

Climate Tagger Introduction and Opportunities

DATA4GOOD

June 4th, 2019

Vienna

Denise Recheis / REEEP

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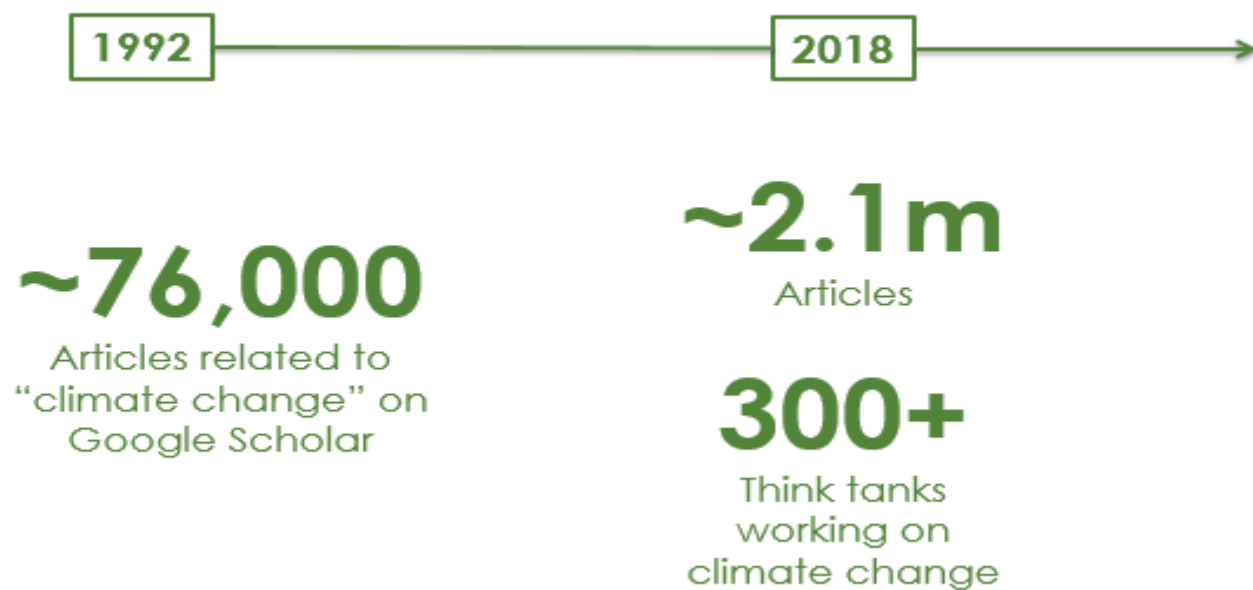
REEEP's vision and mission

- ▶ All people, regardless of income, **have access to affordable low carbon energy services** provided by various profitable players in a sustainable market
- ▶ Advance **market readiness for clean energy and energy access** in developing countries, especially for the benefit of the most vulnerable populations

REEEP invests primarily in disruptive approaches led by small- and medium-sized enterprise (SME) players in low- and middle-income countries, facilitating market- and community-led energy transitions.

- ▶ **Power Africa: Beyond the Grid Fund for Africa (BGFA)** Initially in Zambia, where BGFA is on track to bring modern energy services to 1.6 million people by 2021, expanded programme targets three to five additional countries in Africa.
- ▶ **The Private Financing Advisory Network (PFAN)** is a global network of climate and clean energy financing experts. PFAN provides free business coaching to projects, increasing the chances of attracting investment; and works on investor outreach.

