



Collaborative Project

GeoKnow - Making the Web an Exploratory for Geospatial Knowledge

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Abstract: This document reports the dissemination activities performed during the third year of the GeoKnow project. These activities include the efforts required to communicate project results to the scientific community and general public.

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Executive Summary

This document describes the dissemination activities carried out during the last year of the GeoKnow project. This document describes the main results to communicate (publication of deliverables, software tools, published scientific papers) and the communication channels used for doing so (event participation, blog post, video tutorials and online presence via social networks).

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1 Introduction

In the last year of GeoKnow project, the dissemination efforts were mainly focused in the communication of results. We organised and co-organised four workshops and sponsored four events. This sponsorships helped us to have more visibility on those events. We not only focused on the events, but also in improving the access to the online demonstrators and software access trough the Linked Data Stack¹. Two more video tutorials were uploaded to our Youtube channel, four blog posts were written about concrete the research achievements (software tools/datasets). All these activities were communicated also in the Social Networks, where the audience had a good growth this year.

This report describes first the concrete results produced in the third year of GeoKnow. These includes scientific publications, software tools, online demo and deliverables. These results are then communicated via events participation and multi-channel dissemination. These activities are then reported in the second part of this deliverable.

Finally, we present a statement for the activities that will continue after GeoKnow.

2 Third Year Results

This section summarises the GeoKnow results produced during the 3rd and last year of the project.

2.1 Scientific Publications

For the scientific community GeoKnow has published 26 scientific papers where research was communicated:

- Arndt, N., Ackermann, M., Brümmer, M. & Riechert, T. (2015). Knowledge Base Shipping to the Linked Open Data Cloud. 11th International Conference on Semantic Systems Proceedings (p./pp. 73-80), September, Vienna, Austria.
- Athanasiou, S., Georgomanolis, N., Patroumpas, K., Alexakis, M. and Stratiotis, T. (2015). TripleGeo-CSW: A Middleware for Exposing Geospatial Catalogue Services on the Semantic Web.. In P. M. Fischer, G. Alonso, M. Arenas and F. Geerts (eds.), EDBT/ICDT Workshops (p./pp. 229-236): CEUR-WS.org.
- Both, A., Wauer, M., Garcia-Rojas, A., Hladky, D. and Lehmann, J. (2015). GeoKnow Generator Workbench: An integrated tool supporting the linked data lifecycle for enterprise usage. Proceedings of the 11th International Conference on Semantic Systems Posters and Demos, September: ACM.
- Ermilov, I. & Pellegrini, T. (2015). Data Licensing on the Cloud - Empirical Insights and Implications for Linked Data. SEMANTICS 2015, .
- Ermilov, I., Höffner, K., Lehmann, J. & Mouromtsev, D. (2015). kOre: Using Linked Data for OpenScience Information Integration. SEMANTICS 2015, .
- Garcia-Rojas, A., Hladky, D., Wauer, M., Isele, R., Stadler, C. and Lehmann, J. (2015). The GeoKnow Generator Workbench: An Integration Platform for Geospatial Data. Proceedings of the 3rd International Workshop on Semantic Web Enterprise Adoption and Best Practice.

¹<http://stack.linkeddata.org/>

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- Gerber, D., Esteves, D., Lehmann, J., Bühmann, L., Usbeck, R., Ngonga Ngomo, A.-C. and Speck, R. (2015). DeFacto - Temporal and Multilingual Deep Fact Validation. *Web Semantics: Science, Services and Agents on the World Wide Web*.
 - Giannopoulos, G., Vitsas, N., Karagiannakis, N., Skoutas, D. and Athanasiou, S. (2015). FAGI-gis: A Tool for Fusing Geospatial RDF Data. In F. Gandon, C. Guéret, S. Villata, J. Breslin, C. Faron-Zucker and A. Zimmermann (ed.), *The Semantic Web: ESWC 2015 Satellite Events*, Vol. 9341 (pp. 51-57). Springer International Publishing. ISBN: 978-3-319-25638-2.
 - Hassan, M., Lehmann, J. & Ngomo, A.-C. N. (2015). Interlinking: Performance Assessment of User Evaluation vs. Supervised Learning Approaches. *Proceedings of the 8th Workshop on Linked Data on the Web (LDOW2015)*, Florence, Italy, .
 - Hassan, M., Speck, R. & Ngomo, A.-C. N. (2015). Using Caching for Local Link Discovery on Large Data Sets. In *Engineering the Web in the Big Data Era*, Vol. 9114 (pp. 344-354). Springer International Publishing. ISBN: 978-3-319-19889-7.
 - Janev, V., Mijovic, V. and Vraneš, S. (2015) *Linked Data Approach to the PSI Directive Implementation: Supporting Tools and Lessons Learned*. *Proceedings of the 23rd Telecommunications Forum (TELFOR 2015): Telecommunications Society-Belgrade, IEEE Serbia & Montenegro COM CHAPTER*.
 - Lehmann, J., Isele, R., Jakob, M., Jentzsch, A., Kontokostas, D., Mendes, P. N., Hellmann, S., Morsey, M., van Kleef, P., Auer, Sören. and Bizer, C. (2015). DBpedia - A Large-scale, Multilingual Knowledge Base Extracted from Wikipedia. *Semantic Web Journal*, 6, 167-195.
 - Martin, M., Abicht, K., Stadler, C., Auer, Sören., Ngomo, A.-C. N. and Soru, T. (2015). CubeViz – Exploration and Visualization of Statistical Linked Data. *Proceedings of the 24th International Conference on World Wide Web, WWW 2015*.
 - Milošević, U. and Stadler, C. (2015). Mobile Semantic Geospatial Visualization and Exploration. *Proceedings of the 5th International Conference on Information Society Technology: Information Society of the Republic of Serbia*.
 - Patroumpas, K. (2015). Spatial Selectivity Estimation for Web Searching.. In J. Gensel and M. Tomko (eds.), *W2GIS* (p./pp. 107-123), : Springer. ISBN: 978-3-319-18250-6.
 - Rautenberg, S., Ermilov, I., Marx, E., Auer, S. & Ngomo Ngonga, A.-C. (2015). LODFlow – a Workflow Management System for Linked Data Processing. *SEMANTICS 2015*.
 - Sherif, M. A. & Ngonga Ngomo, A.-C. (2015). An Optimization Approach for Load Balancing in Parallel Link Discovery. *SEMANTICS 2015*.
 - Sherif, Mohamed Ahmed., Ngonga Ngomo, A.-C. and Lehmann, J. (2015). Automating RDF Dataset Transformation and Enrichment. *12th Extended Semantic Web Conference, Portoroz, Slovenia, 31st May - 4th June 2015*: Springer.
 - Soru, T., Marx, E. & Ngonga Ngomo, A.-C. (2015). Enhancing Dataset Quality Using Keys. *The 14th International Semantic Web Conference (ISWC 2015), Posters and Demonstrations Track*.
 - Soru, T., Marx, E. & Ngonga Ngomo, A.-C. (2015). ROCKER – A Refinement Operator for Key Discovery. *Proceedings of the 24th International Conference on World Wide Web, WWW 2015*.
 - Stadler, C., Arndt, N., Martin, M. and Lehmann, J. (2015). RDF Editing on the Web with REX. *SEMANTICS 2015, September*: ACM.
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- Stadler, C., Unbehauen, J., Westphal, P., Sherif, M. A. and Lehmann, J. (2015). Simplified RDB2RDF Mapping. Proceedings of the 8th Workshop on Linked Data on the Web (LDOW2015), Florence, Italy.
- Usbeck, R., Röder, M. & Ngonga Ngomo, A.-C. (2015). Evaluating Entity Annotators Using GERBIL. Proceedings of 12th European Semantic Web Conference (ESWC 2015).
- Usbeck, R., Röder, M., Ngonga Ngomo, A.-C., Baron, C., Both, A., Brömmmer, M., Ceccarelli, D., Cornolti, M., Cherix, D., Eickmann, B., Ferragina, P., Lemke, C., Moro, A., Navigli, R., Piccinno, F., Rizzo, G., Sack, H., Speck, R., Troncy, R., Waitelonis, Jö. & Wesemann, L. (2015). GERBIL – General Entity Annotation Benchmark Framework. 24th WWW conference.
- Vaidya, G., Kontokostas, D., Knuth, M., Lehmann, J. & Hellmann, S. (2015). DBpedia Commons: Structured Multimedia Metadata from the Wikimedia Commons. Proceedings of the 14th International Semantic Web Conference, October.
- Mijovic, V., Janev, V. and Paunovic, D. (2015). ESTA-LD: Enabling Spatio-Temporal Analysis of Linked Statistical Data. Proceedings of the International Conference on Information Society Technology and Management: Information Society of the Republic of Serbia.

