The EDG Testbed

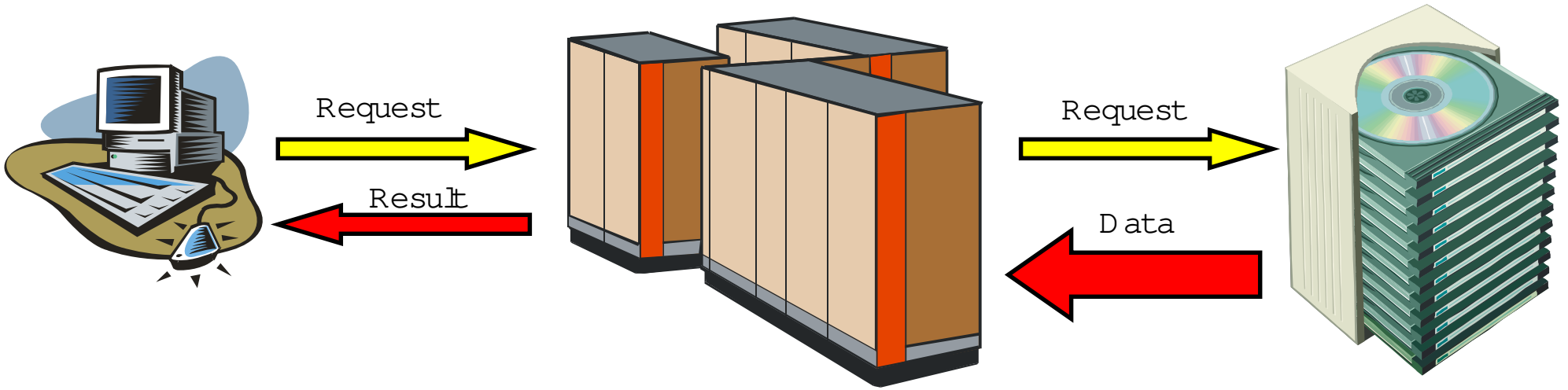
The European DataGrid Project Team (UFFICIALI)

