



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 732064.

# Integration of Open Land Use, Smart Point of Interest and Open Transport Map using RDF

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"Linked Open Data in Agriculture" MACS-G20 Workshop in Berlin (Germany), 27 – 28 September 2017

### Presentation content



- Motivations
- Projects introduction
- Data stores introduction
- 4. Data stores integration
- 5. Business model
- 6. Conclusions

### **Motivations**





Sir, we have data with whole country coverage for you at very special price.

Are your data available also for rural areas?





Well,...

### **Motivations**

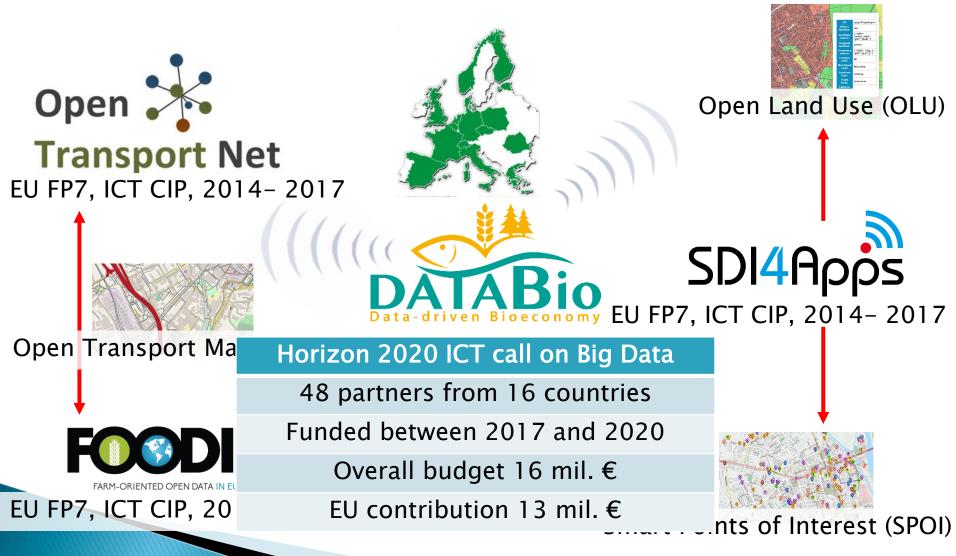


And if you find rural data...

...up to 80% of all costs for establishing a Geographic Information System (GIS) relates to data acquisition...

...so why not to re-use outputs from past European projects?

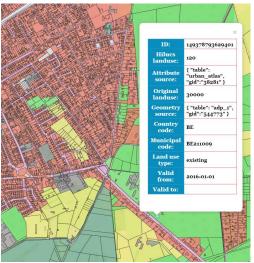
# Projects Introduction



# Open Land Use

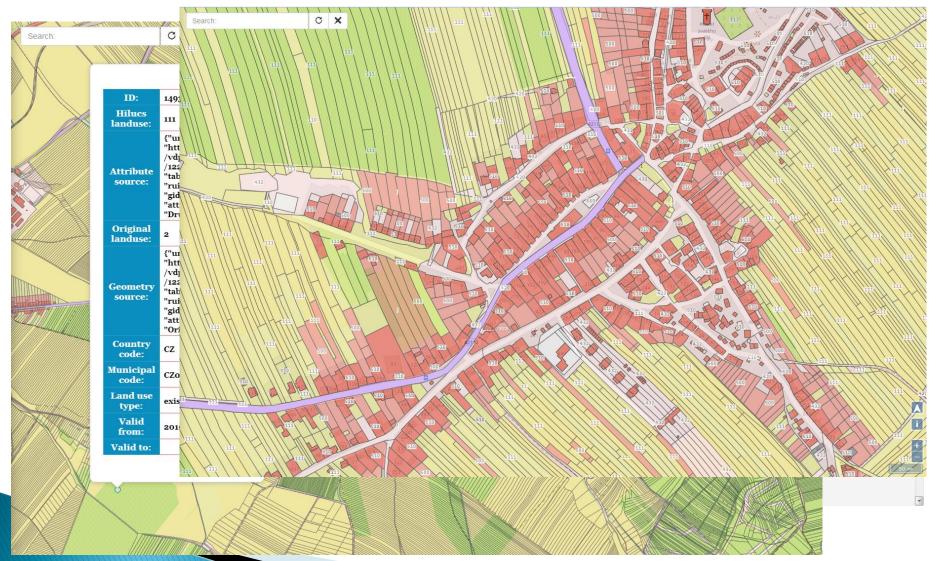


- Seamless coverage of the most of Europe (around 45 millions objects)
- Re-use of INSPIRE (2007/2/EC) principles
  - Data model based on INSPIRE Existing Land Use object data model (Annex III Land Use Spatial data theme)
  - Reliable local sources of data are used which have certain quality, certain update period, persistent identifier where possible
  - Detailed object-based metadata