GeoKnow also contributed to the generation of two conference proceedings:

- Proceedings of the 4th Knowledge Discovery and Data Mining Meets Linked Open Data (Know@LOD) Workshop in conjunction with the Extended Semantic Web Conference (ESWC) 2015. In J. Völker, H. Paulheim, J. Lehmann and V. Svatek (ed.), CEUR-WS.org
- 2nd Special Issue on Linked Dataset Descriptions. Semantic Web Journal. Lehmann, J. and Corcho, O. (2015).

Last, but not the least, the GeoKnow Handbook has being published in March/early April .

LEHMANN, J., ATHANASIOU, S., BOTH, A., ROJAS, A. G., GIANOPOULOS, G., HLADKY, D., HOFFNER, K., GRANGE, J. J. L., NGOMO, A.-C. N., SHERIF, M. A., STADLER, C., WAUER, M., WESTPHAL, P. and ZASLAWSKI, V. (2015). The GeoKnow Handbook.

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2.2 Linked Data Stack Releases

Official tool releases are done through the Linked Data Stack². During this third year the following components had at least one release as shown in table1. A more detailed description of these releases is provided in the D1.4.3 Final release of the GeoKnow Generator.

Table 1: Software projects in GeoKnow organisation at Github

Package	Version
esta-ld	1.0.6
deer-service	0.1
facete2-tomcat-common	0.9.1

²<http://stack.linkeddata.org/>

fagi-gis	1.1+rev246
facete2-tomcat7	0.9.1
fagi-gis-service	1.1+rev246
fagi-gis-common	0.1+rev246
edcat	1.0-3
virtuoso-opensource	7.2
coevolution-debian-package	0.2.3
limes-service	0.5.2
linkedgeodata	0.4.2
spatial-semantic-browser	0.8.2+nmu1
spring-batch-admin-geoknow	0.0.2
sparqlify-tomcat7	0.6.20
sparqlify-tomcat-common	0.6.20
sparqlify-cli	0.6.20
triplegeo-service	0.3.4
triplegeo	1.1-2
geoknow-generator-ui	1.2.2

2.3 Open Source Software Tools

The GeoKnow team created 52 open source projects inside GeoKnow and AKSW GitHub repositories. All these projects may contain concrete research implementations, forks from other projects, auxiliary scripts or website content. For the third year of GeoKnow six new repositories were created. Following table list all projects stored at this repository with the creation and last update date.

Table 2: Software projects in GeoKnow organisation at Github

Name	Created	Updated
GeoKnow/geoknow.eu	2012-10-12	2015-02-13
GeoKnow/LinkedGeoData	2013-01-29	2015-11-18
GeoKnow/DEER	2013-02-21	2015-09-07
GeoKnow/SparqlProxyPHP	2013-04-25	2013-04-25
GeoKnow/GeoKnowGeneratorUI	2013-06-13	2015-10-14
GeoKnow/TripleGeo	2013-06-14	2015-07-27

GeoKnow/LIMES-Service	2013-10-04	2015-06-05
GeoKnow/Jassa	2013-10-05	2015-08-12
GeoKnow/TripleGeo-Service	2013-10-25	2015-10-13
GeoKnow/DEER-Service	2013-10-25	2015-04-01
GeoKnow/GeoKnow-Scripts	2013-11-01	2015-01-07
GeoKnow/js.geoknow.eu	2013-11-12	2014-09-01
GeoKnow/FAGI-tr	2013-11-27	2014-03-21
GeoKnow/FAGI-gis	2013-11-29	2015-11-20
GeoKnow/GeoBenchLab	2013-12-07	2015-02-03
GeoKnow/angular-ui-semweb	2013-12-09	2014-03-13
GeoKnow/Jassa-Bower	2014-01-16	2015-04-19
GeoKnow/Jassa-UI-Angular	2014-01-18	2015-10-08
GeoKnow/Jassa-UI-Angular-Bower	2014-01-18	2015-04-02
GeoKnow/GeoStats	2014-01-20	2014-04-22
GeoKnow/Facete2	2014-02-04	2015-09-15
GeoKnow/Jassa-UI-Angular-Openlayers-Bower	2014-03-02	2015-03-25
GeoKnow/ldviewer	2014-04-19	2015-02-17
GeoKnow/TripleGeo-CSW	2014-05-04	2015-01-11
GeoKnow/sparql-endpoint	2014-05-09	2015-06-06
GeoKnow/Geolink	2014-05-26	2015-11-10
GeoKnow/OSMRec	2014-05-30	2015-10-14
GeoKnow/Optigeo	2014-06-18	2015-01-09
GeoKnow/trx_parser	2014-07-08	2014-11-27
GeoKnow/subnot-testing	2014-07-11	2014-07-11
GeoKnow/rsine	2014-07-25	2014-06-04
GeoKnow/Jassa-Core	2014-08-04	2015-09-30
GeoKnow/SparqlServiceCatalogue	2014-08-08	2015-02-27
GeoKnow/JSON-LD-ID-Template	2014-08-10	2015-03-09
GeoKnow/Coevolution	2014-09-16	2015-09-04
GeoKnow/GEM	2014-10-15	2015-08-04
GeoKnow/DataCubeValidation	2014-10-20	2014-12-09

GeoKnow/Scintillache	2014-11-04	2014-11-04
GeoKnow/Facete2-Docker	2014-11-21	2015-10-19
GeoKnow/spring-batch-admin	2014-11-24	2015-10-03
GeoKnow/ESTA-LD	2014-11-24	2015-02-03
GeoKnow/Jassa-UI-Angular-Edit-Bower	2014-12-04	2015-04-09
GeoKnow/GeoQuality	2014-06-30	2015-04-27
GeoKnow/DataDrivenDependencyInjection-Angular	2015-02-24	2015-03-28
GeoKnow/Spatial-Curation-Interface	2015-04-20	2015-05-07
GeoKnow/Mappify	2015-04-27	2015-04-27
GeoKnow/FOX-Docker	2015-09-03	2015-09-03
GeoKnow/SocialAPI	2015-09-23	2015-09-23
GeoKnow/Lodtenant	2015-09-30	2015-10-28

Notice that not all projects were hosted under the GeoKnow organisation. Some projects were hosted at <https://github.com/AKSW>:

Table 3: GeoKnow projects in AKSW organisation at Github

Name	Created	Updated
AKSW/RDFUnit	2013-04-02	2015-11-17
AKSW/CubeViz	2013-09-10	2013-11-17
AKSW/LIMES	2013-11-04	2015-10-15
AKSW/CROCUS	2014-03-14	2015-09-30

2.4 Generator Online Demo

The GeoKnow Generator Workbench demo available at <http://generator.geoknow.eu/>, allows users to access quickly to the software tools developed in the project. Since the first year, we have put the GeoKnow Generator Workbench online for users to test. For the third year we have simplified the access to the demo by allowing users to use anonymous accounts (previously users had to register in order to use the demo). When users enter to the Workbench, they can make use of a guided tour that will briefly describe the components that are integrated in the Workbench and the different functionalities such as graph management, data source management and user management. Figure 1 provides a screenshot of this guided tour.