CLIMATE KNOWLEDGE: THE INFORMATION EXPLOSION

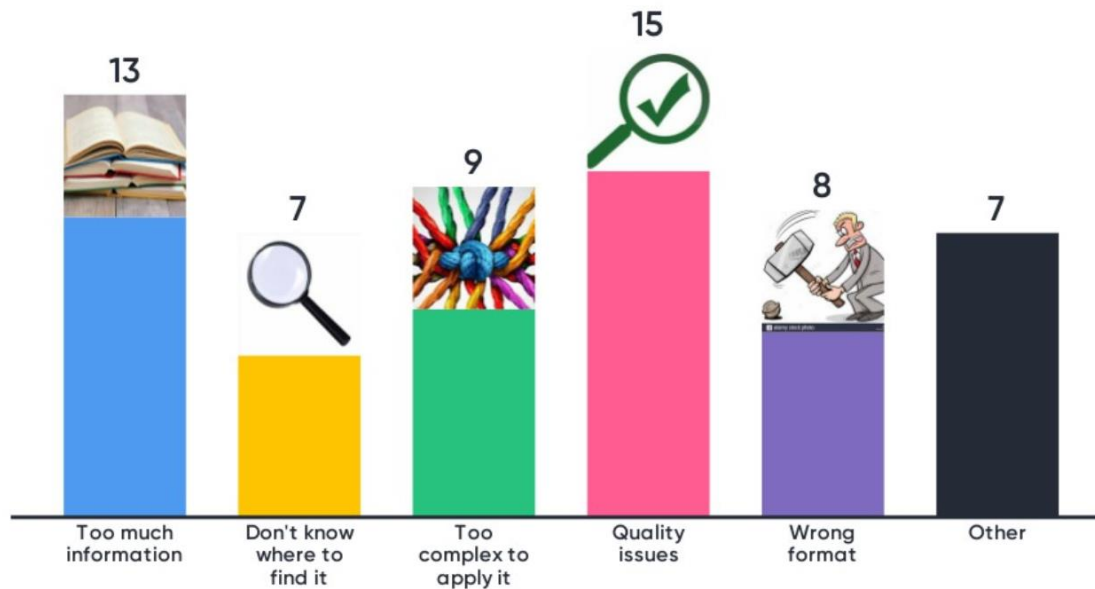


The internet provides a vast amount of resources about topics related to climate and energy. It can be overwhelming to search for information, and difficult to decide what is a trustworthy source.

CHALLENGES FOR USERS

What is your biggest information challenge?

Mentimeter



Results from audience – ECCA 19, May 28th

OVERCOMING THOSE CHALLENGES



Understanding
user
needs



Signposting
the right
platforms



Connecting
climate
websites



Learning
from each
other

Publishing information in the WWW is not enough. To increase climate knowledge among the various stakeholders, we need to

- Better understand **user needs**
- **Signpost** to the right platforms where relevant information can be found
- **Connect climate websites** and break down silos
- **Learn** for each other

CONSISTENCY IS KEY!

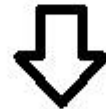
Based on our experience we know:

- ▶ Globally, Climate, Development and Energy professionals and organisations use **different terminology to describe the same things** or use **same names for different things** → connection and understanding is lost
- ▶ Need to **increase consistency in language + connections / links** to see the full picture
- ▶ First step is **standardized tagging**

<https://www.climatetagger.net/>



plant?



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THE CLIMATE TAGGER APPROACH

- ▶ Understanding and mapping a topic– developing a **standardized, comprehensive taxonomy**
- ▶ Creating a tool based on a controlled vocabulary to promote **consistency in language** used (Climate Tagger)
- ▶ Break down silos - **connect resources across platforms, enrich content with metadata, and create strong links** across related sectors (e.g. CCA and DRR)



