

# PortalU®

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

Fred Kruse,

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

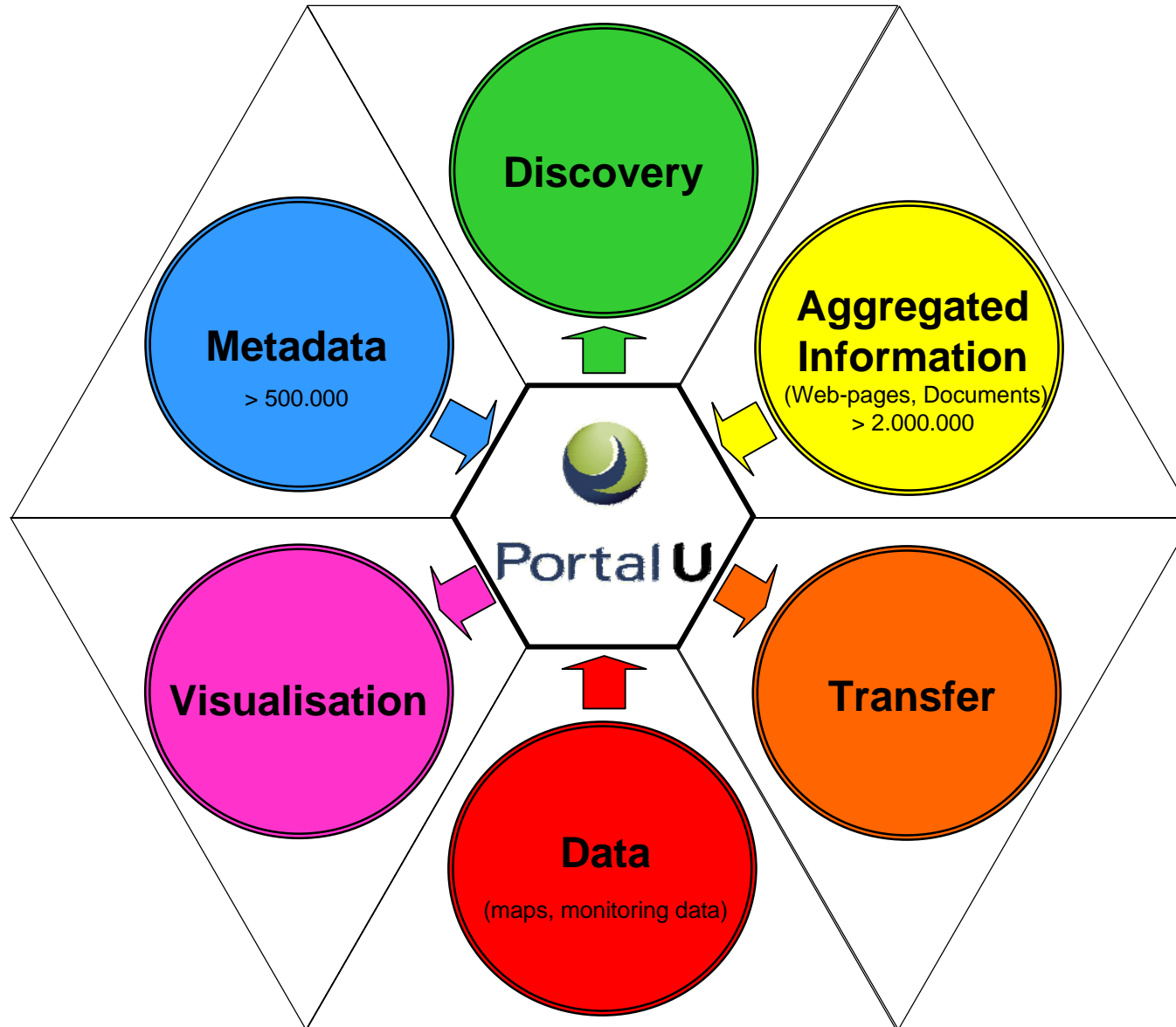


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- Starting point: Germany is a federally structured country
- Responsibilities for Environmental information
  - Some on the national level
  - Many on the regional level
    - On the level of the German states (“Länder”)
  - Some on the municipal 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