2.5 Deliverables

Table 4 presents the list of deliverables generated in the third year and the dissemination channel used to communicate these results. All that have the Website channel are published at <http://geoknow.eu/>

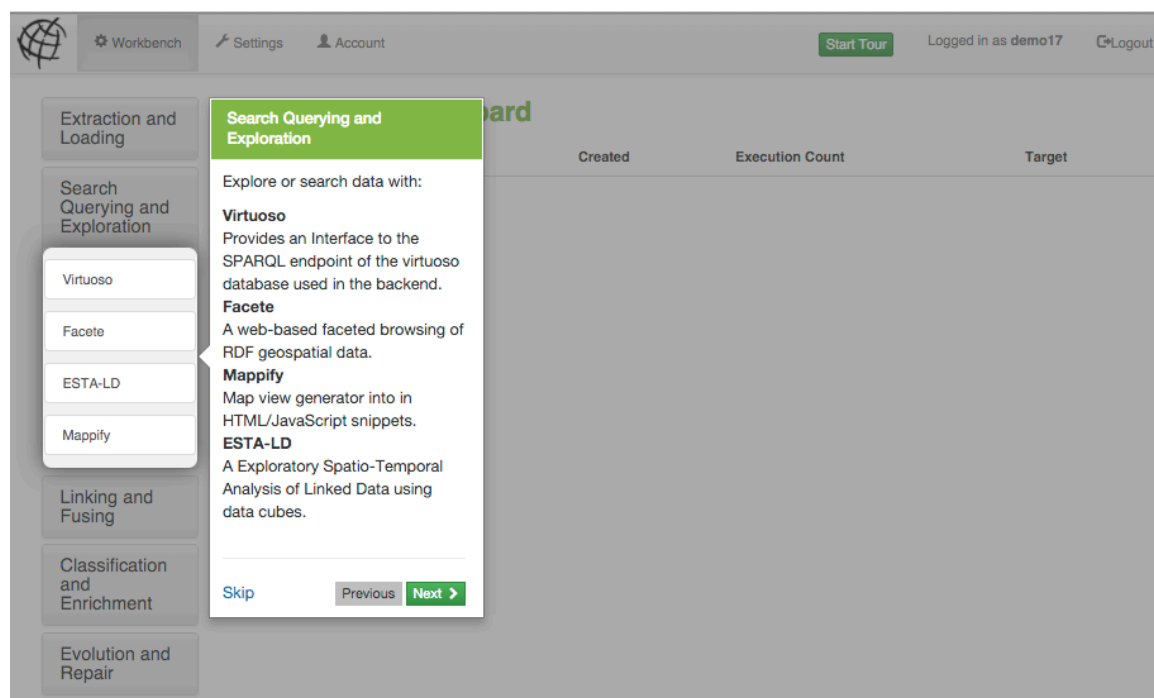


Figure 1: Generator Workbench guided tour

[Deliverables.html](#).

Table 4: Released deliverables dissemination

Number	Title	Dissemination
D1.3.4	Continuous Report on Performance Evaluation (M36)	Internally
D1.4.3	Final release of the GeoKnow Generator (M36)	Website, GitHub ³ , Blog
D2.5.1	Distributed Geospatial Querying (M30)	OpenLink Website
D3.1.3	Evaluation of spatial interlinking (M30)	Website, GitHub ⁴
D3.2.3	Fusing of geospatial relations (M31)	Website, GitHub ⁵ , Blog ⁶ , Youtube ⁷
D3.3.2	Context sensitive spatial knowledge aggregation (M28)	Website, GitHub ⁸ , Blog ⁹
D3.4.2	Comparison with other data sets (M34)	Website
D3.5.2	Final report on spatial data quality assessment (M32)	Website

³<https://github.com/GeoKnow/GeoKnowGeneratorUI>

⁴<https://github.com/AKSW/LIMES>

⁵<https://github.com/GeoKnow/FAGI-gis>

⁶<http://blog.geoknow.eu/fagi-gis-fusing-geospatial-rdf-data/>

⁷<https://youtu.be/5FnlfGauRkE>

⁸<https://github.com/GeoKnow/OSMRec>

⁹<http://blog.geoknow.eu/osmrec/>

D4.1.2	Final release spatial-semantic exploration component (M26)	Website, GitHub ¹⁰
D4.2.2	Spatial curation interface (M30)	Website, GitHub ¹¹
D4.3.2	Public-private Co-Evolution (M30)	Website, GitHub ¹²
D4.4.2	Open-social API for GeoKnow Generator (M34)	Website, GitHub ¹³
D4.5.2	Final release of the mobile spatial-semantic visualization, exploration and authoring tool (M36)	Website, GitHub ¹⁴
D4.6.2	Advanced GUI for GeoKnow Prototype for Exploratory Spatio-temporal Analysis (M33)	Website, GitHub ¹⁵ , Youtube ¹⁶
D5.2.2	Second prototype of Supply Chain Geo Data Management infrastructure (M28)	Website
D5.3.1	Release of the supply chain dashboard (M30)	Website, GitHub ¹⁷
D5.5.1	Evaluation and test report including application and deployment guidelines (M36)	Website
D5.6.1	Release of the mobile supply chain consolidated view application (M36)	Website
D6.3.3	Final Prototype of the Motive based Search Infrastructure (M33)	Internally
D6.3.4	Refinement of Motive based Search demonstrator and UI interfaces (M36)	Website
D6.4.2	Evaluation of the prototype based on the test results (M36)	Website
D7.1.5	GeoKnow Show Case (M32)	Website, blog ¹⁸
D7.1.6	Third dissemination report (M36)	Website
D7.1.7	Final report (M36)	Website
D7.1.8	Report on dissemination activities in Serbia (M36)	Website
D7.2.3	Second exploitation report (M28)	Website
D7.3.2	Second standardization report (M32)	Website
D8.2.3	Intermediate project report (M30)	Website
D8.3.3	Yearly cost statement including yearly project report (M36)	Website

¹⁰<https://github.com/GeoKnow/Facete2>

¹¹<https://github.com/GeoKnow/GeoKnow/Spatial-Curation-Interface>

¹²<https://github.com/GeoKnow/Coevolution>

¹³<https://github.com/GeoKnow/SocialAPI>

¹⁴<https://github.com/GeoKnow/GEM>

¹⁵<https://github.com/GeoKnow/ESTA-LD>

¹⁶<https://www.youtube.com/watch?v=9XLDZt6oczw>

¹⁷<https://github.com/GeoKnow/Supply-Chain-Dashboard>

¹⁸<http://blog.geoknow.eu/geoknow-public-datasets/>

3 Event Participation

This section describes the different events where GeoKnow team participated in.

