



Testbed – A brief recap

Edith Michaeler

Testbed Deputy Sub Project Lead - Austrian National Library

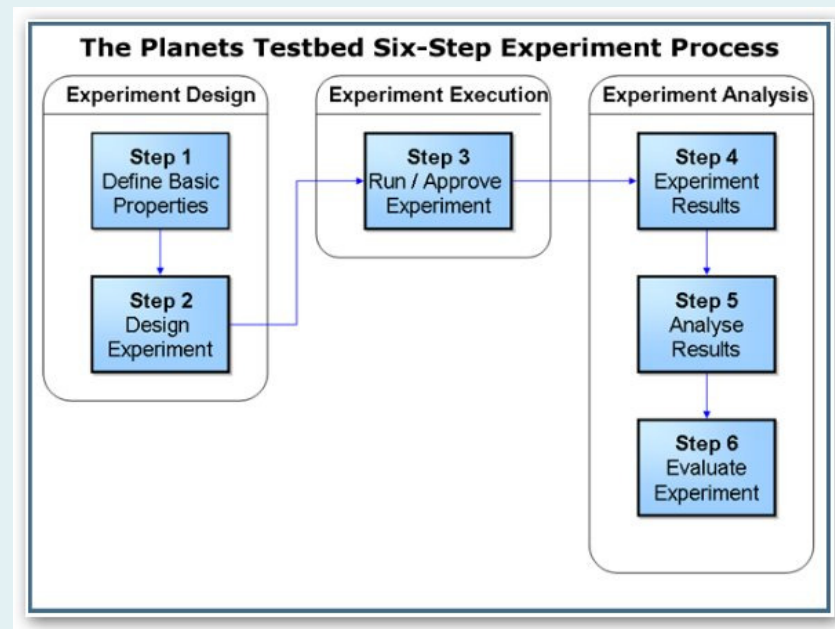
Goal of the Testbed

- ❑ Understand which tools serve best digital preservation needs
- ❑ Enable informed decisions on the applicability of tools in various settings
- ❑ Catching information objectively
- ❑ Answer questions to specific needs
 - Are my files well formatted after using a specific migration tool?



Testbed components - Workflow

- Every experiment follows a fixed experimentation workflow that consists of six steps:



Step 1 – Define basic properties

The screenshot shows the 'PLANETS Testbed - New Experiment - 1. Define Basic Properties' web form. The form is divided into several sections for data entry:

- General Information:** Includes fields for 'Experiment Name', 'Summary', and 'Participants'.
- Contact Information:** Includes fields for 'Contact Name', 'Contact Email', 'Contact Tel', and 'Contact Address'.
- References:** Includes a field for 'External Reference ID' and a section for 'Literature References' with sub-fields for 'Description', 'URL', 'Title', and 'Author'.
- Further Information:** Includes fields for 'Purpose', 'Focus', 'Experiment Scope', and 'Considerations'.

At the bottom of the form, there is a 'Comments on Test lifting' section with a text area and a 'Save' button. The form also features a sidebar on the left with a progress indicator and a top navigation bar with links like 'Home', 'My Experiments', and 'Help'.



Step 1 – Define basic properties

- ❑ Gather information about user
- ❑ Describe purpose and focus of experiment
- ❑ Give reference to previous relevant experiments



Step 2 – Design experiment

Planets Testbed - 'Test 4' : Stage 2: Design Experiment - Mozilla Firefox

http://localhost:8080/testbed/exp/exp_stage2.faces

planets | testbed

Home Experiments Services Digital Objects About Help

Planets Testbed - 'Test 4' : Stage 2: Design Experiment

EXPERIMENT PAGES

- New Experiment
- My Experiments
- Browse Experiments
- Search Experiments

EXPERIMENT PROGRESS

1. Define Basic Properties
2. Design Experiment
3. Run Experiment
4. Experiment Results
5. Analyse Results
6. Evaluate Experiment

TESTBED FTP AREA

you may upload data to the Testbed FTP area using the details provided during registration.

CONNECTION DETAILS

Host name:
ftp://testbed.planets-project.eu

Port number:
21

2. Design Experiment

Save Save and submit for approval

At this stage you can specify the design your experiment. This involves selecting an **experiment type** and one or more **preservation services** in the left-hand section of the page, and selecting the **digital objects** you wish to pass through your chosen services in the right-hand section of the page.

Experiment Type:

Experiment Type:

Migration Experiment

For every Digital Object, migrate from input format:

↓

Migrate

Pass Through This Migration Service:

↓

Result

A new Digital Object of format:

Specified input data:

The list of Digital Object to experiment upon.

