures of other experiments.

You may even choose to replicate earlier experiments to validate the outcomes that were noted. By making experiment results available the testbed will provide scientific value to the broader community of content owners and memory institutions.

Welcome to the Planets Testbed.

There are countless approaches to digital preservation available, making use of a variety of **migration, characterisation** and **emulation** tools, but which is the best approach to take? The Planets Testbed provides a **dedicated research environment** where **services** and **data** can be experimented upon, results can be evaluated and outcomes shared with the wider community.

By providing a dedicated hardware and software environment the Testbed allows different approaches to be analysed systematically, so that results can be **benchmarked** and outcomes can be **empirically compared**.

Browse Services

Look through all the services available in the Testbed

Browse Experiments

Look through the collection of previous experiments

Browse Data

Look through the collections of user data and corpora

Browse Ontology

Examine the digital object properties that can be measured

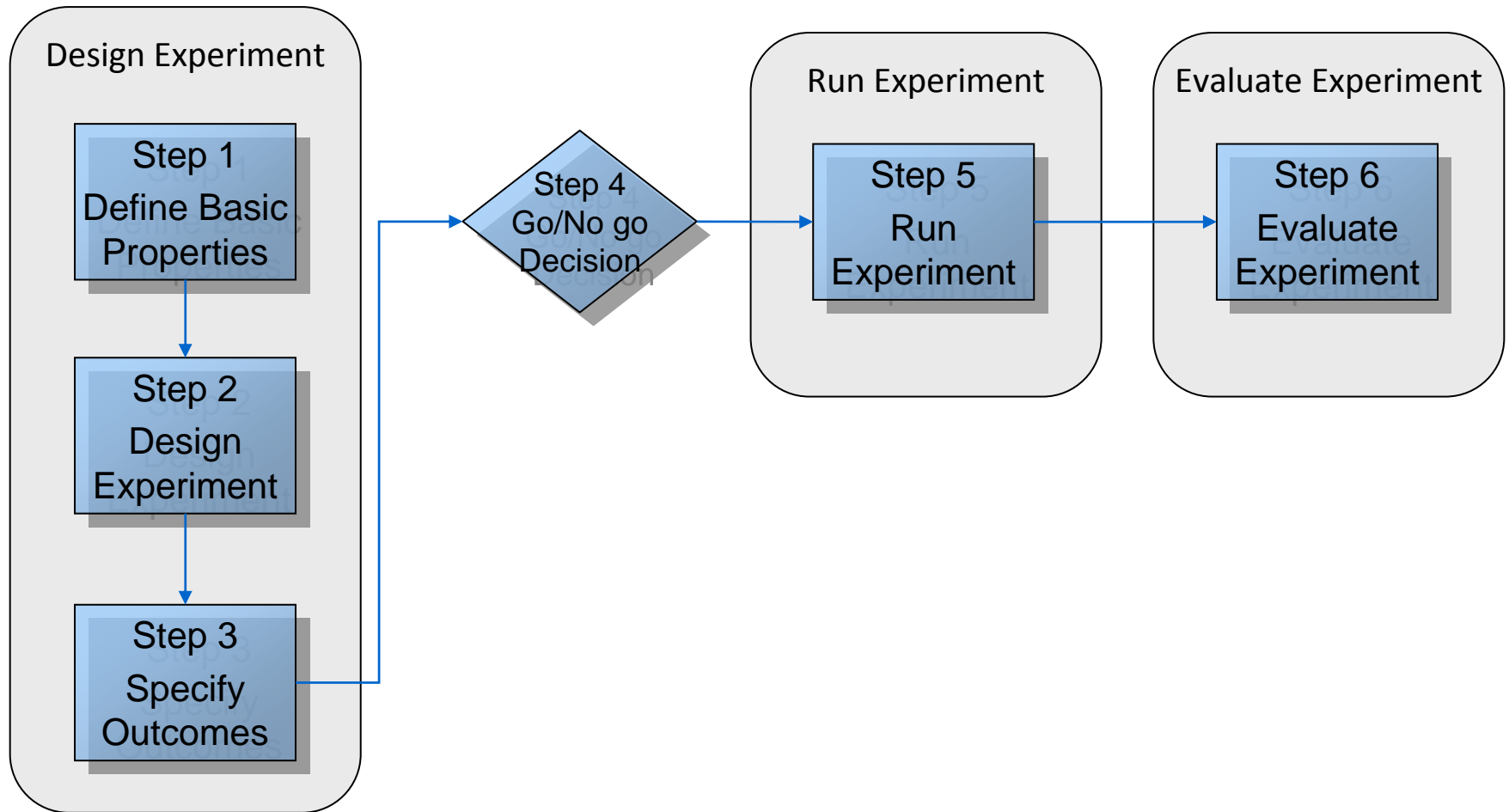
Perform An Experiment

Test tools or services against benchmark content or your own data

Help & Support

About the Testbed

Contact the Testbed Helpdesk here. | The Testbed is part of The Planets Suite. | PTB Version 0.9.5



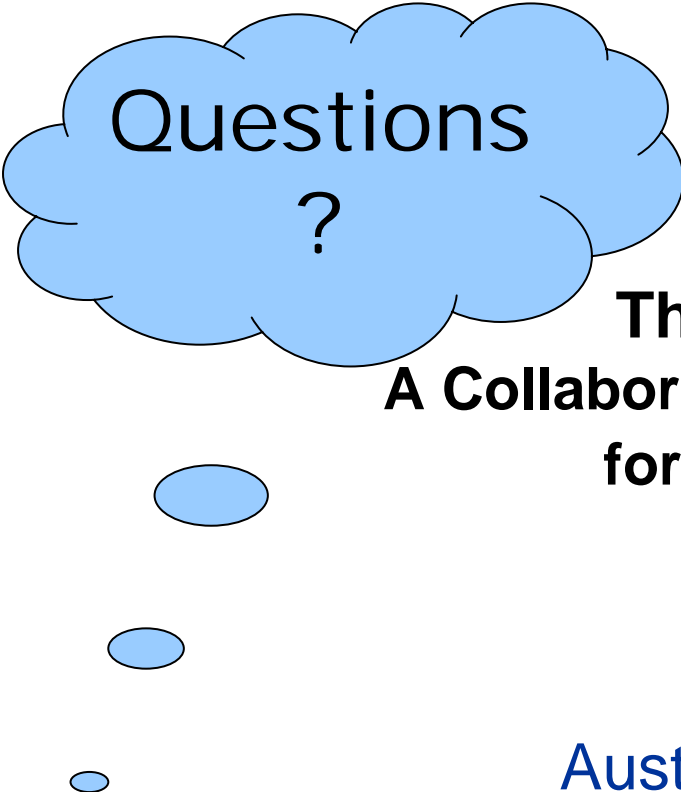
- Planets provides a Central Instance of the Testbed
