



renewable
energy
& energy
efficiency
partnership

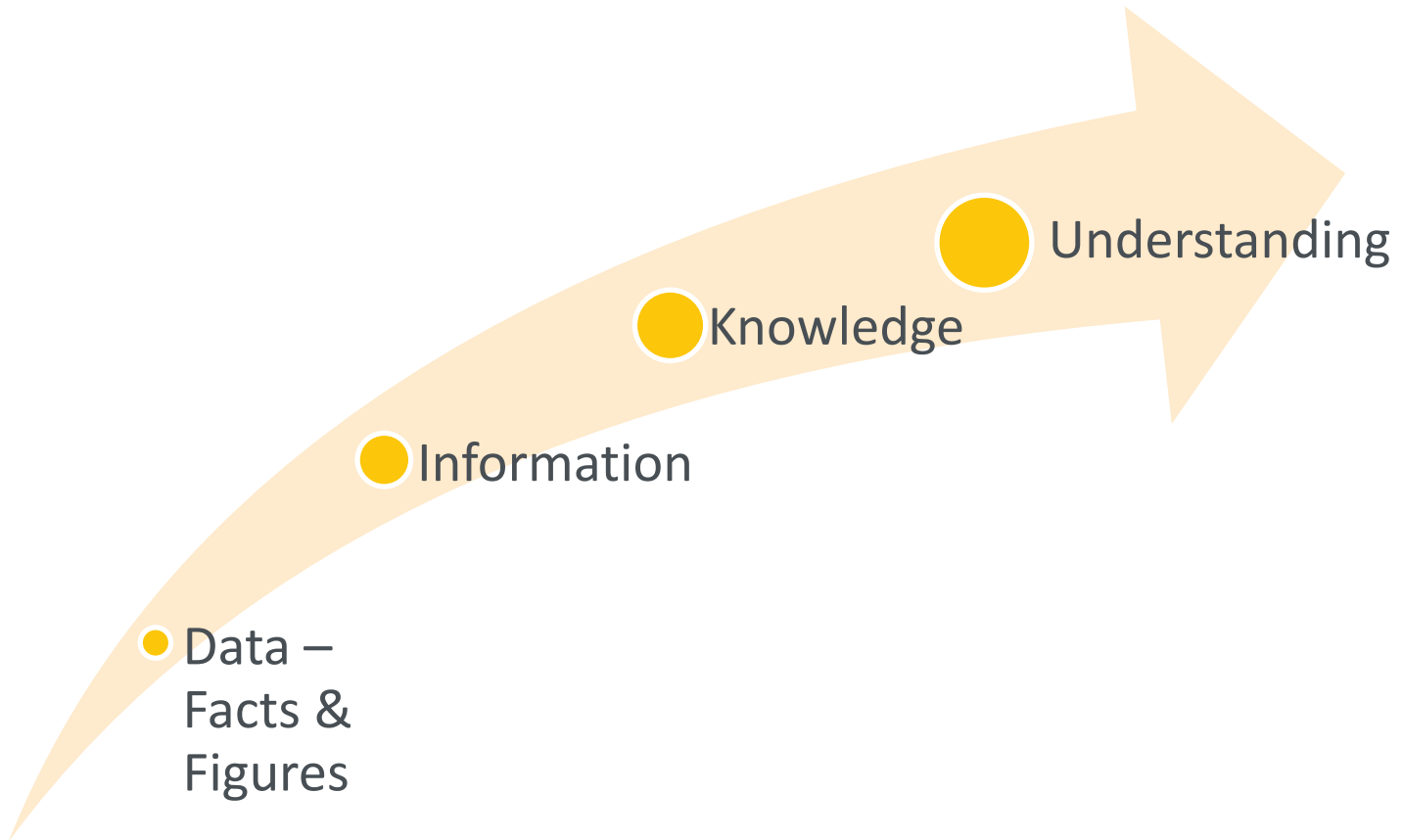
Linked open data and reegle Tagging API

GGGS 2013

Martin Hiller, REEEP

Every day, we create 2.5 quintillion bytes of data —
2.500.000.000.000.000.000 b'd today
has been created in the last two years alone.

