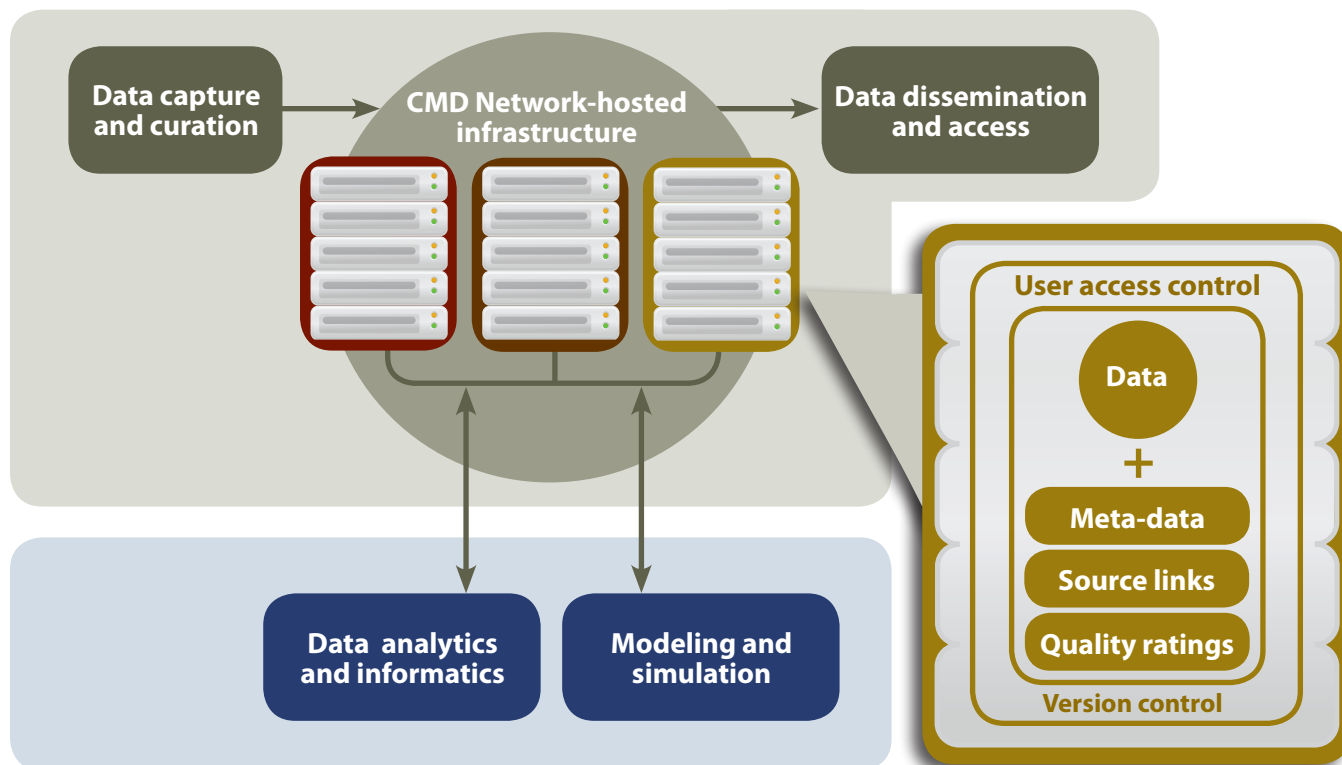


The Computational Materials Data Network: Materials Data Laboratory

The Materials Data Laboratory will provide a sustainable data infrastructure that will enable the management of large, diverse data sets accessible to the community for data analytics and informatics as well as for use in modeling and simulation. It will build on the capability of ASM International, which currently manages multiple data sets utilizing off-the-shelf database technology.



In addition to hosting a common infrastructure for data storage, the Materials Data Laboratory will provide capabilities in data capture and curation as well as data access and dissemination that will facilitate collaboration.

Data Capture and Curation

- Enables users to directly upload data, making it easier for industry, national laboratories, academia, and other organizations to both contribute and manage their data
- Adds meta-data to enable linking of data to relevant pedigree information
- Connects data to related information to facilitate data analysis

Data Dissemination and Access

- Provides access to and awareness of data for study
- Makes computational functionality available to users via a web portal, allowing them to conduct analysis and modeling online
- Enables data sets to be exported to meet the requirements of in-house software, including CAD, CAE, and PLM software

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