

# Pericles

## FP7 digital preservation



This work was supported by the European Commission Seventh Framework Programme under Grant Agreement Number FP7-601138 PERICLES.

PERICLES is a four-year project (2013-2017) that addresses the challenge of ensuring that digital content remains accessible in an environment that is subject to continual change.

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## PERICLES - POLICY EDITOR

^ **Reprocessing high level data** [icon] [x]

ID: RPHLRD  
Version: 1.1  
Description: It should be possible to reprocess high level data from raw data.

^ **Reprocessing L1 data** [icon] [x]

ID: PL1D1  
Version: 1.2  
Description: It should be possible to reprocess **SOLAR** data of level 1.

^ **Processing script availability** [icon] [x]

ID: PS1  
Version: 1.1  
Description: For each level 1 **SOLAR** dataset check that processing script is available.

^ **Reprocessing L2 data** [icon] [x]

ID: PL2D1  
Version:  
Description:

^ **Software running scripts** [icon] [x]

### Long Term Data Preservation Policies

LTDP policies describe the goals, approaches and principles with regard to the management of the digital ecosystem of an organisation.

#### Policies

answers the "what?"

#### Digital Ecosystem

A digital ecosystem consists of all entities and relations influencing or necessary for a successful future use of its information.

#### Processes

answers the "how?"

### Authoring Support

Setting up LTDP (Long Term Data Preservation) policies is not simple - the editor can provide guidance in this.

### Management

The set of policies may be large and not simple to manage without a dedicated tool, especially if policies and processes depend on each other.

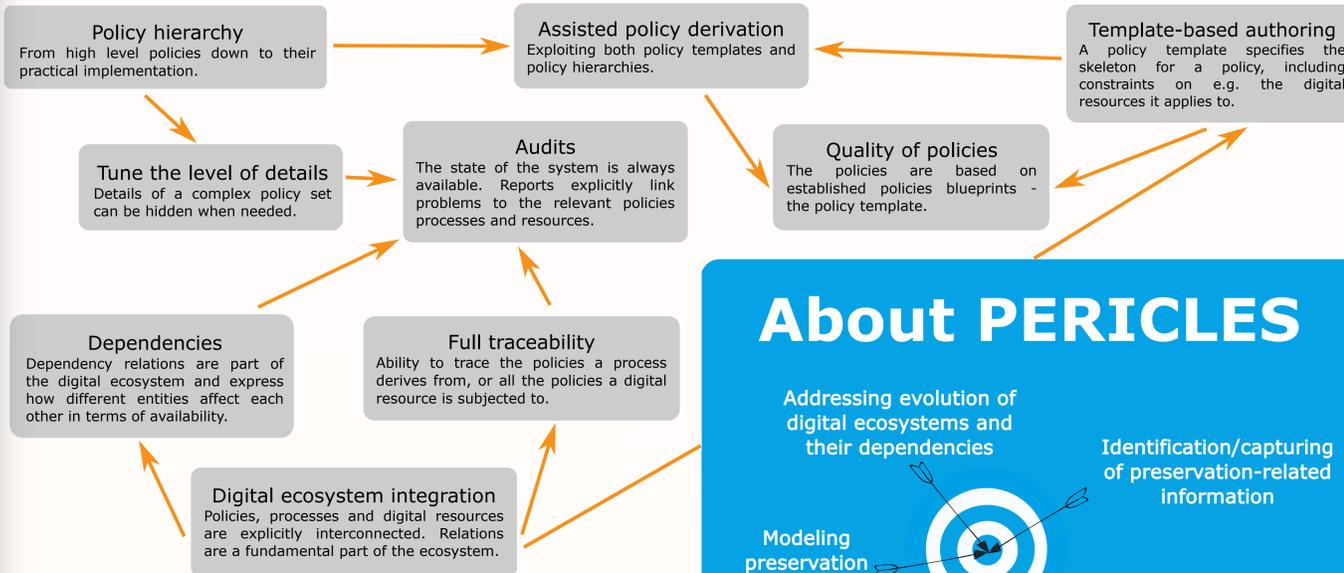
### The Goals

#### Dealing with Change

The Policy Editor will facilitate policy updating in response to ecosystem changes.

