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The Power of Open Data

Sharing clean energy knowledge via (Linked) Open Data and controlled vocabularies (W3C Open Data on the Web, 04/2013)

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„New website launched“

Photo by: <http://www.sxc.hu/photo/949777>

„New portal launched“

„New one-stop-shop launched“

„New knowledge portal launched“

The „portal proliferation syndrom“



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A complex, multi-colored network graph representing the Internet. The graph consists of numerous nodes (represented by small, bright, multi-colored stars) connected by a dense web of thin, multi-colored lines. The colors used include blue, green, red, and purple. A large, white, downward-pointing arrow is positioned in the upper left quadrant, pointing towards a specific node. To the right of the arrow, the text "You are here" is written in a white, sans-serif font.

You are here

Creating Data Silos



Photo by: <http://www.sxc.hu/photo/1042408>

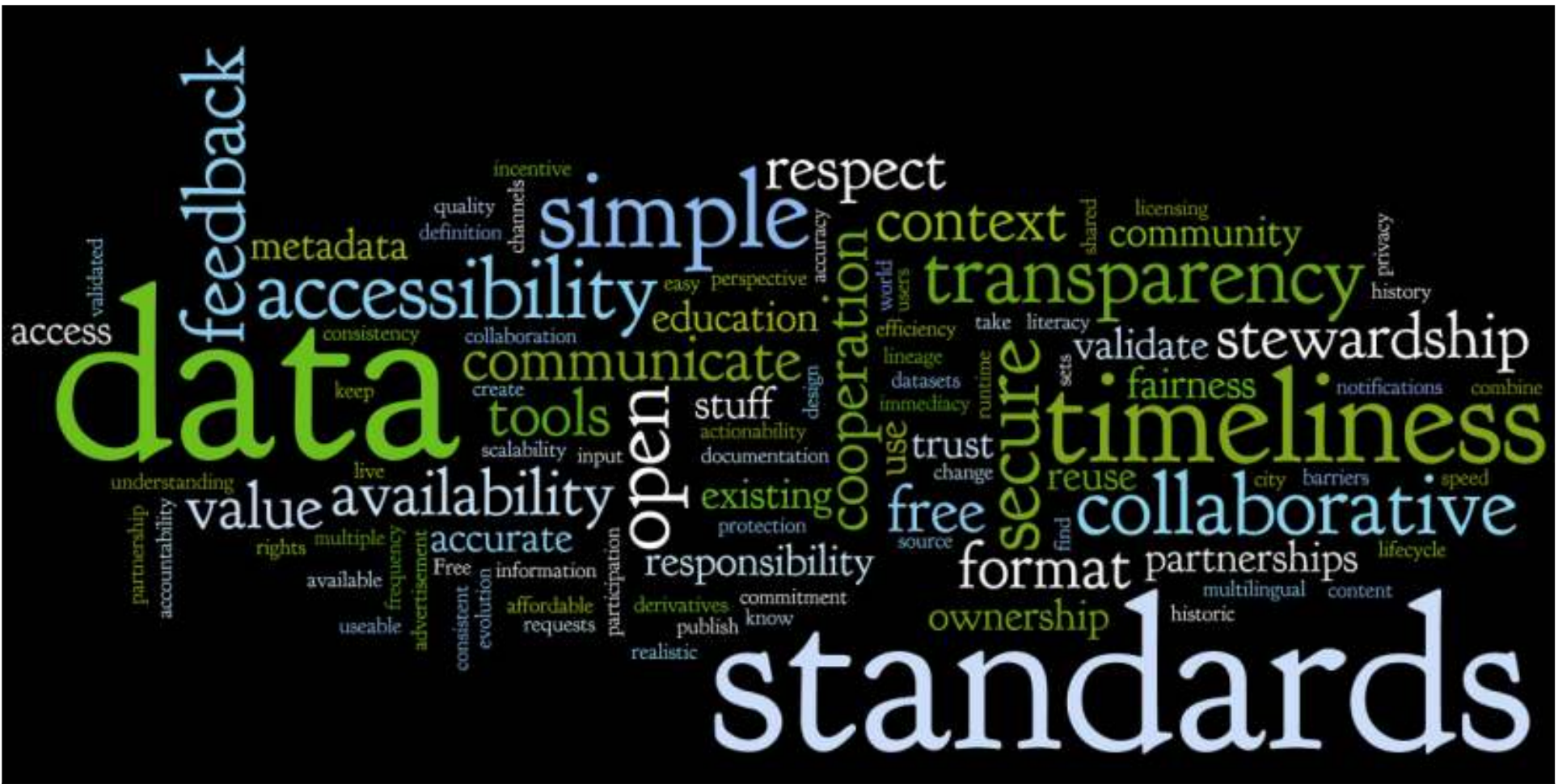
It's hard to stop this ...



