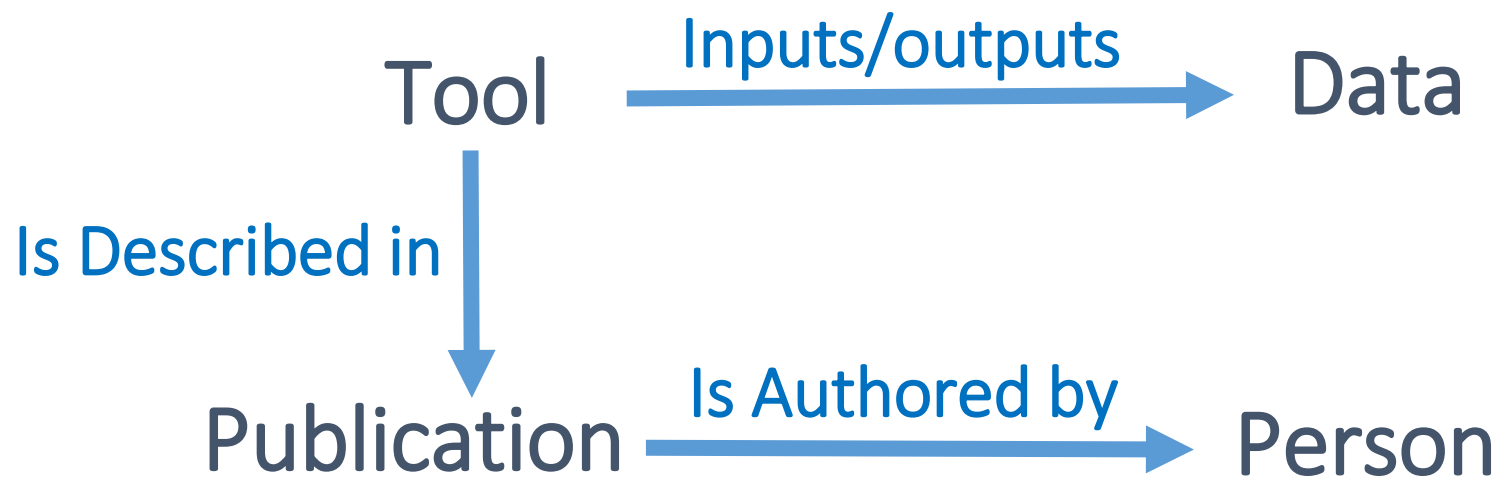




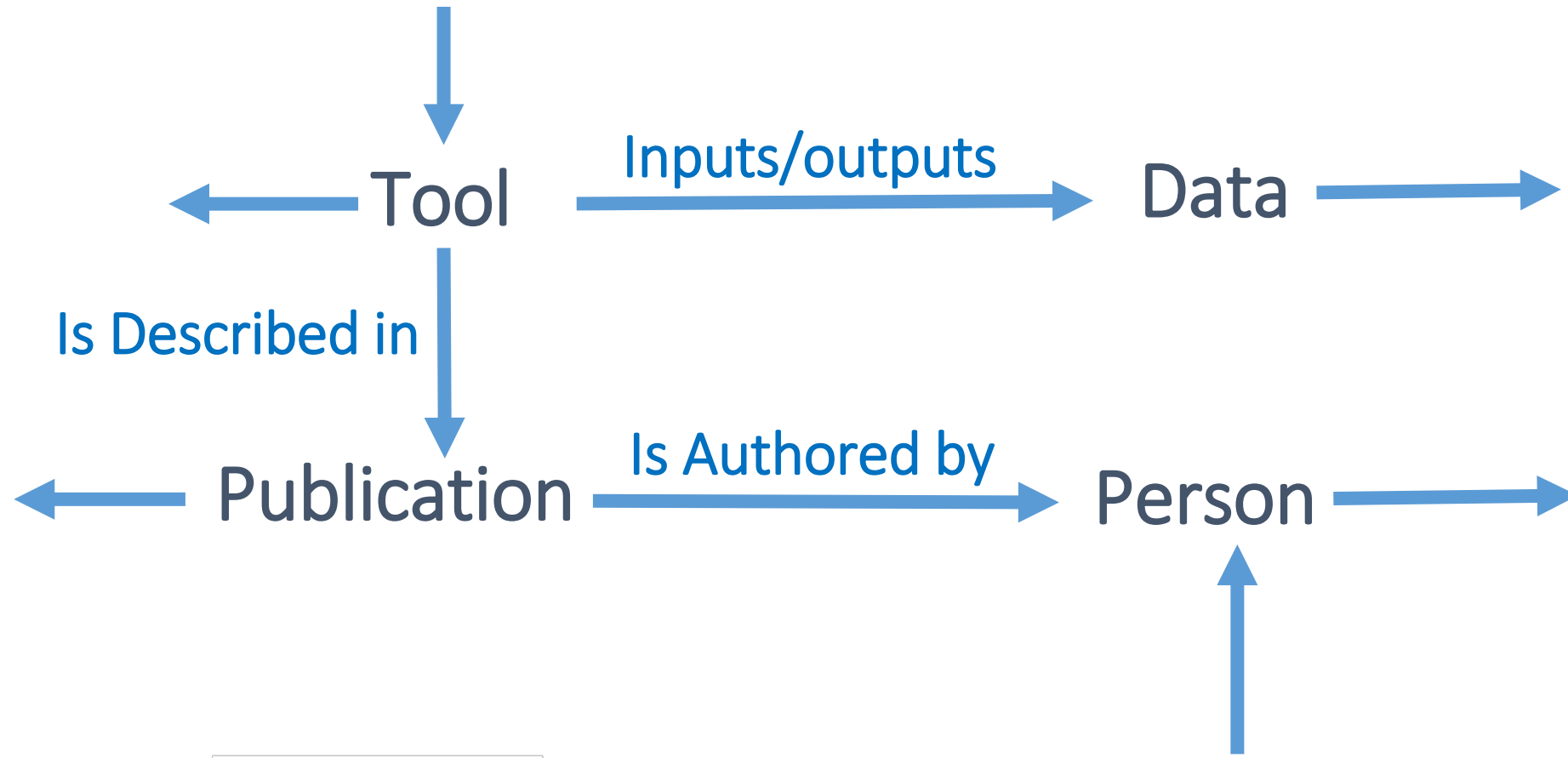
# ENERGIC objective: Build a Repository

.. establish an open and updatable repository of VGI analysis, integration tools, methods and case studies ..

