

# Grid Data Management (WP2)

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# Overview

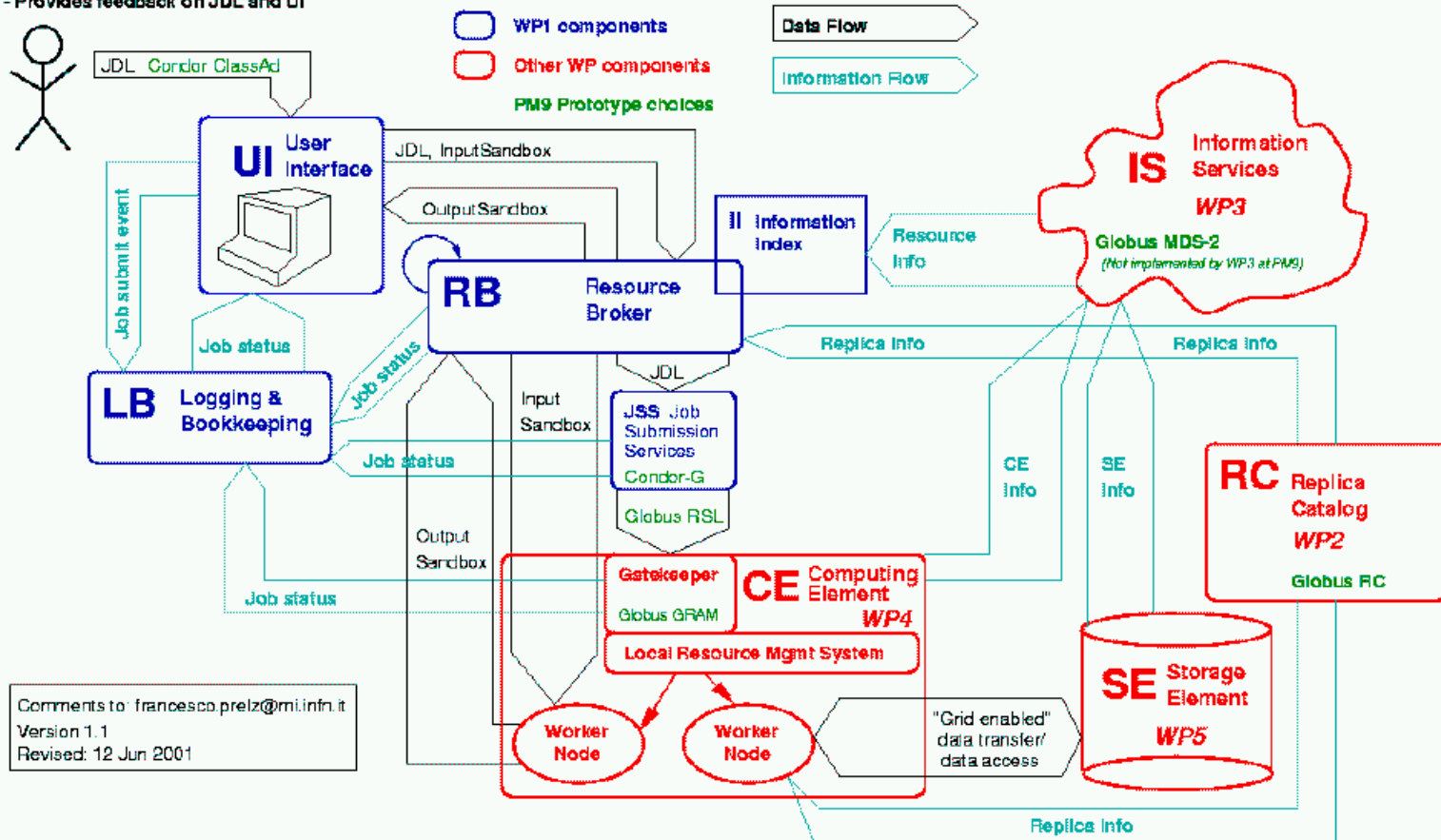
- Introducing WP2
- Query Optimisation
- Meta Data Services
- Statements and Future Work

# EU Data Grid

## End User *WP8,9,10*

- Specifies job using JDL
- Submits job using UI
- Controls and monitors job(s)
- Provides feedback on JDL and UI

## WP1 PM9 Integration



Comments to: francesco.prelz@mi.infn.it  
Version 1.1  
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# Query Optimisation