Photo by: http://www.flickr.com/photos/d_oracle/

... but we can help to make the best out of it





First step: We need a simple way to break the silos and link information in a standardised way



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Can we support that with an automated system ?



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The Internet map

About Blog

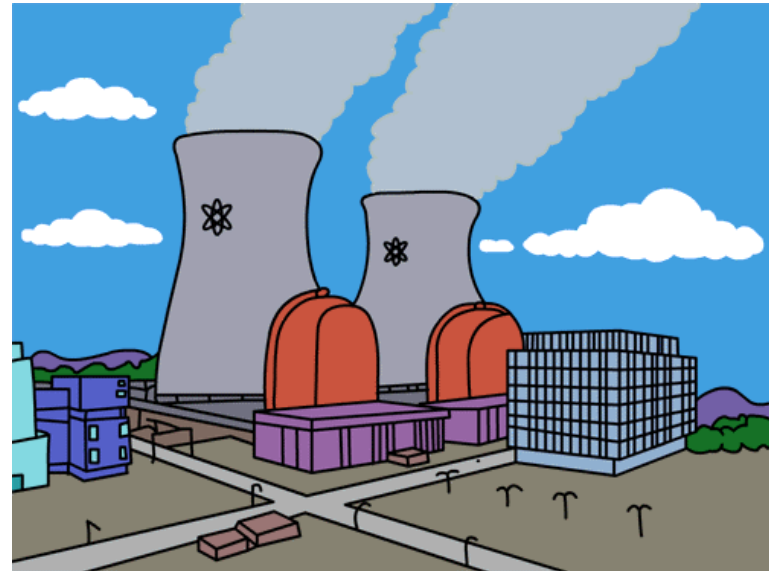
Site address or country Find

Document tagged: photovoltaic

Same document tagged: PV

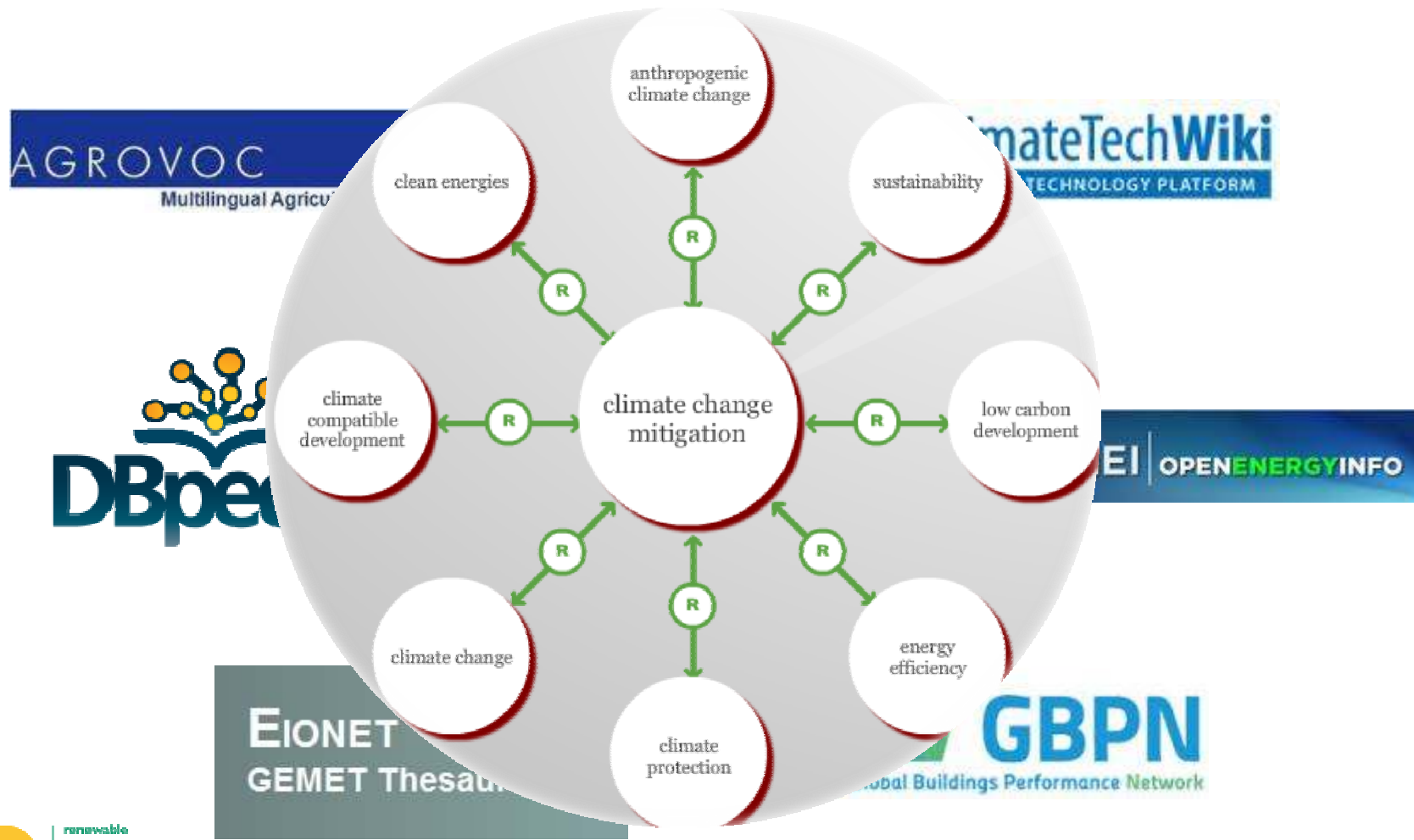
The image shows a screenshot of the 'The Internet map' website. At the top left, the title 'The Internet map' is displayed. To its right are links for 'About' and 'Blog'. In the top right corner, there are social media icons for Twitter, LinkedIn, Facebook, and a plus sign, along with a notification icon showing '11'. Below the title is a search bar with the placeholder text 'Site address or country' and a blue 'Find' button. The main area of the page is a dark, starry background representing the internet map, with numerous small, colorful dots (nodes) and some larger, more prominent ones. Two speech bubbles are overlaid on the map: a yellow one on the left containing the text 'Document tagged: photovoltaic' and a grey one on the right containing 'Same document tagged: PV'. On the left side of the map, there is a vertical scale bar with a small square at the top and a larger square at the bottom.

Dealing with disambiguation ...



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Utilising the power of Linked Open Data



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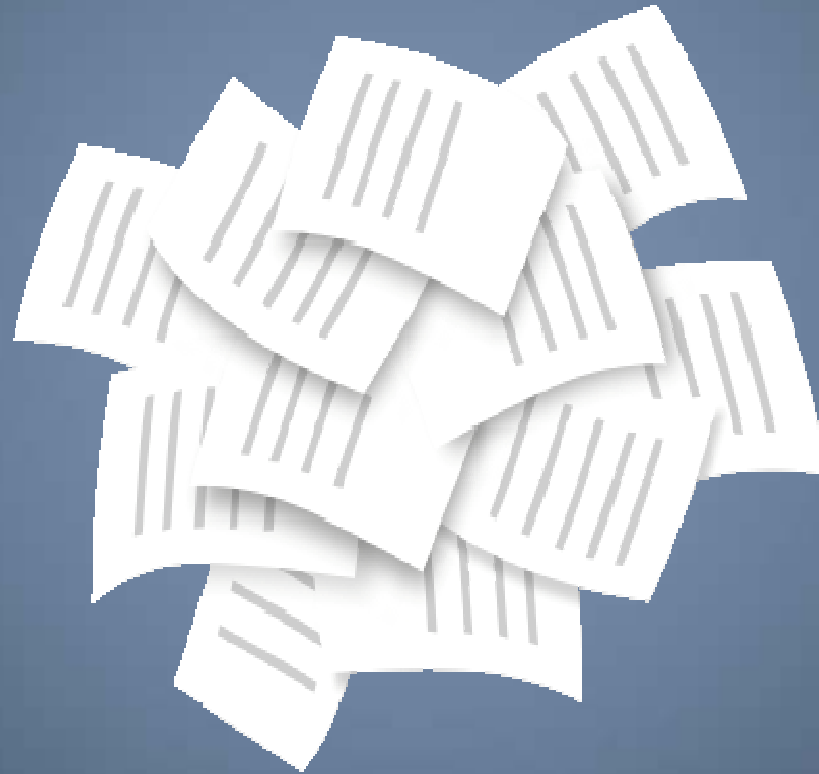
A new tool to help with consistent tagging:

