

SeTA (Semantic Text Analyser)

What can Semantic Analysis do for you?

Bertrand De Longueville - Text Mining and Analysis Competence Centre

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The challenge: information over-abundance

Much of the world's data is textual – in large document archives, in scientific papers, in scattered websites, in social media. The information contained in text is invaluable and yet hard to access.

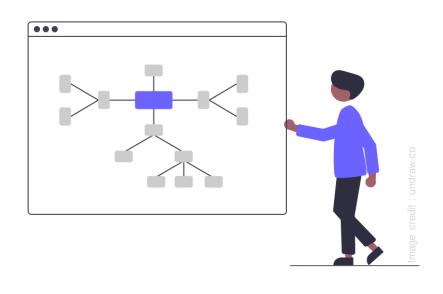
"We are drowning in information but starved for knowledge"

John Naisbitt





The opportunity: Semantic Analysis



Semantic Analysis allows converting raw information into knowledge, by creating "maps" of concepts expressed in thousands of documents.

"You shall know a word by the company it keeps" John Rupert Firth (1957)

"A bottle of tesguino is on the table. We make tesguino out of corn.
Tesguino makes you drunk.
Did you guess what I am talking about?"
Edward Nida (1975)



Semantic Text Analyser (SeTA) Mapping Policy and Science Documents





29K documents





publication/semantic-text-

analysis-tool-seta

JRC TECHNICAL REPORTS

Supporting analysts by applying advanced text

Semantic Text Analysis tool:

