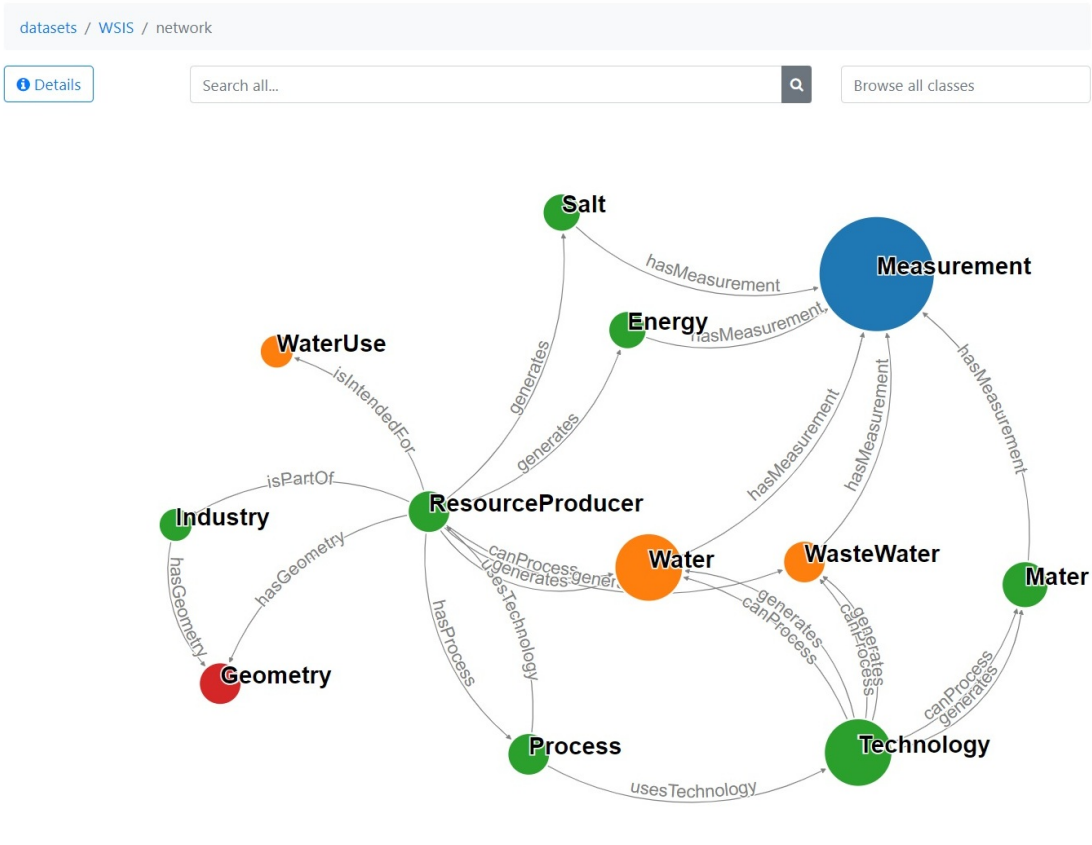
Product factsheet

RIOTER

Software solution



Description

Rioter-eye is a data exploration and visualization tool specifically designed for the WSIS datasets. Powered by Angular, it offers a user-friendly interface and a range of modules to enhance the exploration process.

One crucial module is the Authentication and User Administration, which provides secure user login and logout functionality. Administrators have additional privileges to manage user accounts, while regular users can access and update their profiles.

The Dataset/Endpoint Definition module allows users to define and customize the datasets they wish to explore. They can also select the appropriate SPARQL endpoints for querying the data, tailoring the exploration experience to their specific needs.

The Graph Overview module provides users with a comprehensive visualization of the datasets. This high-level view allows users to quickly understand the structure, relationships,

and overall composition of the data, providing a foundation for deeper exploration. It leverages semantic ontologies to facilitate informed decision-making on waste utilization potential across industries and processes.

The Navigation and Exploration module empowers users to interactively navigate and filter information within the datasets. They can leverage predefined relationships and data properties to drill down into specific aspects of the data, refine queries, and discover valuable insights.

Target audience

Semantic researchers, Ontology researchers, WSIS community, Water community, Circular economy

Actors, their roles and interactions

Rioter-eye is a specialized tool that focuses on the WSIS ontology. The dataset publisher curates and publishes WSIS datasets, while the ontology developer designs the ontology that structures the data. The end-user leverages Rioter-eye's capabilities to explore and visualize data using the specific ontology. By focusing on the WSIS ontology, Rioter-eye enables users to gain deep insights and valuable knowledge within the context of the Water Smart Industrial Symbiosis.

Technical requirements

- Fuseki
- Nginx
- GraphDB
- Triply
- Docker

Software data

- Version: v1.0 (Last update: 2023-06-05)

Technologies applied by the product

- **Backend and Frontend Services**
- **Database Management Systems**
- **Data Visualization and Rendering**
- **Human-Computer Interaction**
- **Ontologies**

Technology Readiness Level

Level 3 (Last update: 2023-06-08)

Related tags

water | Circular Economy | Reuse | network | navigation | exploration | ontology