The reegle tagging API (api.reegle.info)



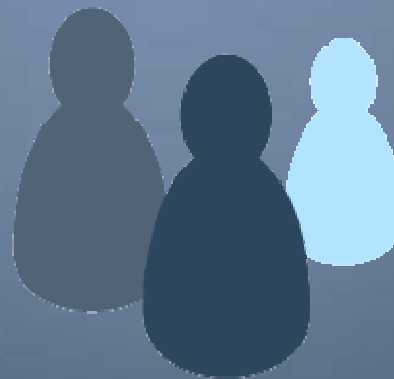
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Unstructured Data



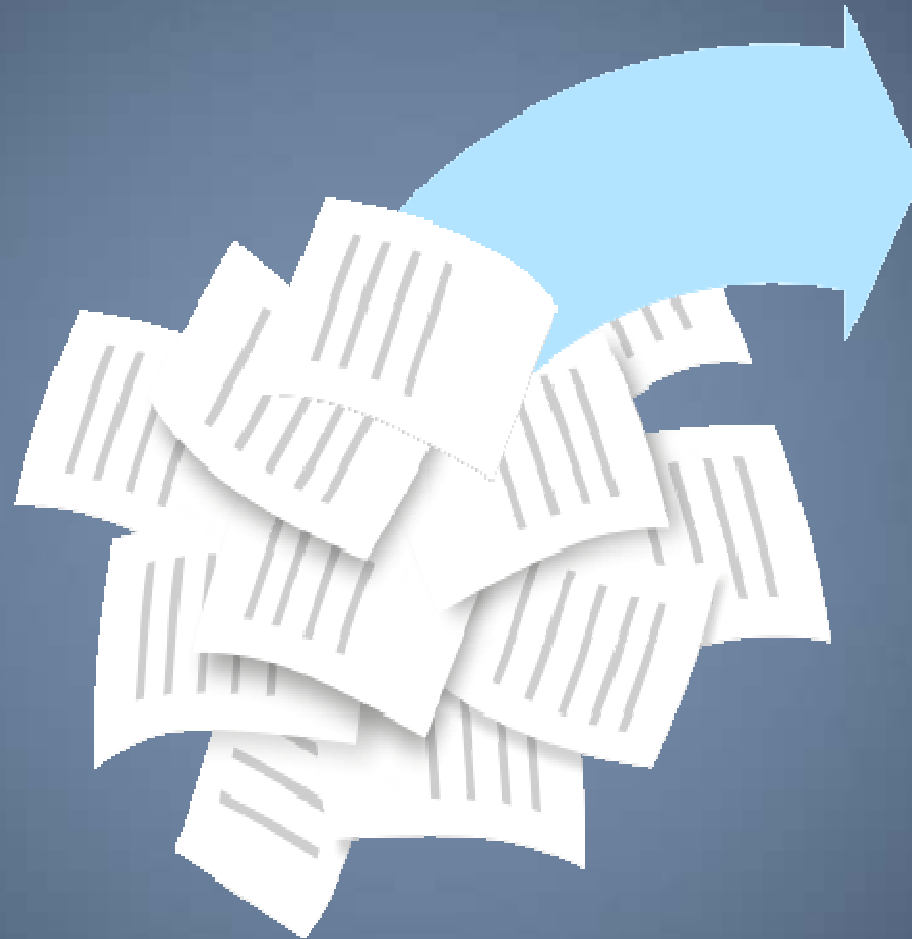
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reegle tagging API turns data into knowledge



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A file is sent ...