http://www.eu-datagrid.org

Contents

- User's Perspective of the Grid
- Grid Services

A 3 Tier Architecture

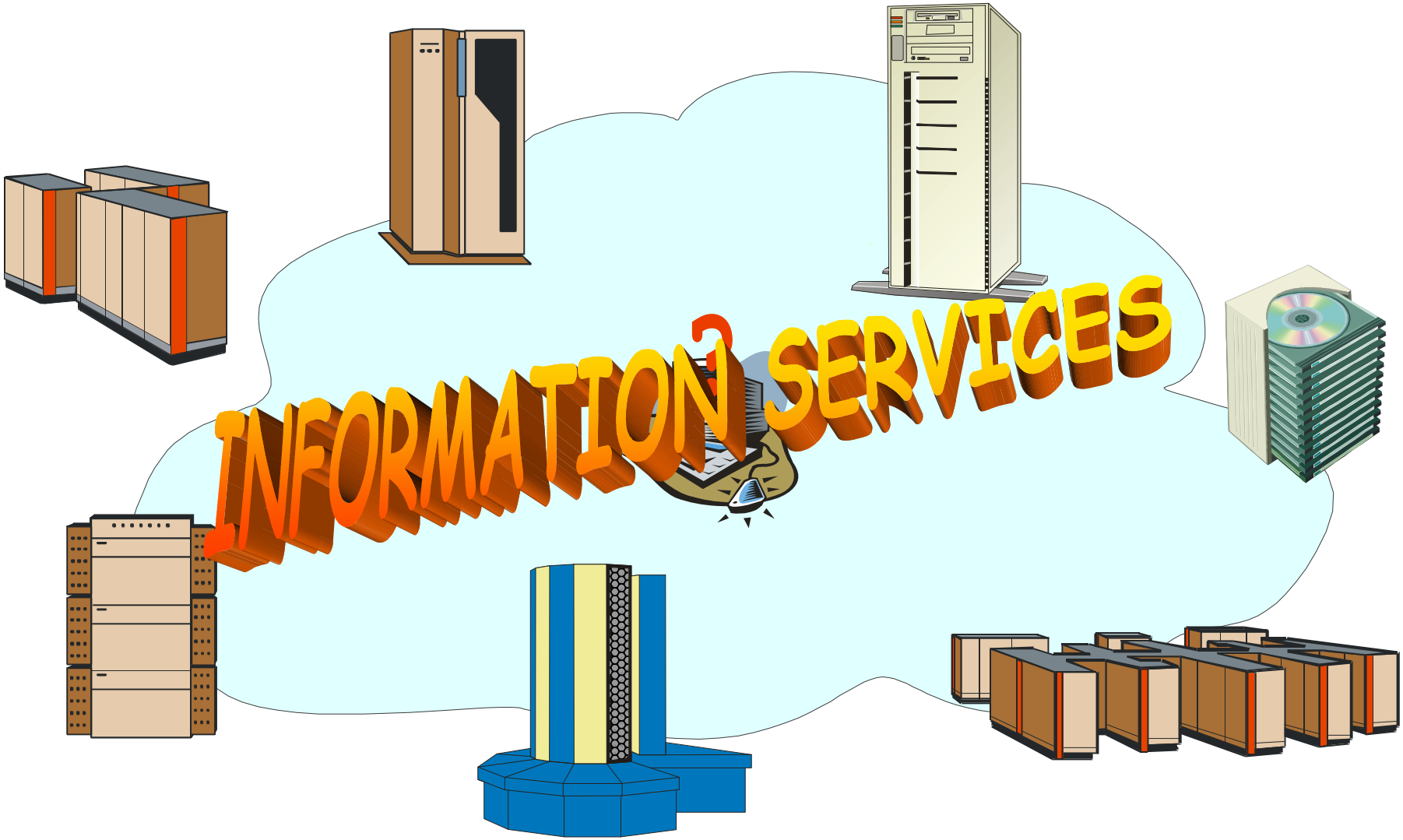


Client **Application Server** **Data Server**

On the EDG:

