



Testbed

A Controlled Environment for Experimentation and Evaluation in Digital Preservation

Edith Michaeler

Testbed Deputy Sub Project Lead - Austrian National Library

The Testbed

is

- ❑ a web application, that helps you to find out about the performance of tools.

offers

- ❑ a controlled hardware & software environment

provides

- ❑ structured processes for the arrangement and evaluation of experiments on preservation
- ❑ structured test data (Corpora)



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What can you do with Testbed?

Testbed...

- ☐ helps to understand which tools serve best digital preservation needs
- ☐ enables informed decisions on the applicability of tools
- ☐ catches information objectively
- ☐ serves as basis for further preservation planning (e.g. with Plato)



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How does Testbed work?



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Testbed application

- ❑ Web application
- ❑ Planets runs a Central Instance which you can access online ('Plug & Play')

Testbed MVC architecture

web tier



JSF, CSS, XHTML, AJAX

business tier



Java EE (EJB, JAX-WS,...)

data tier



Java EE, IF Registries,...



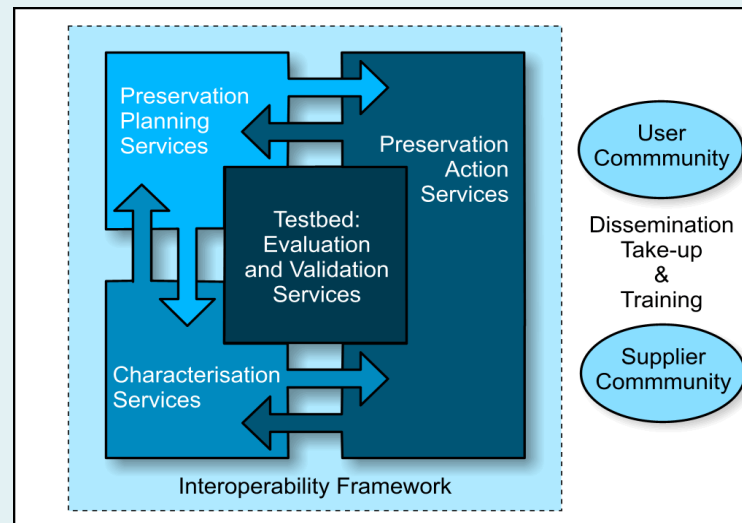
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Integrated part of Planets

Testbed obtains and provides input from/ for

- PA (Tools and services)
- PC (Characterisation)
- PP (Plato reservation plans)
- IF

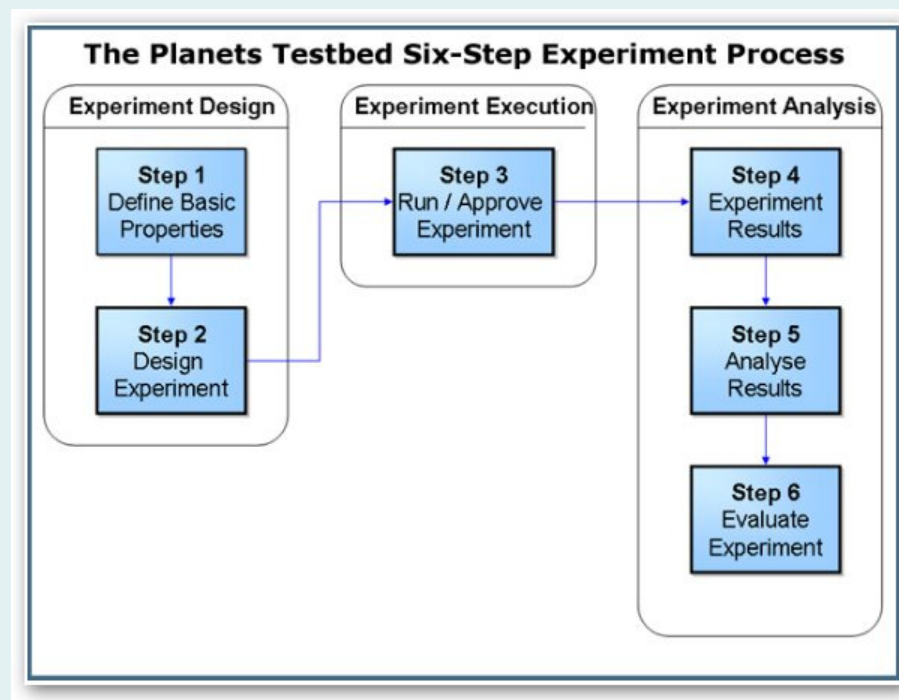


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Six-step experiment process

Every experiment follows a fixed experimentation workflow:



