

Georef - Linked Data for Spatial Data and Non-Spatial Data by Place Names

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- Linking spatial and non-spatial information
- Geocoding by place names
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Place names for bridging information & data assets

- A lot of information carry place names **but**
- Most information do not carry direct location data
- This applies to data assets of any format
 - scientific research reports, different types of documents; textual, images, photos, movies, music etc
- To link or combine spatial data with these other data types we employ [place names binded to coordinates](#)
- But place names are tricky too
 - Many places have the same names (Paris, Texas), conjugations...
- To be usable they need unique identifiers i.e. httpURIs

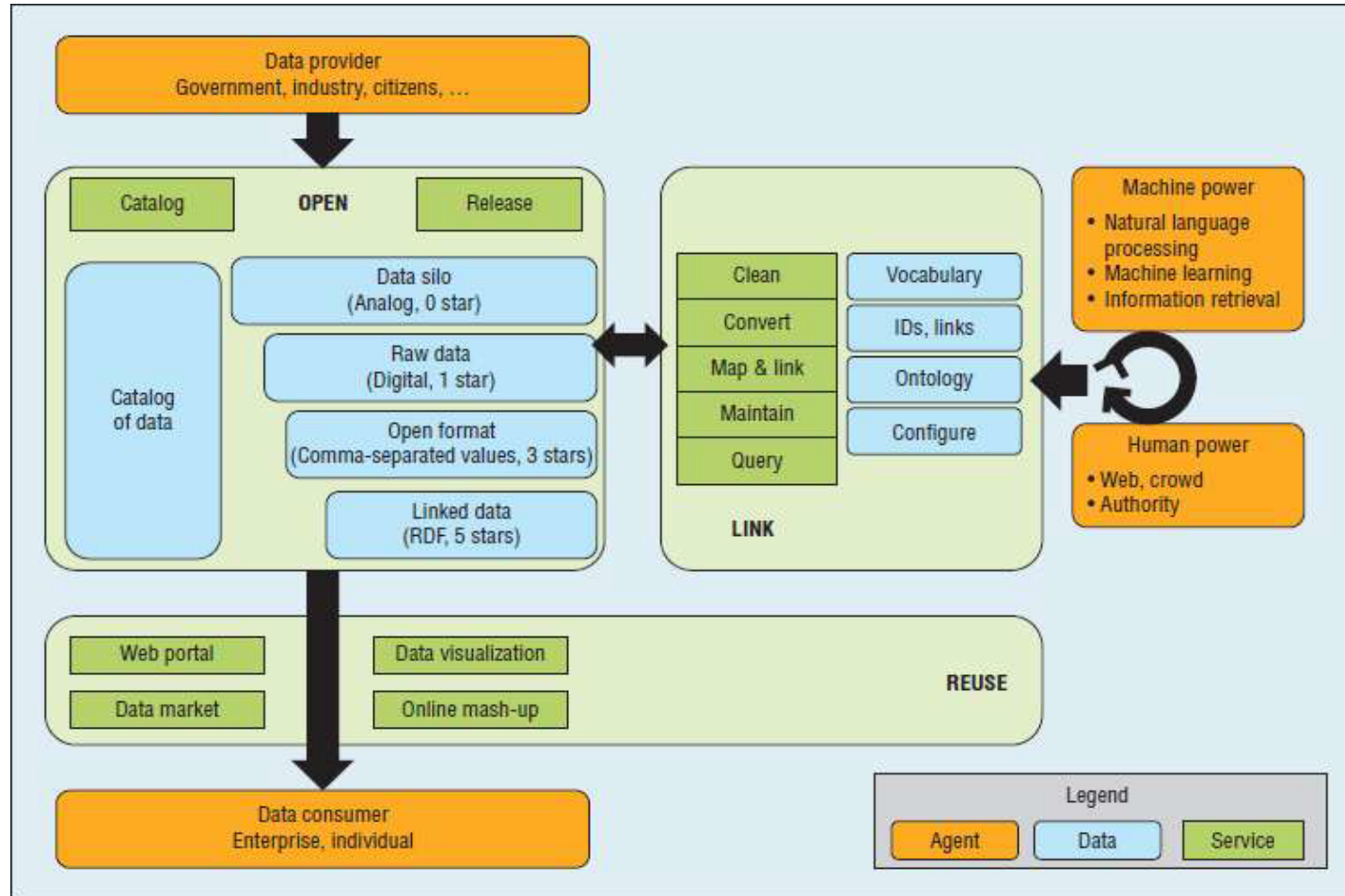
Georef in short = geocoding by place names

Georef is targeting to enable and improve data combinations of spatial data and any other data, scoping to

