**Environment Oriented Applications in enviroGRIDS Portal**

**BSC-OS Portal Objectives**
- To be the single way of the user to get into the enviroGRIDS system
- Exposes personalized tools for different category of users: data manager, earth science specialist, decision maker, citizen, and system administrator.
- Provide applications for:
  - data management
  - hydrologic models calibration and execution
  - satellite image processing
  - report generation and visualization
  - virtual training center
- Support interoperability between the Geospatial and Grid infrastructures on security, heterogeneous data access, distributed data processing
- EnviroGRIDS functionality gathers services provided by various technologies such as SWAT related modules, Collaborative Working Environment (CWE), Uniform Resource Management (URM), gProcess, ESIP, and eGLE platforms

**Portal Architecture**

**Data Flow Throughout the Portal**

**OGC-GRID Service Interoperability**
- Interface – invocation HTTP vs. SOAP msg.
- Description – capabilities vs. WSDL
- Discovery – CS-W service vs. UDDI, MDS
- Communication – message, XML, GridFTP
- Security – user name, password, certificates
- State information – stateless vs. stateful

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