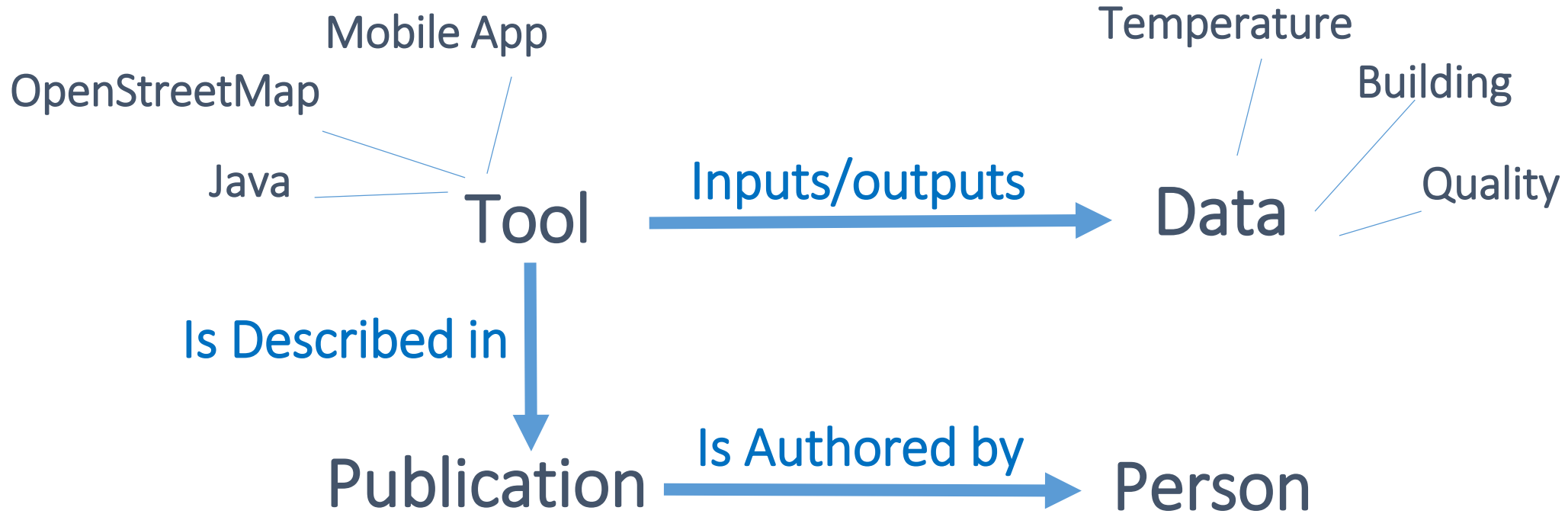
# Repository -> VGI Knowledge Portal



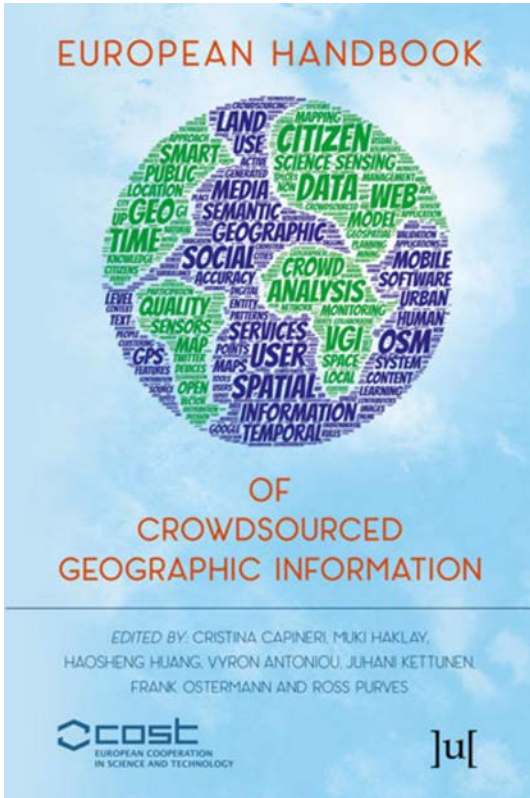
# Repository -> VGI Knowledge Portal



# Repository -> VGI Knowledge Portal



# ENERGIC VGI Ontology Cleaned keyword list



				communicating
				communication
				community
			gis	community
		urban	walking	community-oriented
				completeness
	positional	accuracy	and	completeness
			data	completeness
				completeness
				complexity
inherent	spatial	and	temporal	component
				computers
		collaborative	cloud	computing
			cloud	computing
				concepts
			shared	conceptualization
				conceptualizations
	temporally	accurate	road	conditions
				confidence
				confidentiality
				connection
				connections
				connections
				conformation
				consciously
				consensus-producing
				consistency
				consistency
				consistency