#### Auditing

The connection between the policy and the data model will allow to audit the system by tracing from the policies to the processes and finally to the digital resources.



The graph oriented architecture contextualizes the policy editor:

- Digital resources can be linked in a meaningful way creating a semantic model.
- Some of the semantic links between resources can represent dependencies. Part of the graph can therefore form a dependency graph.
- Policies are hierarchical in nature - and therefore form a graph as well. Policies and processes relate to digital resources and therefore the policy graph is merged with the semantic and the dependency graphs.
- Workflows are built from related steps which, again, form a graph. Moreover, workflows are related to both policies and digital resources, bringing to the merge of the workflow graph with the previous graphs.
- The connectors populate the graph (by copying the data or creating references to the data in the graph).
- The relations between digital resources allow to automatically extract the context of a resource for preservation packages.
- Access to digital resources is granted by a portal that fully exploits the semantic relations.
- The policy editor walks the user through the distinct steps of creating policies for the preservation system, and guides her from there through the derivation of lower level policies and processes.
- Integrating policies and rules with the dependency graph allows to provide the overall status of the preservation system, that is, an in-depth audit of the system according to the policies that govern it.

## About PERICLES

Addressing evolution of digital ecosystems and their dependencies

Identification/capturing of preservation-related information

Modeling preservation ecosystems

|       |  |   |   |
|-------|--|---|---|
| MGT   | WP1 Management   |   |   |
| RTD   | WP2 Case studies: user requirements & evaluation                   |   |   |
|       | WP3 Dependency and change management models for digital ecosystems | WP4 Capturing content semantics and environment | WP5 Tools for the preservation management of ecosystems and processes |
|       | WP6 Architecture and test-beds                                     |   |   |
| OTHER | WP7 Training   | WP8 Dissemination                               | WP9 Technology transfer   |

## case studies

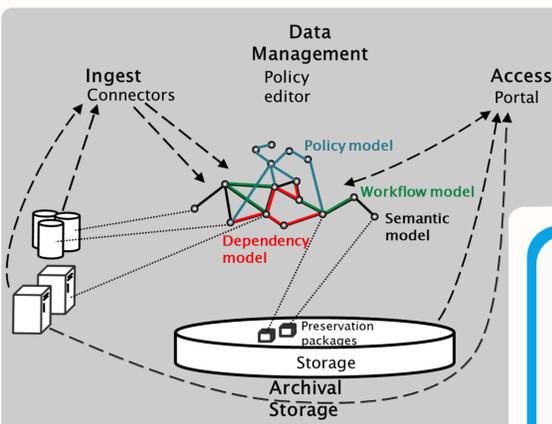
### Space Science

Focus on space science data originating from ESA/ISS:  
\* Engineering and operational documentation  
\* Telemetry, raw and processed scientific data



### Art & Media

Focus on Tate's digital collections:  
\* Digital art: software based artworks and digital video artworks  
\* Born digital collections within the Tate Archive



**PARTNERS**



#### Our main roles in PERICLES:

- RTD partner, focusing on space science case study
- Involvement in WP3 to WP6
- Space Science Portal, Policy Editor
- WP Lead of WP2: requirements and evaluation

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- University of Borås (Sweden)
- Information Technologies Institute (Greece)
- Dotsoft SA (Greece)

- Georg-August-Universität Göttingen (Germany)
- The University of Liverpool (UK)
- Space Applications Services NV (Belgium)
- Xerox SAS (France)

- The University of Edinburgh (UK)
- TATE (UK)
- Belgian User Support and Operations Centre (Belgium)