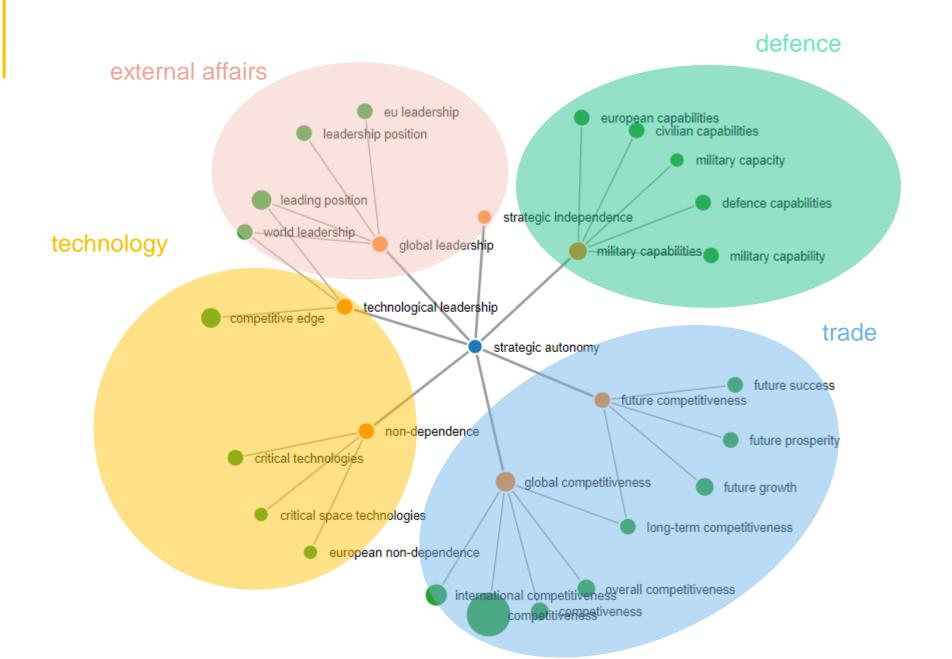
SeTA





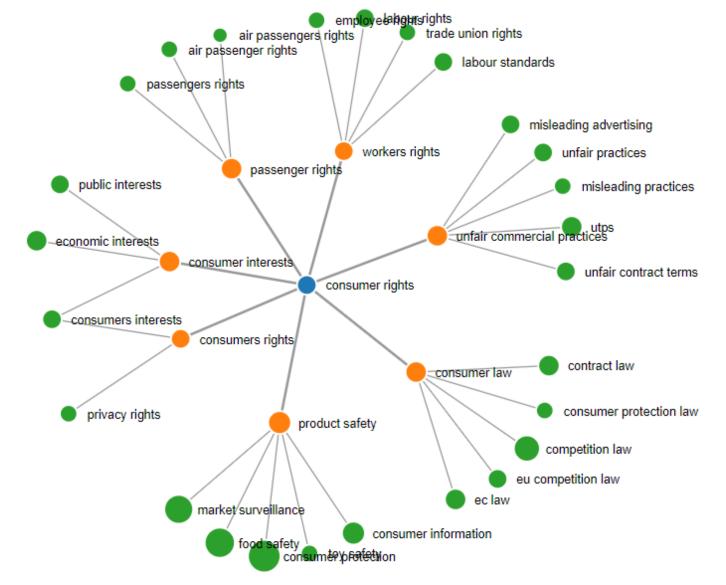
67K documents







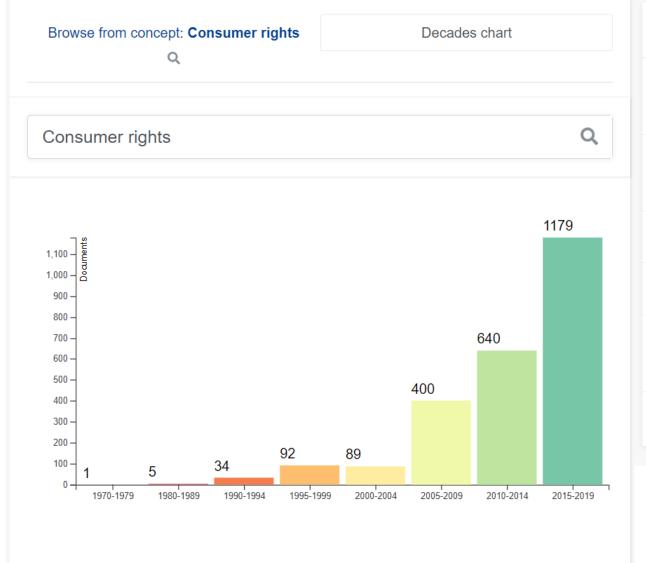
SeTA example: horizontal policy analysis (1/2)