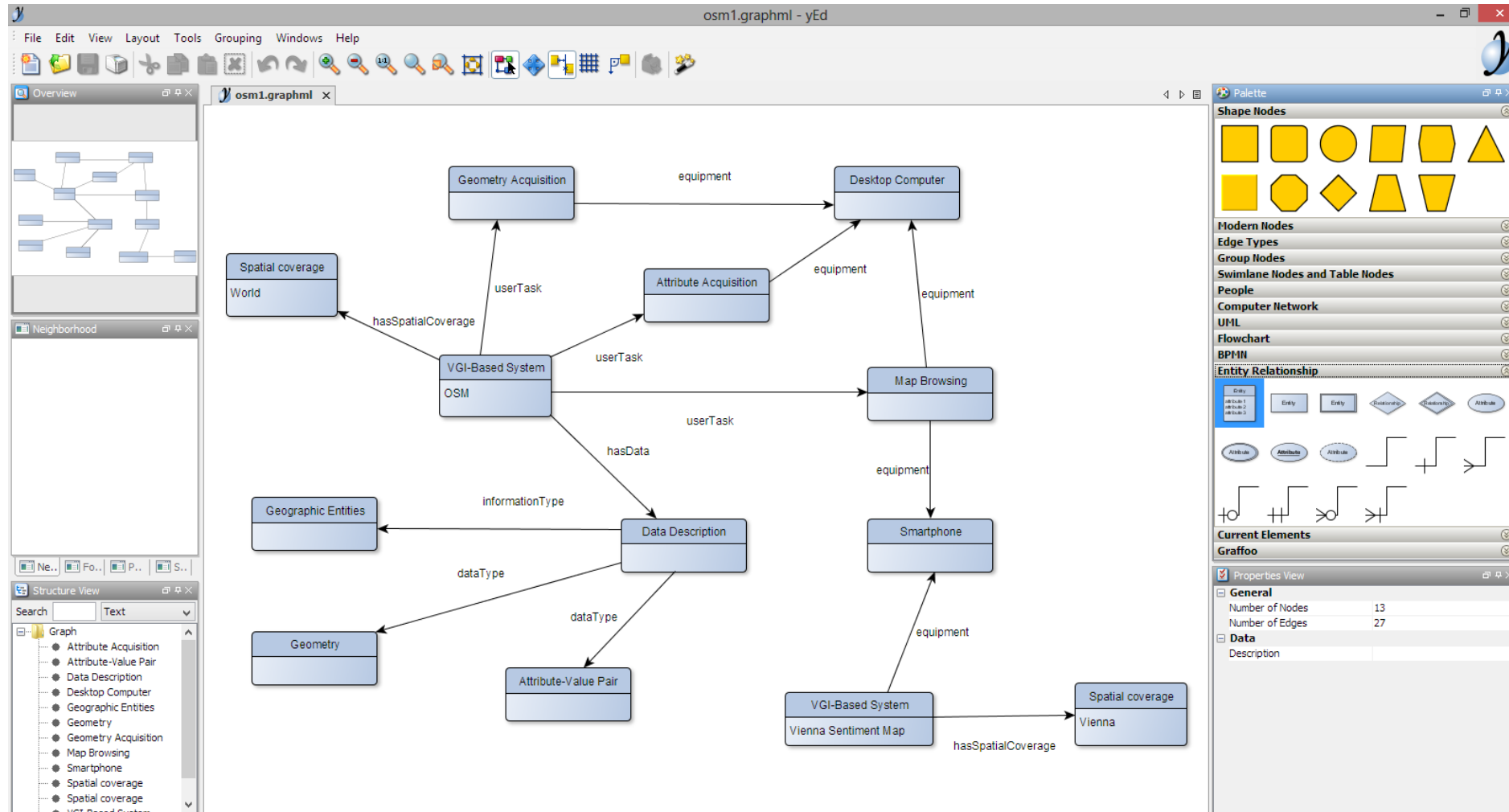
various environments, which might not necessary be caused by or towards these environments. In the following, we extend existing research, and illustrate how social media data can be harnessed to extract people's affective responses to environments. Particularly, we focus on **geotagged photos** in Flickr.

For extracting affective responses from social media data, we apply **sentiment analysis** technique. Sentiment analysis (or **opinion mining**) is a **natural language processing (NLP)** technique, and aims to determine an author's attitudes, opinions or sentiments with respect to the topic written about. Different methods have been proposed for sentiment analysis, among which lexicon-based method is one of the most popular ones. Lexicon-based sentiment analysis employs NLP techniques to tokenize,



# ENERGIC VGI Ontology

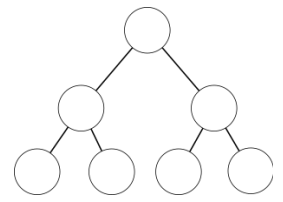
Instantiation in Lisbon with yEd graph editor



