



Development of an Integrated Information platform

Proposed Commissioned Work for 2006

Vision

- High quality GCP data collected and stored in local, curated databases
- Integration with existing data of known quality
- Specialist applications able to access GCP and related data
- Applications interoperate with each other via a semantically rich domain model



Objectives

- Implementation of agreed data models
- Connection of local databases to the model layer
- Development/adoption of data curation and analysis tools
- Mounting tools on the domain model layer
- Development and comparison of LIMS
- Definition of quality standards and quality assurance protocols

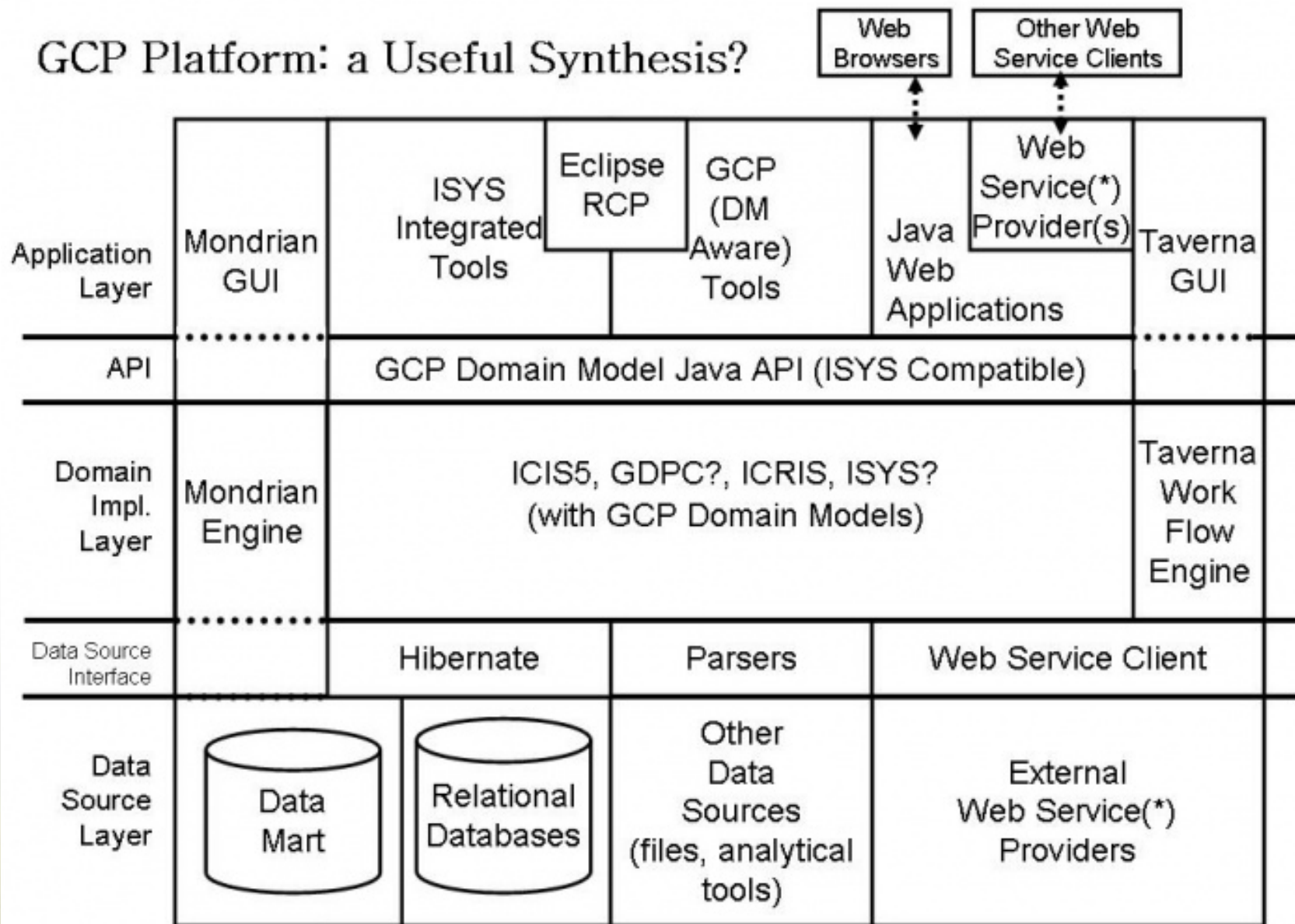


Principles

The emphasis of the GCP contribution is on generic solutions and collaborative development so that outputs have wide application across the CP partners. Generic solutions are those that can readily be employed for different databases and crops.



GCP Platform: a Useful Synthesis?



(*) MOBY, GBIF, GDPC,...