From data to understanding





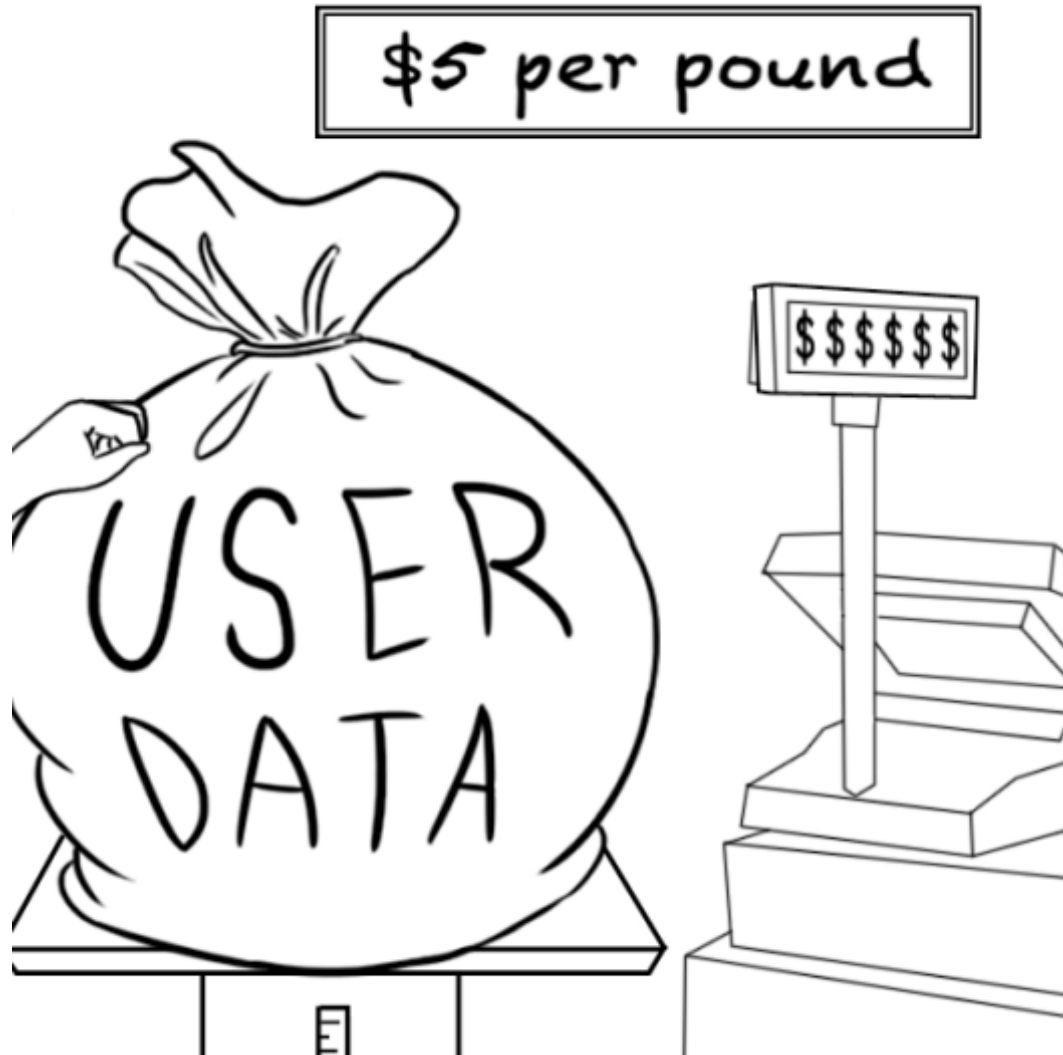
Lots of Data is not enough

Data kept in silos ...