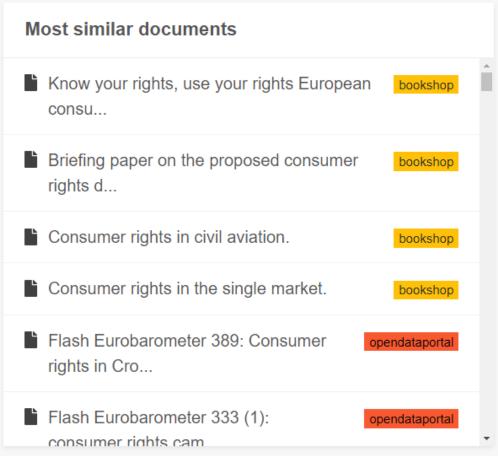


European

Commission

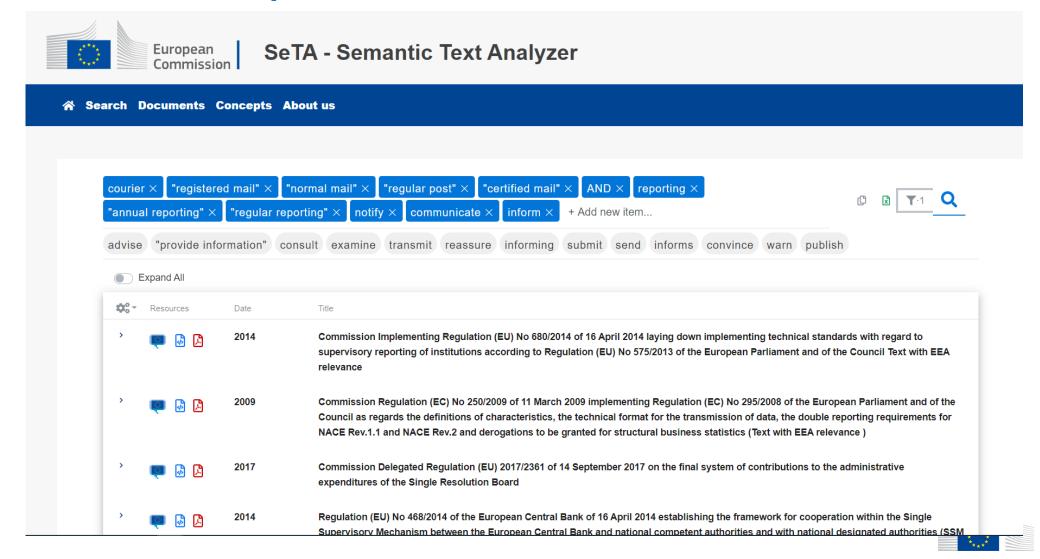
SeTA example: horizontal policy analysis (2/2)



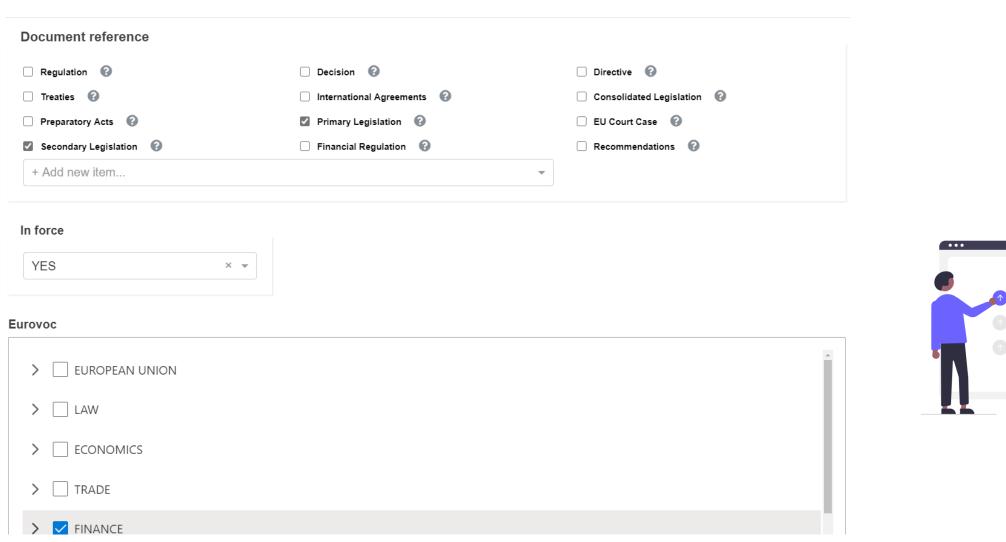




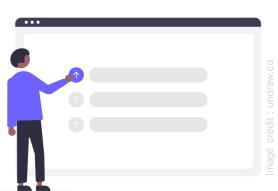
SeTA example: search for legislative modernization (1/3)



SeTA example: search for legislative modernization (2/3)



Advanced Search





SeTA example: search for legislative modernization (3/3)











2013

Commission Delegated Regulation (EU) No 1083/2013 of 28 August 2013 establishing rules related to the procedure for temporary withdrawal of tariff preferences and adoption of general safeguard measures under Regulation (EU) No 978/2012 of the European Parliament and the Council applying a scheme of generalised tariff preferences

