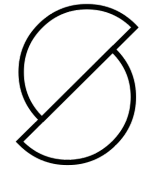


Open Core Data Status Update for CSDCO Nov 2016 D.C. Meeting



A review of Open Core Data opencoredata.org

Douglas Fils ([@fils](https://twitter.com/fils))

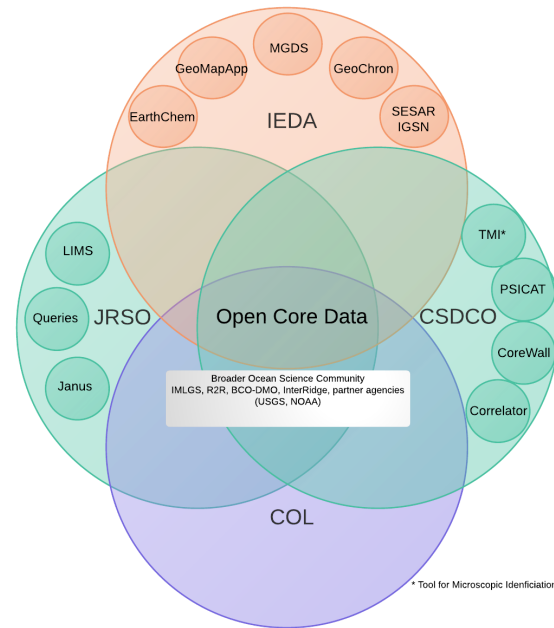
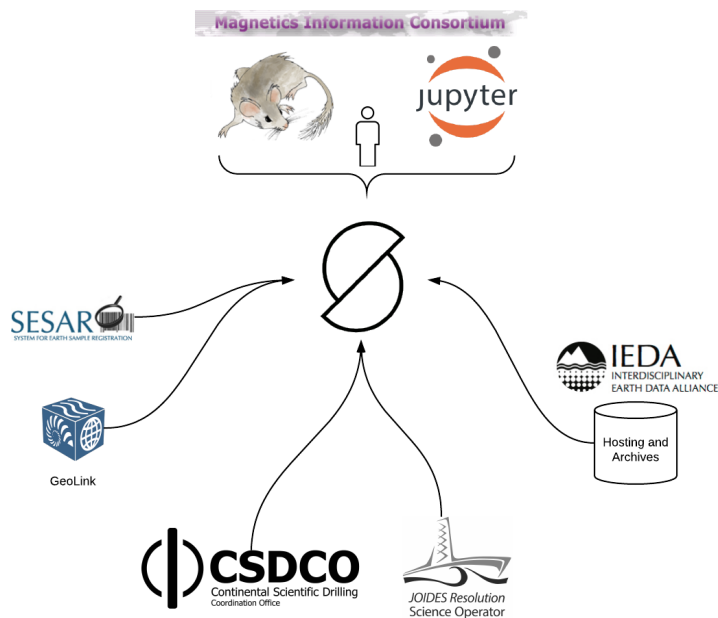
COL, CSDCO, IEDA, JRSO-IODP, NSF EAR-1550787, 1550887,
1550917, 1338322, 1462297, OCE-0950477