# Semantic enrichment with ENERIGIC VGI ontology

## Classes

[Accuracy](#) [Active Sensing Task](#) [Activity](#) [Actor](#) [Algorithm](#) [Analysis](#) [Analyst](#) [Annotations](#) [Application](#)  
[Application Field](#) [Article](#) [Assesment](#) [Automated Tagging](#) [Book](#) [Book Chapter](#) [Characterization](#) [Claim](#)  
[Collaborative Human-Computer Analytical Activity](#) [Comparison](#) [Contributor](#) [Daily Activity](#) [Data](#) [Data acquisition](#)  
[Data Analysis](#) [Data description](#) [Data Mining Algorithm](#) [Data quality](#) [Data source](#) [Data type](#) [Dataset Analysis](#)  
[Decision or Policy Making](#) [Definition](#) [Description](#) [Discourse Element](#) [Education](#) [Emergency management](#)  
[End user task](#) [Example](#) [Experimentation](#) [Folksonomy](#) [Geographic Feature Description](#) [Geographic Information](#)  
[Geographical Accuracy](#) [Geographical Object](#) [Geographical precision](#) [Geometry Acquisition](#) [Georef Image](#)  
[Georef Scalar](#) [Georef Structured](#) [Georef Text](#) [GeoreferencedData](#) [GeoSpatial Entity](#) [GIS](#) [Government Agency](#)  
[Hardware](#) [Human Activity](#) [Human sensor](#) [Hypothesis](#) [In-situ sensor](#) [Individual Actor](#) [Information](#)  
[Information type](#) [Institution or Agency](#) [Knowledge Resource](#) [Machine Learning](#) [Mapping](#) [Mapping Activity](#)  
[Measurement Accuracy](#) [Method](#) [Methodology](#) [Mobile application](#) [Monitoring](#) [Mountain](#) [Municipality](#)  
[National Mapping Agency](#) [Navigation](#) [NLP](#) [NonGeoreferenced Data](#) [Ontology](#) [Passive Task](#)  
[Pedestrian Navigation](#) [Positional Accuracy](#) [Precision](#) [Processing](#) [Project](#) [Querying](#)

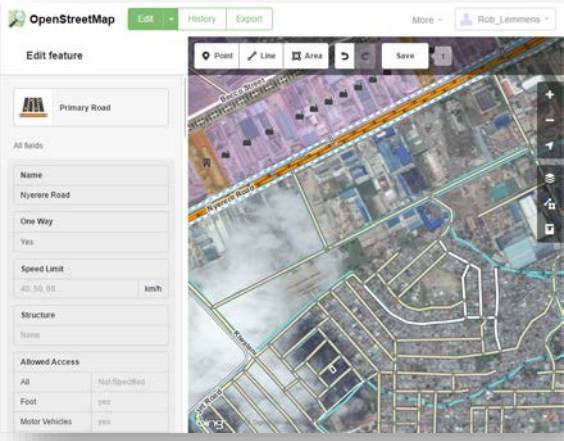


VGI system: OpenStreetMap



Is of Type

VGI publication



### A conceptual model for quality assessment of VGI for the purpose of flood management

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 University of São Paulo  
 São Carlos, Brazil  
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#### Abstract

Volunteered Geographic Information (VGI) has emerged as a potential source of geographic information for different domains. Despite the many advantages associated with it, such information lacks of quality assurance, since it is provided by individuals with different motivations and backgrounds. In response to this, several methods have been proposed to assess the quality of volunteered geographic information of different platforms. However, there has been little investigation aimed at explaining how cross-platform data could be used for quality





# VGI Knowledge Portal – Built with Semantic MediaWiki

Welcome to the VGI Knowledge Portal [\[edit\]](#)

This Portal  
portal is a V  
managemen  
are connect

Top categories of the **VGI Domain** are: [Data](#), [Tool](#), [Project](#), [Method](#), [Person](#), [Publication](#), [Organization](#), [Event](#).

