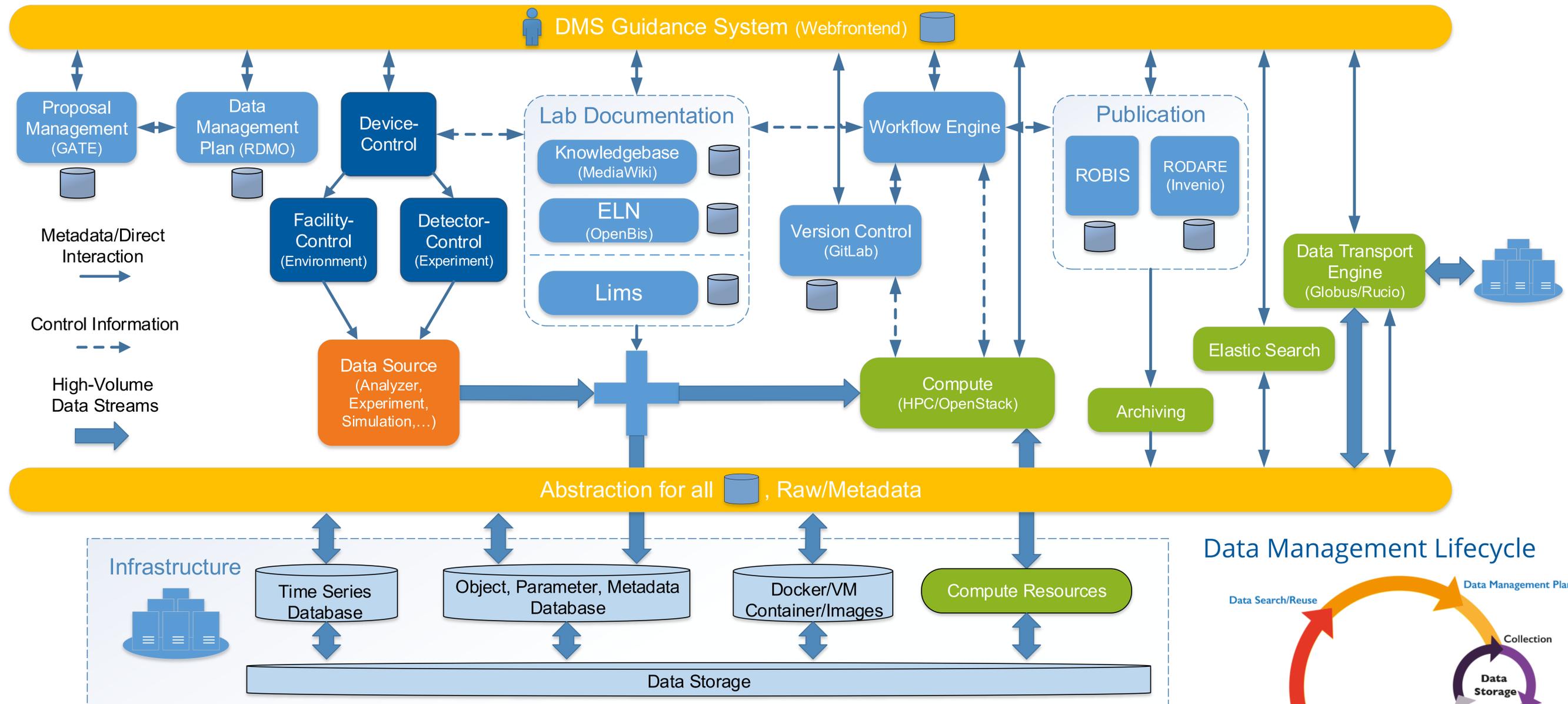
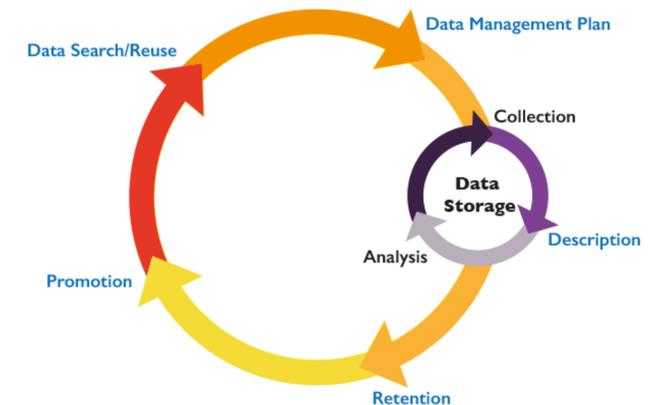


# HZDR Data Management Strategy — Top-Level Architecture

## Architecture



## Data Management Lifecycle



## Components

- **RDM Guidance System:** The overall entry point for every (new) user (GATE and RDMO) to access tools and particular datasets in combination with our Data Abstraction Layer.
- **Data Source:** Every experiment generates data, automatically combined with metadata from corresponding systems.
- **Data Transport:** Globus or Rucio for efficient data transport and replication.

- **Lab Notebook Systems:** Contains all necessary data for documentation of the experiment itself. Two systems are supported:
  - OpenBis for structured Lab-Data and
  - Media Wiki for individual Documentation.
- **Version Control (GitLab):** Code repository for software and all files under version control.

- **Workflow Engine:** The recurrent execution of programs can be standardized and documented using workflows.
- **(Data) Publication:** At the end of the experiment datasets (raw data, results, surrounding ecosystem,...) can be published using Rodare — even software or workflows...