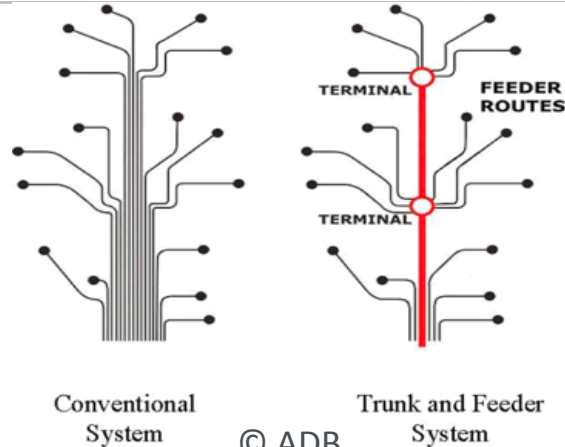
Comic from: <http://www.floridatoday.com/section/COLUMNISTS0204/Jeff-Parker-Cartoons>

... or part of business models



Is this relevant for Clean Energy?

Low emission transportation in Jakarta



Issue: Fuel inefficient means of transport such as private cars

Solution: “Trunk/feeder” transportation system

Impact: Saves 130 mio l. petrol and 35 mio l. diesel annually

Saves 1,8 mio tonnes CO2 reduction over 10 years

This project would benefit from open data

- Forced to do most of their research on their own
- Geographic/demographic data of the city
- Data are available but not opened up by the government
- Some data are open but not in the right format

Open Data can help us to ...

- Avoid replication
- Focus on own expertise
- Keep data maintenance to a minimum
- Improve project planning
- Facilitate business support and buy-in

Over 50 governments, World Bank, FAO, EU,...

Can data be linked?

Yes,
just as we link webpages!

Linked Open Data



Energy Profile Germany

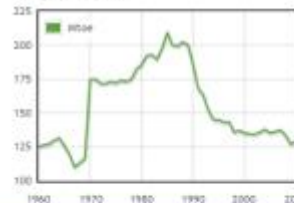
Germany, officially the Federal Republic of Germany, is a federal parliamentary republic in Europe. The country consists of sixteen states while the capital and largest city is Berlin. It covers an area of 357,021 km and has a largely temperate seasonal climate. With 81.8 million inhabitants, it is the most populous member state and the largest economy in the European Union. It is one of the major political powers of the European continent and a technological leader in many fields. A region named Germania, inhabited by several Germanic peoples, was documented before AD 100. During the Migration Age, the Germanic tribes expanded southward, and established successor kingdoms throughout much of Europe. Beginning in the 10th century, German territories formed a central part of the Holy Roman Empire of the German Nation. During the 16th century, northern German regions became the centre of the Protestant Reformation while southern and western parts remained dominated by Roman Catholic denominations, with the two factions clashing in the Thirty Years' War. Occupied during the Napoleonic ... [read more](#)

Source: [dbpedia](#)

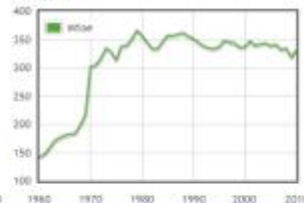
Key Statistic Charts (26)

Energy production and use

Energy production



Energy use



Legal sources on support schemes and grid issues

Project Outputs (28)

Stakeholders (104)

Source: [google Actors](#)

- ⇒ 500 PPM GmbH (500 PPM GmbH)
- ⇒ Abo Wind
- ⇒ AeroCraft Energietec
- ⇒ Aircon International
- ⇒ Aufwind
- ⇒ BioKraftstoff
- ⇒ BioStream Energie System

Capital	Berlin
ISO Code	DE, DEU
Area	357,021 km ²
Population	81.799.600 (2010)
GDP, PPP	3.044.241.583.883,- current international \$ (2010)