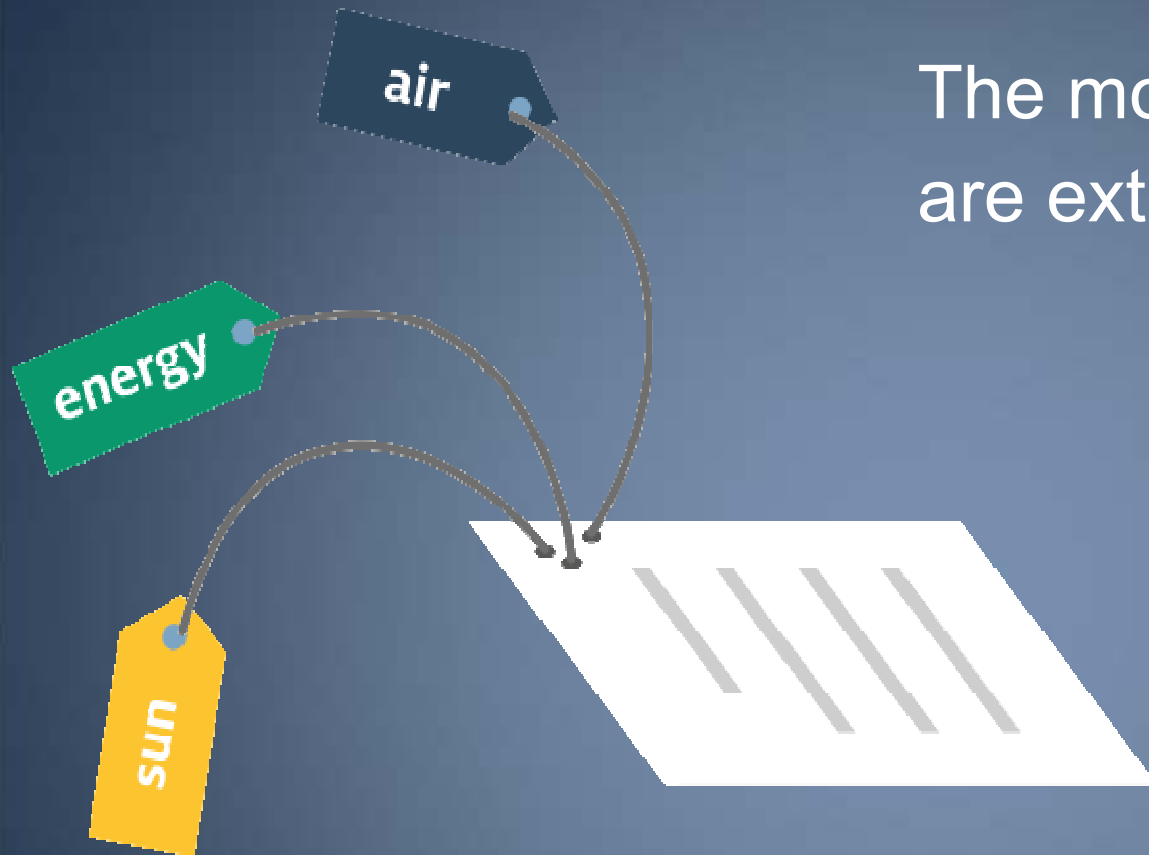
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... to the reeple tagging API,
where its content is analyzed.



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The most relevant terms
are extracted ...