Outline

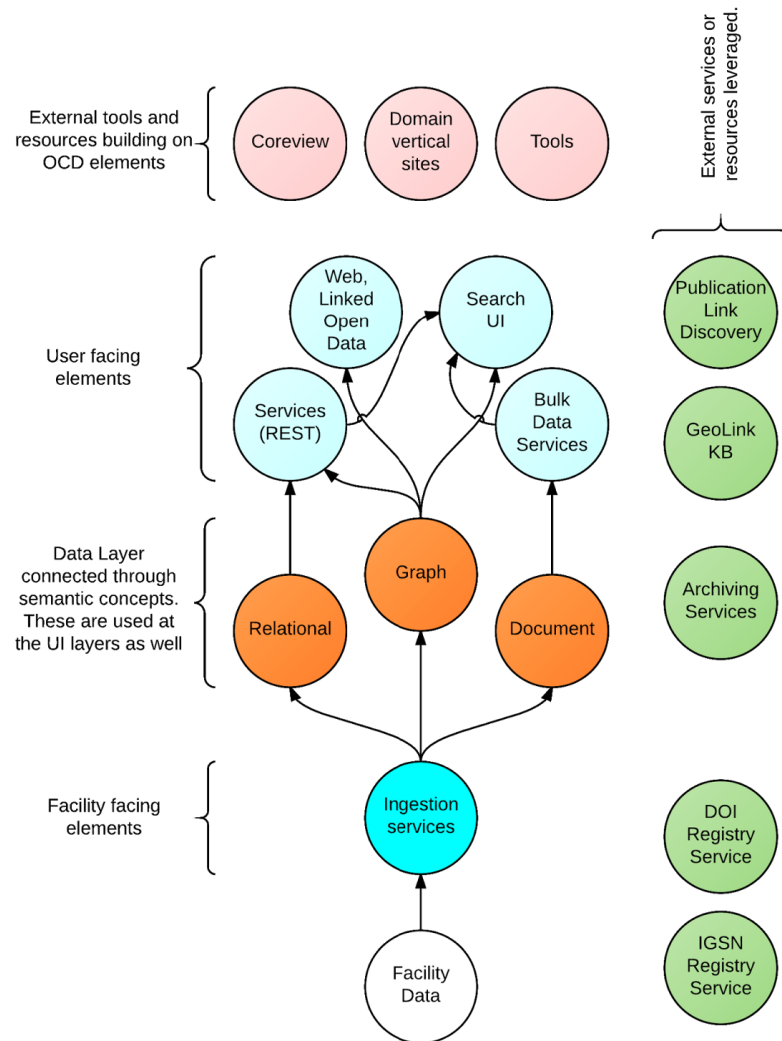
- Overview of Open Core
- Data Flow
- Data Access and Use
 - Human, machine and by other data service providers/partners

Over View

Open Core Data hosts meta-data and optionally raw data for CSDCO and JRSO. This data is semantically enhanced and connected using community vocabularies and when required local vocabularies.