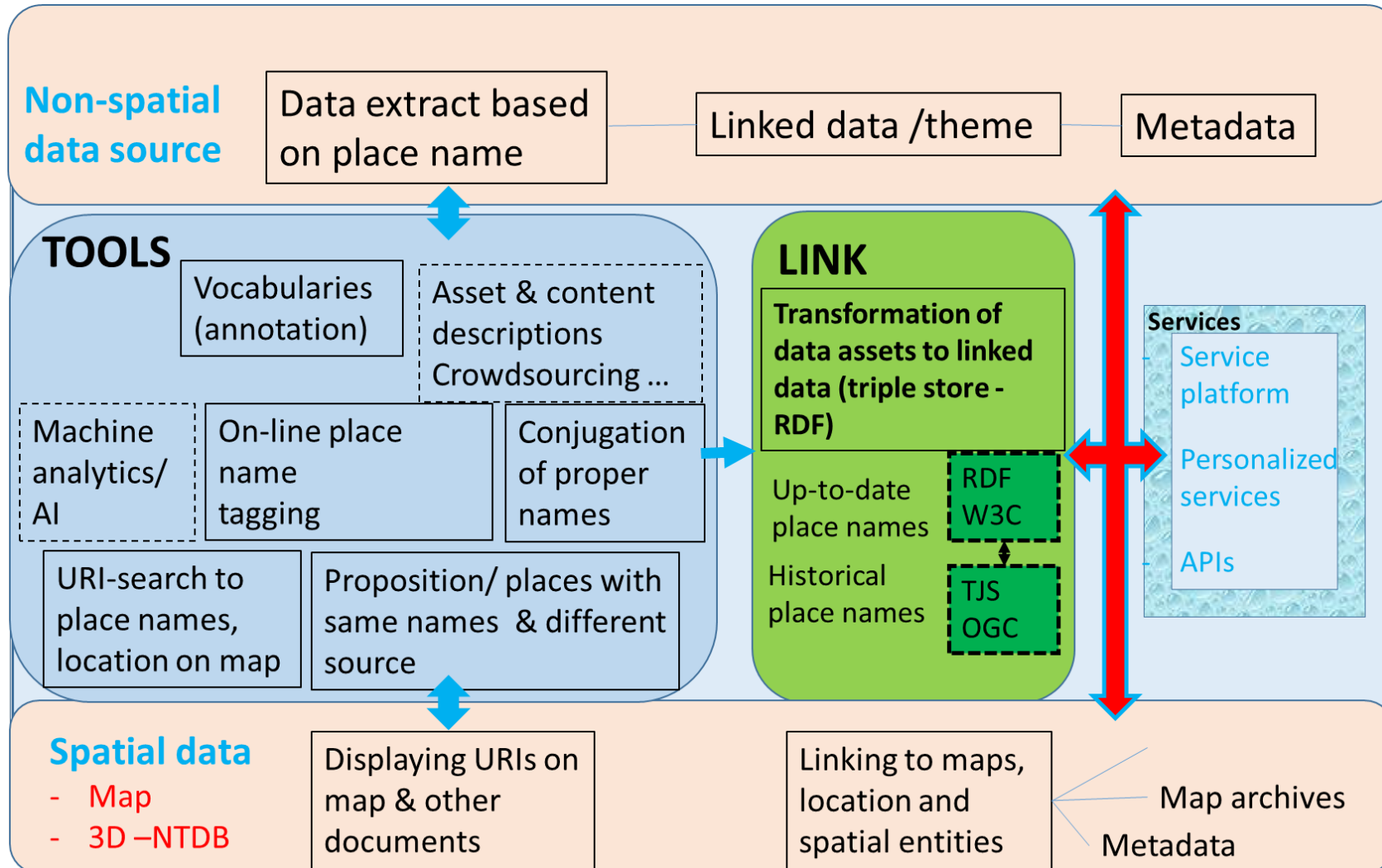
- Any web contents
- Public services, re-use of scientific and research data across disciplines
- Re-use in media (local-national; the Finnish national broadcasting company YLE)
- Personalized services (tourism, education, specialized training ...)
- Crowdsourcing: E.g. inclusion of community members and updating contents related to places and areas to provide and create novel viewpoints and information in city development (citizen science)

Message on implementation: Local is global!

Ecosystem of linked (open) data



Georef-linked data service and development platform

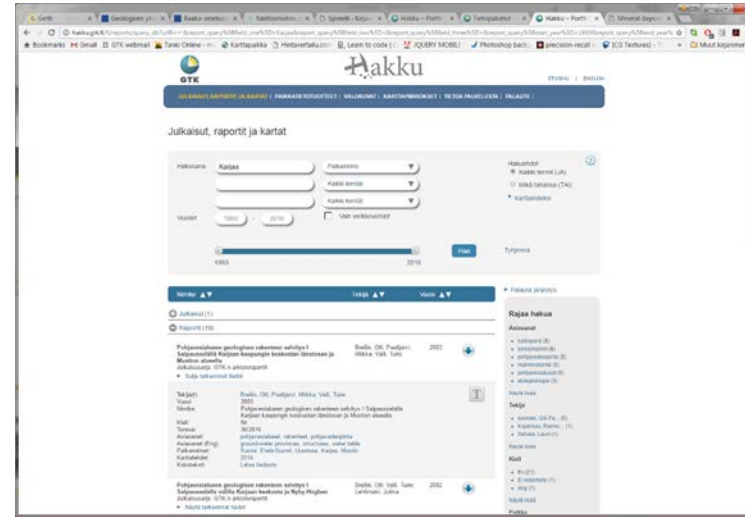


Release the "dead knowledge capital" of information assets

Georef presents a way to realize capabilities of spatial data

- To add value when combining data
- To make visible phenomena that are hidden
- To visualize and verify processes of long term
- To show the interaction or correlation of things or events
- To combine spatial data with all other data is to boost and realize the mighty potential of spatial data
- And to release the hidden "dead capital" of information resources
- This is why we need to employ place names with httpURIs

Current prototype – data combination of scientific data



Place names bridging information & data assets

- Scientific reports include place names, which are tagged with URI's
- that are bounded by coordinates,
 - then combined to location

Example: Need to merge individual research reports and survey maps (Geological survey) and further across disciplines



J.J. Sederholm, Pohja, Hermansö 1906

Prototype - cases

- Learning and education: Spatial data for AI-supported learning methods, professional training)
- Operational and research data: Inter- and cross-discipline data combinations through spatial data (Geological Survey, all of the web)
- Crowdsourcing
 - To enrich data capture in environmental or cultural heritage contexts
 - To enrich address assets for improving rescue, logistics (address as a place)
 - Citizen science
- Media: news on map - online, locating recorded contents of same place

Thank you for interest!

More information

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