**GOALS**

- Allow SemantEco users to select geospatial regions and explore data within
- Use RDFS/OWL geospatial reasoning capabilities to find geofeatures that:
  - are within a given polygon
  - overlap with a given polygon
  - are within a certain distance from a polygon

**FEATURES**

- Search by polygon (map based) selection
- Extending search with relationships between water bodies (Ex. Find a water body that is a ‘tributary of’ a selected water body)
- Search by named-feature (js-tree hierarchy based) selection
  - Presents named features
  - Based on selection, js-tree includes a “part” of hierarchy (e.g., measurement-site-01, Lake George, Adirondack Region)
  - Also includes type hierarchies (e.g., nodes in the hierarchy for WaterBody, Park)

**FUTURE WORK**

- Generating RDF geometry data from shape files
- Aligning RDF data sources
- Validating new RDF data as GeoSPARQL

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**GLOSSARY**

RPI - Rensselaer Polytechnic Institute
TWC - Tetherless World Constellation at RPI

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