

Building New Capabilities for Integrating Data on Earth, Space and Environment – Location Index Project



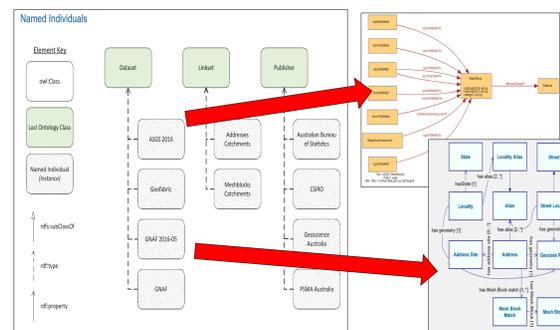
Building GIS without GIS Semantic Integration of Linked Data

Everything happens at a place or location

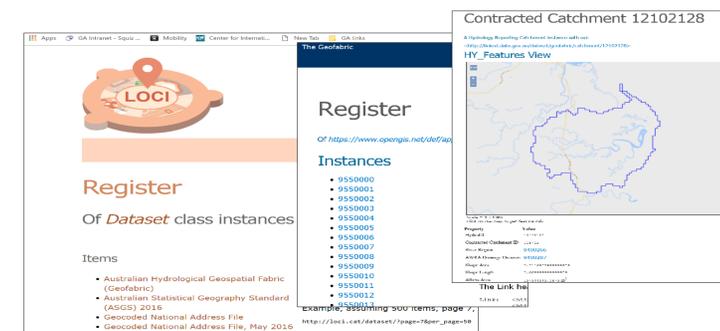
In 2018, the Location Index (LOC-I) project was initiated as part of the Data Integration Partnership for Australia (DIPA) program aiming to build a framework that:

- supports critical government decision making;
- contributes significantly to economic, social and environmental sustainability
- integrates data on people, business, and the environment

Relationships: ontologies & cross-walks



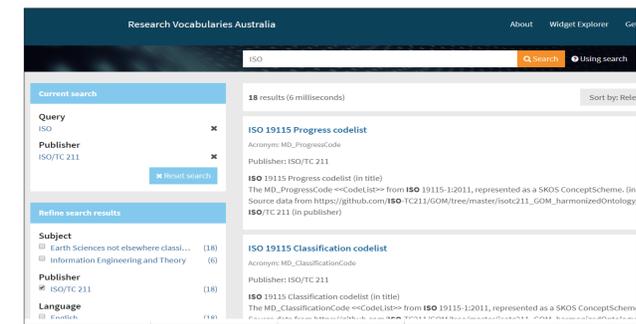
Access points: metadata based registries & landing pages



Pre-calculated indexes

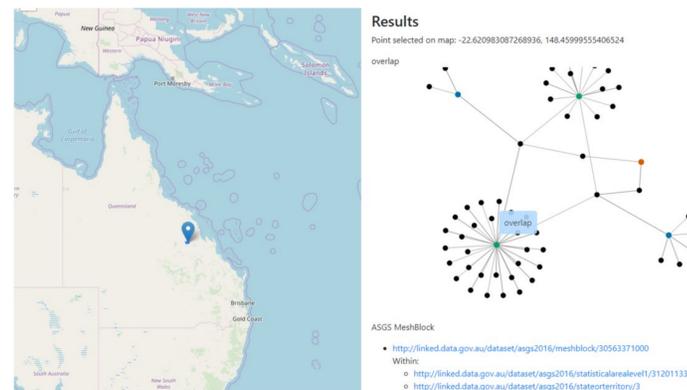
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10805116808	ags#StatisticalAreaLevel1	NSW	108051168
80108109107	ags#StatisticalAreaLevel1	ACT	801081091
21205132729	ags#StatisticalAreaLevel1	VIC	212051327
21203130129	ags#StatisticalAreaLevel1	VIC	212031301
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Integration: common classification & tags

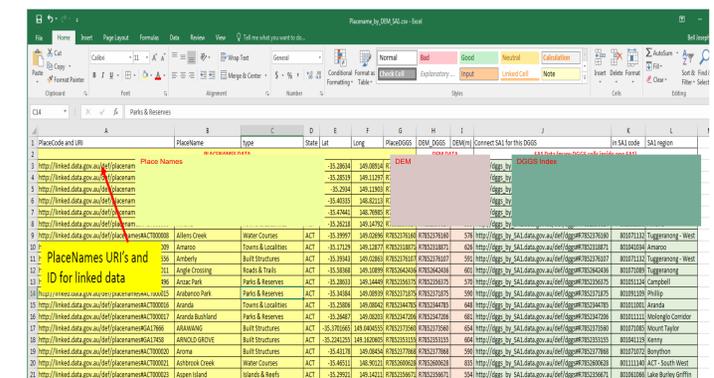


Capability to query across datasets – implementation examples

Linking through machine readable formats



Joining through Spatial Indexing



The Loc-I Objectives:

- stable, persistent and repeatable access to data
- standardised governance and transparency in data management
- increased interoperability
- enhanced information sharing
- reduced complexity and improve efficiency
- governed and managed supply chains