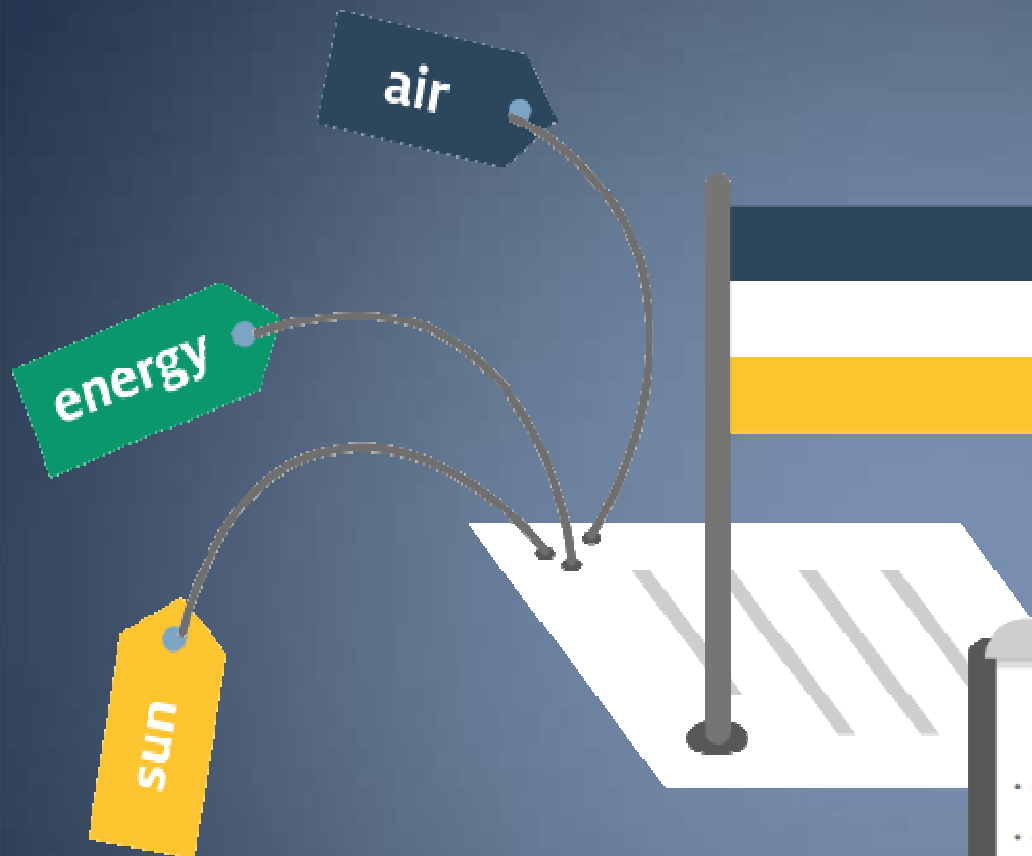
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... as well as
geographic locations



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For the most relevant extractions contextual information is provided based on the thesaurus

Wind	Solar	Water
· definition	· definition	· definition
· explanation	· explanation	· explanation
· synonyms	· synonyms	· synonyms



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Tagging API Example

The screenshot shows a blog post titled "SUSTAINABLE ENERGY POLICY DEMANDS SUSTAINABLE OPEN DATA" by Pierre Chrzanowski. The article features a photo of a highway with wind turbines in the background. An API tagging interface is overlaid on the right side of the page, displaying a list of extracted concepts and their scores. A detailed tooltip for the "energy policies" concept is also visible, listing synonyms, associated top concepts, and related terms.

Concept	Score
energy policies	High
energy policy	Medium
climate governance	Low
climate change levy	Low
extractive policies	Low
cogeneration directives	Low
renewable energy targets	Low

energy policies

Synonyms:

- energy policy

Associated Top Concepts:

- climate governance

Containing Concept Schemes:

- Climate Compatible Development Thesaurus

Broader Transitive Concepts:

- climate governance

Related:

- climate governance
- forestry policies
- climate change levy
- extractive policies
- cogeneration directives
- renewable energy targets

URI:
<http://reegle.info/glossary/1219>

Have a look on <http://api.reegle.info> – using the API is free!



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Bundesministerium für Umwelt, Naturschutz und Reaktorsicherheit



Climate & Development Knowledge Network



reegle tagging API funded by

Any questions or interested in our work?

Try www.reegle.info and api.reegle.info



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