

PortalU®

-

a Tool to Support the Implementation of the Shared Environmental Information System (SEIS) in Germany

Fred Kruse,

S. Uhrich, M. Klenke, H. Lehmann, C. Giffei, S. Töpker

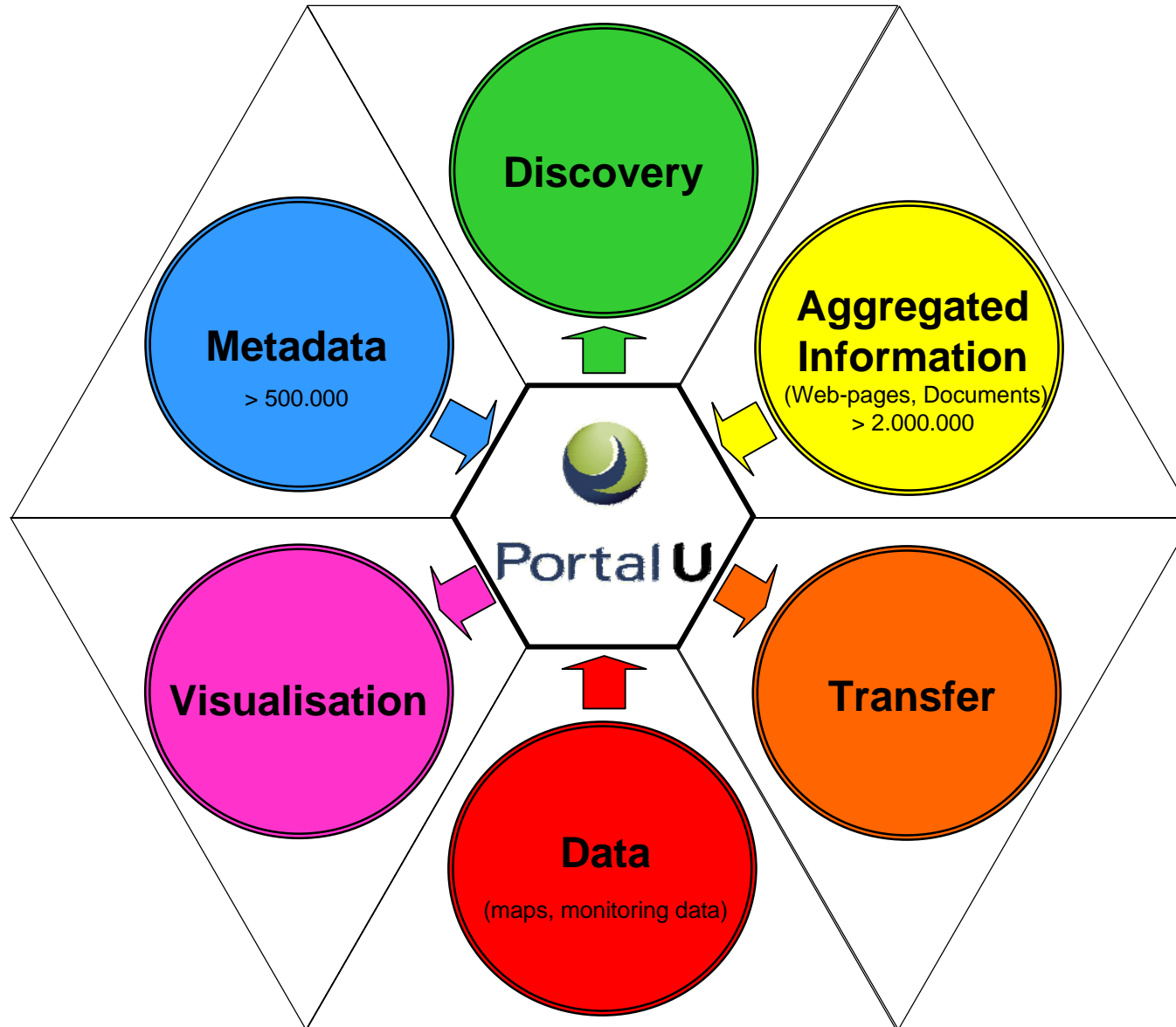


Towards eEnvironment , Prague, 25.-27.03.2009

- Starting point: Germany is a federally structured country
- Responsibilities for Environmental information
 - Some on the national level
 - Many on the regional level
 - On the level of the German states (“Länder”)
 - Some on the municipal level
 - Example: nature conservation in some German states
- Environmental Information
 - are spread over all levels of administration
 - Are very heterogeneous
 - There is a need of a common access point for the public

