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Presentation # 8

CINET Registry

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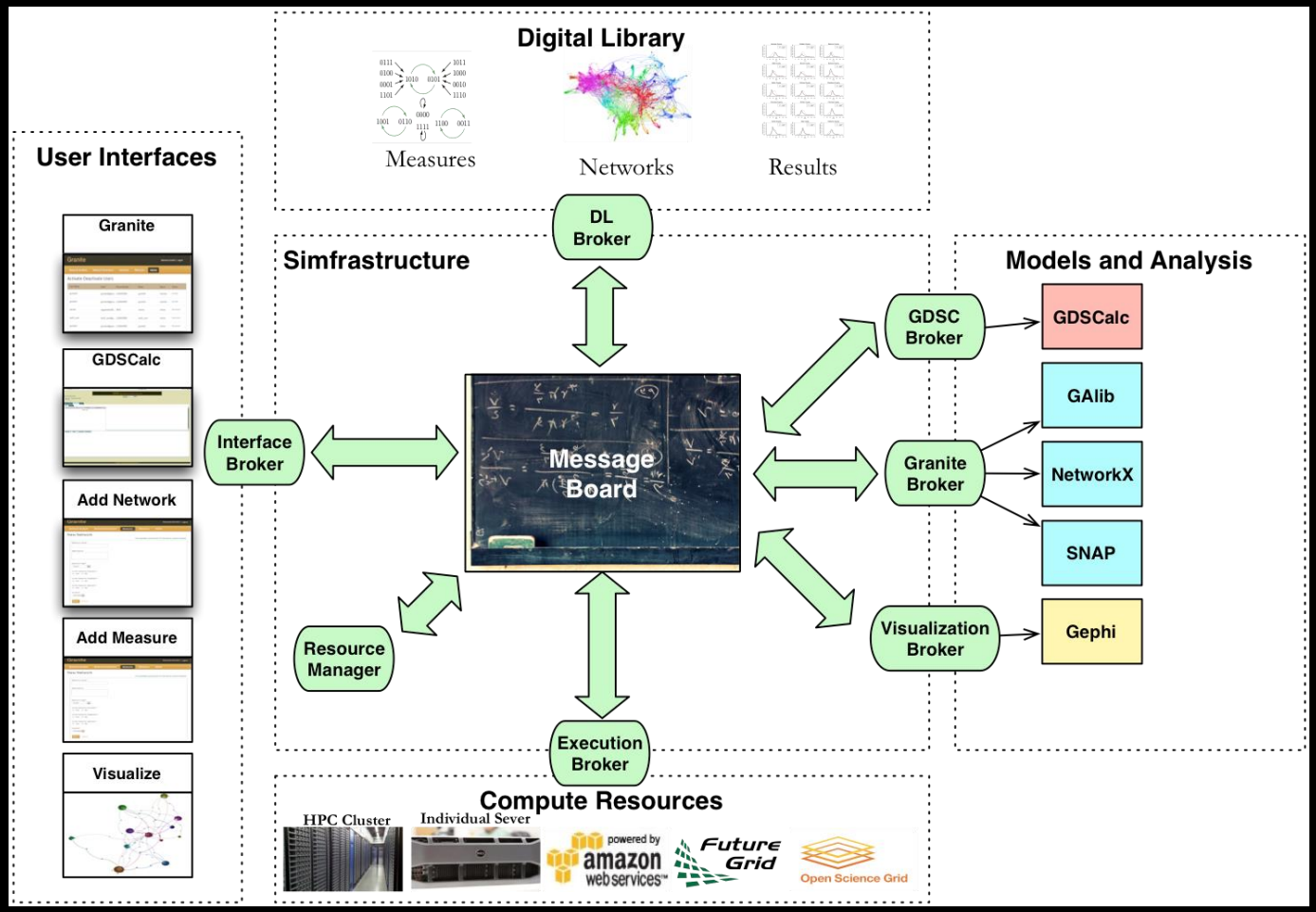
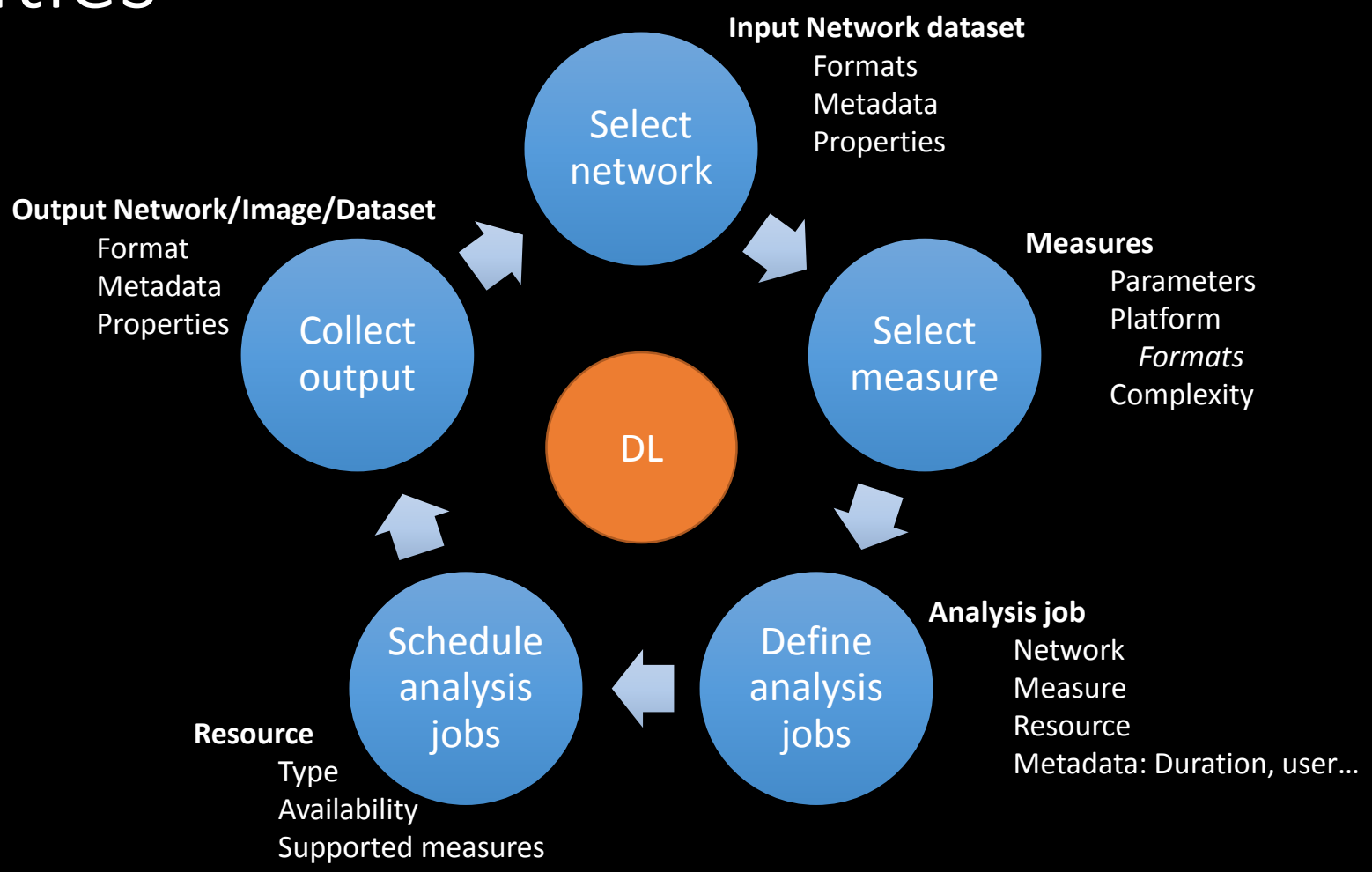
CINET Architecture