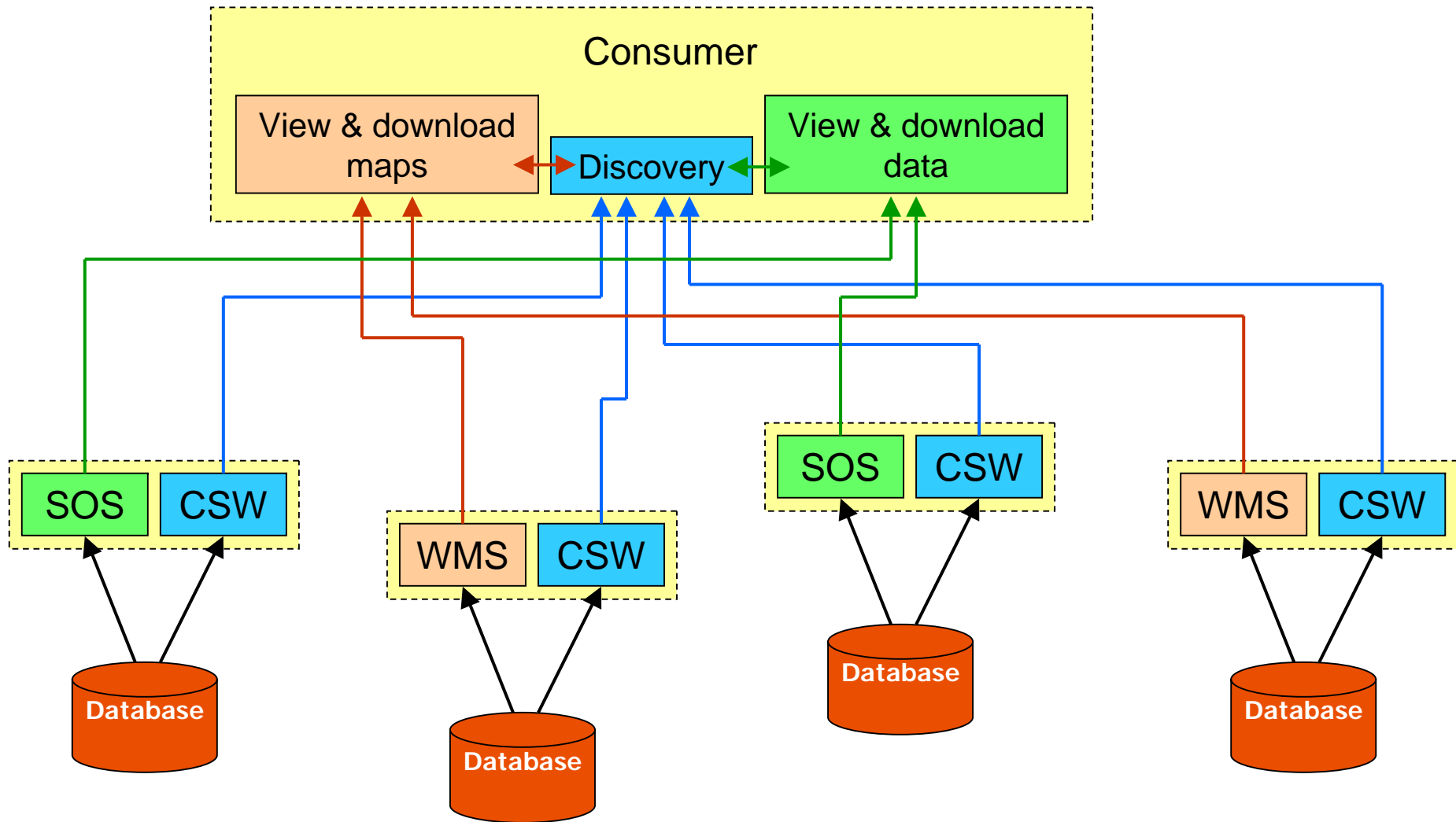


**PortalU<sup>®</sup> provides meta-information for all kind of data related to the environment:**

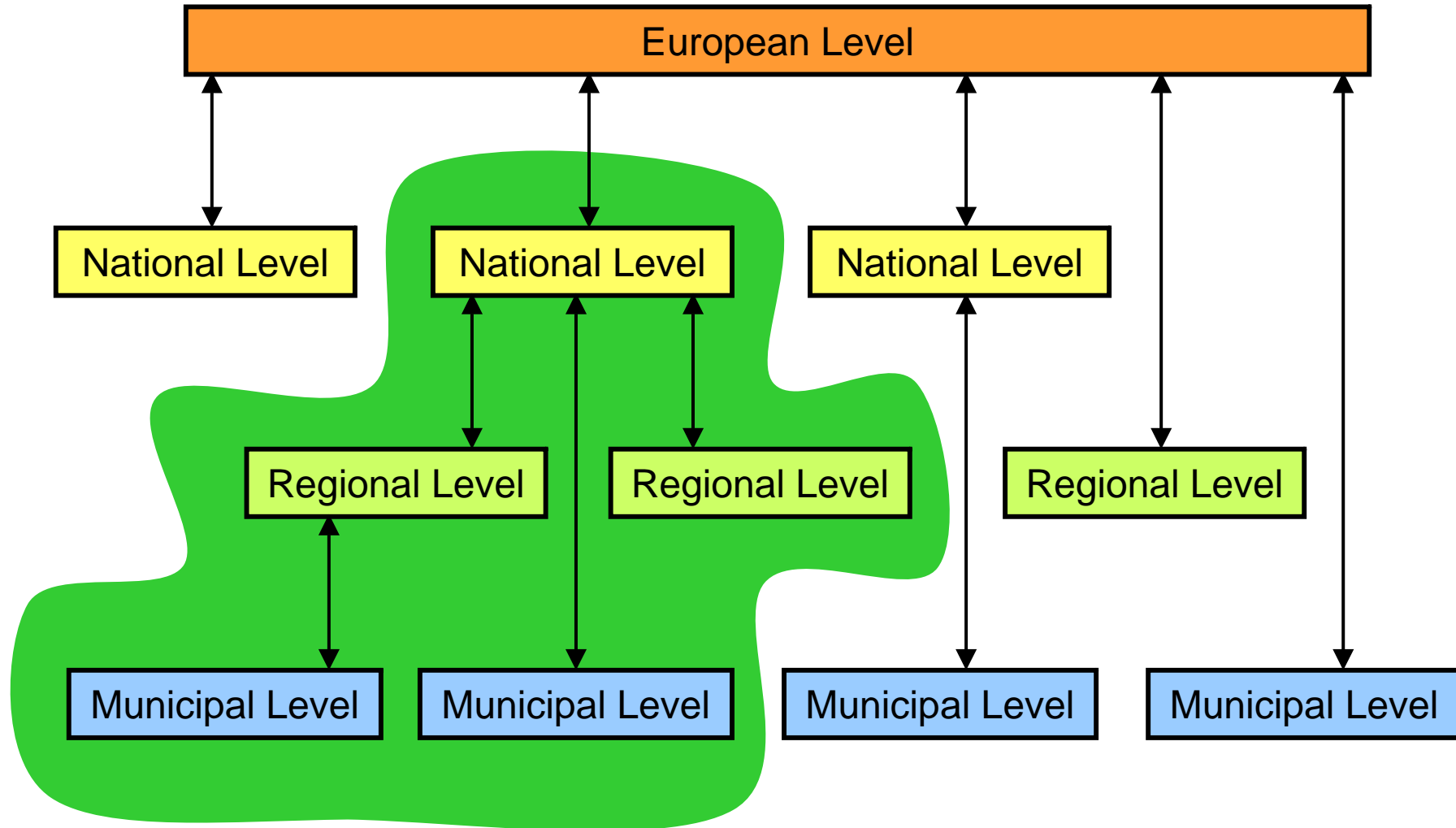
- Maps and geographic information
  - Directly related to INSPIRE
- Services
  - Geographic Services (Directly related to INSPIRE)
  - Other Services (e.g. SOS-Services and not standardized services)
- Documents
  - mostly non-spatial information
- Non-geographic datasets and databases
  - e.g. monitoring 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)



