






OnToology + Vocab

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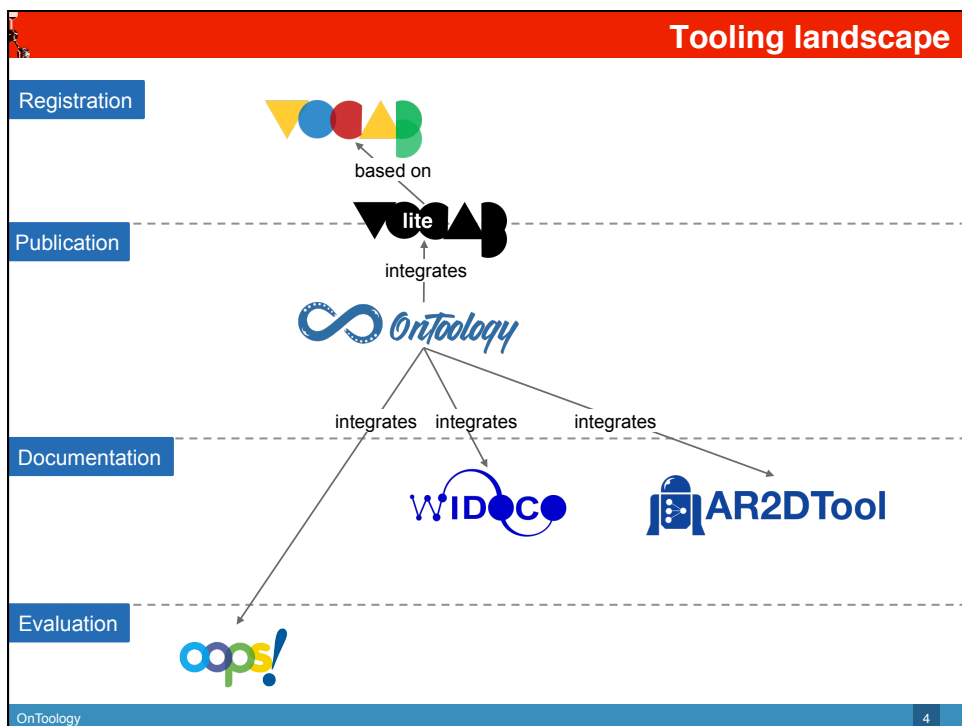
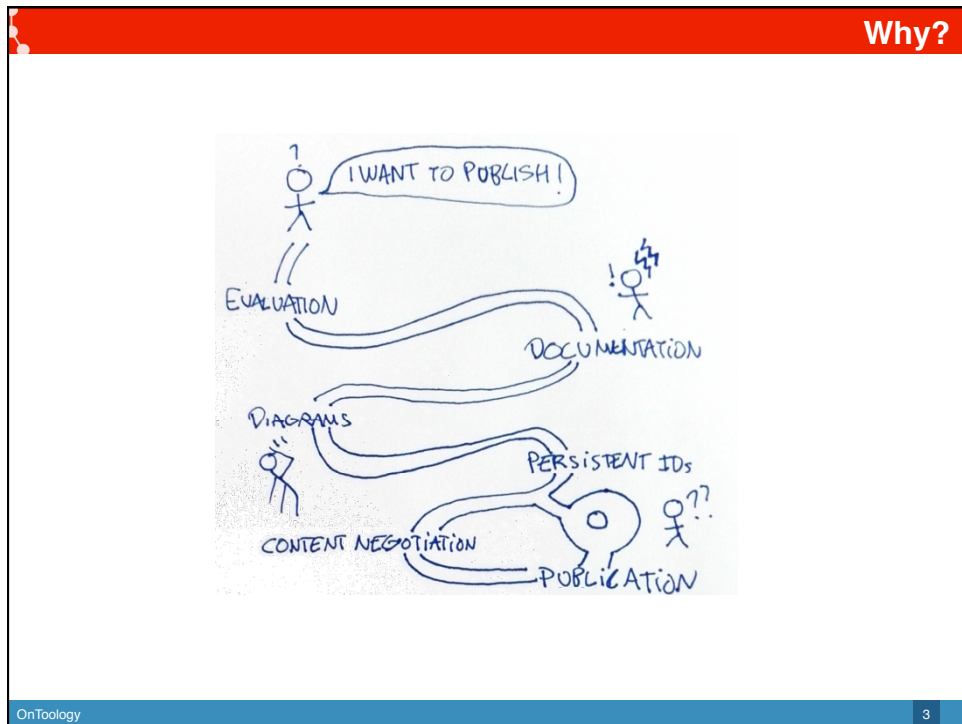
✉ mpoveda@fi.upm.es 📅 11 October 2017
 🐦 @MariaPovedaV 📍 Madrid



