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