Events

- 23.04.2012
[Hannover Messe Industrial
GreenSec](#)
- 15.07.2012
[Sustainable Energy Finance
Summer Academy](#)

reep

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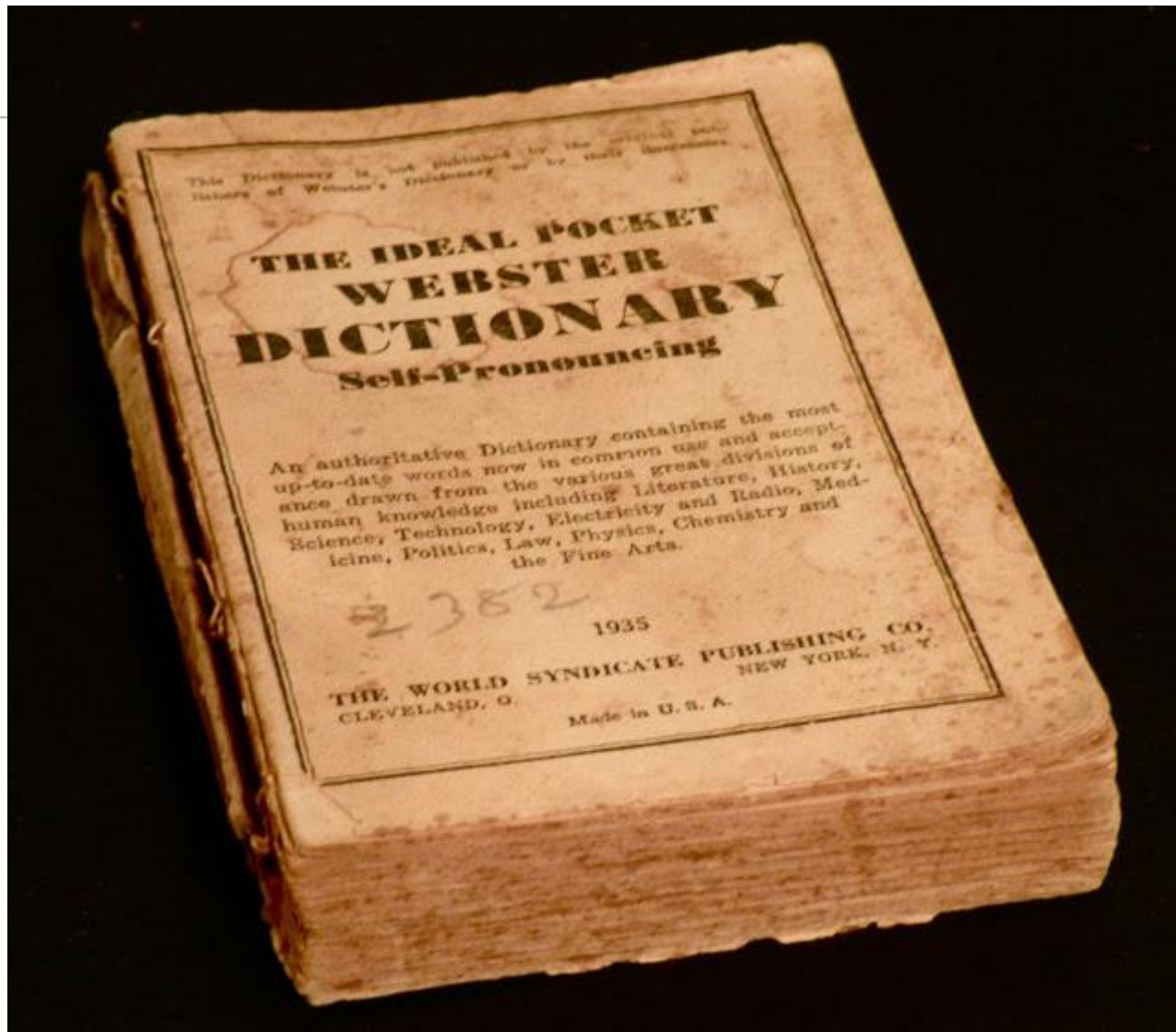
<http://reegle.info/countries>