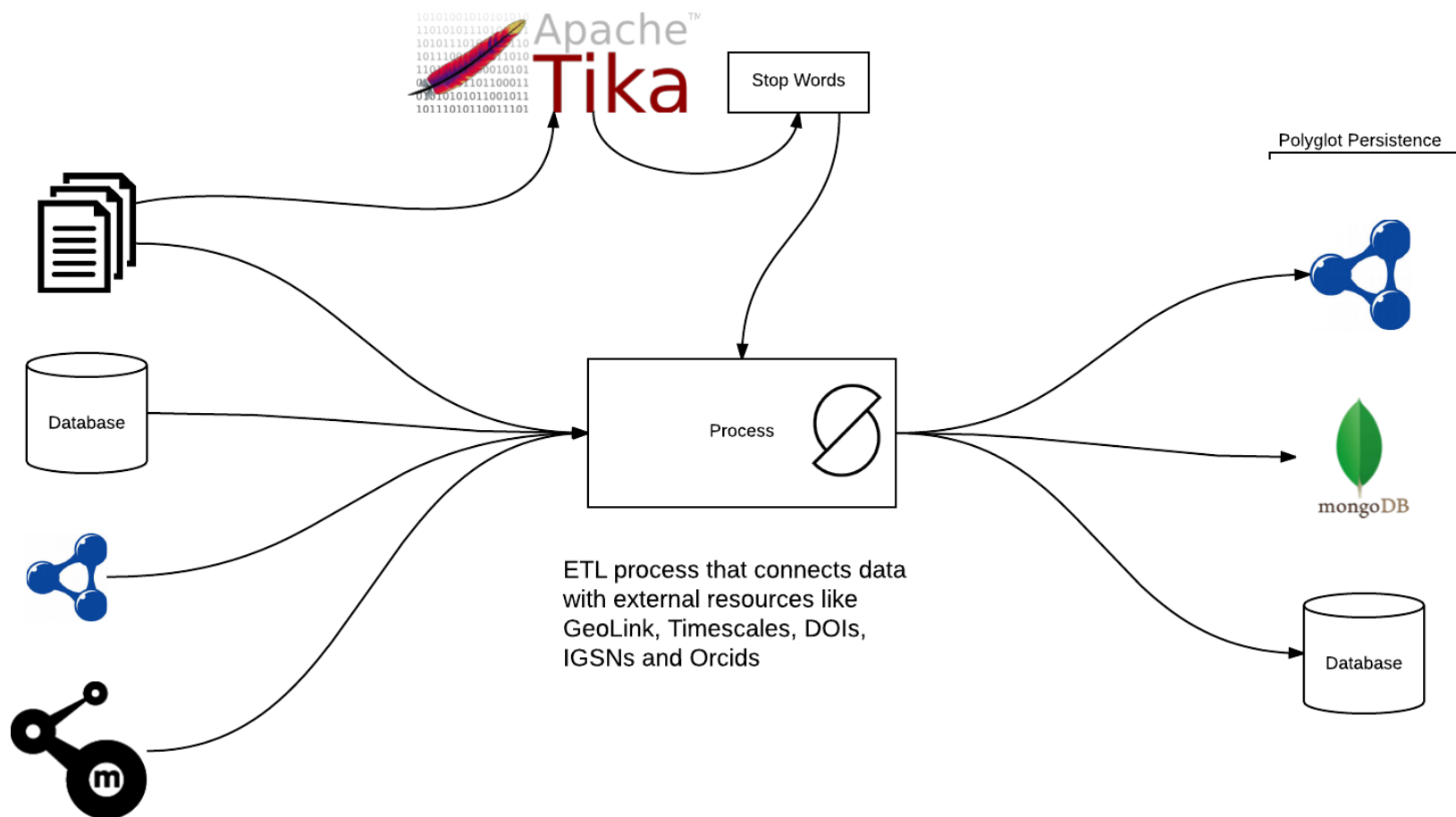


Data flow



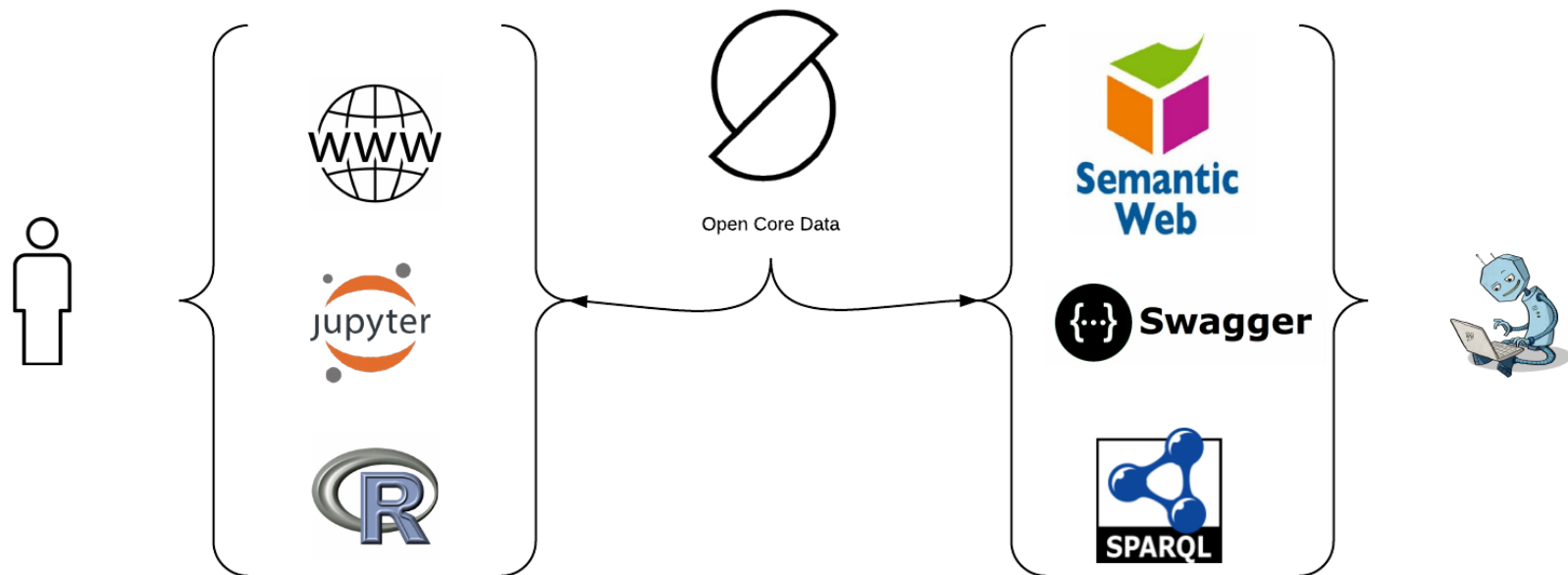
Getting data in

Not shown is the Bleve index (a simple KV store)



Getting data out (human and machine)

Working with groups like Flyover Country, Gplates (future), Neotoma, Magic and others for using downstream data