A Pantheon of Information Tasks



Demeter – The Greek Goddess of Agriculture: Specification of the Domain model



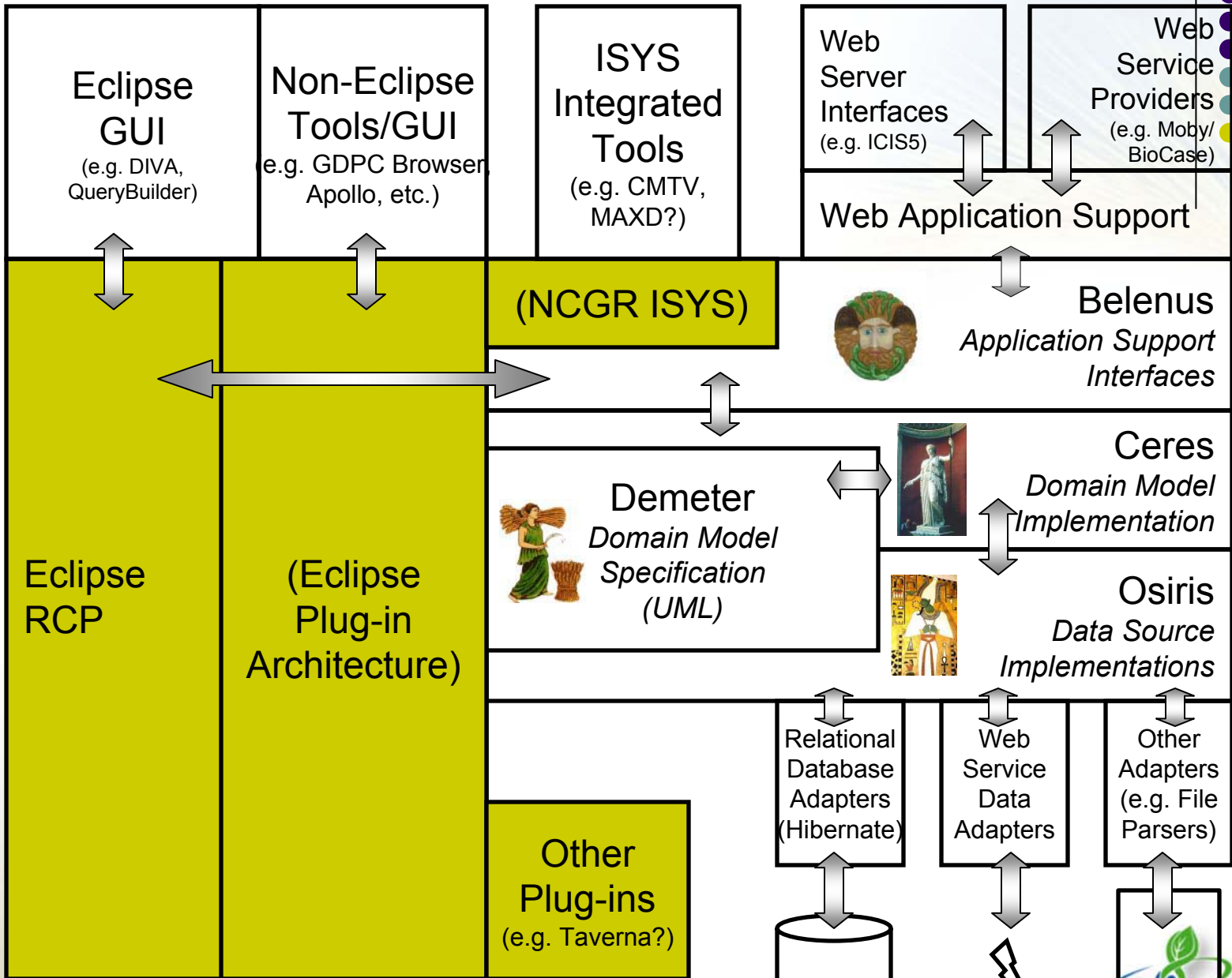
Belenus – The Celtic Sun God: Application Support Interface



Ceres – Roman Goddess of Plants: Domain Model Implementation



Osiris – The Egyptian God of the underworld: Data Source Interface



Shaded portion corresponds to "BioClipse" Framework

Next Steps in Platform Development



- Further refinement of the domain model implementation in the middleware
- Integration of applications into the platform via Eclipse RCP, the Eclipse Plug-in Architecture or an ISYS interface.
- Development of Web Service Applications either as Web Service Providers like Moby and Biocase or as Web Server Interfaces to different model implementations
- Integration more of data sources into the platform via Hibernate adapters or Web Service clients or other specialized adapters as needed.
- Development and merger of LIMS systems and integration with templates