- PortalU®: German Environmental Information Portal
- Common access point to environmental information
 - of the federal government
 - of the federal German states
 - of the local authorities (under development)
- Common access to all kind of information:
 - Documents and Websites
 - Maps
 - Datasets
 - Metadata
- Support the Implementation of
 - the European Environmental Information Directive
 - the INSPIRE Directive
 - In future: SEIS (decision of the standing committee for environmental information systems in Germany)

- Administrative agreement between
 - the federal government
 - the 16 German federal states (“Länder”)
- Exist
 - Since 1996 for metadata (UDK)
 - Since 2003 advanced to all kind of environmental information (PortalU®)
- Managed by the coordination center PortalU
 - Located in Hannover (Lower Saxony)
 - Staff of 5 persons
 - Financed by the federal government and the federal German states

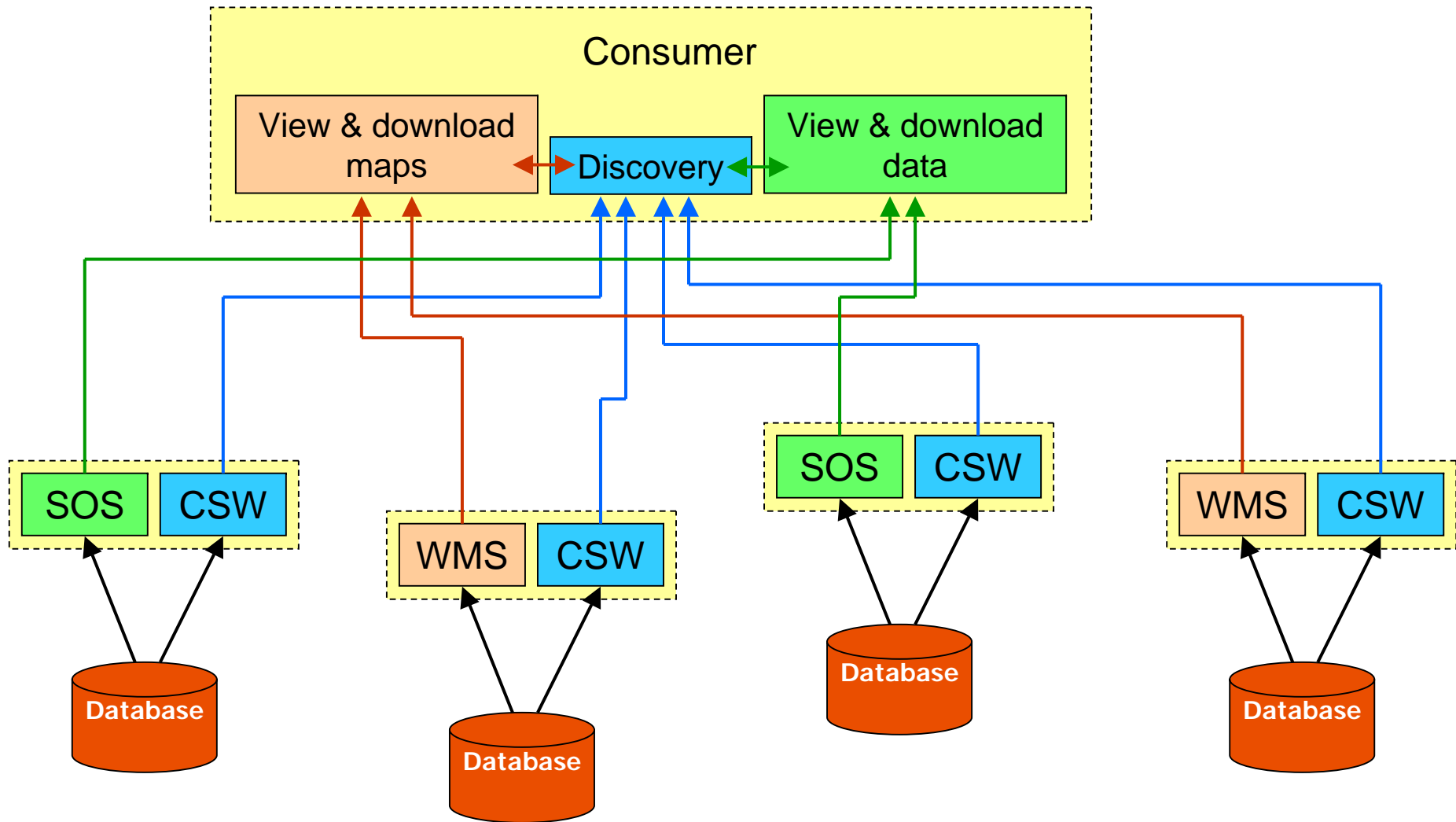


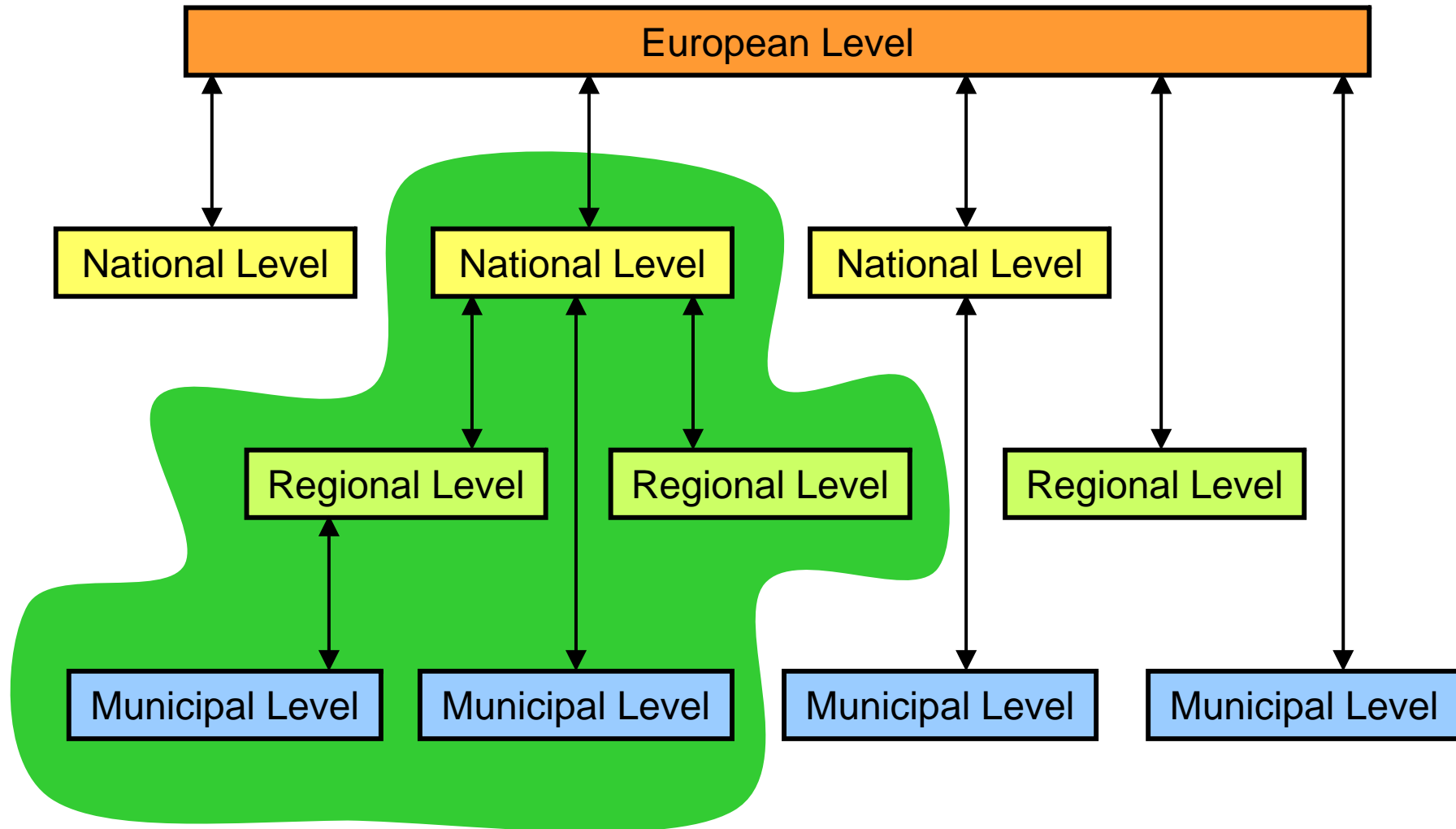
PortalU[®] provides meta-information for all kind of data related to the environment:

- Maps and geographic information
 - Directly related to INSPIRE
- Services
 - Geographic Services (Directly related to INSPIRE)
 - Other Services (e.g. SOS-Services and not standardized services)
- Documents
 - mostly non-spatial information
- Non-geographic datasets and databases
 - e.g. monitoring data (not stored in maps or geographic information systems)
- Environmental Projects

- Reporting obligations will be fulfilled
 - Not by exchange of data
 - But by providing of services
- Services should be compatible to open standards
 - ISO
 - OGC
- Special profiles for SEIS have to be defined
- Services should be based on INSPIRE definitions
- For non-geographic services additional standards have to be defined
 - Based on open standards

Idea for a SEIS network (2/2)