# Open Land Use





# Open Land Use



Usage of Open Land-Use Map provides you with the certain advantages:



### OPEN, HARMONIZED AND SEAMLESS DATABASE

The data is open and is available for your download. It is harmonized towards Hierarchical INSPIRE Land Use Classification System (HILUCS). The data has pan-European coverage.



### OPEN AND FLEXIBLE DATA MODEL

The data model is so far quite simple. It includes original land-use class (all data use different classification systems for land-use/land-cover) of a feature together with its land-use class harmonized towards HILUCS. Also it includes the reference to original dataset from where the feature is coming together with the feature unique id in that datasets o without difficulties the data model can be extended in the future to satisfy



### COMBINATION OF GLOBAL AND LOCAL DATA

The resulting dataset is composed of global pan-European data combined where available with regional often highly precise data. In this way we provide the most precise land-use map without any gaps.

http://sdi4apps.eu/open\_land\_use/

SHP



### Links

### SDI4Apps

#### SDI4Apps PROJECT

S4A is an EU-funded project coordinated by the University of West Bohemia (Pilsen, CZ). It seeks to build a cloud-based framework with open APIs for data integration focusing on the development of 6 pilot applications.



#### SPARQL ENDPOINT

Access some data through SPARQL endpoint. Example: "SELECT ?o ?p ?s FROM <a href="http://www.sdi4apps.eu">http://sdi4apps.eu</a> <a href="http://sdi4apps.eu/open\_land\_use/rdf#municipalEurostatCode">http://sdi4apps.eu/open\_land\_use/rdf#municipalEurostatCode</a> <a href="http://sdi4apps.eu/open\_land\_use/rdf#municipalEurostatCode">



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# Open Land Use SPARQL endpoint/RDF



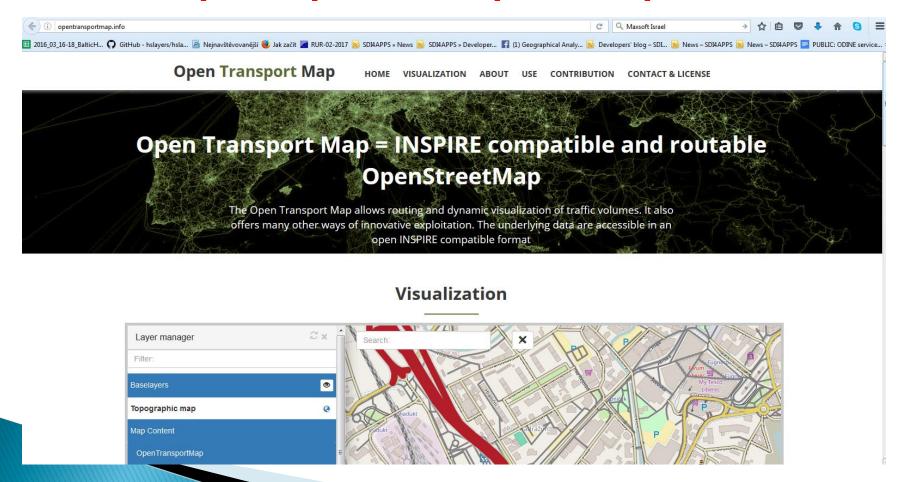
http://sdi4apps.eu/open land use/download/

Query: SELECT ?o ?p ?s FROM <a href="http://www.sdi4apps.eu/olu.rdf">http://www.sdi4apps.eu/olu.rdf</a> WHERE { ?o