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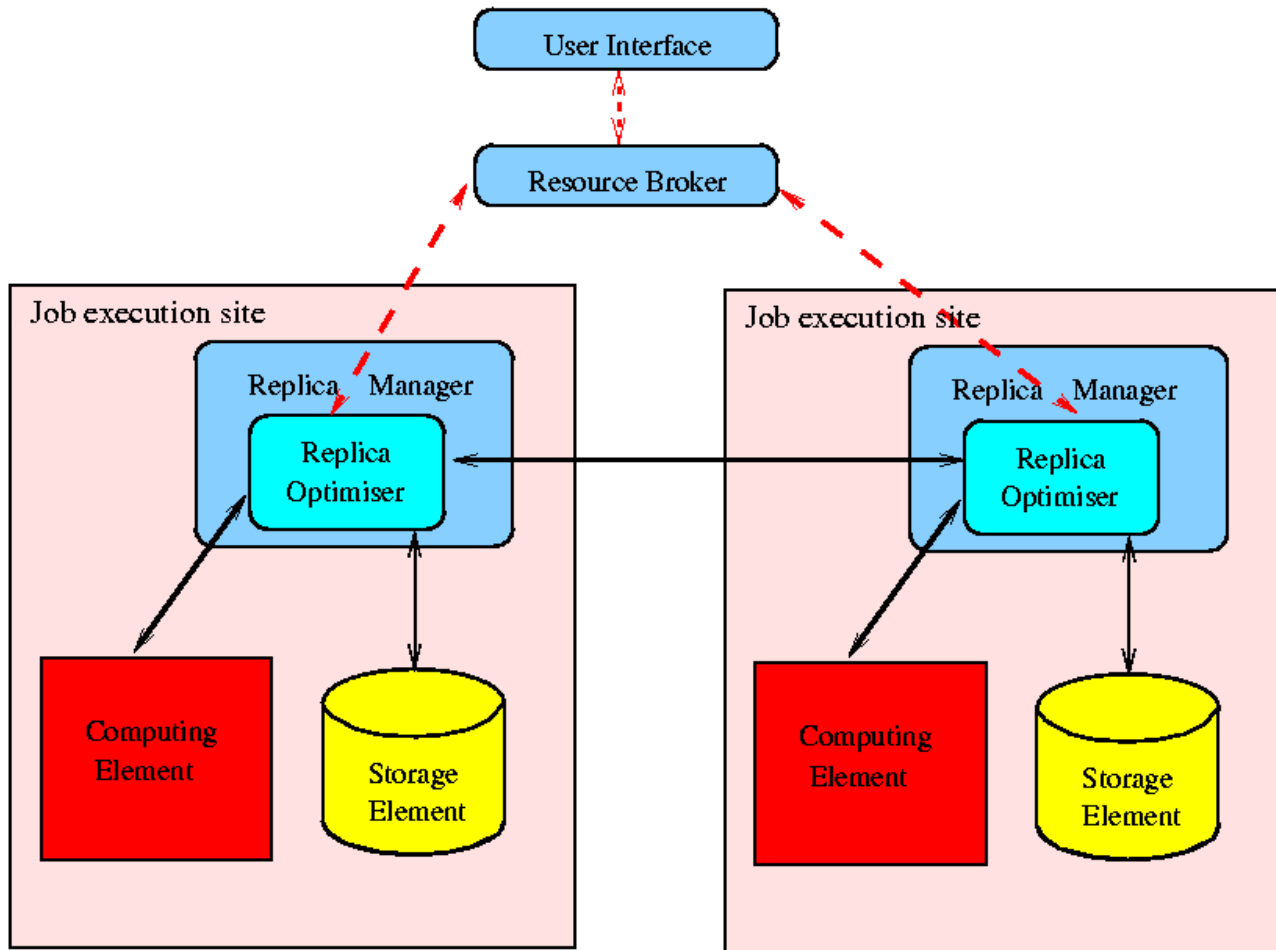
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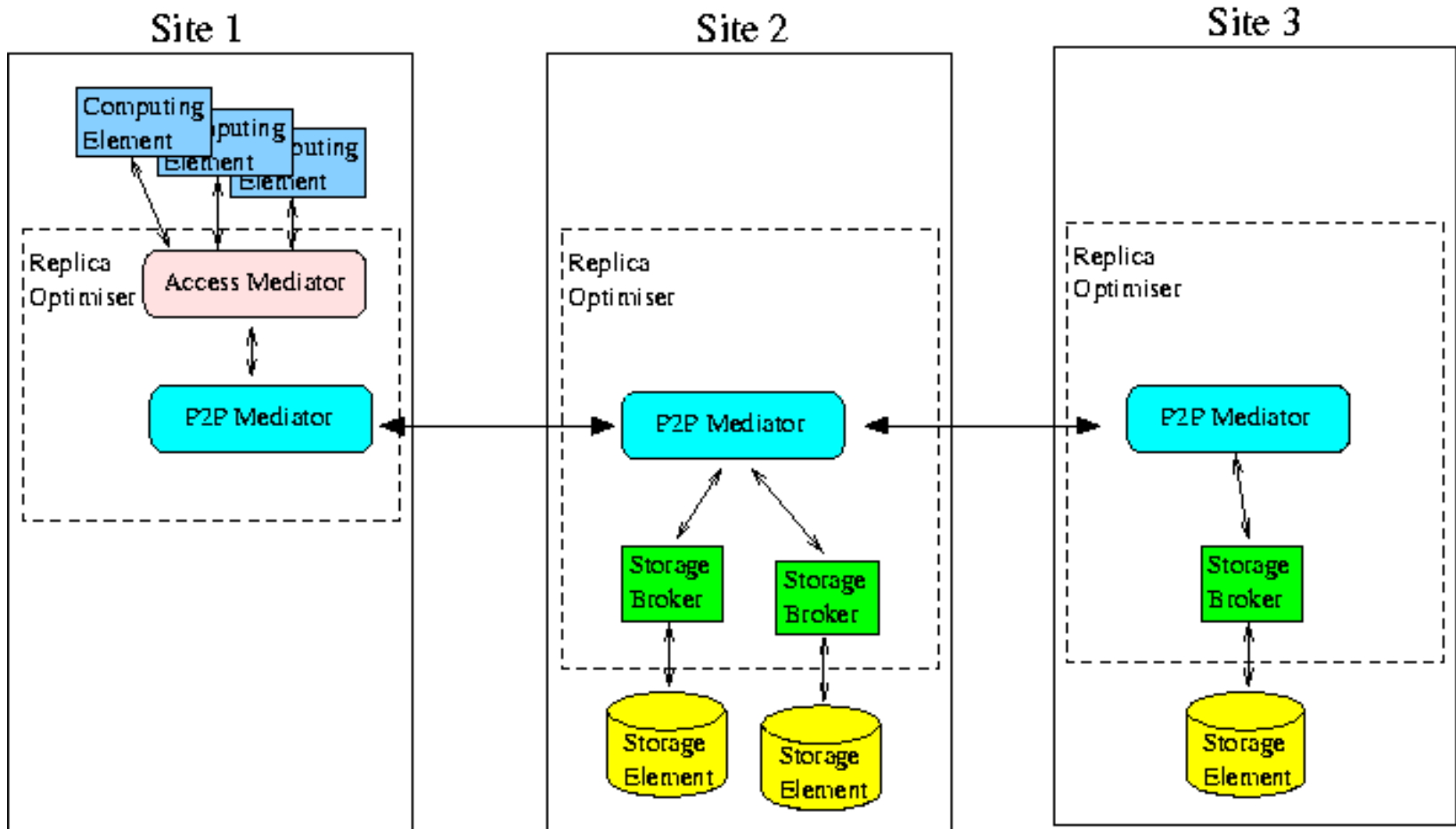
# Query Optimisation