Top categories of the **VGI Domain** are: [Data](#), [Tool](#), [Project](#), [Method](#), [Person](#), [Publication](#), [Organization](#), [Event](#).

Click [here](#) for important instructions to edit the Portal and to update it.

To start create or edit pages click [here](#). **Please, do not use commas in the page name.**

If you want to know more about the portal **contact us:** [vgiknowledgeportal@gmail.com](mailto:vgiknowledgeportal@gmail.com)



# VGI Knowledge Portal – Explore!

## Category

### Publication

From VGI Knowledge Portal

This category uses the form [Publication](#). Social Networks VGI: Twitter Sentiment Analysis of Social Hotspots (Dario Stojanovski, Ivan Chorbev, Ivica Dimitrovski and Gjorgji Madjarov), Capineri, C et al. 2016. European Handbook of Crowdsourced Geographic Information. London: Ubiquity Press. DOI: <http://dx.doi.org/10.5334/bax>

### Pages in category "Publication"

The following 98 pages are in this category, out of 98 total.

"

- "Young Citizen Scientists" - Poster

#### A

- A framework for citizen science and monitoring environment— performance and quality.
- A Hybrid Method for Toponym Recognition
- A hybrid system to support glacier monitoring activities on Italian Alps
- A Linguistic approach to Assess the Quality of Volunteer Geographic Information for Citizen Science
- A review of volunteered geographic information quality assessment methods
- A simple tag categorization framework using spatial coverage to discover geospatial semantics
- Acquisition and Cartographic Applications of Subjective Geodata
- AffectRoute – Considering people's affective responses to environments for enhancing route planning services
- Alpine Glaciology: an historical collaboration between volunteers and scientists and the challenge presented by an integrated approach
- An automated GRASS-based procedure to assess the geometrical accuracy of the OpenStreetMap Paris road network

#### L

- Linear mixed modelling with imputation - Finnish
- Linked Data and ontology development for the semantic enrichment of volunteered geo-information

#### M

- Machine Learning Assists the Classification of Reports by Citizens on Disease-Carrying Mosquitoes
- Magazine "Vesitalous" + several COST action articles translated to Finnish 2/2016
- Mapping Flickr
- Measures and indicators of VGI quality: An Overview
- Mobile crowd-sensing in the Smart City
- Moving on Twitter: Using Episodic Hotspot and Drift Analysis to Detect and Characterise Spatial Trajectories

#### N

- National environment monitoring is changing rapidly in Finland. - abstract
- Not just a tool. Using context in the development of a mobile App for rural water supply in Tanzania
- Novel Tools for Water Quality Monitoring – From Field to Laboratory. Novel

 Actions

# VGI Knowledge Portal – Contribute Pages & Attributes!

## Usability of VGI for validation of land cover maps

From VGI Knowledge Portal

Type	Article
Authors	Cidália Costa Fonte, Lucy Bastin, Linda See, Giles Foody, Flavio Lupia
Related Tool	Geo-Wiki, OpenStreetMap
Related Project	
Related Data	Flickr, Panoramio, OpenStreetMap
Related Method	
Keywords	VGI, Land Use/Cover Map, Quality, Validation, Crowdsourcing
Published in	International Journal of Geographical Information Science
Year	2015
Url	<a href="http://www.tandfonline.com/doi/full/10.1080/13658816.2015.1018266">http://www.tandfonline.com/doi/full/10.1080/13658816.2015.1018266</a> ⚠
Review	

- Related Tool
- Related Project
- Related Data
- Related Method
- Keywords

Volunteered Geographic Information (VGI) represents a growing source of potentially valuable data for many applications. It is still an emerging field and many different approaches can be used to take value from VGI, but also many pros and cons.