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Within Testbed you can do:

- ❑ Migration testing
 - Test how well a service transforms digital objects from one file format into another
- ❑ Load test migration (Mass experiments)
 - Transform large numbers of digital objects and focus on a tool's speed and stability
- ❑ View in emulator
 - Load digital objects into an emulated environment to test how accurately the objects are presented



Within Testbed you can also do:

☐ Characterisation

- Test how effectively a service extracts characteristics from digital objects

☐ Validation

- Validate if your object “is” what it pretends to be

☐ Execute preservation plan

- Perform experiments on a PLATO preservation plan



Test files - Corpora

Testbed provides assorted test data (Corpora)

- ❑ Wide range of different files and formats
 - +4.500 different files
- ❑ All files annotated
- ❑ „Real files“ (provided by all partners)

Also possible to upload own data...



A practical example



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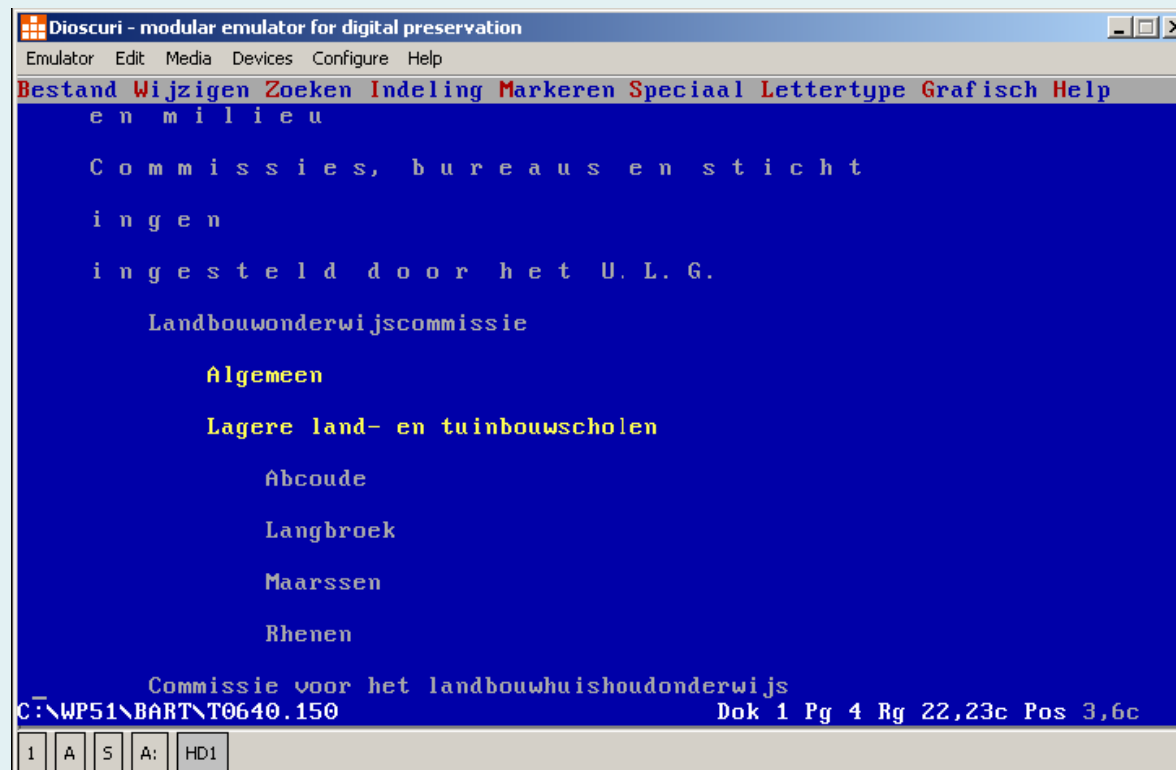