Ho to understand each other:

- **Increase consistency in key words** when tagging climate and energy resources
- **Ensure consistency of message** to avoid confusion using terms in different ways
- **Standardize** the used categories and tags

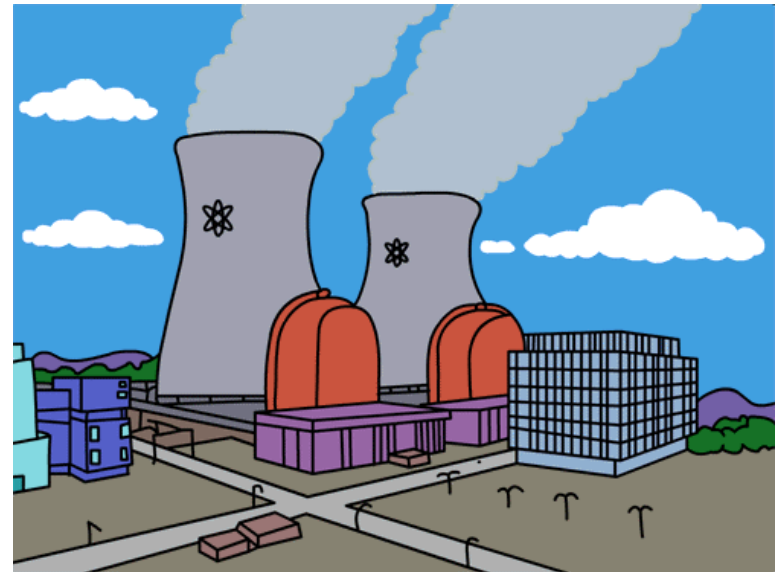


[Find](#)

Document
tagged:
photovoltaic

Document
tagged: PV

Dealing with disambiguation ...



Could we make
key word selection
automatic?