Add Digital Objects to this Experiment

Done



Step 2 – Design experiment (Select data)

Planets Testbed - "Test 4": Stage 2: Design Experiment - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://localhost:8080/testbed/exp_stage2.faces

Wikipedia (en)

Planets Testbed - "Test 4": Stage 2: Design Experiment

CONNECTION DETAILS

Host name:
ftp://testbed.planets-project.eu

Port number:
21

Result

A new Digital Object of format:
OIF

Specified input data:

The list of Digital Object to experiment upon.

- 00005.jpg

Add Digital Objects to this Experiment

Use the buttons below to add more Digital Objects to this experiment. You can select data from the data registry (including data you've uploaded using your FTP account), or you can upload files to this experiment one at a time using the 'Upload Data' option.

Select Data from the Data Registry

Select Data from the Data Registry

Upload Data

Add... Upload Clear All

00005.jpg	Clear
100_1130.jpg	Cancel

This multiple file uploader will not work on all browsers.
If you are having problems, you should return to the experiment designer page and add files one-by-one using the simple upload option.
[Click here to use the simple file uploader.](#)

Done Save As... Save Save and submit for approval

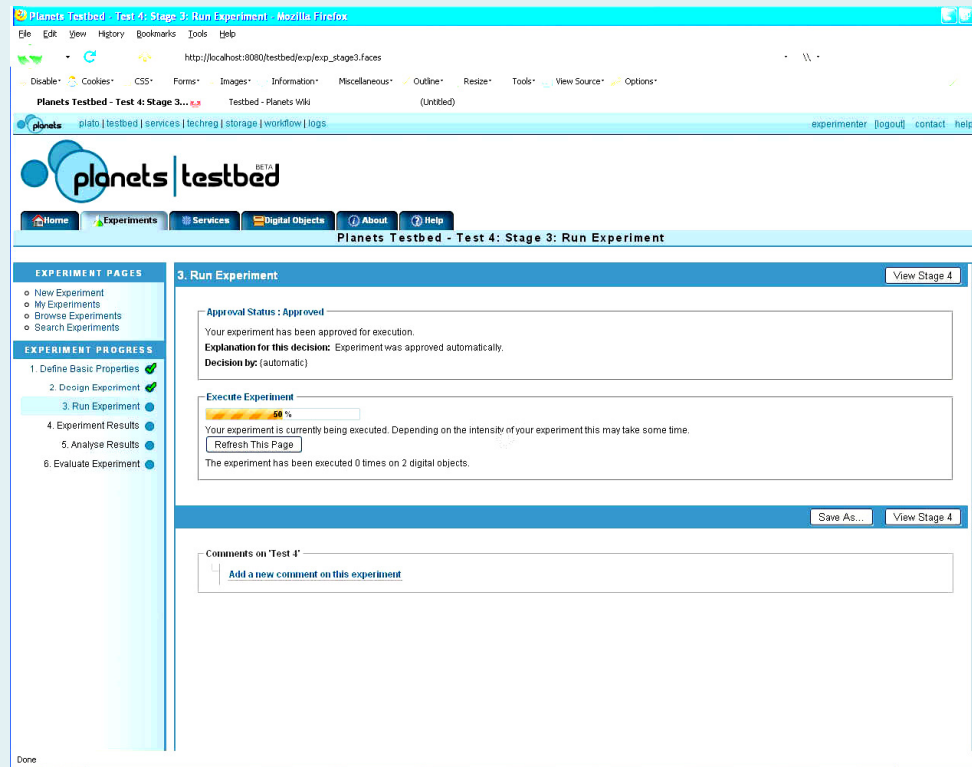


Step 2 – Design experiment

- ❑ Choose experiment type:
 - Characterisation
 - Migration
 - Emulation
 - Mass migration
 - Execute Preservation Plan
- ❑ Select relevant services (automatic selection of available services for chosen file formats)
- ❑ Choose/ upload data (-> from corpora / own material)



Step 3 – Run experiment (execution)



Step 3 – Run experiment (execution complete)

The screenshot displays the Planets Testbed web application in a Mozilla Firefox browser window. The address bar shows the URL `http://localhost:8080/testbed/exp_stage3.faces`. The browser's toolbar includes various icons for navigation and development. The application's header features the 'planets testbed' logo and a navigation menu with links for Home, Experiments, Services, Digital Objects, About, and Help. The main content area is titled 'Planets Testbed - Test 4: Stage 3: Run Experiment' and includes a 'View Stage 4' button. On the left, a sidebar lists 'EXPERIMENT PAGES' and 'EXPERIMENT PROGRESS'. The progress list shows six steps: 1. Define Basic Properties, 2. Design Experiment, 3. Run Experiment (highlighted with a green checkmark), 4. Experiment Results, 5. Analyse Results, and 6. Evaluate Experiment. The main content area for '3. Run Experiment' displays the 'Approval Status: Approved' and a message stating 'Your experiment has been approved for execution.' It also provides an 'Explanation for this decision' and the 'Decision by: (automatic)'. Below this, the 'Execute Experiment' section shows 'Executed 1 times' and a 'Re-run this experiment to collect more data' button. A 'Statistics' box provides execution details: 'Execution Started: Tue Dec 22 11:44:02 GMT 2009', 'Execution Ended: Tue Dec 22 11:44:02 GMT 2009', 'Total Number of Input Files: 2', and 'Execution Success? true'. At the bottom, there is a 'Comments on "Test 4"' section with a text input field and a 'Add a new comment on this experiment' link. The browser's status bar at the bottom indicates 'Done'.