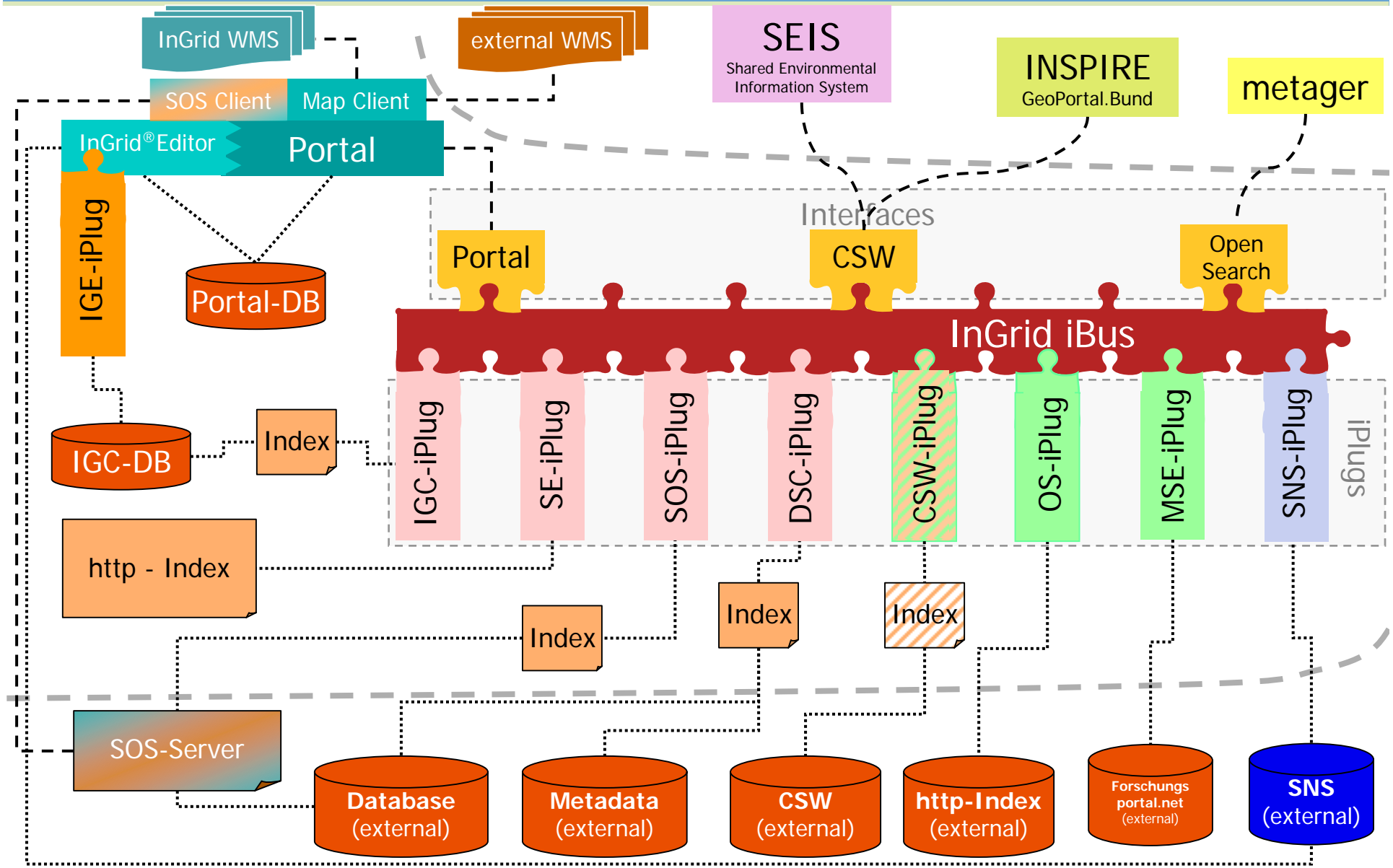




- Sensor Observation Service (SOS)
  - OGC-compliant XML-Format for the exchange of numerical data
    - monitoring and model data
  - Properties of the Service are defined by the OGC
- Planned for PortalU<sup>®</sup>:
  - OGC-compliant interface for access to SOS-services
  - Internal interface for 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](http://www.portalu.de)

[www.kst.portalu.de](http://www.kst.portalu.de)

[kst@portalu.de](mailto:kst@portalu.de)