

Report on EarthCube CDF Registry Working Group

Work to Date



created with [remark](#)

Group Members

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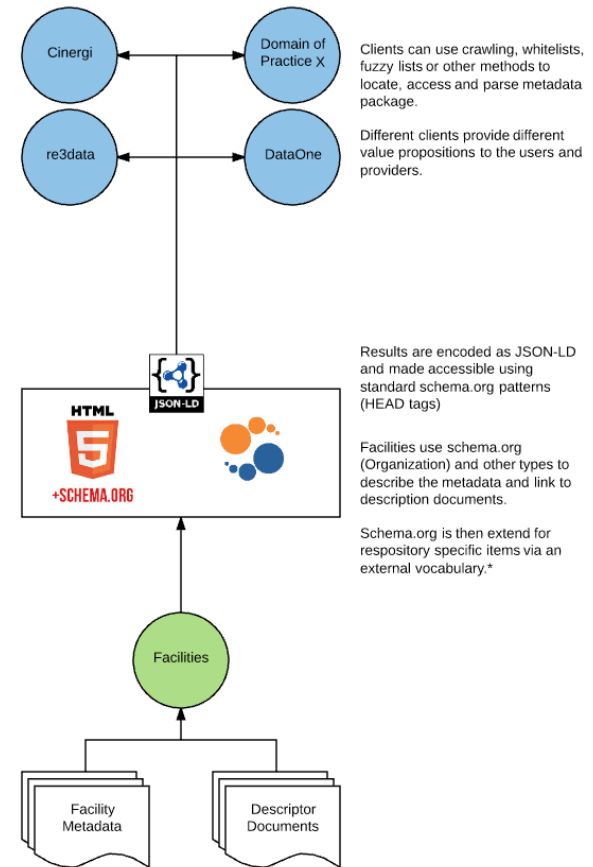
Acknowledgement: This work is support by NSF EarthCube and the ESSO office which provides the infrastructure to support group interaction.

Agenda

1. Introduction
2. Vocabulary
3. External connections and broader impacts
4. FAIR
5. Prototype supporting infrastructure
6. Future

Intro and Functional goals

1. Goal or working group
2. Functional goals of the group
3. Structure of process (terms -> voc -
> deployed arch -> search)



Vocabulary elements

Connections (re3data)

Connections (COPDESS)

Connections (Other: Google, Bing, Yandex, etc.)

It's an experiment, that still has benefits right now by increasing SEO

FAIR

Current Providers

1. Open Core Data
2. BCO-DMO
3. R2R
4. UNAVCO
5. IRIS
6. Open Topology

Current Providers

1. Open Core Data
2. BCO-DMO
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6. Open Topology
7. IEDA (future)
8. WHOI (future)

Effort required by Providers

At the current scope effort is relatively small. However, it will grow as we expend exposed content. Such expansion though can be controlled by the repository.

```
<html lang="en">
<head>
  ...
  <script type="application/ld+json">
    {
      "@context": "http://schema.org/",
      "@type": "Organization",
      "name": "Open Core Data",
      "contactPoint": {
        "@type": "ContactPoint",
        ...
      }
    }
  </script>

```

However, the JSON-LD has to be generated. We have been working from templates, but that is unlikely to scale.

Some thought needs to go into how to assist groups in generating this content if it is seen as a way forward.

Harvesting

1. Build and install [aha](#):

```
josh@brick ~/repos $ git clone https://github.com/theZiz/aha; cd aha  
josh@brick ~/repos/aha $ make && cp aha /usr/local/bin
```