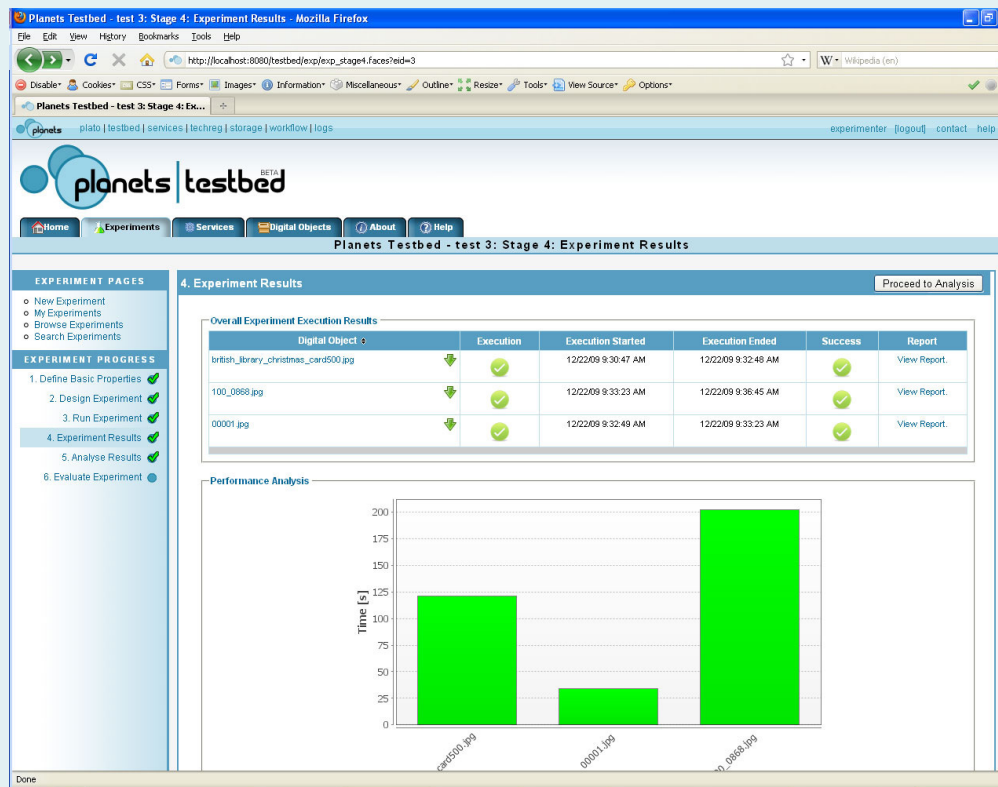


Step 3 – Run experiment

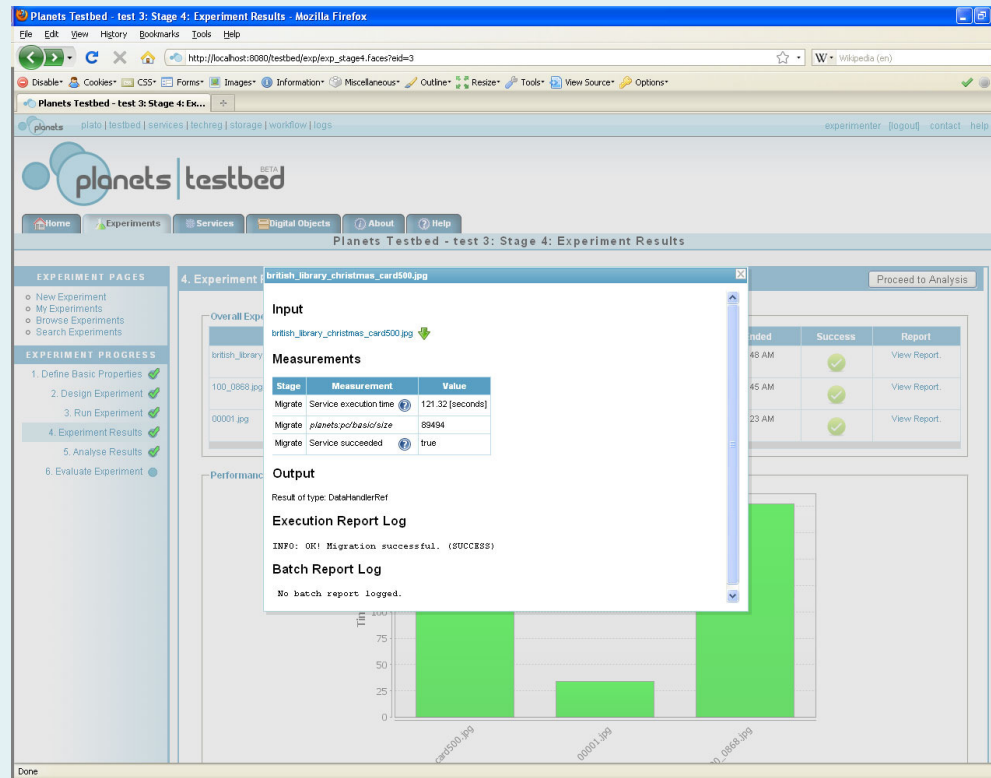
- ❑ Run experiment
- ❑ Get notice/ statistics on completed experiment