ClimateTagger



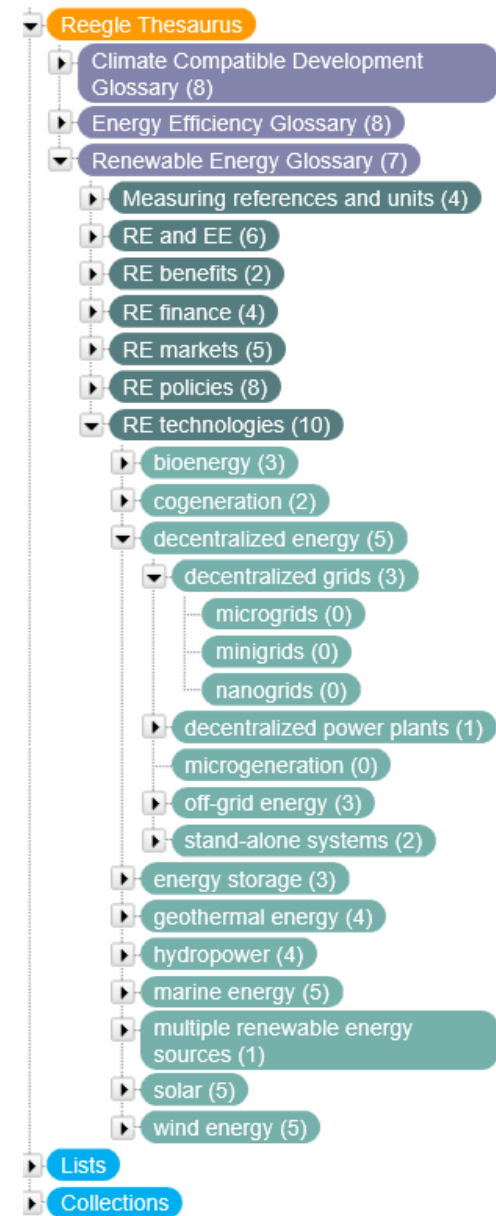
Climate Tagger is a suite of software tools to help organizations active in the climate and development streamline and catalogue their data and information resources.