3.1 Sponsoring

Main activities in this last year were active presence in events for the dissemination of results. GeoKnow sponsored several events in which GeoKnow was benefitted with special presence at the event, such as having a booth and special project publicity facilities.

Event	Date and Location	Sponsoring category	url
Know@LOD Workshop	Sunday, May 31st, Portoroz, Slovenia		http://knowalod2015.informatik.uni-mannheim.de/
Semantics Conference	16-17 September 2015, Vienna	Gold sponsor	http://www.semantics.cc/our-gold-sponsors
European Data Forum 2015	16-17 November 2015 in Luxembourg	Silver Sponsors	http://2015.data-forum.eu/sponsors

3.2 Project Presentations

GeoKnow was formally presented in the following events:

Event	Date and Location	No. of attendees	Participant and Affiliation	Description
ESWC EU Project Networking Session	May 31st to June 4th 2015 in Portoroz, Slovenia		Axel Ngonga (InfAI)	Presentation of Project for Networking
Semantics 2015 ¹⁹	16-17 September 2015 in Vienna	283	Ontos, IMP, Unister, InfAI, Brox	Exhibition table for GeoKnow project
EDF 2015 ²⁰	16-17 November, 2015 in Luxembourg	600 aprox	InfAI, Ontos, IMP, Brox	Exhibition table for GeoKnow project

¹⁹<http://www.semantics.cc/>

²⁰<http://2015.data-forum.eu/>

3.3 Paper/Poster/Demo Presentations

Some publication of scientific papers are also presented in conferences. The following table list all conferences where GeoKnow partners assisted to present their work funded by the EU.

Event	Date and Location	No. of attendees	Participant and Affiliation	Description
LWDM 2015	27 of March 2015, Brussels, Belgium		Kostas Patroumpas (ATH)	The paper <i>TripleGeo-CSW: A Middleware for Exposing Geospatial Catalogue Services on the Semantic Web</i> was presented in the workshop
W2GIS 2015	21-22 May 2015, Grenoble, France		Kostas Patroumpas (ATH)	The paper <i>Spatial Selectivity Estimation for Web Searching</i> was presented in the conference
ESWC 2015	31 May to 4 June 2015, Portoroz, Sloveni	30	Giorgos Giannopoulos, Nick Vitsas (ATH)	The demo <i>FAGI-gis: A tool for fusing geospatial RDF data</i> was presented in the conference
WWW2015	20 May to 22 May 2015, Florence, Ital	100	Axel Ngonga Ngomo (InfAI), Christiane Lemke (Unister)	The paper <i>GERBIL - General Entity Annotator Benchmarking Framework</i> was presented during the conference
WaSABi 2015	May 31, 2015, Portoroz, Slovenia	5	Andreas Both (Unister)	The GeoKnow Generator Workbench: An Integration Platform for Geospatial Data paper was presented
OD&GIS 2015	March 09, 201	40	Mirko Spasic (OpenLink)	Design of Geospatial Benchmarking System and Performance Evaluation of Virtuoso and PostGIS; also keynote by Orri Erling (OpenLink) on <i>The Changing Shape of Data</i>
OD&GIS 2015	March 09, 201	40	Vuk Mijovic, Valentina Janev, Dejan Paunovic (IMP)	Paper presented, <i>ESTA-LD: enabling spatio-temporal analysis of linked statistical data</i>
OD&GIS 2015	March 09, 201	40	Uroš Milošević (IMP), Claus Stadler (InfAI)	Paper presented, <i>Mobile Semantic Geospatial Visualization and Exploration</i>

TELFOR 2015	November 24-26, 2015		Vuk Mijovic, Valentina Janev, Sanja Vraneš (IMP)	Paper presented <i>Linked Data Approach to the PSI Directive Implementation: Supporting Tools and Lessons Learned</i>
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3.4 Workshops

GeoKnow organised and co-organised four workshops in 2015, they are listed next.

Event	Date and Location	No. of attendees	Participant and Affiliation	Description
OD&GIS, ICIST'15 ²¹	March 09, 2015	40	Valentina Janev (IMP), Jens Lehmann (InfAI)	Proceedings of the conference is available here ²² . Orri Erling (OpenLink) gave a keynote, and 3 other papers from the GeoKnow project were presented.
NoSQL-Net, DEXA'15 ²³	September, 2015	will be reported	Valentina Janev (IMP)	GeoKnow related event, final programme is available here http://www.dexa.org/ .
ESWC'15	Monday June 1, 2015	50	Jens Lehmann (InfAI)	Jens Lehman organized a GeoKnow-related workshop with approx. 50 attendees. Further workshop details are available here ²⁴ . And dissemination material was distributed.
2nd International Workshop on Geospatial Linked Open Data ²⁵	15 September 2015, Vienna, Austria	15	InfAI, Ontos, Unister, Brox, IMP	organisers of workshop (GeoKnow project and tool stack presented)
Linked Data Europe: Big Geospatial Data ²⁶	18th November 2015, Luxemburg	30	InfAI, Ontos	GeoKnow co-organised the event with other EU projects.

²¹http://www.yuinfo.org/icist2015/icist_odagis.html

²²http://www.yuinfo.org/icist2015/Proceedings_ICIST_2015.pdf

²³<http://www.ksi.mff.cuni.cz/NoSQL-Net2015/>

²⁴<http://knowalod2015.informatik.uni-mannheim.de/>

²⁵<http://geold.geoknow.eu/>

²⁶<http://linkeddataeurope.eu/>

3.5 Other Meetings

GeoKnow activities are also communicated in other events in a informal manner. Next table list those events and the partners involved in the presentations.

Event	Date and Location	No. of attendees	Participant and Affiliation	Description
Sixth Technical User Community Meeting of LD BC (Linked Data Benchmark Council)	19th to 20th of March 2015, Barcelona, Spain	35	Unister, OpenLink	Andreas Both gave a presentation on <i>E-Commerce and Graph-driven Applications: Experiences and Optimizations while moving to Linked Data</i> , including results obtained in the scope of GeoKnow.
8th Greek HellasGIS Conference	11 - 12 December 2014, Athens, Greece		Athena	Kostas Patroumpas gave a presentation on Greek Geospatial Linked Data in geo-data.gov.gr/sparql , based on the work done in Task 2.7 of GeoKnow.
Meeting with the Geodetic Institute of Slovenia (GI) team	24 February 2015, Ljubljana, Slovenia	10	IMP	Valentina Janev presented and discussed the Linked Data approach and ambitions of the GeoKnow project.
International science and technology fair in Belgrade	May 11-14, 2015, Belgrade, Serbia	100	IMP	Uroš Milosevic and Vuk Mijovic presented/demonstrated the results of the GeoKnow project.
INSPIRE Linked Data: Bridging the gap - Geospatial World Forum	25 - 29 May 2015, Lisbon, Portugal		Athena	Kostas Patroumpas gave a presentation on bridging the gap between Linked Data and INSPIRE, based on the work done in Task 2.7 of GeoKnow.

