

# SHARED BIGDATA-GATEWAY FOR RESEARCH LIBRARIES (SBD-GATEWAY)

## FEDERATED SINGLE SIGN ON

Custom

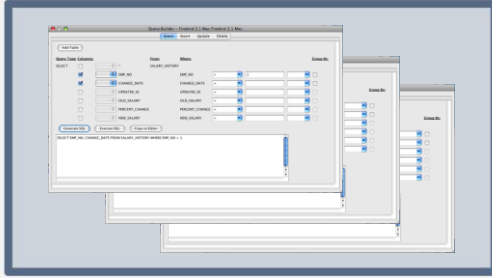
InCommon

Shibboleth

Globus

## AUTHENTICATION

## WEB QUERY INTERFACE



## RESEARCH ASSET COMMONS

Saved and Shared Results, Tools and Datasets

Visualizations

Annotations

Data Derivatives

Metadata

## ACCESS BY PROGRAMMING AND VISUALIZATION TOOLS



## APPLICATION PROGRAMMING INTERFACE (API)

## CLOUD COMPUTE GATEWAY

### Machine Learning

Analytics Tool

Analytics Tool

Analytics Tool

New Analytics Tool

### Text Analytics

Analytics Tool

Analytics Tool

Analytics Tool

New Analytics Tool

### Database Analytics

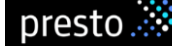
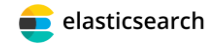
Analytics Tool

Analytics Tool

Analytics Tool

New Analytics Tool

### Data Processing and Querying



Future processes

## AUTHORIZATION

GRANULAR DATASET PERMISSIONS

## CLOUD STORAGE

### Indexed Storage

Relational Databases

Graph Databases

Future Databases

### Raw Format Data Lake Storage

Web of Science

MS Academic Graph

USPTO Data

Future Databases

## LOCAL AND INSTITUTIONAL STORAGE

Future Data Sources

Future Datasets

## CLOUD AND LOCAL COMPUTE RESOURCES



Commercial Cloud Services