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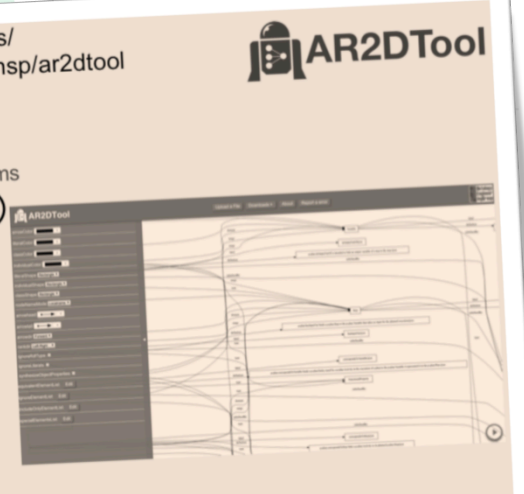


AR2DTool overview

Registration

URL: <http://ar2dtool.linkeddata.es/>
 GitHub: <https://github.com/idafensp/ar2dtool>

- **RDF triples to diagrams**
 - DOT and GraphML diagrams
 - $\langle s, p, o \rangle \rightarrow \text{S} \xrightarrow{\text{P}} \text{O}$
- **Goals**
 - Small snippets of RDF
 - Configurable profiles
 - Source files for figures
- **Project**
 - Standalone binary
 - Java library
 - **Web Services and GUI**



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OOPS! overview

Registration

Web application: <http://oops.linkeddata.es/>
 Web service: <http://oops-ws.oeg-upm.net/>

OOPS! is an **on-line** application that scans **ontologies** looking for potential **pitfalls** that could led to modeling errors.

It checks **33 pitfalls** out of the **41** defined in the catalogue.



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vocab.linkeddata.es overview

Registration

URL: <http://vocab.linkeddata.es/>
 Github: <https://github.com/mariapoveda/vocab.linkeddata.es/>

- Website for presenting the vocabularies in which development at least a **member** of the **OEG** has **collaborated**.
- Strict **metadata requirements**
 - A vocabulary without any of the following will **not** be published:
 - Title
 - Description
 - License (will produce a warning)
 - Content negotiation

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Widoco overview

Registration

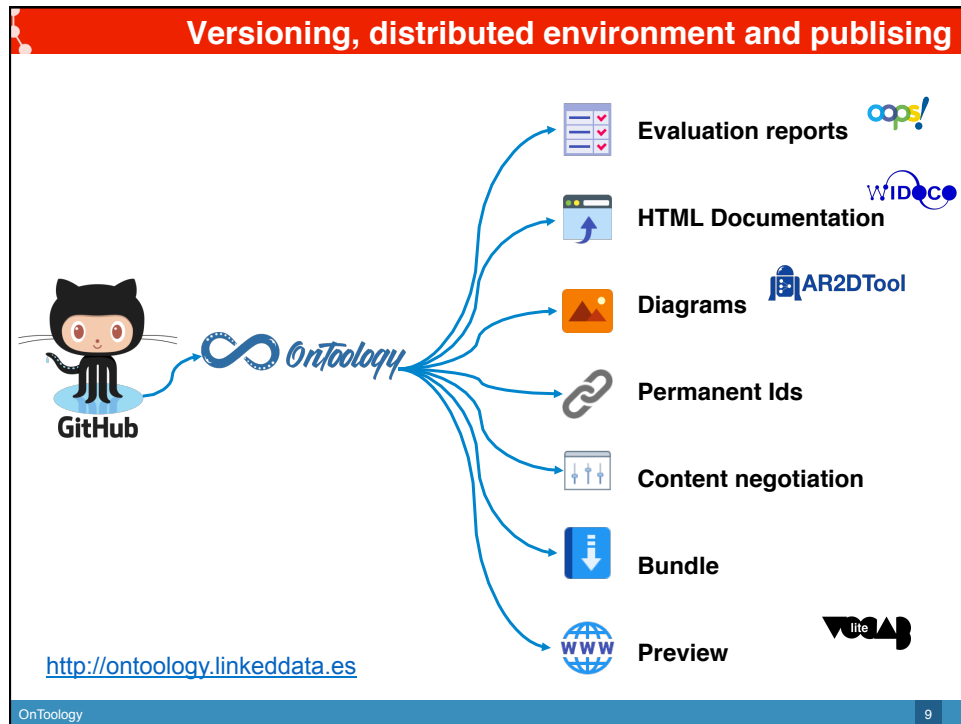
URL: <https://github.com/dgarijo/Widoco/>

