

OPEN DATA HACKATHON

15. – 17. 9. 2014, Jelgava, Latvia

The **OPEN DATA HACKATHON** was organized as a part of **18th International Conference on Information Systems for Agriculture and Forestry** together with the European projects **SDI4Apps¹**, **FOODIE²**, **Smart Open Data³**, **Apps4Europe⁴** and **Open Transport Net⁵** from 15th till 17th September at the Latvia University of Agriculture, 2 Liela Street, LV-3001 Jelgava, Latvia.

The purpose of the OPEN DATA HACKATHON on Open and Linked Open Data for Agriculture, Forestry, Environment, Transport and Rural Development was:

- To identify available open and linked open data sources in agriculture, forestry, environment and transport.
- To exchange experience between teams and projects developing platforms for open and linked open data.
- To establish links between open and linked open data producers, SMEs and free-lance developers.
- To support development of new apps based on open data in agriculture, forestry, environment and transport and their commercial exploitation.



Fig. 1 Mr. Karel Charvat (CCSS) welcomes participants of OPEN DATA HACKATHON in Jelgava.

¹ SDI4Apps - Uptake of Open Geographic Information Through Innovative Services Based on Linked Data", European Union's Competitiveness and Innovation Framework Programme, grant agreement no. 621129, <http://www.sdi4apps.eu/>

² Farm-Oriented Open Data in Europe, <http://www.foodie-project.eu/>

³ Smart Open Data, <http://www.smartopendata.eu/>

⁴ Apps4Europe – turning data into business, <http://www.apps4europe.eu/>

⁵ Open Transport Net - Spatially Referenced Data Hubs for Innovation in the Transport SectorData", European Union's Competitiveness and Innovation Framework Programme, grant agreement no. 620533, <http://www.opentnet.eu/>

The OPEN DATA HACKATHON was organized mainly for:

- Data holders, companies developing open platforms and interested in making their solutions publicly available. This includes interoperability testing of platforms and attracting potential external developers or investors.
- SMEs and freelance developers interested in developing new apps based on open and linked open data.
- Potential investors looking for new interesting products.

The OPEN DATA HACKATHON was free of charge for students and freelancer.

PROGRAM OUTLINE

15th September 2014

09:00 – 09:15 **Invitation and short introduction to the OPEN DATA HACKATHON**

09:15 – 10:00 **Introduction of sponsors, technical supporters and available data sources**

10:00 – 17:30 **OPEN DATA HACKATHON**

17:30 **End of the first day**

16th September 2014

09:00 – 09:30 **Short overview from the first day**

09:30 – 17:00 **OPEN DATA HACKATHON**

17: 00 **End of the second day**

17th September 2014

09:00 – 12:00 **Presentation of the OPEN DATA HACKATHON's results**



Fig. 2 Participants of Open Data Hackathon working on their applications.

The Open Data Hackathon was open for any ideas dealing with open data. During the two days of the hackathon various ideas were discussed in informal way. The hackathon participants also discussed the future cooperation and common activities in using open data.

The applications which had been created during the hackathon are listed below.

THE LIST OF COMPETING APPLICATIONS

1	Day time variation of traffic volume http://gis.zcu.cz/projekty/OTN/TrafficVolumesExample.html <i>Karel Jedlička, Michal Kepka</i>
2	Tourism <i>- new data and API resources (cca 12 APIs - weather, places, POIs, hotels,...)</i> <i>- linked data connections to the sample application</i> <i>- online (directly to the screen) via SPARQL query to the URI of embeded script</i> <i>- offline (copying to the data) via XSLT from RDF source file</i> <i>- re-styling</i> <i>Ota Čerba, Pavel Vlach</i>

3	Open Land Use <i>- mapping rules transcribed to RDF</i> <i>- new version of data model (LC attribute added)</i> <i>- improvement of RDF version of data model</i> <i>- sample data (Urban Atlas Prague) transformed to RDF</i> <i>- discussion about conception of final application (and agreement on disagreement on proposed by Karel Charvat)</i> <i>Ota Čerba, Pavel Vlach</i>
4	Map of investments of Liberec Region. <i>Visualisation of thematic dataset from shared table</i> http://geoportal.kraj-lbc.cz/mapovy-prohlizec <i>Dimitrij Kozhukh</i>
5	Map of investments of Liberec Region https://eazybi.com/accounts/5835/dashboards/map-of-investments <i>Raimonds Simanovskis, Karel Charvát Jr.</i>
6	Forests - part of Regional Atlas of Liberec Region http://geoportal.kraj-lbc.cz/mapovy-prohlizec <i>Visualisation of thematic dataset from shared table</i> <i>Dimitrij Kozhukh</i>
7	Touristic map of Zemgala <i>Dimitrij Kozhukh, Raitis Berzins</i>
8	Eurostat Data Explorer <i>Raitis Berzins</i>
9	Implementing DCAT INSPIRE profile <i>Štěpán Kafka, Marek Šplíchal</i>
10	Linked Czech NFI http://ha.isaf2014.info/d2rq/