0	p	S
http://sdi4apps.eu/open_land_use /rdf/10264769	http://sdi4apps.eu/open land use/rdf#attributeSource	"{'table': 'urban_atlas', 'gid': '55666'}"
http://sdi4apps.eu/open_land_use /rdf/10264769	http://inspire.ec.europa.eu/schemas/elu/4.0 /beginLifeSpanVersion	"2017-03-03"
http://sdi4apps.eu/open_land_use /rdf/10264769	http://inspire.ec.europa.eu/schemas/elu/4.0 /endLifeSpanVersion	
http://sdi4apps.eu/open_land_use /rdf/10264769	http://inspire.ec.europa.eu/schemas/elu/4.0 /hilucsLandUse	http://inspire.ec.europa.eu/codelist/HILUCSValue/5 ResidentialUse
http://sdi4apps.eu/open_land_use /rdf/10264769	http://inspire.ec.europa.eu/schemas/elu/4.0 /specificLandUse	"11100"
http://sdi4apps.eu/open_land_use /rdf/10264769	http://sdi4apps.eu/open land use /rdf#municipalEurostatCode	"BE244021"
http://sdi4apps.eu/open_land_use /rdf/10264769	http://sdi4apps.eu/open_land_use/rdf#parcelId	"4483996"
http://sdi4apps.eu/open_land_use /rdf/10264769	http://www.opengis.net/ont/geosparql#asWKT	MULTIPOLYGON(((3.7496535314268 51.040044529312,3.7495866390094 51.040027908153,3.7495283946869 51.040117029175,3.7495948098024 51.040133868781,3.7496535314268 51.040044529312)))*^^_http://www.openlinksw.com/schemas/witrdf#Geometry>
http://sdi4apps.eu/open_land_use /rdf/10264770	http://sdi4apps.eu/open land use/rdf#attributeSource	"{'table': 'urban_atlas', 'gid': '55725'}"
http://sdi4apps.eu/open land use /rdf/10264770	http://inspire.ec.europa.eu/schemas/elu/4.0 /beginLifeSpanVersion	"2017-03-03"



### http://opentransportmap.info/





- Seamless coverage of Europe (around 45 millions objects)
- Re-use of INSPIRE (2007/2/EC) principles
  - Data model based on INSPIRE Road Transport Networks object data model (Annex I Transport Networks Spatial data theme)
  - OpenStreetMap used as a primary source of information, machinery monitoring
  - Routable





http://opentransportmap.info/

### How can I use it?





#### AS A MAP

Embed OTM to your own website –Use OTM as a map layer in your own map(WMS) –



### AS A SERVICE

 USE OTM as data in your own GIS (WFS)
 SPARQL endpoint of OTM demo in a RDF (sample queries)

**SHP** 

Denmark

Danmark ▼ Hovedstaden ▼ Bornholm ▼

GML RDF

Download



```
<rdf:Description
rdf:about="http://opentransportmap.info/rdf/Vol
ume16618393">
<otm:roadlink
rdf:resource="http://opentransportmap.info/rdf/
11836027"/>
<otm:trafficvolume>5</otm:trafficvolume>
<otm:column>333</otm:column>
<otm:fro
mtime>2016-04-04 00:00:00</otm:fromtime>
<otm:totime>2016-04-04 01:00:00</otm:totime>
</rdf:Description>
```

### **Smart Points of Interest**



- Seamless and open Points of Interest database
- More than 27 million objects
- Europe, Africa and South East Asia



# **Smart Points of Interest**



### http://sdi4apps.eu/spoi

Smart POI data set

HOME VISUALIZATION ABOUT METHODOLOGY LINKS CONTACT

### Over 27,000,000 Points of Interest in the data set

Open and seamless SPOI data set, which is based on Linked data principles, contains over 27 million Points of Interest important for tourism from around the world.

#### What is SPOI data set?

The Smart Points of Interest data set is the seamless and open resource of POIs that is available for other users to download, search or reuse in applications and services.

Its principal target is to provide information as Linked data together with other data set containing road network.

The added value of the Smart approach in comparison to other similar solutions consists in implementation of linked data, using of standardized and respected datatype properties and development of the completely harmonized data set with uniform data model and common classification

#### Why use SPOI data set?



**OPEN AND SEAMLESS** DATABASE

The SDI4Apps team developed a seamless open database of POIs, which will be distributed as 5-star Linked Open Data to be accessible for all users.



OPEN AND FLEXIBLE DATA MODEL

The essential core of the model was extended by several attributes which are integral components of some original data and could be helpful for tourist purposes.