Climate Tagger contact info:
www.climatetagger.net/contact

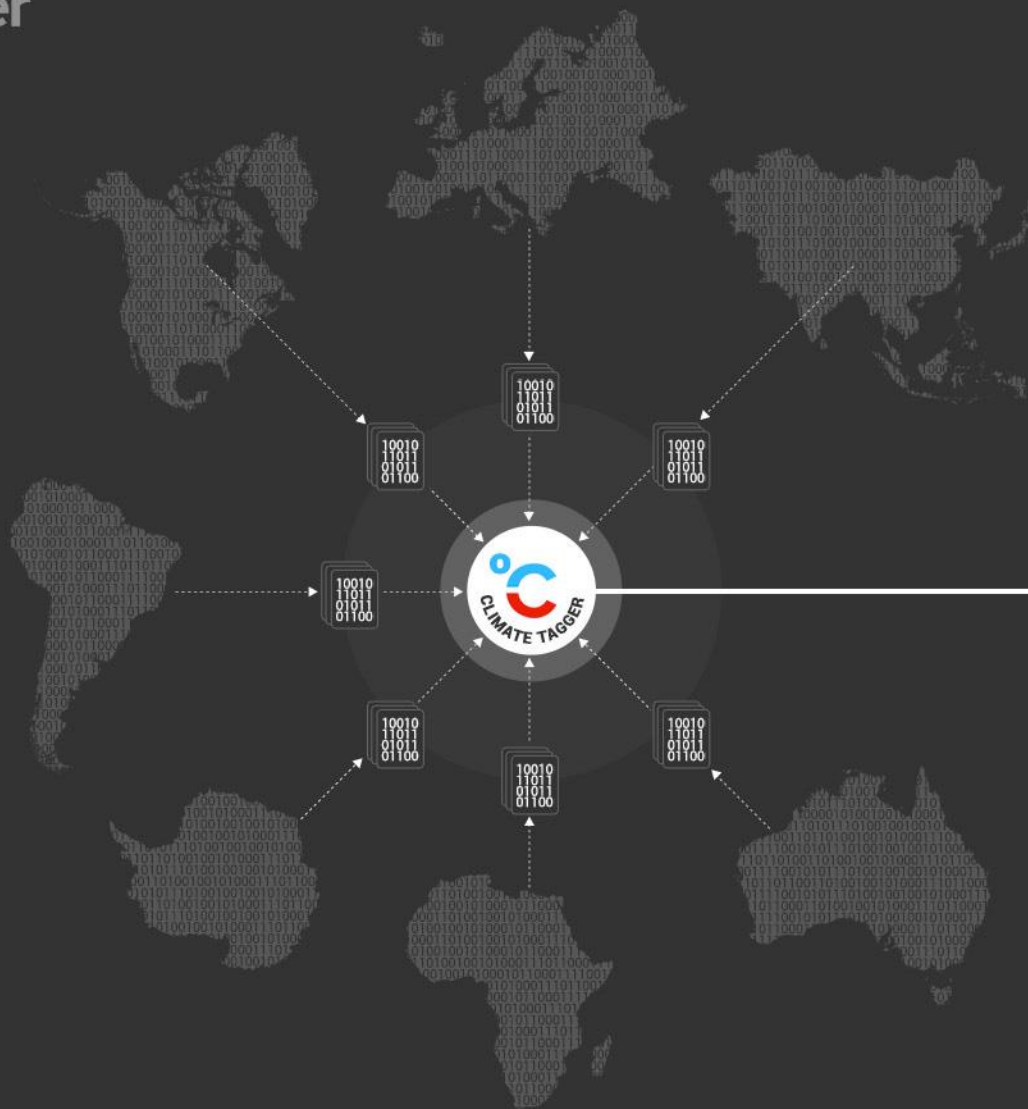
CLIMATE TAGGER TAXONOMY

- ▶ **LOD taxonomy**
- ▶ Synonyms, abbreviation, acronyms recognized across **5 languages**
- ▶ Vertical and hierarchical **relationships between concepts**
- ▶ Includes links to **open data definitions** and original definitions
- ▶ ~ 5000 concepts, covers RE, EE, CCA



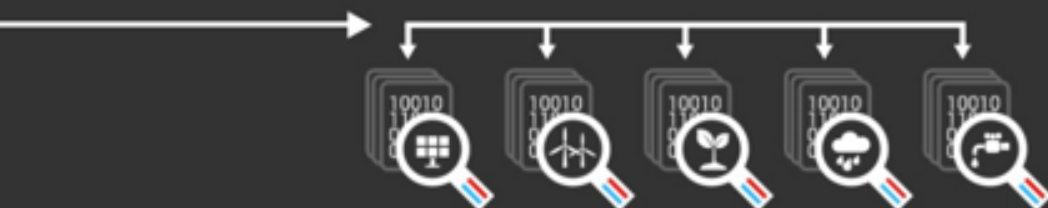
STEP 1:

Climate
Tagger is
installed on
knowledge
platforms



STEP 2:

Climate Tagger scans unstructured information and identifies relevant terms and concepts ...



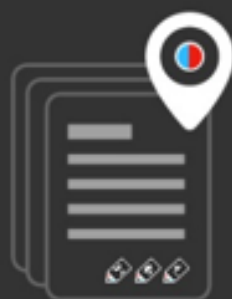
... and “tags” content based on the expansive Climate Tagger Thesaurus



Added functionality via the enhanced Climate Tagger API

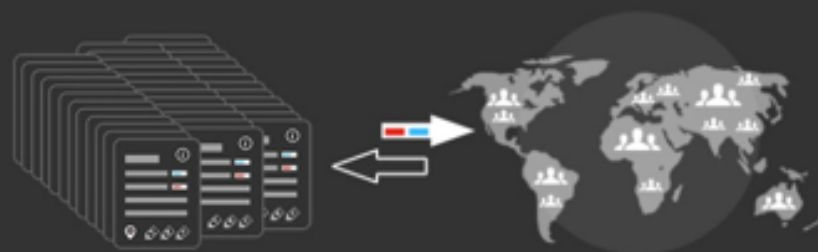
Geo-Tagging

Connecting content to geographic locations



Enriching Content

Automatically adding related information (such as definitions) to content



Content Pool

Connecting data and information related documents from other Climate Tagger users.