Web Intelligence Summer School 2015 (WISS) ²⁷	31 August - 4 September 2015, Saint-Etienne, France	30	Andreas (Unister)	Both	Andreas Both gave 2 presentations about <i>Applications of Question Answering and Data Integration, Data Curation</i> . The content was mostly derived from the GeoKnow achievements and presented the GeoKnow project (logo and links included in the presentation) for being used in the WDAqua project ²⁸ .
Meeting with the Serbian Republic Geodetic Authority	October 2015, Belgrade, Serbia	10	IMP		Sanja Vranes established a contact with the top management of the Geodetic Authority and presented and discussed the ambitions of the GeoKnow project.
The International Conference on Semantic Web Business and Innovation (SWBI2015) ²⁹	7-9 October 2015, Sierre/siders, Switzerland	20	Ontos		Daniel Hladky presented The LINDAS system is based on the GeoKnow Generator, slides available here ³⁰ .

4 Multi-channel dissemination

This section describes the dissemination activities performed in each of the dissemination channels created for GeoKnow.

4.1 Geoknow.eu

The GeoKnow website has been maintained in regular basis. For the end of the project the landing page was modified in order to communicate specific software tools developed in the project and their relation to the Linked Data Lifecycle. Figure 2 shows the actual landing page where visiting users can directly find results of the project.

²⁷<https://wiss.univ-st-etienne.fr/>

²⁸<http://wdaqua.informatik.uni-bonn.de/>

²⁹<http://sdiwc.net/conferences/swbi2015/>

³⁰<http://www.slideshare.net/danielhladky/linked-data-service-lindas-status-quo-of-the-linked-data-lifecycle-a>



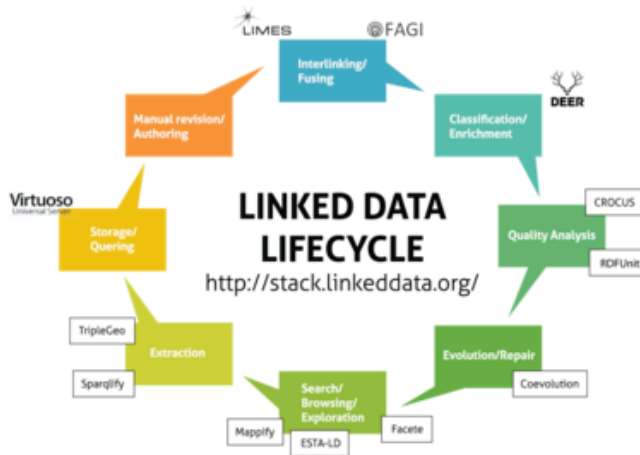
Making the web an exploratory place for geospatial data

PROJECT CONSORTIUM DISSEMINATION EVENTS RESULTS

Geospatial Data and the Semantic Web

Geospatial data or geographic information is the data that identifies a geographic location of natural or constructed features and boundaries on the Earth (e.g. oceans, buildings, countries, rivers, etc). Geographical knowledge bases are among the largest in existence and have high importance in a variety of everyday applications. The data can be mapped and often manipulated with Geographic Information Systems (GIS), however the integration of external data sets into these systems is time-consuming and complex. GeoKnow will provide the necessary tools and methods to easily integrate and process data across a wide range of data sources on the web of data.

GeoKnow EU project (2013-2015) has contributed with the GeoKnow Generator which is a stack of tools for bringing geospatial data to the Web of Data. These software tools are available in the Debian repository of the **Linked Data Stack**. Together with these tools GeoKnow team has developed the Generator Workbench which is an unified interface for using these tools. This workbench offers several enterprise-ready features such as authentication and data access authorisation. An online demo of the Workbench and GeoKnow Generator tools is available [here](#).



Tool Name	Description
Limes-Service	A link discovery framework for the Web of Data, supports 13 similarity measures of which six are geo-spatial distance measures.
Facete	Facete2 is a web-based faceted browsing of RDF geospatial data. It provides domain independent faceted filtering capabilities operating directly on SPARQL
Sparqlify	A SPARQL-to-SQL rewriter that enables one to define RDF views on relational databases and query them with SPARQL.

Figure 2: GeoKnow website landing page

BLOG INTERNAL CONTACT IMPRINT

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Community and Social Media



News

Linked Open Data Switzerland at SWBI2015 about a month ago Alejandra Garcia Rojas
Daniel Hladky from Ontos presented GeoKnow at the SWBI2015 conference two talks. The first talk was the keynote on October 7, 2015 with the title "Linked Data Service (LINDAS): Status quo of the Linked Data life-cycle and lessons learned". [Read more](#)

FAGI-gis: fusing geospatial RDF data about a month ago Giorgos Giannopoulos

GeoKnow introduces the latest version of FAGI-gis, a framework for fusing Linked Data, that focuses on the geospatial properties of the linked entities. [Read more](#)

GeoKnow at Semantics 2015, Vienna 2 months ago Alejandra Garcia Rojas

Several partners of GeoKnow were present this year at the Semantics conference 2015. The previous day of the conference we organised a workshop about the work done during these last three years in GeoKnow. [Read more](#)

The 2nd Geospatial Linked Data Workshop 2 months ago Alejandra Garcia Rojas

This week we the 2nd GeoLD workshop took place previous to the Semantics conference 2015 in Vienna. We had so invited speaker Erno

4.2 Blog

The GeoKnow blog is used regularly to communicate events or special releases. This third year we produced 15 blog entries for communicating different activities and results. A detailed list of these publications is provided in table 10.

Table 10: 3rd year blog posts

Title	Author	Category	Date
GeoKnow Final Releases	Alejandra Garcia Rojas	News	2015/11/28
EDF2015 and Linked Data Europe: Big Geospatial Data Workshop	Alejandra Garcia Roja	Events	2015/11/19
Linked Open Data Switzerland at SWBI2015	Daniel Hladky	News	2015/10/12
FAGI-gis: fusing geospatial RDF data	Giorgos Giannopoulos	GeoKnow Generator, Results, Software Release	2015/10/05
GeoKnow Public Datasets	Alejandra Garcia Rojas	Results	2015/09/19
GeoKnow at Semantics 2015, Vienna	Alejandra Garcia Rojas	Events, News	2015/09/18
The 2nd Geospatial Linked Data Workshop	Alejandra Garcia Rojas	Events	2015/09/17
2nd edition of GeoLD Workshop at Semantics Conference	Alejandra Garcia Rojas	Events	2015/08/20
Third GeoKnow Plenary Meeting in Leipzig	Matthias Wauer	EU Project, Meetings	2015/08/02
DEER at ESWC 2015	Mohamed Sherif	Events, Results	2015/06/05
GeoKnow presented semantic search approach with geospatial context at KNOW@LOD workshop on ESWC	Christiane Lemke	Events, Results	2015/06/05
Know@LOD 2015 is Over!	Jens Lehmann	Events	2015/06/04
GeoKnow presented paper at WASABI workshop on ESWC	Christiane Lemke	Events, GeoKnow Generator, Results	2015/06/02
GeoKnow at Belgrade Fair	Uros Milosevic	Events	2015/05/18
OSMRec - A tool for automatic annotation of spatial entities in OpenStreetMap	Giorgos Giannopoulos	Results, Software Release	2015/05/15

4.3 Social Networks

There has been continuous efforts communicating GeoKnow activities in the social networks. These increased this year due to the promotion of events organised by GeoKnow. Some statistics about the individual channels is provided in the Appendix A. The following list serves as an entry point to access the various social network channels:

- Twitter : @geoknow, <https://twitter.com/geoknow>
- LinkedIn : <http://www.linkedin.com/groups/Geoknow-4748293>
- G+ : +GeoKnow <https://plus.google.com/u/0/+GeoknowEu>
- Facebook : <https://www.facebook.com/geoknow>
- SlideShare : <http://www.slideshare.net/geoknow>

4.4 W3C Community Group

In the 2nd International Workshop on Geospatial Linked data, organised by GeoKnow, we had the pleasure of having as a Key note Frans Knibbe, an active member of the W3C/OGC Spatial Data on the Web Working Group³¹. His talk was about the work performed these last two years by this WG. He mentioned the challenges face at trying to unify standards. This talk was very interesting for the audience.