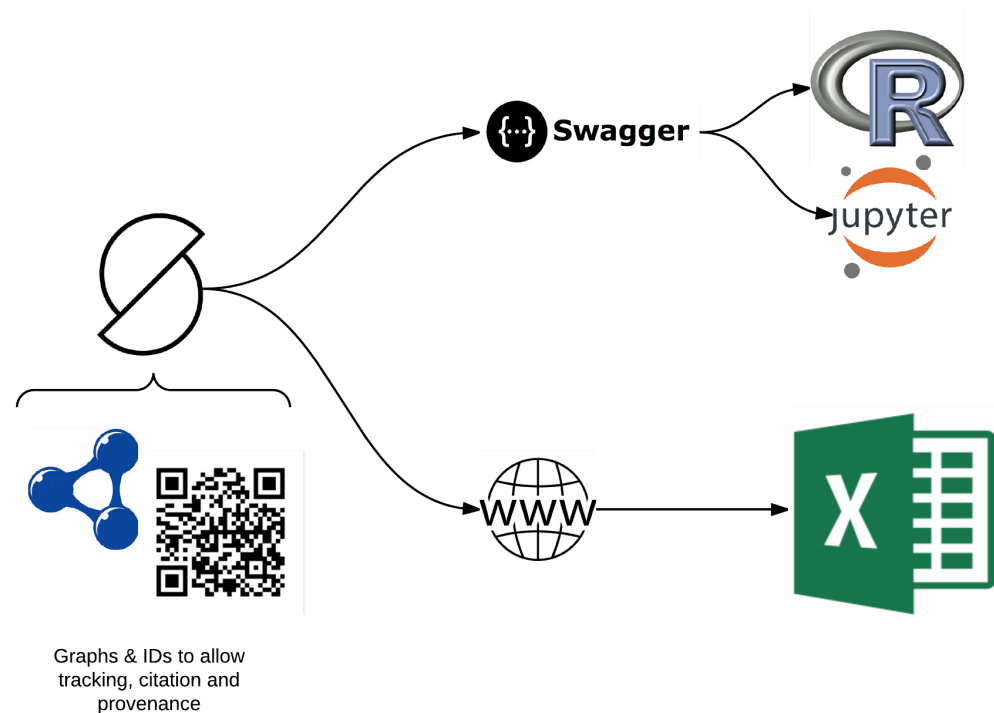
*Note: Bulk RDF downloads enable OCD to act as a pass through semantic enhancement (possibly via GeoLink)

Expanding on *human* access methods

Connection to existing work-flows (notebooks etc)

- Use of web based UIs and APIs to allow many approaches to the data.
- Provide citation and DOI/IGSN information

Notebook work



Expanding on *machine* access methods

Example Landing Page

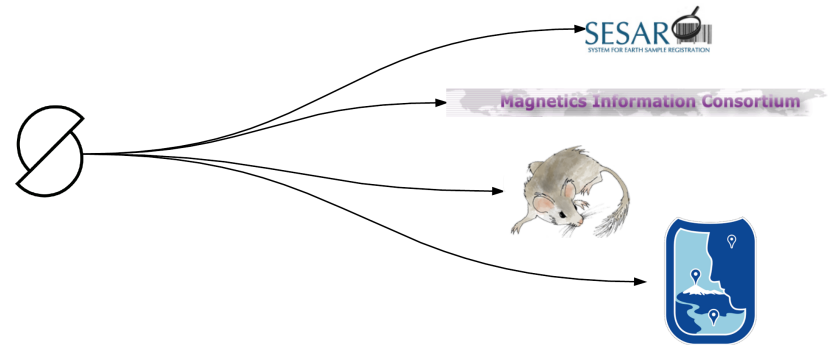
All pages have embedded [Schema.org/Dataset](#) and [CSVW](#) (CSV for the Web) meta-data.

Access to datasets can be obtained both via SPARQL or Linked Open Data methods or via API calls.

Access to the CSDCO datasets is being developed under the [ocdFX](#) project. Data is being indexed and meta-data and search index available in OCD. Links to files at CSDCO or IEDA are supported.

Data distribution partners

As noted earlier in this document a key goal of Open Core Data is the exposure of OCD data holdings to 3rd parties.



This will be driven by a few key elements

- Open data + PIDs + Provenance (W3C Prov is a key element here)
- Methods to identify data updates
- Two way connections and citation of data between partners

Early start will likely be 1 way flow out of OCD of data with provenance. From there we will build out the approach.

Thanks!

Douglas Fils

November, 2016 [Douglas Fils](#)