Step 4 – Experiment results (Results)



Step 4 – Experiment results (Report)



Step 4 – Experiment results

- ❑ Get information on
 - input and output files
 - the performance of services
- ❑ Additional information when rerunning the experiment



Step 5 – Analyse results

The screenshot shows the Planets Testbed web application in a Mozilla Firefox browser. The page title is "Planets Testbed - test 3: Stage 5: Analyse Results". The browser address bar shows the URL "http://localhost:8080/testbed/exp_stage5.faces?eid=3". The page features a navigation bar with links for Home, Experiments, Services, Digital Objects, About, and Help. The main content area is titled "5. Analyse Results" and includes a "Proceed to Evaluation" button. A table displays the results of the experiment, showing digital objects and their corresponding results. The table has two columns: "Digital Object" and "Results". The data rows are as follows:

Digital Object	Results
british_library_christmas_card500.jpg	Run 1: british_library_christmas_card500.jpg.gif (148430 bytes)
100_0868.jpg	Run 1: 100_0868.jpg.gif (1036031 bytes)
000001.jpg	Run 1: 000001.jpg.gif (1148181 bytes)

Below the table, there is a "TEST" section with a "Save As..." button and a "Proceed to Evaluation" button. At the bottom of the page, there is a "Comments on 'test 3'" section with a text input field and a "Add a new comment on this experiment" button. The footer of the page contains the text "Contact the Testbed Helpdesk here. | The Testbed is part of The Planets Suite. | PTB Version 1.1.0".



Step 5 – Analyse results

- ❑ Analysing results using X*CL
- ❑ Properties, characteristics



Step 6 – Evaluate experiment

The screenshot shows a web browser window titled "Planets Testbed - test 3: Stage 6: Evaluate Experiment - Mozilla Firefox". The address bar shows the URL "http://localhost:8080/testbed/exp_stages.faces?eid=3". The browser's status bar at the bottom indicates "Done".

The web application interface includes a top navigation bar with the "planets testbed" logo and links for "Home", "Experiments", "Services", "Digital Objects", "About", and "Help". A secondary navigation bar contains links for "plate", "testbed", "services", "techreg", "storage", "workflow", and "logs", along with "experimenter", "logout", "contact", and "help".

The main content area is titled "6. Evaluate Experiment" and features a "Finalise Experiment" button in the top right corner. On the left, a sidebar lists "EXPERIMENT PAGES" (New Experiment, My Experiments, Browse Experiments, Search Experiments) and "EXPERIMENT PROGRESS" (1. Define Basic Properties, 2. Design Experiment, 3. Run Experiment, 4. Experiment Results, 5. Analyse Results, 6. Evaluate Experiment). The progress bar shows that steps 1 through 5 are completed, and step 6 is the current active stage.

The main form area contains an "Experimental Report" section with a "Title" input field and a "Report" text area. Below these are "Save Evaluation" and "Finalise Experiment" buttons. At the bottom of the form is a "Comments on 'test 3'" section with a text input field and a link to "Add a new comment on this experiment".

At the bottom of the page, a small footer text reads: "Contact the Testbed Helpdesk here. | The Testbed is part of The Planets Suite. | PTB Version 1.1.0".



Step 6 – Evaluate experiment

- ❑ Get an experiment overview
- ❑ Explore results in detail
 - Automatically
 - Manually
- ❑ Evaluate experiment



And now...

Enjoy the demo with Matt Barr!