Widoco is a wizard for helping **documenting ontologies**. Widoco is based on LODE, and expands it allowing:

- Easy **configuration** of ontology **metadata**
- Multilinguism**
- Bundle with **htaccess** for ontology publication
- Integration with **OOPS!**
- Provenance** of the vocabulary
- Automatic annotation of the html in **RDF-a**
- Separation** of the document in **sections** to facilitate editing

An example of Widoco can be seen here:
<http://ontology.linkeddata.es/publish/test/index-en.html>

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Feedback

Add repository to track

Choose one of the below repo by clicking on it

| Repository | Status | Diagrams | Evaluation | Documentation | Publication | Bundle | Last Update | | | | | | | | | | | | | | | | | | | | | | | | |
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| maria-poveda/saref-ext | Ready | 100.0% | | | | | 15-Nov-2017 | | | | | | | | | | | | | | | | | | | | | | | | |
| maria-poveda/vicinity-ontology-core | Ready | 100.0% | | | | | 21-Nov-2017 | | | | | | | | | | | | | | | | | | | | | | | | |
| <table style="width: 100%; text-align: left;"> <thead> <tr> <th>Ontology</th> <th>Diagrams</th> <th>Evaluation</th> <th>Documentation</th> <th>Publication</th> <th>Bundle</th> </tr> </thead> <tbody> <tr> <td>ontology/core.ttl</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>tests/testsuite_SOEC30141.ttl</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>tests/testsuite_SPRINT2.ttl</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table> | | | | | | | | Ontology | Diagrams | Evaluation | Documentation | Publication | Bundle | ontology/core.ttl | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | tests/testsuite_SOEC30141.ttl | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | tests/testsuite_SPRINT2.ttl | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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| Update Configuration | | | | | | Stop Watching | | | | | | | | | | | | | | | | | | | | | | | | | |
| maria-poveda/vicinity-ontology-wot-mappings | Ready | syntax error in testsuite_requirements.ttl | 100.0% | | | | 21-Nov-2017 | | | | | | | | | | | | | | | | | | | | | | | | |
| maria-poveda/wot-ontology | Ready | 100.0% | | | | | 20-Nov-2017 | | | | | | | | | | | | | | | | | | | | | | | | |
| maria-poveda/wot-thing-description | Ready | 100.0% | | | | | 27-Sep-2017 | | | | | | | | | | | | | | | | | | | | | | | | |
| maria-poveda/inia-ontology | Ready | 100.0% | | | | | 27-Nov-2017 | | | | | | | | | | | | | | | | | | | | | | | | |
| maria-poveda/vocab | Ready | 100.0% | | | | | 20-Nov-2017 | | | | | | | | | | | | | | | | | | | | | | | | |

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 Ontology Engineering Group
 Contact: ontology@lifedatada.es
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| marispoveda/vicinity-ontology-wot-mappings | Ready | 100.0% | syntax error in testsuite_requirements.ttl | | | <input type="checkbox"/> | <input type="checkbox"/> | 21-Nov-2017 |
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user/repo

When the ontology (RDF file) is updated, regenerate:

Choose one of the below repo by clicking on it

| Repository | Status | Progress | Diagrams | Evaluation | Documentation | Publish | Bundle | Last Update |
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Or when forcing the generation of resources

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user/repo

Publish the ontology under a w3id URI

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| Repository | Status | Progress | Diagrams | Evaluation | Documentation | Publish | Bundle | Last Update |
|--------------------------------------------|--------|----------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------|
| marispoveda/saref-ext | Ready | 100.0% | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 15-Nov-2017 |
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| marispoveda/vocab | Ready | 100.0% | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 20-Nov-2017 |

Or download the resources needed to publish it in your server

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OnToolology users

- Since 2015
- **531** ontologies from **113** repositories
- Some examples:
 - `opencitydata/medio-ambiente-contaminacion-acustica`
 - `opencitydata/medio-ambiente-calidad-aire`
 - `mariapoveda/wot-ontology`
 - `vcharpenay/wot-ontology`
 - `jpcik/medred`
 - `marianof1971/dul-es`
 - `GeorgFerdinandSchneider/bot`
 - ...



