**Service Development:**

* Reuse a syntactic model assigning different semantics
  + Schema types used for serialization across multiple models
* Reuse a logical model using different syntax
  + Object Class resuse
  + CDE reuse
  + “whole model” reuse

**Resource Discovery:**

* Discovery of Semantics for a given XML/WSDL type
  + E.g. workflow or other dynamic invocation tools wanting to augment user/machine-assisted invocation
* Discovery of Syntax (XML Schemas) for a Logical Model
  + E.g. “I want to know how this data is serialized”
* Discovery of available data/resources on the grid
  + E.g. current discovery client
  + What does finding services uses a class named “Gene” mean (if anything)?

**Runtime Invocation:**

* Data pipelines
  + Data-> Analytical
    - E.g. query a data service for experiment results and send them to a analytical service to do data summary/statistics
  + Analytical -> Analytical
    - E.g. standard biomedical processing pipelines
  + Analytical ->Data
    - e.g. “I have data from an experiment I want to store on the grid for others to see”
* Federated Query Across multiple models (CDE-based joins)
  + E.g. Current FQP does this
* Data Mining Across multiple Models
  + CDE extract
    - E.g. “I want to find every ‘drug name’ that is mentioned in all the Data Services on the grid”
  + Object extract?
    - E.g. “Find me all the data related to the Object Class Drug”