CLIMATE TAGGER RESULTS (DEMO)


[back](#)

Extracted Tags

✓ Extracted Concepts

Concept	Score
energy	
international development	
United Nations Industrial Development Organization	
United Nations	
renewable energies	
promotions	
energy efficiency	
sustainable development	
capacity building	
energy access	
energy savings	
projects	
poverty reduction	
poverty	
trade	

Locations

Country	Location
	Lagos (City)

Please note the Climate Tagger API's algorithm is designed to differentiate between a geographical location within the body of the text and the use of words that could be mistaken as a geographical location, but is not due to context, such as Paris Hilton. Due to this, stand alone geographical locations within a table for example and non-geographical words due to the context of the sentence will not be displayed in the above results section.

Extracted Terms

Term	Score
nations industrial development organization	
industrial development organization	
behalf of the state	

Concepts

A concept is a recognized phrase from the [Climate Thesaurus](#). Semantic information is available for each extracted concept. Via the API such additional information includes synonyms, related concepts, and higher level concepts. More data still can be requested through

Locations

Locations can be either cities or countries which come along with latitude / longitude information.

Terms

Terms are plain keywords extracted using statistical algorithms such as frequency and position in a text.

Concept	Score
energy	
international development	
United Nations Industrial Development Organization	
United Nations	
renewable energies	
promotions	
energy efficiency	
sustainable development	

Synonyms:

- alternative power
- unconventional energies
- renewables
- alternative energies
- renewable energy systems
- non-conventional energies

Associated Top Concepts:

- climate governance
- climate change mitigation
- RE policies

Containing Concept Schemes:

- Climate Compatible Development Glossary
- Renewable Energy Glossary

Broader Transitive Concepts:

- climate governance
- climate change mitigation
- RE policies

Related:

- energy
- conventional energy
- sustainability

URI:

<http://reegle.info/glossary/5>

promotions	
energy efficiency	
sustainable development	

<http://api.climatetagger.net/demo>

USE CASES FOR CLIMATE TAGGER

The thesaurus can be used for:

- Explaining terms (glossary)
- Showing relations between terms
- Supporting auto-completion in search boxes
- Provide definitions for extracted terms from articles*
- Support tagging & categorizing* and provide metadata for other tools

climate comp

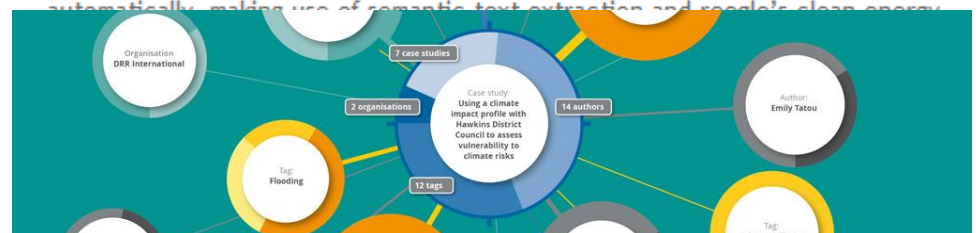
reegle definition:

Climate compatible development aims to balance economic growth, social equity, and environmental protection. It seeks to maximize the benefits of development while minimizing negative impacts, while transitioning to a low emissions, resilient economy. This will be a major challenge for the world as greenhouse gas emissions continue to rise.

Climate compatible development involves red a way which reduces the extent of climate ch inevitable change. (CDKN)



an interface (API) for the website that will allow online documents to be categorised and indexed



Adjustments in human and natural systems, in response to actual or expected climate stimuli or their effects, that moderate harm or exploit beneficial opportunities. (IPPC)

and openEl.org collaboration (reegle.info)

Essentials (a quick start guide on LOD) (reegle.info)

Energy Solution Center (reegle.info)

* plugins available

CLIMATE TAGGER RIGHT NOW

- ▶ Software latest update - **PoolParty**
- ▶ Making use of possibilities for configuration to increase **quality of tags**
- ▶ Creating **knowledge graphs** to connect related sector, such as DRR and CCA
- ▶ Continue relationship and trust with stakeholders and users
- ▶ Identify new **supporters and funders**
- ▶ Design **new business model and use cases (premium service)**



THANK YOU!

DENISE.RECHEIS@REEEP.ORG

WWW.CLIMATETAGGER.NET

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