COMBINATION OF GLOBAL AND LOCAL DATA

The SPOI data set is created as a combination of global data (selected points from OpenStreetMap) and local data provided by the SDI4Apps partners or data available on the

### **Smart Points of Interest**



#### Why use SPOI data set?



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### OWL ontology

SPARQL endpoint

#### Links



#### DOWNLOAD

TPOI presentation [en, PDF, 0.8MB]

PC data model - schema [en, PDF,

SPOI data nodel - text [en, PDF, 1,7MB]

SPOI Ontology [en, OWL, 134kB]

SPOI data harmonization scheme [en, PDF, 20kB]

SPOI list of changes [en, MD/TXT]

Metadata DOAP [RDF/XML], VoID
[RDF/Turtle]

### SDI4Apps

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SPARQL ENDPOINT

The SPOI data set is published via

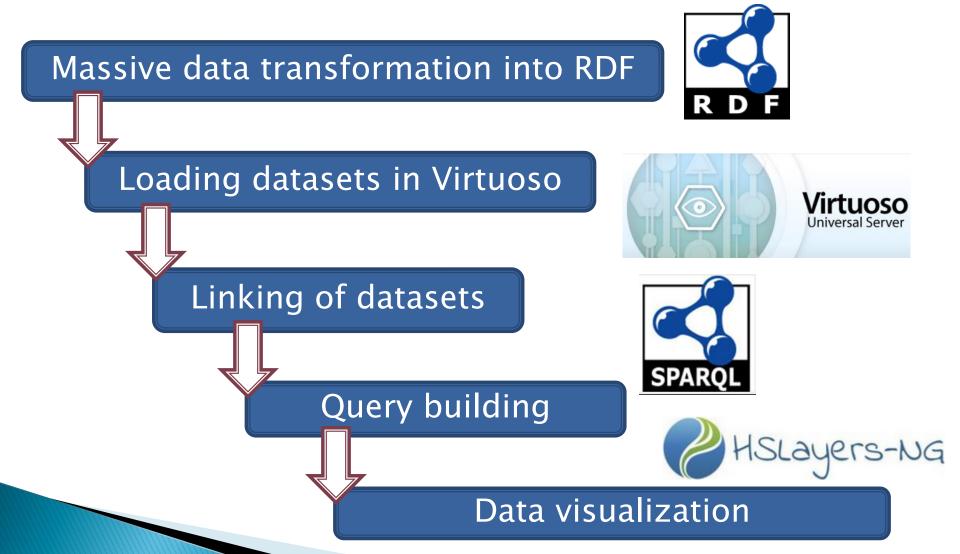
SPAROL endpoint which enables

comfortable, efficient and

standardized querying of data.

### OLU/OTM/SPOI RDF Integration





### OLU/OTM/SPOI RDF Integration



### Used software:

- D2RQ for transforming Relational Databases as Virtual RDF Graphs
- RDF for the representation of data
- Ontologies providing the underlying vocabulary and relations
- Virtuoso for storing the semantic datasets
- Sparql for querying semantic data
- Silk for discovery of links
- Hslayers NG for visualisation of data
- Metaphactory for visualisation of data

# Linked OLU/OTM/SPOI



Dataset Name	Graph in FOODIE endpoint	Source	Triples
OLU**	http://w3id.org/foodie/olu#	Transformed from PostgreSQL	127,925,971
SPOI	http://www.sdi4apps.eu/poi.rdf	Source provided by WRLS, modified and fixed before loading	381,393,555
NUTS	http://nuts.geovocab.org/	Open Source	316,238
OTM***	http://w3id.org/foodie/otm#	Transformed from PostgreSQL	154,340,611

Dataset Name	Graph in FOODIE endpoint	Source	Triples
Hilucs classification	http://w3id.org/foodie/hilucs#	Transformed from PostgreSQL	397
Urban Atlas*	http://w3id.org/foodie/atlas#	Transformed from PostgreSQL	19,606,025
Corine*	http://w3id.org/foodie/corine#	Transformed from PostgreSQL	16,777,533
Eurovoc	http://foodie-cloud.org/eurovoc	Open Source	425,667
Emergel	http://foodie-cloud.org/emergel	CTIC	256,239

# OLU/OTM/SPOI interfaces DATE OLU/OTM/SPOI interfaces



Sparql endpoint: <a href="https://www.foodie-cloud.org/sparql">https://www.foodie-cloud.org/sparql</a>