Document reference: Delegated regulation

In force: true

Source: eurlex

Collection: Legal acts

Subject Type: Preferential systems

Date: 2013-08-28

Eurovoc concepts: information and information processing, tariff policy, European Union law,

trade policy, tariff policy

Text snippets:

with the accompanying documents shall be submitted to the Commission's mail reception service: Central mail service (Courrier central) Bâtiment DAV1 Avenue du Bourget 1/Bourgetlaan 1 1140 Bruxelles/Brussel BELGIQUE/BELGIË The request shall be deemed to have been lodged on the first working day following its delivery to the Commission by

registered

mail or the issuing of an acknowledgement of receipt by the Commission

be verified during verification visits and of any information which needs to be p

As soon as the agreement of the economic operators concerned has been obtained the Commission should notify the authorities of the exporting country of the names and addresses of the ecc









2014

Commission Implementing Regulation (EU) No 938/2014 of 2 September 2014 initiating an investigation concerning the possible circumvention of anti-dumping measures imposed by Council Regulation (EU) No 502/2013 on imports of bicycles originating in the People's Republic of China by imports of bicycles consigned from Cambodia, Pakistan and the Philippines, whether declared as originating in Cambodia, Pakistan and the Philippines or not, and making such imports subject to registration

Document reference: Implementing regulation

Collection: Legal acts Subject Type: Dumping

Date: 2014-09-02

Eurovoc concepts: Asia and Oceania, economic geography, economic geography, Asia and Oceania trade, land transport, economic geography, Asia and Oceania, European Union law, competition

international trade. Asia and Oceania, economic geography

Text snippets:

(5) Interested parties are invited to make all submissions and requests by e-mail including scanned powers of attorney and certification sheets, with the exception of voluminous replies which shall be submitted on a CD-ROM or DVD by hand or by

In force: true

Source: eurlex

registered mail



Once contact details are provided, the Commission will communicate

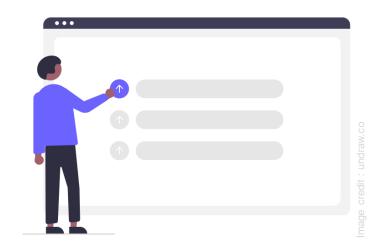
with interested parties by e-mail only, unless they explicitly request to receive all documents from the Commission by another means of communication or unless the nature of the document to be sent requires the use of a registered mail





SeTA Next Steps

- SeTA as a Policy Analysis tool: evolve the interface with requirements from European Commission Colleagues
- SeTA as a Knowledge Discovery platform: refactor the ingestion pipeline so that in can be easily deployed
- Further research on Semantic Analysis: multilingual models, sentence/paragraph-level similarity, ...





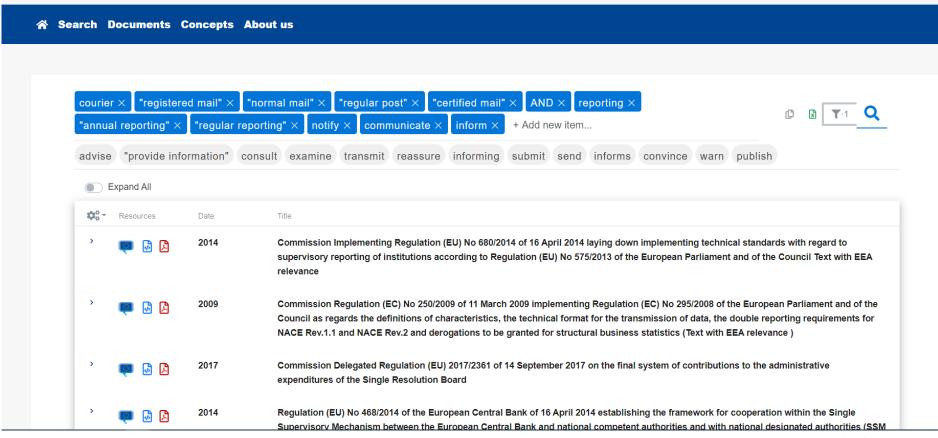
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SeTA Demo



SeTA - Semantic Text Analyzer







Reserve slides (in case of no demo)