Other activities performed within the <https://www.w3.org/community/geosemweb/> was the publication of four blog post for communicating tools and datasets releases. This working group has currently 72 members, nine more since last year.

Title	Author	Date
GeoKnow Public Datasets	Alejandra Garcia Rojas	2015/11/20
FAGI-gis: fusing geospatial RDF data	Giorgos Giannopoulos	2015/10/05
OSMRec - A tool for automatic annotation of spatial entities in OpenStreetMap	Giorgos Giannopoulos	2015/06/10
Geospatial-semantic Exploration on the Move	Uros Milosevic	2015/01/24

Table 11: w3c community group blog posts

5 Dissemination After Project

After the project ending, the geoknow.eu website, the generator.geoknow.eu demo, and the @geoknow twitter account will remind up for at least two years. The GitHub organisational account will be also kept, however for those projects that will continue in development under the umbrella of another project, their ownership will be transferred where the corresponding partner ask to. For the Linked Data Stack and each individual software component developed within GeoKnow, the sustainability plans are specified in D7.1.7 the Final Report.

³¹http://geold.geoknow.eu/?page_id=156

Appendices

A Website and Social Networks Analytics

A.1 Website

Figure 3 presents an overview of <http://geoknow.eu/> analytics from 1st December 2014 to 19 November 2015. Compared to previous year the number of visiting users increased 23%.

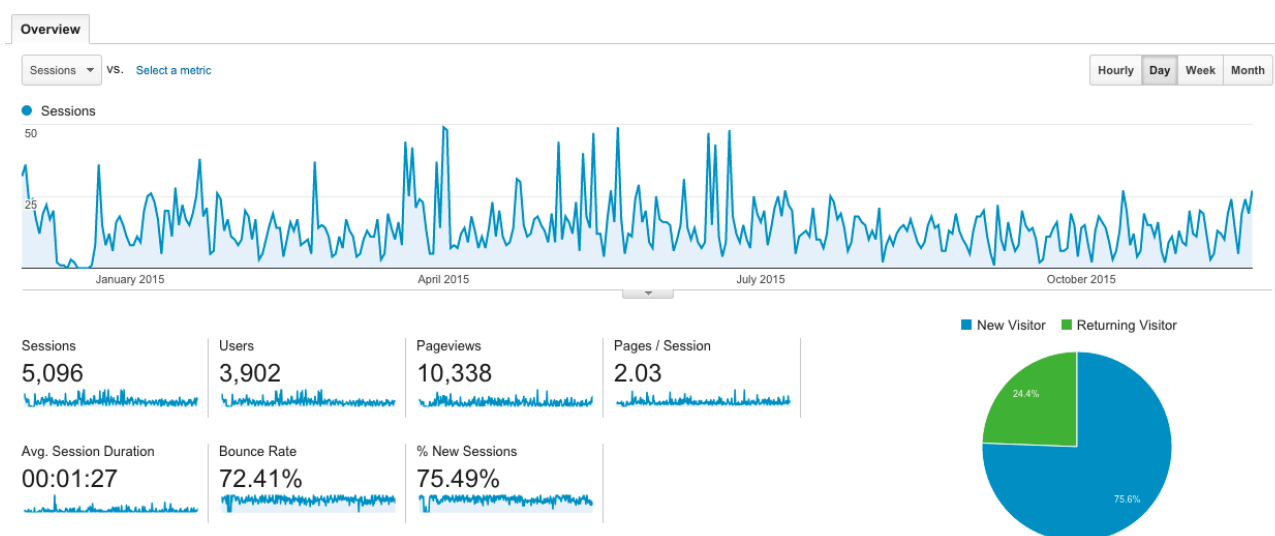


Figure 3: Website Analytics form Google Analytics

A.2 Twitter

We have used Twitonomy³² since the beginning of the project for collecting activity on twitter. Among the several statistics this service provides we have picked the following ones:

- A general overview of the activity, depicted in figure 4. In November 2014 we had 241 followers, and now we count 332.
- The number of tweets on a timeline is presented in figure 5.
- An excerpt of the retweeted tweets is also presented in figure 6.

Note that the statistics we are presenting are from 5th December 2012 till 20th November 2015.

A.3 Google Plus

The statistics of G+ are shown in figure 7. The number of all-time views has increased 27% in the third year of GeoKnow.

³²<http://www.twitonomy.com/>

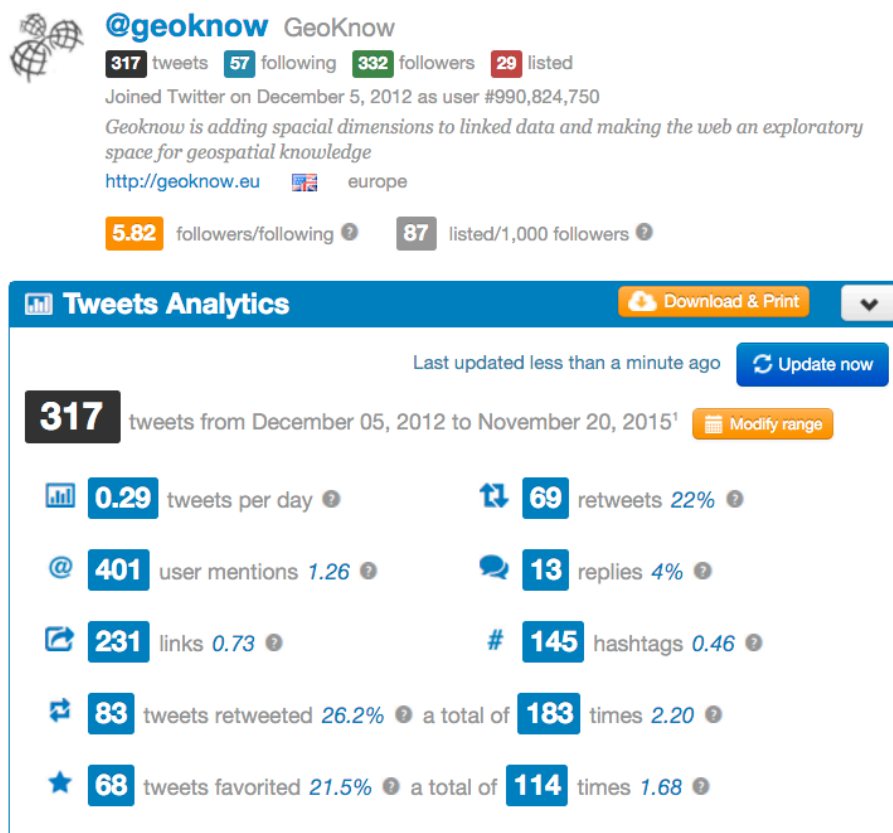


Figure 4: GeoKnow twitter profile form Twitonomy

A.4 Youtube

Last year we created a Youtube channel to add GeoKnow video tutorials. This year we added two more videos. The statistics of the channel are depicted in figure 8.