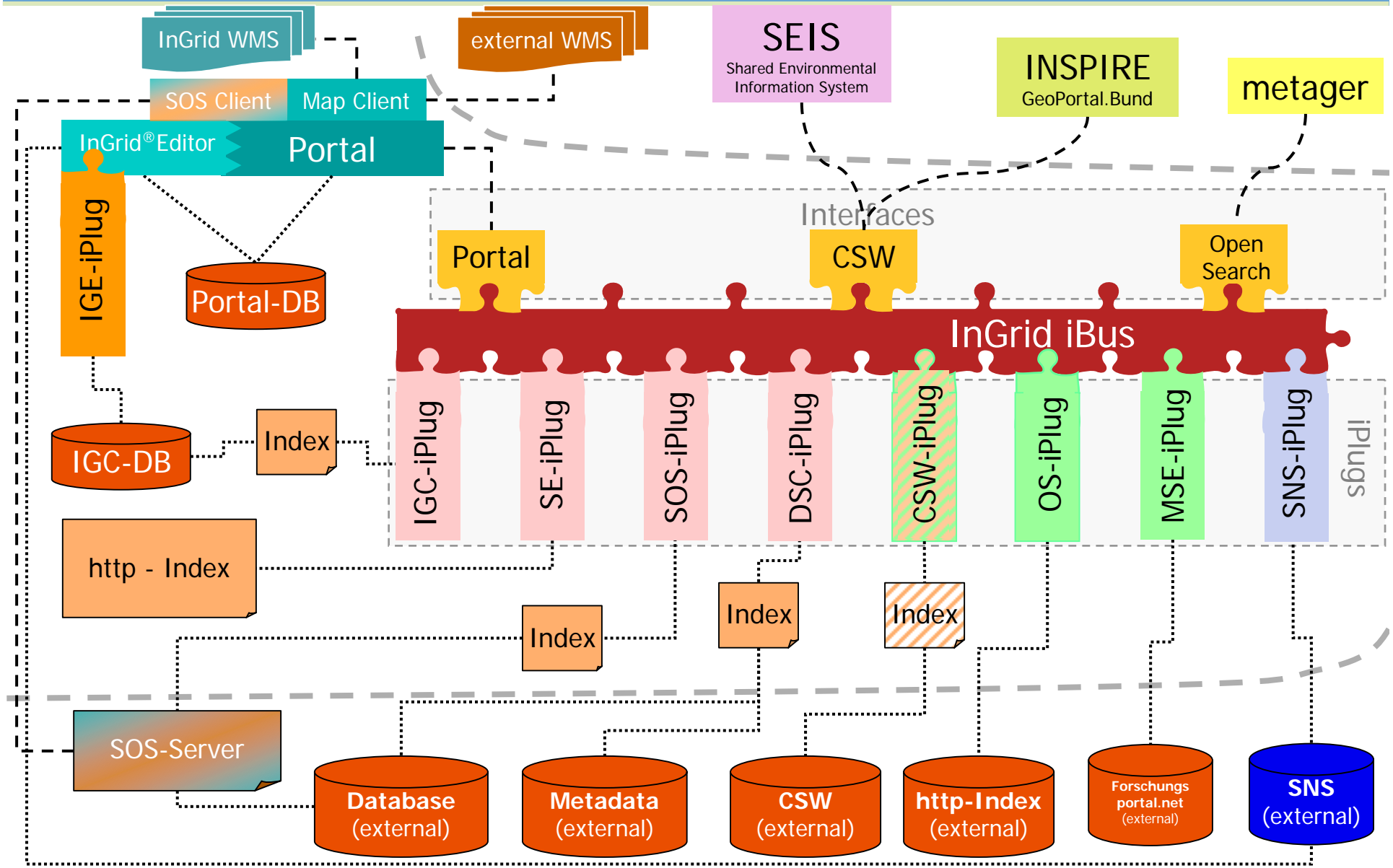




- Sensor Observation Service (SOS)
 - OGC-compliant XML-Format for the exchange of numerical data
 - monitoring and model data
 - Properties of the Service are defined by the OGC
- Planned for PortalU[®]:
 - OGC-compliant interface for access to SOS-services
 - Internal interface for direct access to monitoring data
 - Visualisation by an SOS-viewer

- Presentation of monitoring data
 - Properties (Parameter)
 - Points of interest (Stations)
 - Time period
- Combination of data from different SOS-Services are possible
- Different views of data
 - Different properties (Parameter):
 - Same point of interest
 - Same time
 - Time series:
 - Same point of interest
 - Same properties
 - Different point of interests (Stations):
 - Same properties
 - Same time
- Combinations of different views are possible

- Different notations of the data
 - Different kinds of diagrams
 - Line charts
 - Bar and column charts
 - Multi bar charts
 - Spreadsheets with numerical data
- Download & Print
 - PDF-Files
 - Excel- and CSV-Files
 - Generation of different report formats



www.portalu.de

www.kst.portalu.de

kst@portalu.de