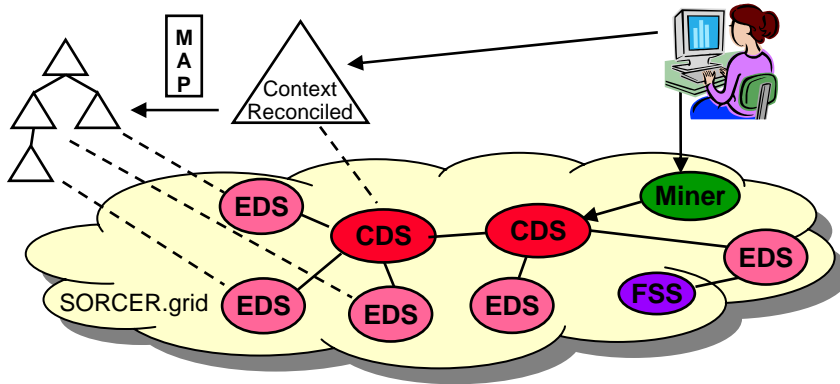


Service-Oriented Data Mining in SORCER

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TASK DESCRIPTION

Transparent access to heterogeneous, distributed data stores in a grid environment is needed



OBJECTIVE/APPROACH

Objective:

- Integrate isolated data islands as context providers (EDSs) in SORCER.grid
- Reconcile data stores contexts into comprehensive contexts (context mapping)
- Provide grid services for comprehensive knowledge discovery

Approach:

- Develop comprehensive context, context mapping, and context set
- Develop the framework with CDS providers to retrieve data from multiple context providers
- Develop a generic grid mining provider

SCHEDULE: Key development milestones for 2004:

| | |
|----------------------------|----------|
| Proposal Presentation | 03/01 |
| Deploy Mining Provider | 03/15 |
| Develop Client GUI | 04/01 |
| Deploy multiple databases | 04/15 |
| Develop Database Providers | 05/30 |
| Integration and Testing | 06/15 |
| Case Study with Demo | 06/20 |
| Thesis Defense | by 06/30 |

MISCELLANEOUS SUPPORTING DATA

Benefits:

1. Access data from multiple data stores with different schemas
2. Distributed mining on grid data stores
3. Improved performance by data caching in EDSs and CDSs
4. User friendly namespace format in reconciled contexts to represent tabular data