A.5 SlideShare

We have also included presentations in SlideShare and we notice this was very appreciated for people that could not assist to the GeoKnow workshops. The statistics of slideshare are depicted in figure 9.

A.6 Facebook

Using the Facebook insight service, the we were able to get statistics only for the second part of the year are shown in figure 10. The number of likes increased 42% this year.

A.7 LinkedIn

LinkedIn has changed the groups pages and no more statistics are provided. The group is available here <https://www.linkedin.com/groups/4748293> and currently has 93 members.

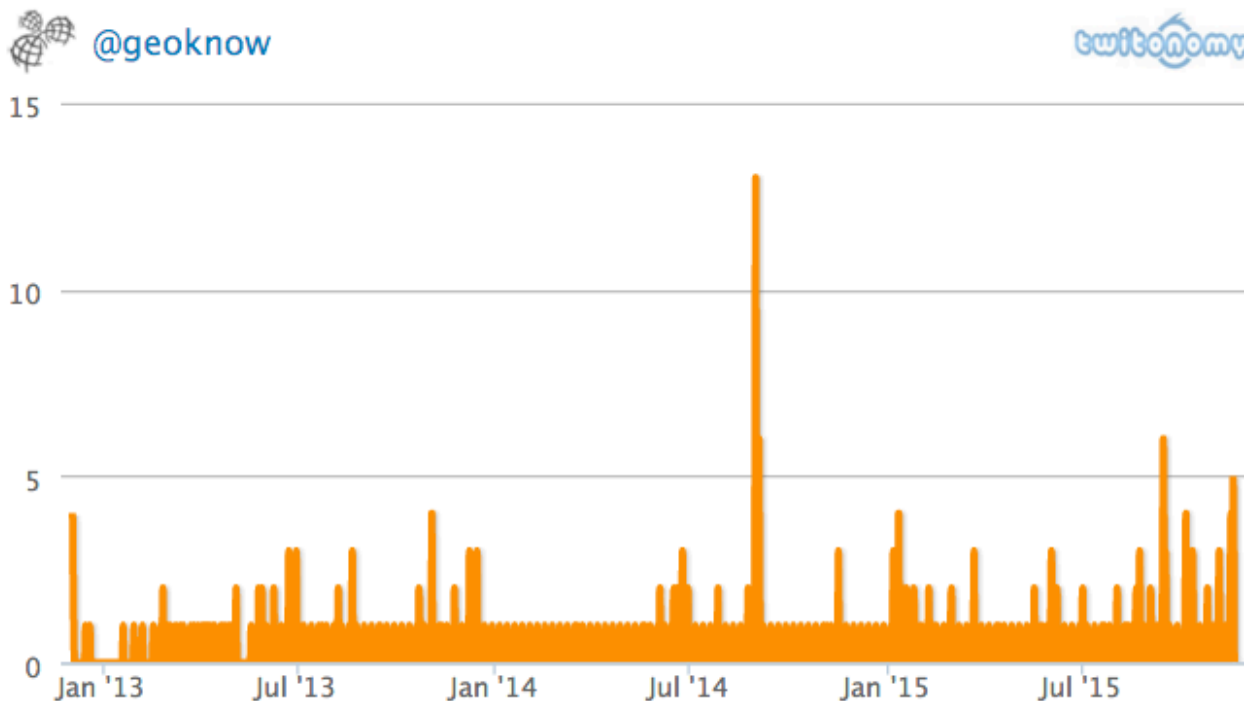


Figure 5: Number of tweets by date

	★ Favorites	↻ Retweets	Retweeted by	Potential Reach
3 Sep 2015 - 10:44 AM Learn software tools that support #geospatial #linkeddata processing, and industrial use cases http://t.co/BZaDovkDUd @SemanticsConf	4	2	151 4,124	4,275
28 Aug 2015 - 10:48 AM Don't forget to register to our workshop in Vienna before @SemanticsConf http://t.co/4mynjuxDB #geospatial #linkeddata #geosemweb	1	1	126	126
24 Aug 2015 - 3:37 PM Learn how to bring #geospatial #linkeddata to your organisation at #GeoLD workshop at @SemanticsConf http://t.co/Lypo4EgV0R	3	9	1,939 647 240 28 16 499 126 311 361	4,167
20 Aug 2015 - 10:58 AM W3C/OGC Spatial Data on the Web: The story so far - at #geold15 in the #semanticsconf https://t.co/5eUjp2pMm6	5	5	240 28 311 126 413	1,118
13 Aug 2015 - 7:44 AM The second #geold15 workshop at #semanticsconf will be the 15th September. It's a free event: http://t.co/Tk69aQv95	1	2	311 126	437
27 Jul 2015 - 2:06 AM Geospatial Semantic Web Weekly is out! http://t.co/ave6CPKJZI Stories via @pj_go_2020 @dataandme	3	3	1,035 1,461 1,350	3,846
20 Jul 2015 - 2:06 AM Geospatial Semantic Web Weekly is out! http://t.co/aE3uuv7nvQ Stories via @deepseadawn @STKO_UCSB @pvanguichten	1	1	135	135
13 Jul 2015 - 2:07 AM Geospatial Semantic Web Weekly is out! http://t.co/2of4frAB3 Stories via @OpSpatial @daoda89 @cambio_bo	0	1	219	219
30 Jun 2015 - 11:22 AM Geoknowers meeting at @Unister in #leipzig. Preparing the last sprint! http://t.co/weMr3tIQJ4	0	2	311 499	810
8 Jun 2015 - 8:14 AM DEER at ESWC 2015: https://t.co/zt4cU15Sdy a novel approach for automating RDF dataset transformation and enrichment	4	3	14 499 311	824
8 Jun 2015 - 2:02 AM Geospatial Semantic Web Weekly is out! http://t.co/Qtz0myu6tV Stories via @JennieYing97 @pj_go_2020	3	1	1,035	1,035
3 Jun 2015 - 7:35 AM GeoKnow at Belgrade Fair. PUPIN's presented own results: the mobile semantic geospatial browser (GEM), and ESTA-LD. http://t.co/jRjKeeSQ22	1	1	119	119