Virtuoso SPARQL Query Editor

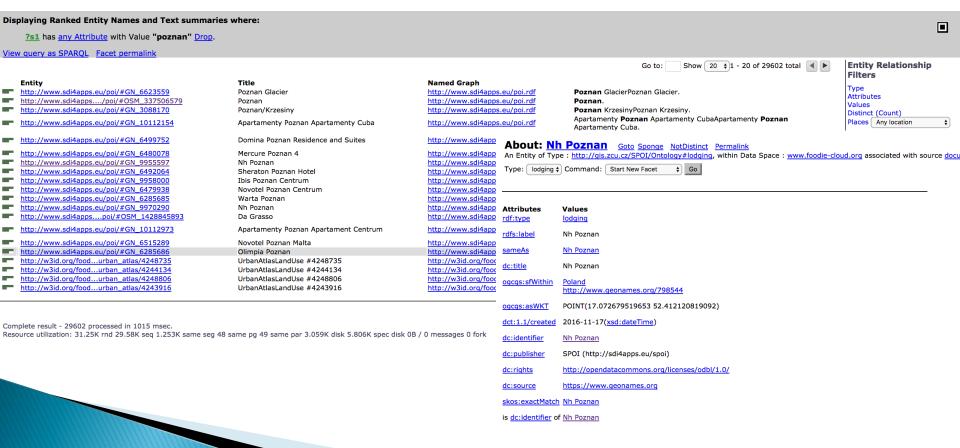
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	Query Text										
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# OLU/OTM/SPOI interfaces DATA



Faceted search browser: <a href="http://www.foodie-">http://www.foodie-</a>

cloud.org/fct/

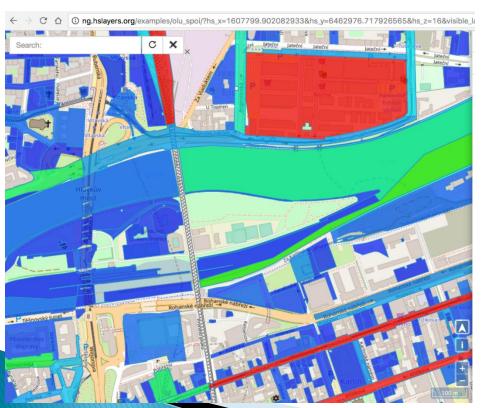


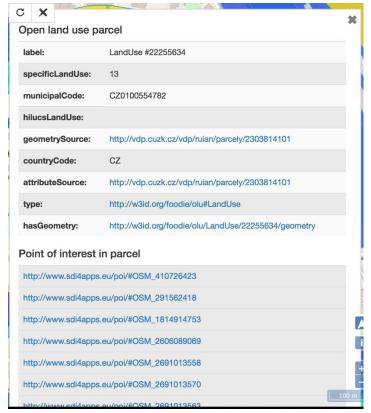
## Map visualization



### Map visualisation:

 $\frac{http://ng.hslayers.org/examples/olu_spoi/?hs_panel=info&hs_x=160779}{9.902082933&hs_y=6462976.717926565&hs_z=16&visible_layers=Base\%}\\20layer;Land%20use%20parcels$ 



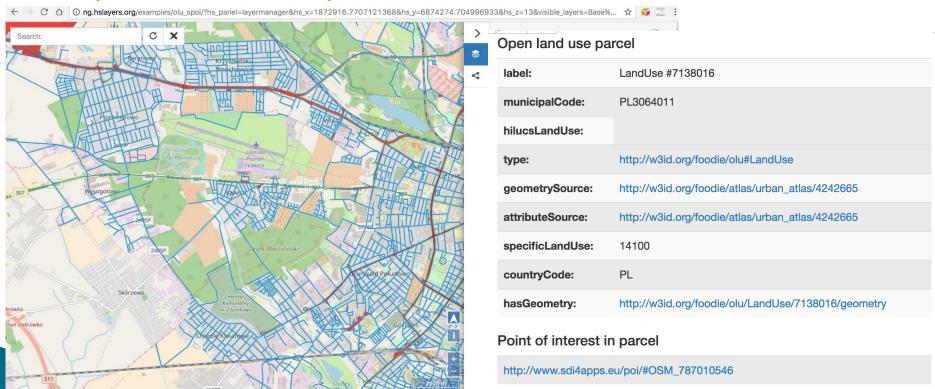


# Map visualization



### Map visualisation:

 $\frac{http://ng.hslayers.org/examples/olu\_spoi/?hs\_panel=info\&hs\_x=160779}{9.902082933\&hs\_y=6462976.717926565\&hs\_z=16\&visible\_layers=Base\%}\\ 20layer; Land% 20use% 20parcels$ 



### **Business** model



- Data already once co-financed from European budget
- Data available free of charge
- Further analyses, data processing, live data etc. is a subject of payment

### Conclusions



DataBio adds value through application logic on top of presented data.



This document is part of a project that has recognized in ding from the European Union's Horizon 2020 programme under grant agreement No 732064. It is the property of the DataBio consortium and shall not be distribution produced without the formal approval of the DataBio Management Committee. See www.databio.eu.



# Thank you for your interest in available data sources and DataBio development!

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