 - Integrated preservation tools and services for experimentation: Identification / characterisation / migration / (emulation)
 - Testbed Corpora for experimentation
 - Integrated Planets Comparator and XCDL language automatic extraction and comparison of technical properties
- Full public release in 2010
- Downloadable instance of the Testbed software available for local installation

- Planets Testbed allows users to understand which tools serve best their digital preservation need
- Provides information on the usability of preservation tools on various types of data
 - Based on the outcomes of practical experimentation
- Aggregated, structured and institution-independent data on experiment results
 - Can be made visible to the community and exported to publicly available registries
- Repeatability of experiments for validation

- Restricted public opening: June 2009
- Public opening: Beginning of 2010
 - Registration at: helpdesktb@planets-project.eu
- Interested in the Planets Testbed?
 - Register on the Planets website:
www.planets-project.eu/community
- Carry out experiments?
 - Contact Testbed Helpdesk: helpdesktb@planets-project.eu

- Website: www.planets-project.eu
- Newsletters
- e-Bulletins
- Series of Planets Training Events under way
 - ✓ Copenhagen, Denmark, 22–24 June 2009
 - ✓ Sofia, Bulgaria, 16–18 September 2009
 - Bern, Switzerland, 17–19 November 2009
 - London, UK, 8–10 February 2010
 - Rome, Italy, 19–21 April 2010

Next hands-on workshop on Testbed: Bern, 17–19 Nov. 2009
<http://www.planets-project.eu/events/bern-2009/>



Questions
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Thank
you!