Workflow and entities



Motivation

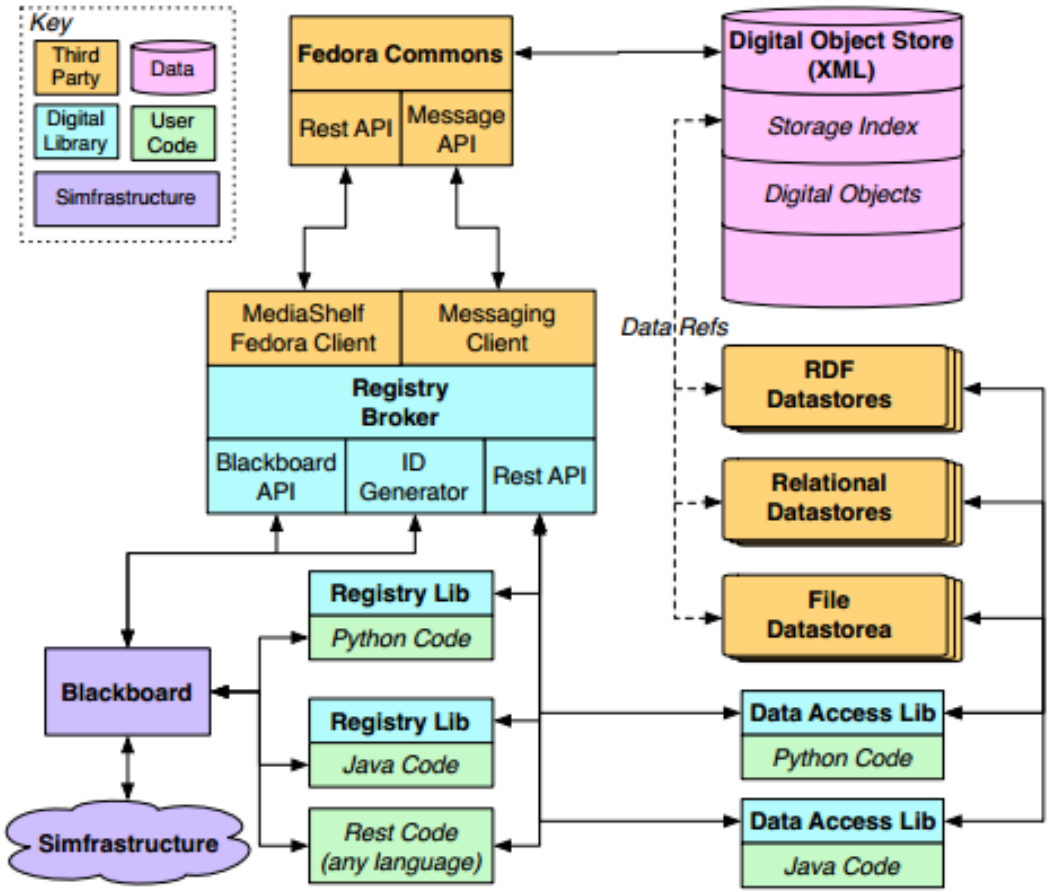
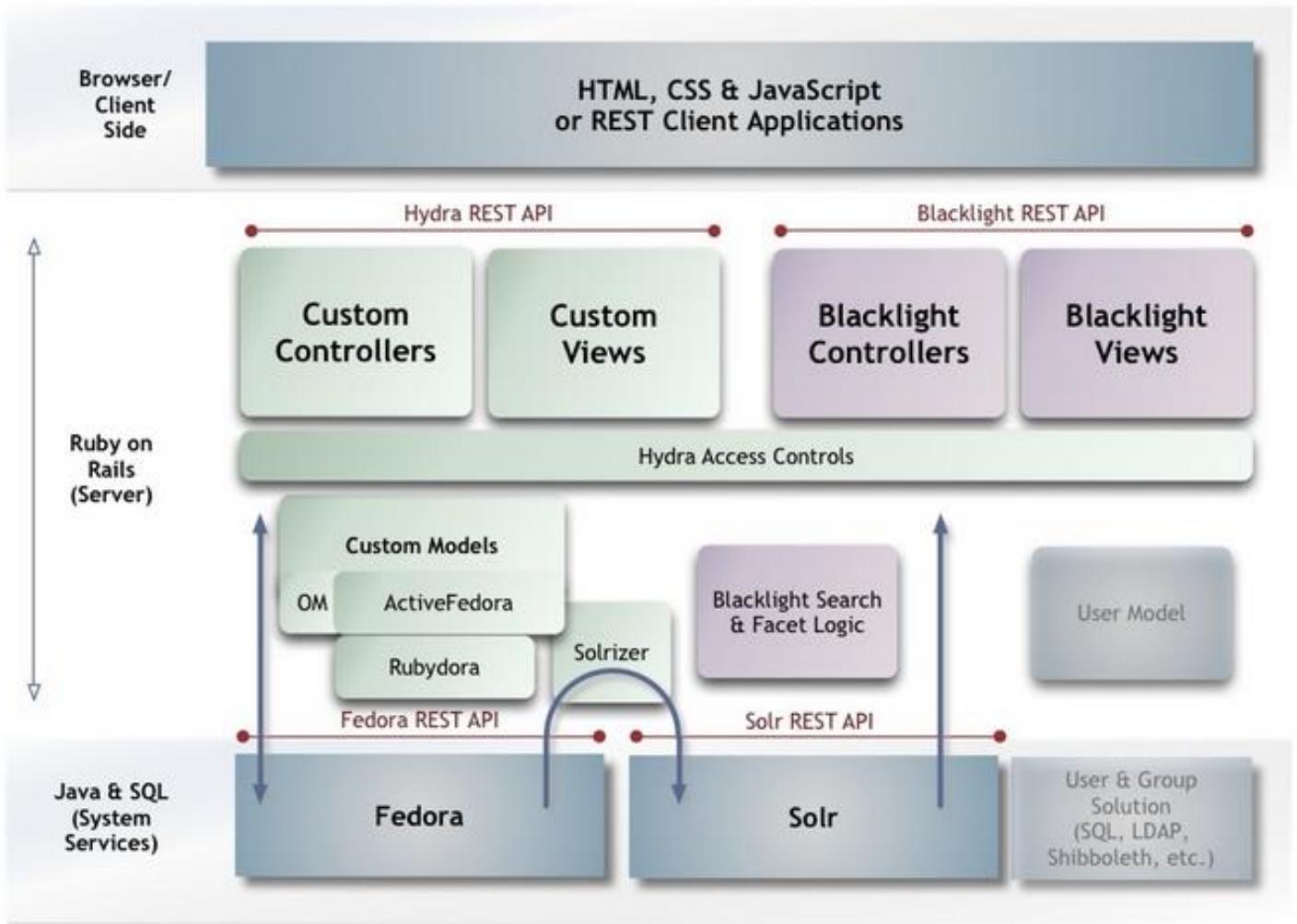
- From RDBMS to digital object repository
  - Common minimum subset of metadata
  - Creation of one table per kind of dataset to capture metadata

- Unified data model
  - Domain-specific metadata
  - Multiple dataset in data streams and respective metadata in single complex digital object.

Challenges

- Complex digital object for datasets
  - Multiple format files as embedded data streams.
  - Domain-specific metadata
  - Format conversion
    - Loss of info
    - Automatic conversion
- Analysis configuration specification
  - Entire analysis as complex digital object
  - Refers: Input, output, algorithms, user and so on.
- ‘Concept’: Plug-in based metadata element
  - For example, ‘Person’ entity can be plugged with disease specific metadata for different diseases.

Proposed Solution Architecture



Technology stack