<http://ontology.github.io/OnToolology/journalofwebsemantics/#stats>

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vocab.linkeddata.es examples

<http://saref.linkeddata.es/>

| SAREF extensions registry | | | | | | |
|----------------------------------------------------------|------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Here you can find the list of SAREF family of ontologies | | | | | | |
| Filter by title or domain: | | | | | | |
| Ontology | Serialization | License | Authors | Language | Domain | Description |
| SAREF: the Smart Appliances REFerence ontology | RDF JSON-LD | CC-BY-NC-SA | Laura Bernabé Mario Poveda-Villalón Raúl García-Castro | en | smart appliances IoT | The Smart Appliances REFerence (SAREF) ontology is a shared model of consensus that facilitates the matching of existing ... See more |
| SAREF extension for environment | RDF JSON-LD JSON | CC-BY-NC-SA | Mario Poveda-Villalón Raúl García-Castro | en | environment light pollution photometer SAREF | This ontology extends the SAREF ontology for the environment domain, specifically for the light pollution domain, including ... See more |
| SAREF extension for building devices | RDF JSON-LD JSON | CC-BY-NC-SA | Mario Poveda-Villalón Raúl García-Castro | en | building device building device IoT SAREF | This ontology extends the SAREF ontology for the building domain by defining building devices and how they are located in ... See more |
| SAREF extension for energy | RDF JSON-LD | CC-BY-NC-SA | Laura Bernabé | en | smart appliances energy | SAREF4ENER is an extension of SAREF for the Energy domain that was created in collaboration with Energy@Home ... See more |

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Built with Bootstrap icons from Glyphicons
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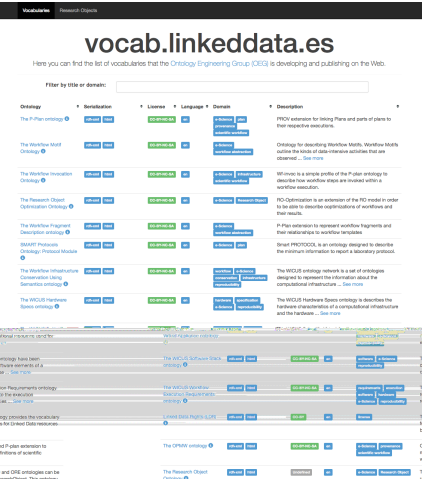


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vocab.linkeddata.es examples

<http://vocab.linkeddata.es/>



<http://vocab.linkeddata.es/datosabiertos/>




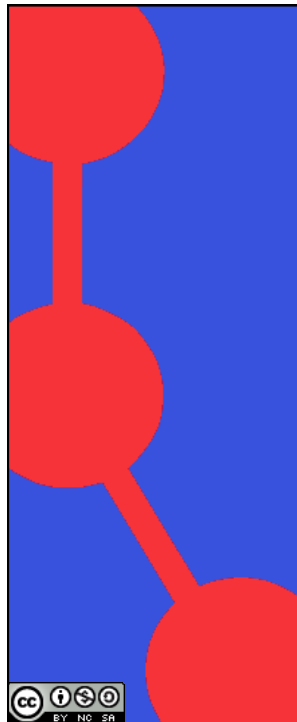


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Pointers

- **OnToology**
 - URL: <http://ontology.linkeddata.es>
 - GitHub: <https://github.com/OnToology/OnToology/>
- **vocab.linkeddata.es**
 - URL: <http://vocab.linkeddata.es/>
 - GitHub: <https://github.com/mariapoveda/vocab.linkeddata.es/>
- **vocabLite**
 - GitHub: <https://github.com/dgarijo/vocabLite>
- **Widoco**
 - Github: <https://github.com/dgarijo/Widoco/>
- **OOPS!**
 - Web application: <http://oops.linkeddata.es/>
 - Web service: <http://oops-ws.oeg-upm.net/>
- **AR2DTool**
 - URL: <http://ar2dtool.linkeddata.es/>
 - GitHub: <https://github.com/idadensp/ar2dtool>

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