	<i>Jan Bojko</i>
11	Foodie Perspective On Transport Networks <i>Tomáš Řezník</i>



Fig. 3 Otakar Cerba speaks about tourism and RDF during the Open Data Hackathon.

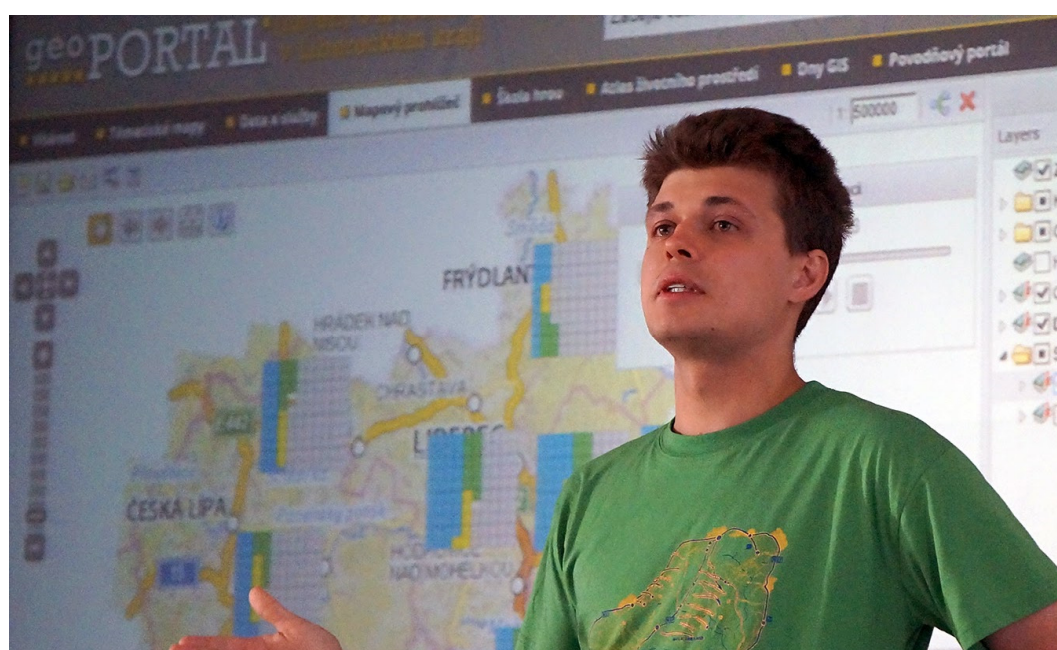


Fig. 4 Dimitrij Kozhukh presents the Map of investments of Liberec Region.

OPEN DATA HACKATHON – RESULTS

The jury members:

- Mr. Ludek Kühr (BIC Innovation, Czech Republic) - chairman
- Mr. John O'Flaherty (MAC, Ireland)
- Mr. Karel Janečka (Apps4Europe project, Czech Republic)
- Mr. Stein Runar Bergheim (AVINET, Norway)

THE PRIZE OF JURY

1. **Day time variation of traffic volume** (Authors: Karel Jedlička, Michal Kepka)
2. **Implementing DCAT INSPIRE profile** (Authors: Štěpán Kafka, Marek Šplíchal)
3. **Open Land Use** (Authors: Otakar Čerba, Pavel Vlach)



Fig. 5 The chairman of jury Mr. Ludek Kühr announced the prize-winner application.

THE PRIZE OF ISAF CONFERENCE PARTICIPANTS

Day time variation of traffic volume (Authors: Karel Jedlicka, Michal Kepka)



Fig. 6 Karel Jedlicka presents the prize-winner application – Day time variation of traffic volume.

For more information, please, visit the following websites:

The official website of the ISAF 2014 conference: <http://isaf2014.info/>

The official website of the Open Data Hackathon: http://isaf2014.info/?page_id=106

Open Data Hackathon wiki: <http://odh.isaf2014.info/projects/open-data-hackathon/wiki>