



URI Design

and other work on RPI's LOGD project

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Overview

- **URI Design**
 - **“Instance Hub” URIs**
 - **RDF Converter URIs**
- **International Dataset Catalog**

Instance Hub URIs

- Canonical URIs for common things
- Requires understanding the data, ownership
- Designed for easily (syntactic) re-hosting URIs

Instance Hub URIs

```
<http://logd.tw.rpi.edu/id/us/fed/agency/National_Aeronautics_and_Space_Administration>  
  a :US_agency ;  
  dcterms:title "National Aeronautics and Space Administration" ;  
  el:abbreviation "NASA" ;  
  foaf:homepage <http://www.nasa.gov> ;  
  el:dbpedia_uri dbpedia:NASA ;
```

RDF Converter URIs

- Our RDF converter turns tabular data into RDF
- Designed for aggregating external data that might change over time
- Want queries to keep working as new data is converted, new enhancements are performed

RDF Converter URIs

- Three “levels” of automatically produced URIs:
 - Source (“nitrd.gov”)
 - Dataset (“R&D IT Budget”)
 - Version (“2011-Jan-27”)

RDF Converter URIs

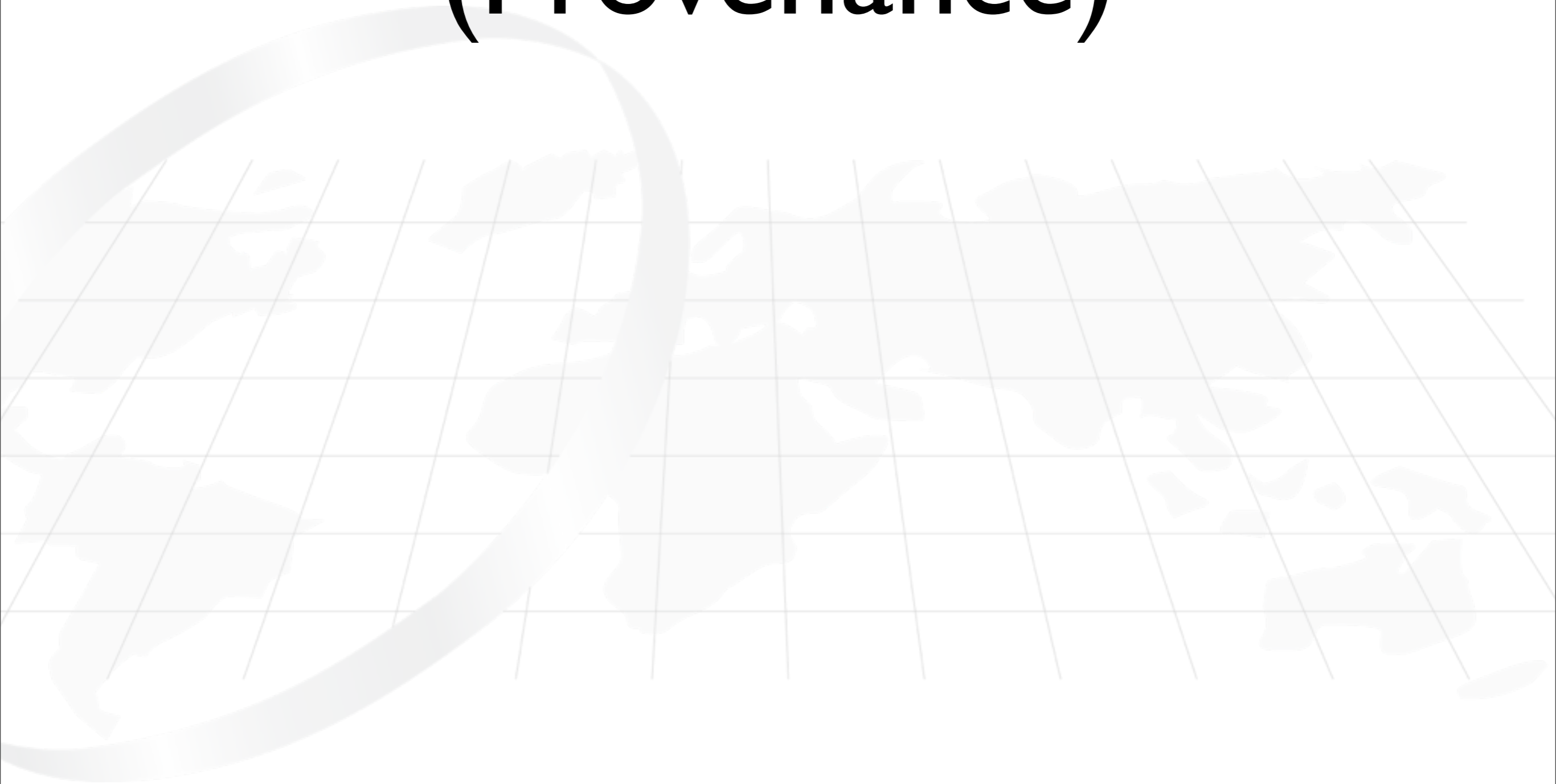
```
:thing_6  
  raw:fiscal_year "FY 2010" ;  
  raw:agency "NIH 2" ;  
  raw:total_1 "1,200.9" ;  
  ...
```

```
:agencyBudgetDistribution_6  
  a :AgencyBudgetDistribution ;  
  muo:measuredIn dbpedia:United_States_dollar ;  
  e1:fiscal_year us_fy:FY_2010 ;  
  e1:agency agency:NIH ;  
  e1:total "1200900000"^^xsd:decimal ;  
  ...
```

International Catalog

- Catalogs and Datasets
 - 325k datasets
 - ~60 catalogs
- Bottom-up vocabulary similar to DCAT
- http://logd.tw.rpi.edu/demo/international_dataset_catalog_search

(Provenance)



More Info...

<http://logd.tw.rpi.edu/>