



Climate knowledge and the Wikimedia ecosystem



WIKIMIANS
FOR
SUSTAINABLE DEVELOPMENT

[Daniel Mietchen](#) - [Climate Knowledge Hunt Hackathon](#) - 24 September 2022

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Structure of the presentation



- *Part 1: Overview of Wikimedia projects*
- *Part 2: Coverage of climate-related matters*
- *Part 3: Using and improving Wikidata while mining climate reports*

Part 1: Overview of Wikimedia projects



Clockwise, roughly sorted by information channel:

- Wikipedia (**329** languages) ⇒ encyclopedia
- [Wikimania](#) ⇒ annual gathering
- Wikibooks (**120**) ⇒ books
- [Meta](#) ⇒ things concerning > 1 wiki
- Wikiquote (**89**) ⇒ quotes
- [Wikispecies](#) ⇒ species
- [MediaWiki](#) ⇒ software
- [Incubator](#) ⇒ projects-to-be
- [Wikidata](#) ⇒ database
- Wikivoyage (**25**) ⇒ travel guide
- Wikiversity (**17**) ⇒ learning environment
- Wiktionary (**185**) ⇒ dictionary
- Wikinews (**34**) ⇒ news
- Wikisource (**74**) ⇒ text archive
- [Wikimedia Commons](#) ⇒ media repository

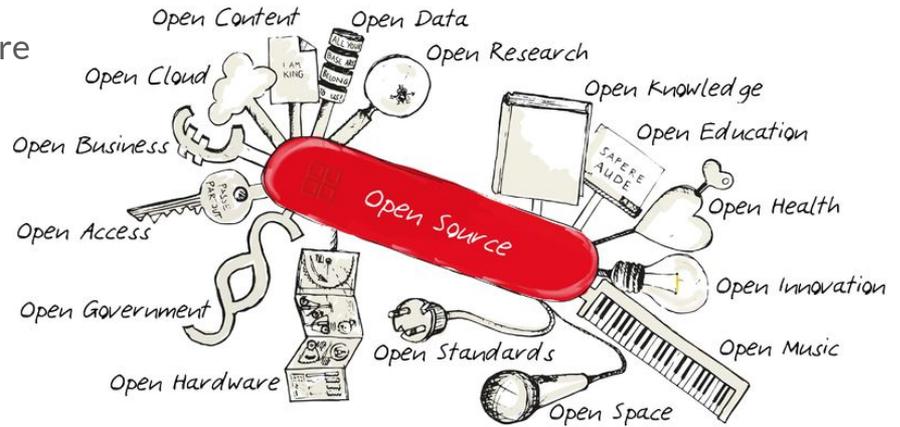
Center:

**Wikimedia Foundation
&
Wikimedia affiliates
&
Wikimedia community**

About 1000 wikis in total: <https://meta.wikimedia.org/wiki/Special:SiteMatrix>

Common themes of Wikimedia projects

- closely integrated content, infrastructure and communities
- content that is free to read and free to reuse
- presented using free and open-source software
- part of the broader open movement
- anyone is invited to contribute, e.g. by
 - reviewing existing materials
 - improving existing content
 - improving the presentation of content
 - improving the software
 - adding new information, code etc.
 - helping with community building
 - ...





Using Wikidata while mining climate reports

- entity recognition
 - Kyoto Protocol ⇒ Kyoto Protocol ([Q47359](#))
- identifier mapping
 - Kyoto Protocol ([Q47359](#)) ⇒ entry [0800000280021a16](#) in United Nations database for treaties
- semantic relations
 - Kyoto Protocol ([Q47359](#)) ⇒ [amended by \(P2567\)](#) ⇒ Doha Amendment to the Kyoto Protocol ([Q19084784](#))
- resolving abbreviations
 - NDC ⇒ Nationally Determined Contribution ([Q20051297](#))
- translations
 - [sea level rise](#) (L468972; English) ⇒ sea level rise ([Q841083](#)) ⇒ [സമുദ്രനിരപ്പിന്റെ ഉയർച്ച](#) (L461887Malayalam)
- literature overview
 - sea level rise ([Q841083](#)) ⇒ <https://scholia.toolforge.org/topic/Q841083>



Improving Wikidata while mining climate reports

- expand existing entries for specific entities or entity types found in the IPCC reports
 - add labels or descriptions in your language(s)
 - add semantic relationships
 - add identifiers
- create new entries for specific entities or entity types
- enter common words, phrases or acronyms
- link content across languages
- curate literature on a specific subject or by a specific researcher
- curate relevant media files
- improve or build curation workflows facilitating the handling of climate reports via Wikidata
- add/ update/ improve documentation of any of the above
- inform community channels about your activities



Thank you!

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- on Twitter: [@EvoMRI](#)

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