reegle Tagging API



The reegle Thesaurus

Renewable Energy

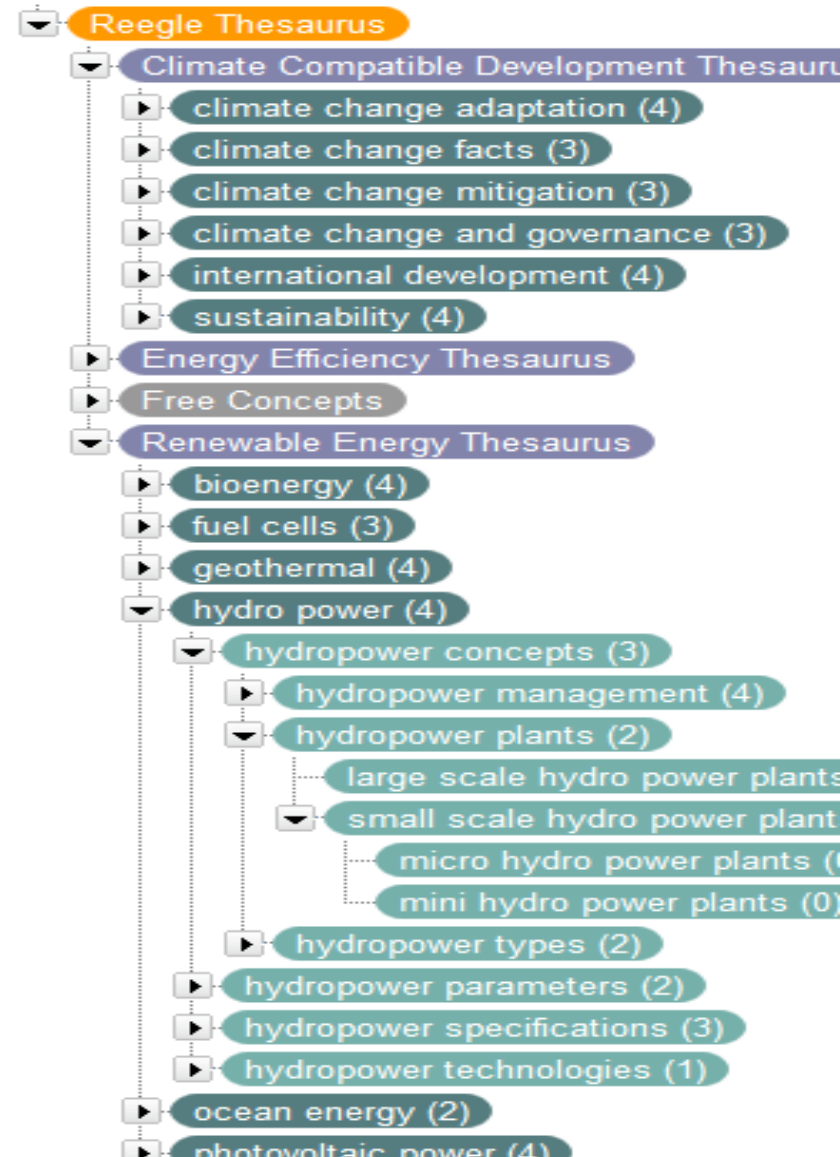
Energy Efficiency

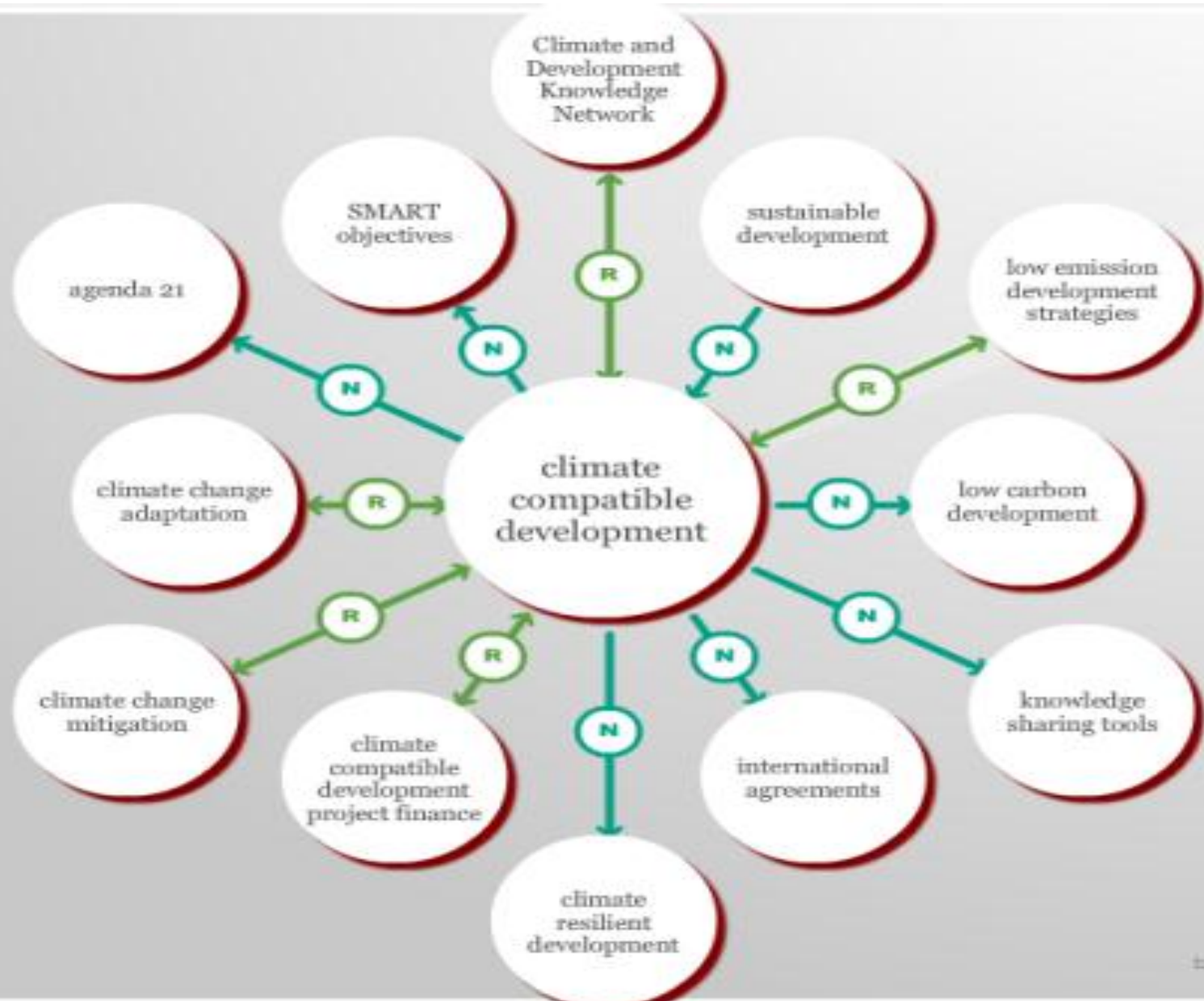
REDD

Green Growth

Climate Compatible Development