# VGI Knowledge Portal – Using the semantic links

## Spatext

From VGI Knowledge Portal

Type	Software
Related Project	
Related Data	<a href="#">FourSquare</a> , <a href="#">Instagram</a> , <a href="#">Panoramio</a> , <a href="#">Twitter</a> , <a href="#">YouTube</a> , <a href="#">WikiMapia</a>
Related Method	<a href="#">SMGI analytics</a> , <a href="#">Spatial-Temporal Textual Analysis</a>
Related Organization	<a href="#">Università degli Studi di Cagliari</a>
Related Person	
Related Event	
Related Publication	
Keywords	<a href="#">GIS</a> , <a href="#">Geodesign</a> , <a href="#">Social Media Geographic Information</a> , <a href="#">Social media</a> , <a href="#">Spatial analysis</a> , <a href="#">Spatial planning</a> , <a href="#">Volunteered Geographic Information</a> , <a href="#">User-generated content</a>
URL	
Review	

The SPATEXT suite is implemented as Python 2.7 add-in for the commercial software ESRI ArcGIS®, including a number of modules used to (1) retrieve SMGI from social networks (including Twitter, YouTube, Wikimapia, Instagram, Instagram Places, Flickr) and georeference data; and carry out analyses on the (3) spatial, (4) temporal, (5) textual and (6) user dimension of SMGI. In addition, the tool includes several clustering algorithms in order to enable user profiling, user movement analysis, user behavioral analysis, and a few others.

Categories: [VGI Domain](#) [Tool](#)

VGI Knowledge Portal Menu

**Special**

## Pages that link to "Spatext"

← [Spatext](#)

**What links here**

Page:

Namespace:   Invert selection

**Filters**

[Hide transclusions](#) | [Hide links](#) | [Hide redirects](#)

The following pages link to **Spatext**:

View (previous 50 | next 50) (20 | 50 | 100 | 250 | 500)

- [User-generated content](#) (← links | edit)
- [Spatial planning](#) (← links | edit)
- [Social media](#) (← links | edit)
- [Spatial analysis](#) (← links | edit)
- [GIS](#) (← links | edit)
- [Social Media Geographic Information: Why social is special when it goes spatial?](#) (← links | edit)
- [The Role of Social Media Geographic Information \(SMGI\) in Spatial Planning](#) (← links | edit)
- [Social Media Geographic Information](#) (← links | edit)
- [Volunteered Geographic Information](#) (← links | edit)
- [Geodesign](#) (← links | edit)
- [Pierangelo Massa](#) (← links | edit)
- [Roberta Floris](#) (← links | edit)

View (previous 50 | next 50) (20 | 50 | 100 | 250 | 500)



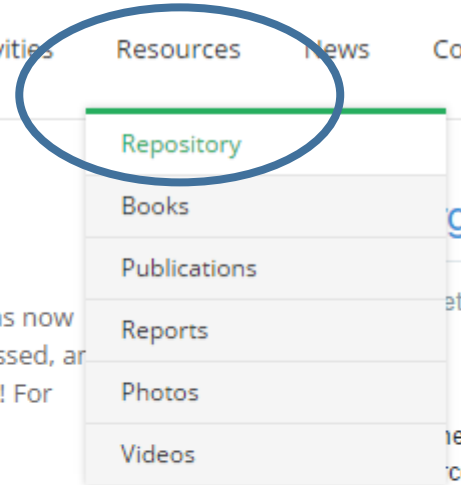
# Linked data – as it should be



# <http://vgibox.eu/repository>



The Action Working Groups Activities **Resources** News Coi



## COST Action IC1203

New: COST ENERGIC Datathon Challenge

As part of its on-going activities to investigate the benefits of VGI and geosocial media, COST ENERGIC has now started a datathon challenge that anyone can accept. All submissions (deadline: 31.07.2016) will be assessed, and two members of the winning team are invited to participate in the final COST Energic meeting in London! For details, please see <http://vgibox.eu/activities/datathon-challenge/>.

European Network Exploring Research into Geospatial Information Crowdsourcing: software and methodologies for harnessing geographic information from the crowd (ENERGIC)

New and unprecedented sources of geographic information have recently become available in the form of user-generated Web content. The integration and application of these sources, often termed volunteered geographic information (VGI), offers multidisciplinary scientists an



cultural comments & hu  
observations for contex  
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Embed View



