

ANTWERP INSPIRE HACKATHON 2018

TEAM 1: Open Land Use and its metadata in RDF

PROJECT IDEA AND RESULTS

Public endpoint

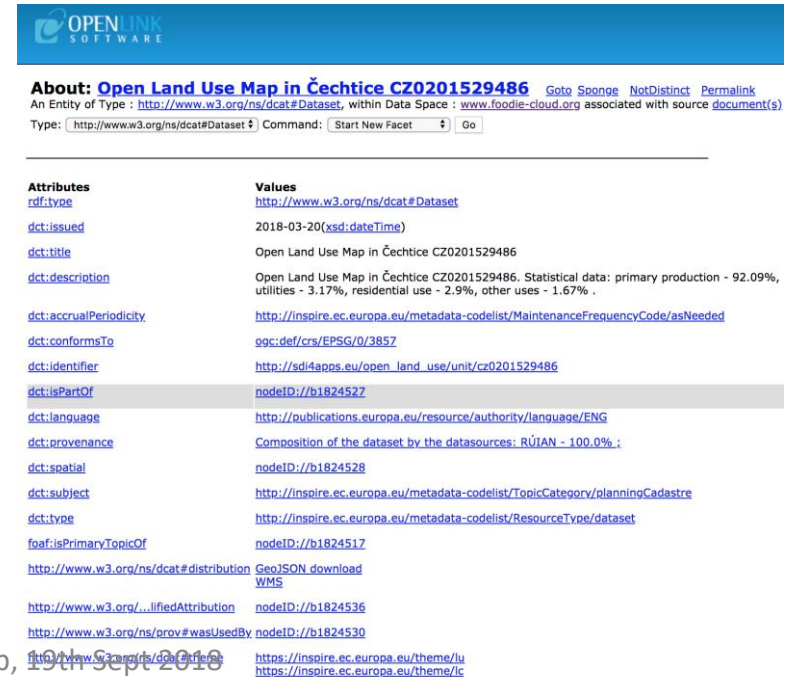
<https://www.foodie-cloud.org/sparql>

Faceted browser

<http://www.foodie-cloud.org/fct/>

OLU metadata as RDF (Team x) – Tasks

- Export metadata records in RDF from Micka
 - Dump generation with all metadata records
- Load RDF dump in triplestore (virtuoso)
 - OLU metadata is imported in its own graph
- Integration/linking with OLU
 - OLU has been transformed to Linked Data
- Implementation of queries



OPEN LINK SOFTWARE

About: Open Land Use Map in Čechtice CZ0201529486 [Goto Spine](#) [NotDistinct](#) [Permalink](#)
 An Entity of Type : <http://www.w3.org/ns/dcat#Dataset>, within Data Space : www.foodie-cloud.org associated with source [document\(s\)](#)
 Type: <http://www.w3.org/ns/dcat#Dataset> Command: [Start New Facet](#) Go

Attributes	Values
rdf:type	http://www.w3.org/ns/dcat#Dataset
dct:issued	2018-03-20(xsd:dateTime)
dct:title	Open Land Use Map in Čechtice CZ0201529486
dct:description	Open Land Use Map in Čechtice CZ0201529486. Statistical data: primary production - 92.09%, utilities - 3.17%, residential use - 2.9%, other uses - 1.67% .
dct:accrualPeriodicity	http://inspire.ec.europa.eu/metadata-codelist/MaintenanceFrequencyCode/asNeeded
dct:conformsTo	ogc:def/crs/EPSSG/0/3857
dct:identifier	http://sdi4apps.eu/open_land_use/unit/cz0201529486
dct:isPartOf	nodeID://b1824527
dct:language	http://publications.europa.eu/resource/authority/language/ENG
dct:provenance	Composition of the dataset by the datasources: RÚIAN - 100.0% :
dct:spatial	nodeID://b1824528
dct:subject	http://inspire.ec.europa.eu/metadata-codelist/TopicCategory/planningCadastrre
dct:type	http://inspire.ec.europa.eu/metadata-codelist/ResourceType/dataset
foaf:isPrimaryTopicOf	nodeID://b1824517
http://www.w3.org/ns/dcat#distribution	GeoJSON download WMS
http://www.w3.org/...lifiedAttribution	nodeID://b1824536
http://www.w3.org/ns/prov#wasUsedBy	nodeID://b1824530
http://www.w3.org/ns/dcat#dcat:hasPart	http://inspire.ec.europa.eu/theme/lu https://inspire.ec.europa.eu/theme/lc

PROJECT IDEA AND RESULTS

Sample query:

Get first 10 OLU data entries along with its metadata for municipalCode in CZ and for forest areas only.

Try it yourself!

<https://tinyurl.com/ycbbn98y>

#INSPIREhackathon

```
PREFIX geo: <http://www.opengis.net/ont/geosparql#>
PREFIX geof: <http://www.opengis.net/def/function/geosparql/>
PREFIX virtrdf: <http://www.openlinksw.com/schemas/virtrdf#>
PREFIX poi: <http://www.openvoc.eu/poi#>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX olu:instance: <http://w3id.org/foodie/olu/LandUse/22165431>
PREFIX olu: <http://w3id.org/foodie/olu#>
PREFIX dct: <http://purl.org/dc/terms/>
```

```
#SELECT ?olu ?countryCode ?municipalCode ?hilucsLandUse ?specificLandUse ?attributeSource
SELECT *
FROM <http://w3id.org/foodie/olu#>
WHERE {
  ?olu a olu:LandUse .
  ?olu olu:countryCode ?countryCode .
  ?olu olu:municipalCode ?municipalCode .
  ?olu olu:hilucsLandUse ?hilucsLandUse .
  ?olu olu:specificLandUse ?specificLandUse .
  ?olu olu:attributeSource ?attributeSource .
  FILTER(regex(STR(?municipalCode),STR(?muniCode),"i")) .
  FILTER(?hilucsLandUse = 120 ) .
  {
    SELECT ?title ?description ?provenance SUBSTR(STR(?v),39) as ?muniCode
    FROM <http://micka.lesprojekt.cz/catalog/dataset#>
    WHERE
    {
      ?olumeta a <http://www.w3.org/ns/dcat#Dataset> .
      ?olumeta dct:title ?title .
      ?olumeta dct:description ?description .
      ?olumeta dct:provenance ?provenance .
      ?olumeta dct:identifier ?v .
      FILTER(CONTAINS(STR(?v),"cz0201529486")) .
    }
  }
}
LIMIT 10
```