> 2.000 terms - 5 languages





Unstructured Data



A file is sent ...



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

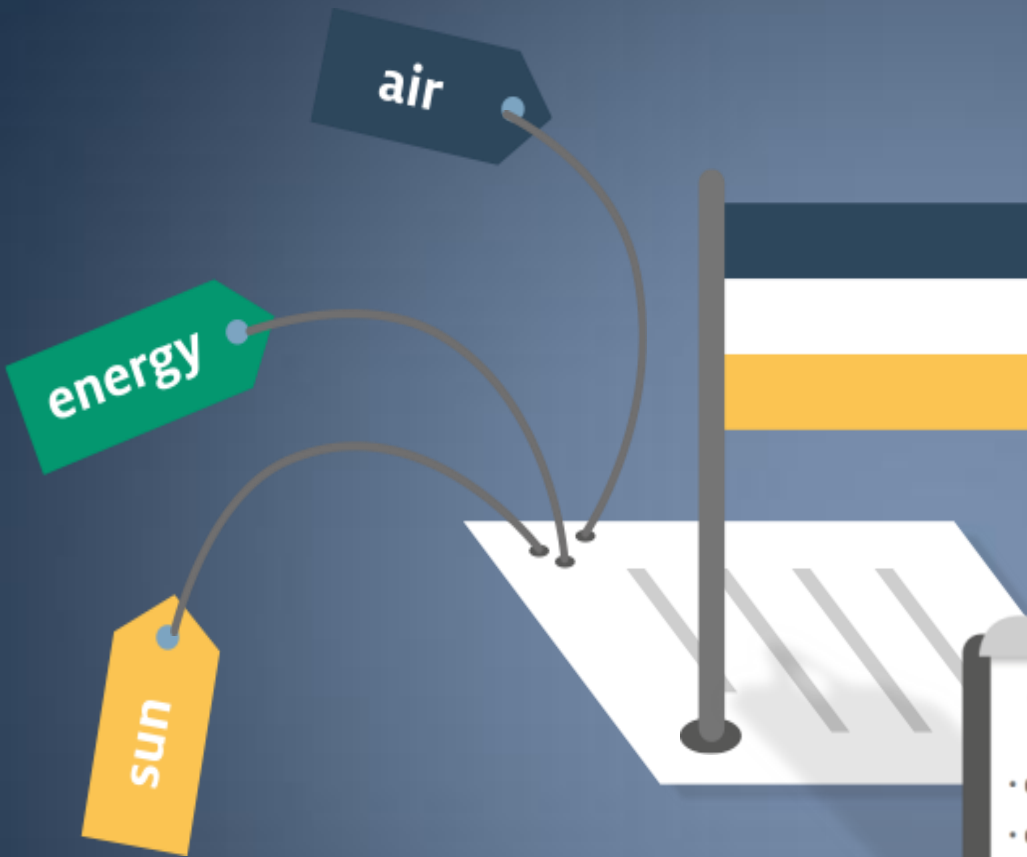


The most relevant terms
are extracted ...