User Interface **Computing Element/ Worker Nodes** **Storage Element**

Situation on a Grid



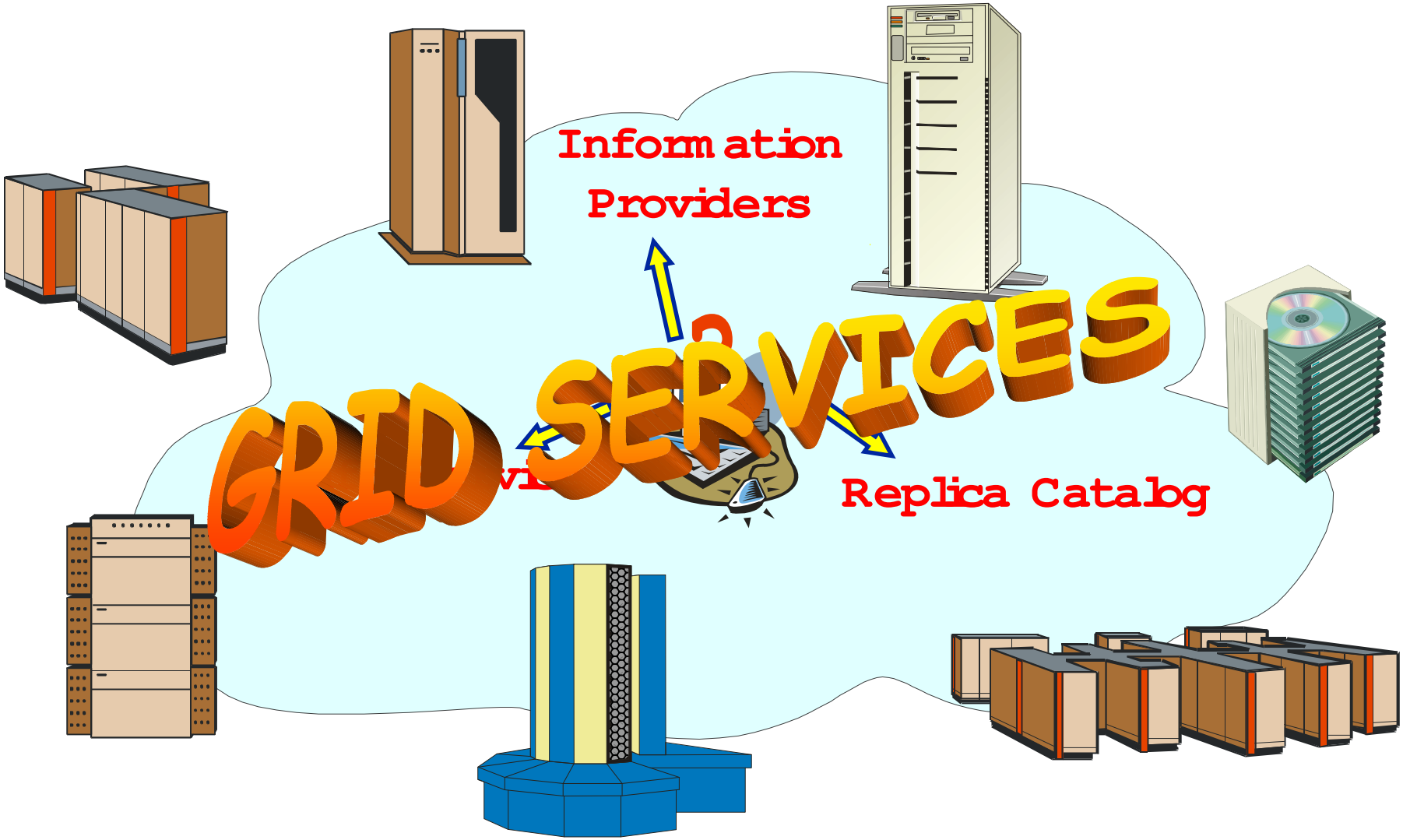
Information Services

- Hardware:
  - EDG Information Service
  - Information Providers
- Data:
  - Replica Catalog
- Software & Services:
  - EDG Grid Services:
    - Information Service
  - Application Services:
    - Currently only EDG applications directly supported

Machine Types:

- Information Service (IS)
- Replica Catalog (RC)

Situation on a Grid Cont'd



Main EDG Grid Services

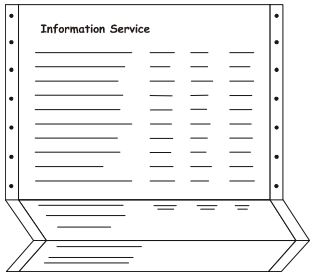
- Authentication & Authorization
- Workload Management System (WMS)
  - Resource Broker (RB)
- Replica Management
  - Composed by two packages
    1. Grid Data Mirroring Package (GDMP)
    2. edg-replica-manager (an improvement of the Globus Replica Manager)
  - Supports mass storage system
- Logging & Bookkeeping (LB)

EDG Logical Machine Types

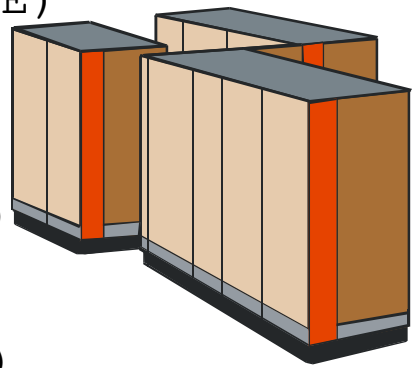
1. User Interface (UI)

2. Resource Broker (RB)

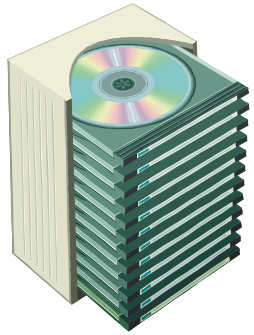
3. Information Service (IS)



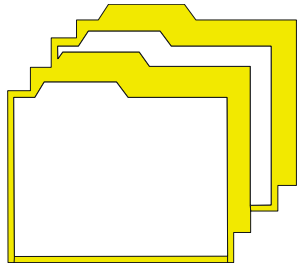
4. Computing Element (CE)
   - Gatekeeper
     (Front-end Node)
   - Worker Nodes (WN)



5. Storage Element (SE)



6. Replica Catalog (RC)



Further Information

- EDG Testbed homepage:

http://marianne.in2p3.fr