- Local minimisation of execution time by replica selection.
- Two phase minimisation
  1. RB selects CE based speculative cost
  2. Job contacts RM (RO), and pins file

# Query Optimisation



# Economic Model



# Meta Data Service

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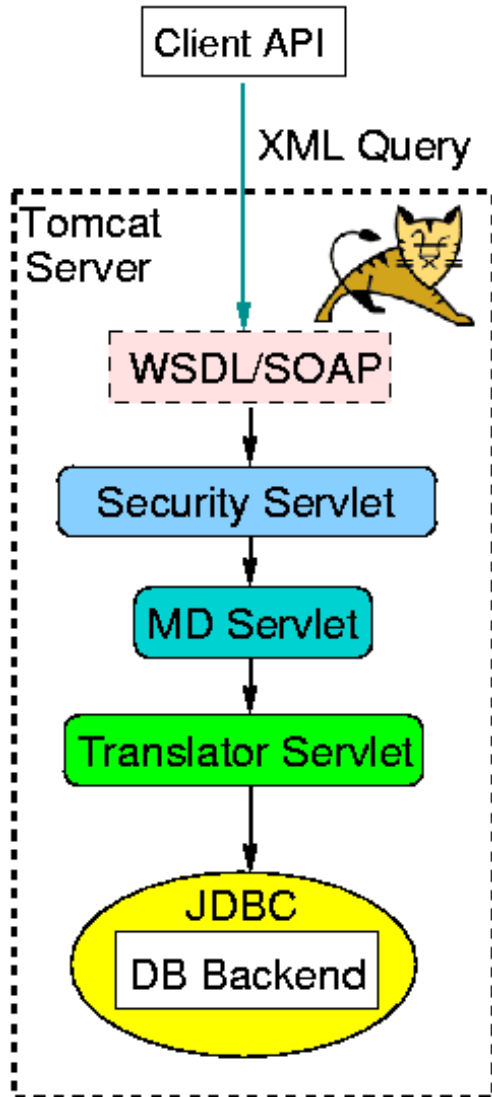
2 CERN, Geneva, Switzerland



# Meta Data Service

- Different from Existing Spitfire
  - Scrap XSQL, allow administrator access
  - No templates needed
- Implementation
  - Compartmentalised: Servlets (Use in WP3)
  - Provide generic support for RDBs
  - Pickup security concepts from Spitfire

# Meta Data Service



- Provide Generic RDB Access
- User Access via HTTPS
  - Decode XML with WSDL/Soap
- Security Servlet Maps Roles
- Command Translator
  - From generic to specific
- Backend Types
  - Oracle, PostgreSQL, MySQL

# Statements and Future Work

- Query Optimisation
  - API document in final stages of discussion
    - First release of code in May.
  - Simulation platform under construction
- Meta Data Services
  - API document nearing completion
  - Coding starts soon.