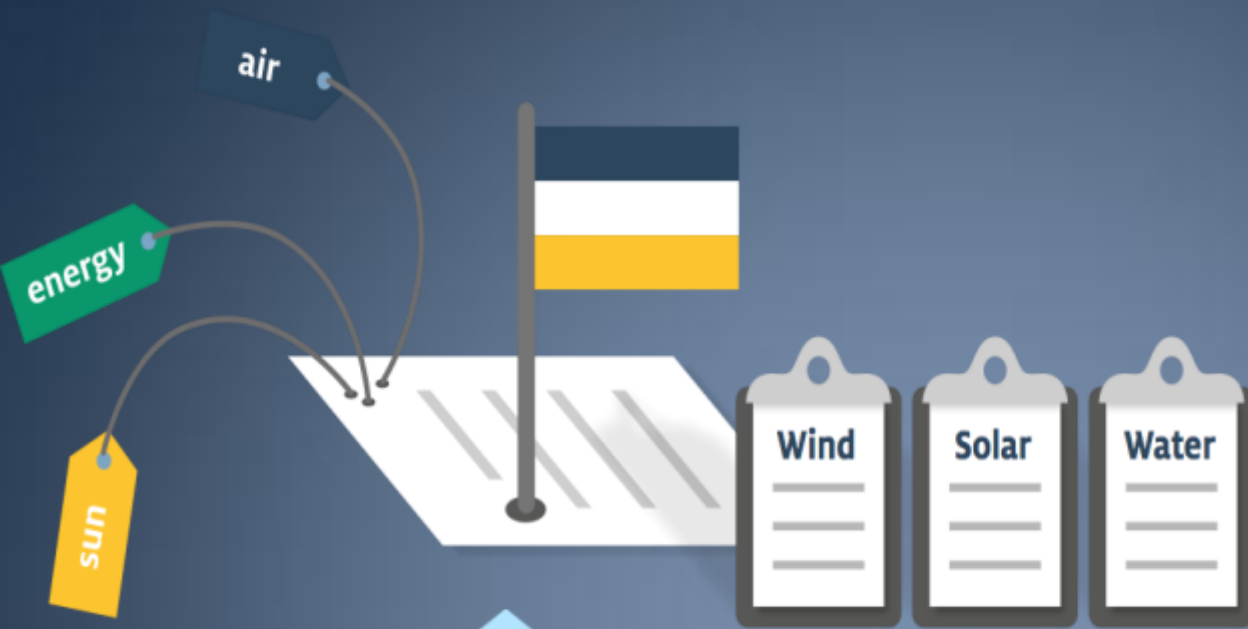


... as well as
geographic locations





Contextual information is provided based on the thesaurus



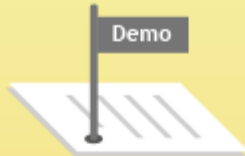
Content Pool – find related articles



reegle tagging API turns data into knowledge



3 levels of services – in 5 languages



Demo

- ✓ 1 document or sample text
- ✓ No technical implementation required
- ✓ See results online

Try the demo



Upload and Tag

- ✓ Up to 500 documents
- ✓ No technical implementation required
- ✓ Export and download results as CSV files

Register



Implement the API

- ✓ Use it on your website or app
- ✓ Technical implementation required
- ✓ Receive tags to structure your content
- ✓ Benefit from Content Pool features such as suggestion of related documents from other content providers

Register

The reegle tagging API is funded by:



Bundesministerium
für Umwelt, Naturschutz
und Reaktorsicherheit



Climate & Development
Knowledge Network



renewable
energy
& energy
efficiency
partnership



Essential component to develop the clean energy market



renewable
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& energy
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Thank you!

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We asked REEEP's project implementers ...