Possible questions to be solved

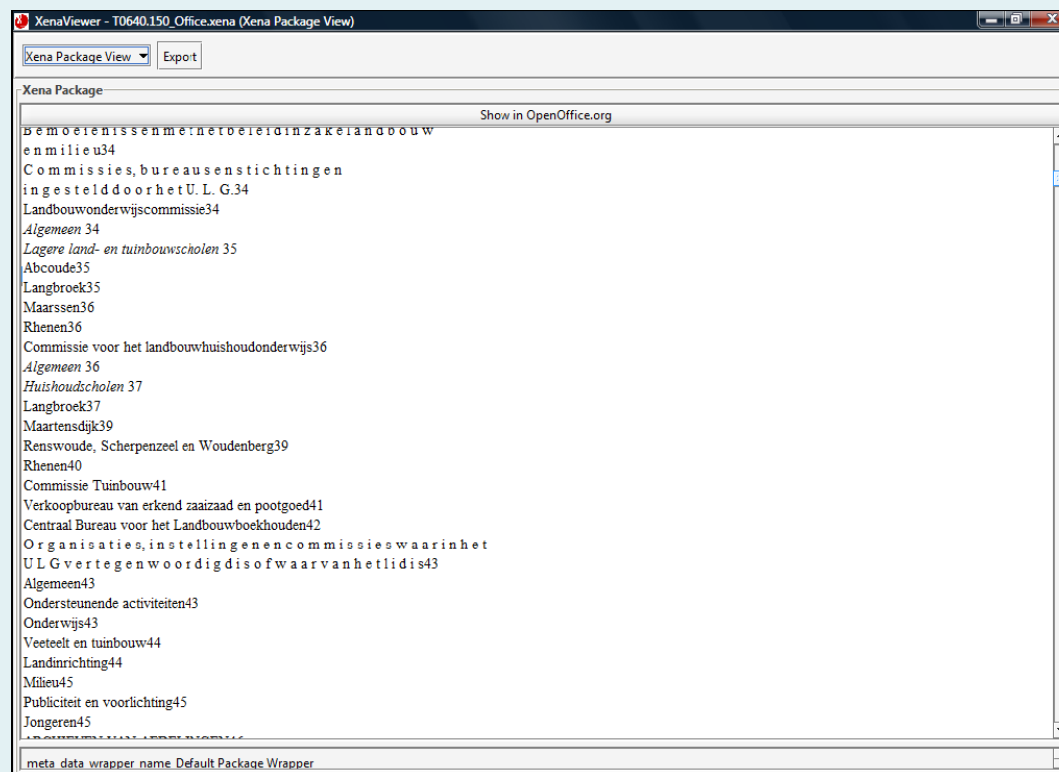
- ❑ What file formats do I have in my collection?
- ❑ Some file formats are becoming obsolete. I want to migrate them. But to what file format? And with which migration tool?
- ❑ Can I preserve the original with an emulation service?



Example 1 – Original file



Example 1 – Migrated file



It's worth becoming a Testbed member if
you are a...



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... heritage institution or content holder

Because you can...

- ☐ get information on tools at a „one-stop-shop“
- ☐ have a look get an insight problems without exposing own material
- ☐ upload own files for special needs



... tool or service provider

Because...

- ☐ you can test tools and see if they behave the way expected
- ☐ benchmark your products against others
- ☐ Testbed helps to understand needs of user community



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...member of the digital community

Because you...

- ☐ become a practical and active part of the preservation community
- ☐ find knowledge, expertise and people involved in digital preservation



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HAPPY NEWS!

Testbed is now being released for external testing!

Come and join!

Contact Helpdesk for login-data:

helpdesktb@planets-project.eu



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Interested?

- ❑ Interested in Testbed?

- > Register without any obligations on Planets website

- www.planets-project.eu/community

- ❑ Carrying out experiments?

- > contact Testbed Helpdesk

- helpdesktb@planets-project.eu

- * information on becoming an active partner

- * further information on training events, community,..



Thank you for your attention!

Further questions?

Please contact:

Edith Michaeler

Austrian National Library (ONB)

edith.michaeler@onb.ac.at



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