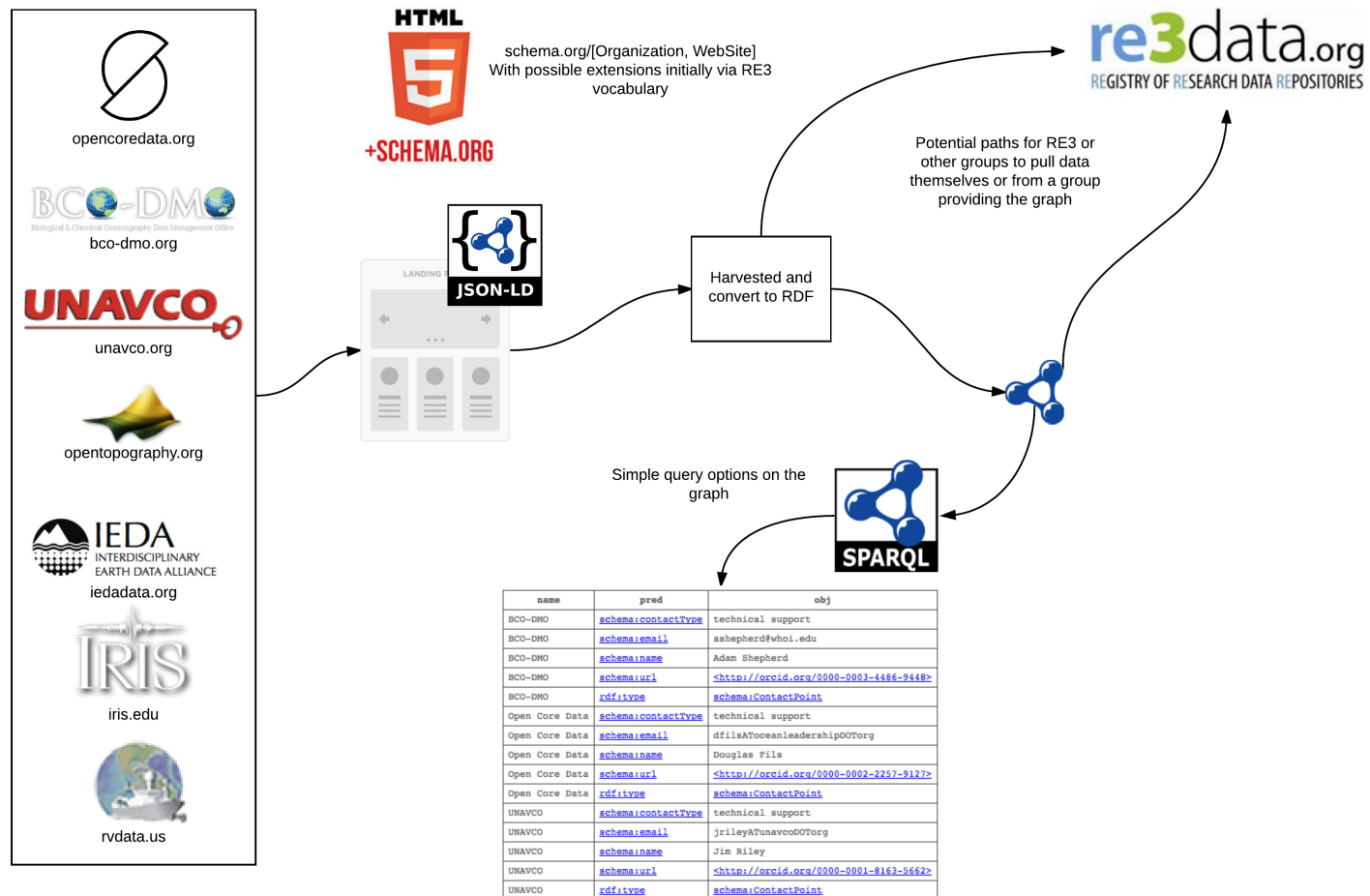
2. Capture output with aha (for dark background highlight.js styles such as solarized_dark, use aha -b):

```
josh@brick ~/repos/aha $ git log -2 --color | aha -b -n | pbcopy
```

To capture directly to clipboard, use:

- pbcopy for OS X
- xsel --clipboard for Linux
- getclip for Cygwin

Harvesting



Search and visualize

Future

1. Extend to DataCatalog -> DataSet -> Measurements -> Variables
2. Employ elements of Hydra?
3. How to best address blank nodes in the JSON-LD to RDF process?
4. Vocabulary gap issues identified?

Thanks

1. Contact Us
2. Repo URL
3. Test site URL