Figure 6: Retweets excerpt

Views ⓘ 14,533 All-time total

All-time ▾



9,765 Google+ page
 3,709 Post
 1,059 Photo

Figure 7: Google Plus insights

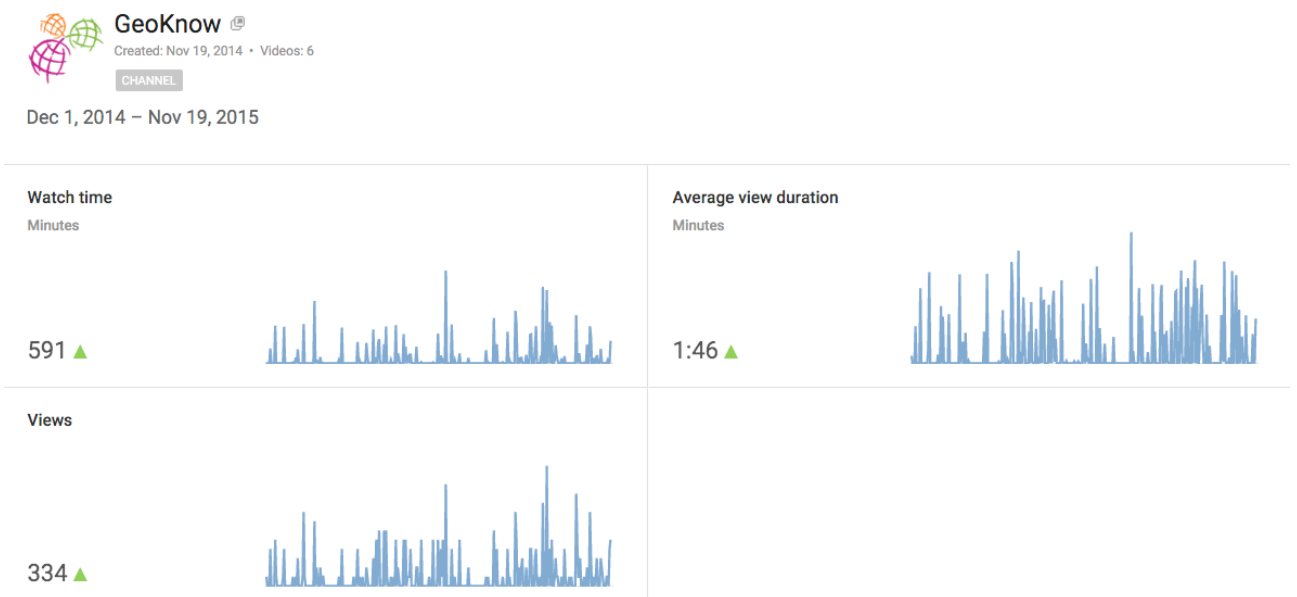


Figure 8: Youtube statistics

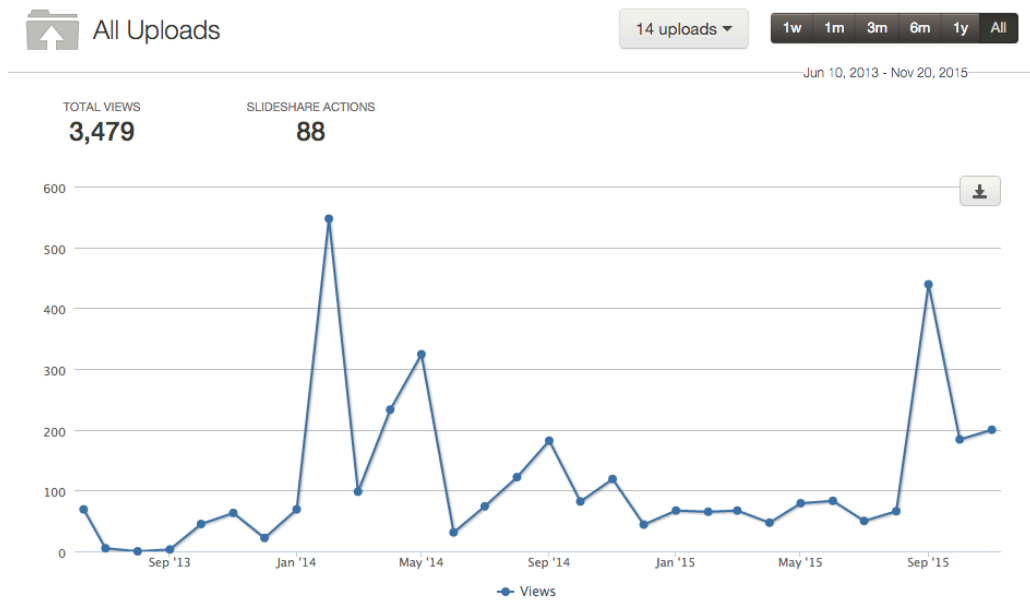


Figure 9: Slideshare statistics

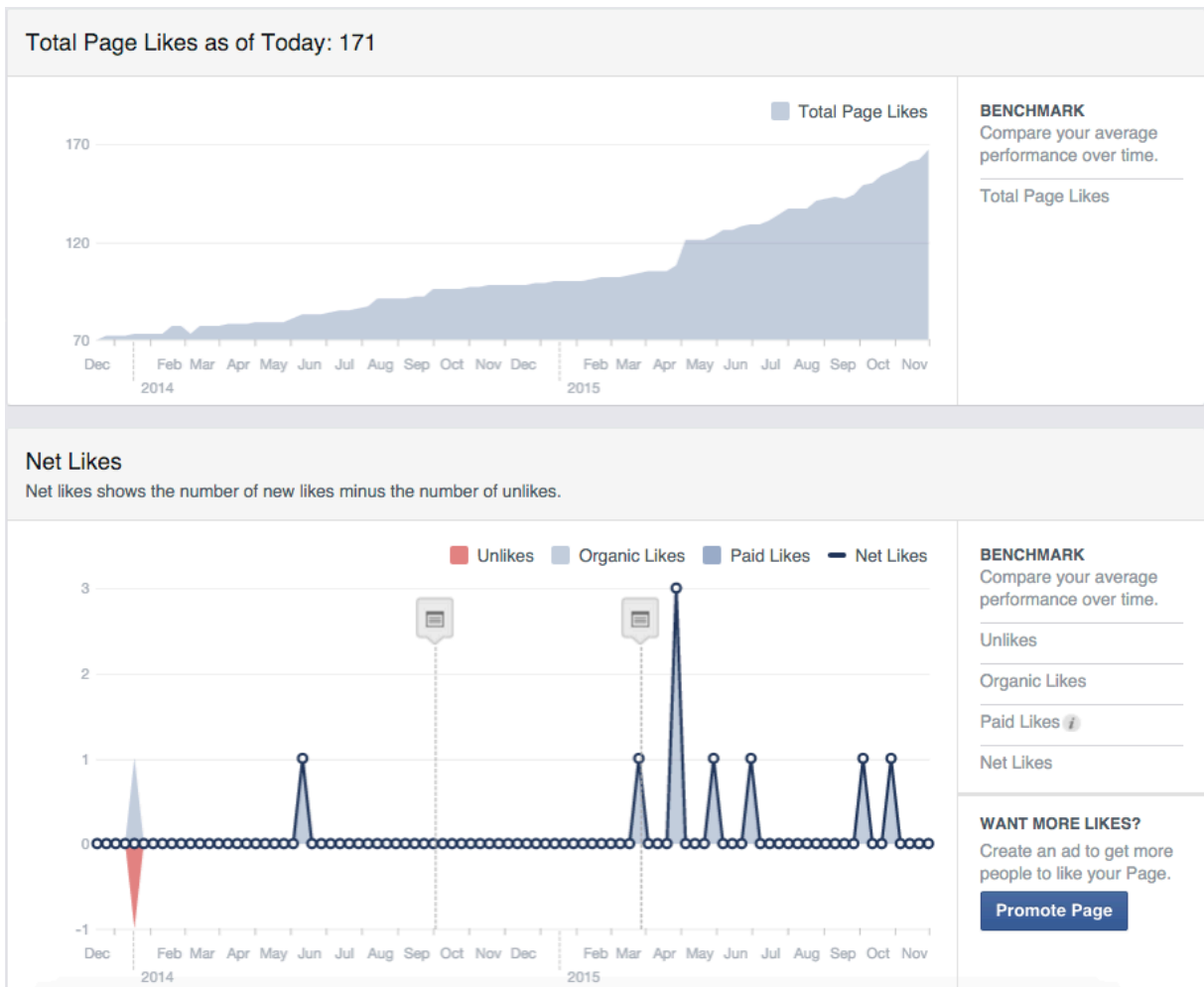


Figure 10: Facebook Insights form 01/12/2014 - 20/11/2015