



Where innovation starts



Problem Domain

- Place search and browsing application
- Over 21 000 places within the Netherlands
- Over 300 000 triples
- Geographical information structure varies from country to country and changes in time
- Flexible data format needed
- Data is very linked within itself as well as to other resources around the web





Technical Solutions

- CherryPy & RDFLib
 - All RDF data in memory
- PyLucene
 - Full text index for the label search
- Jquery, jQuery UI, Google Maps API
 - Dynamic frontend functionality
- Geonames API for additional data
- Internal REST API outputting JSON for AJAX calls





Semantic Data

- A flexible format needed for changing data
- Ontology
 - 15 properties
 - Hundreds of classes
 - All place types are sub classes of Feature
 - Instances create a hierarchical structure
- Data combined with external services
 - Using coordinates





Interesting Facts

- Application name was automatically generated
- The search implementation took the most effort

