

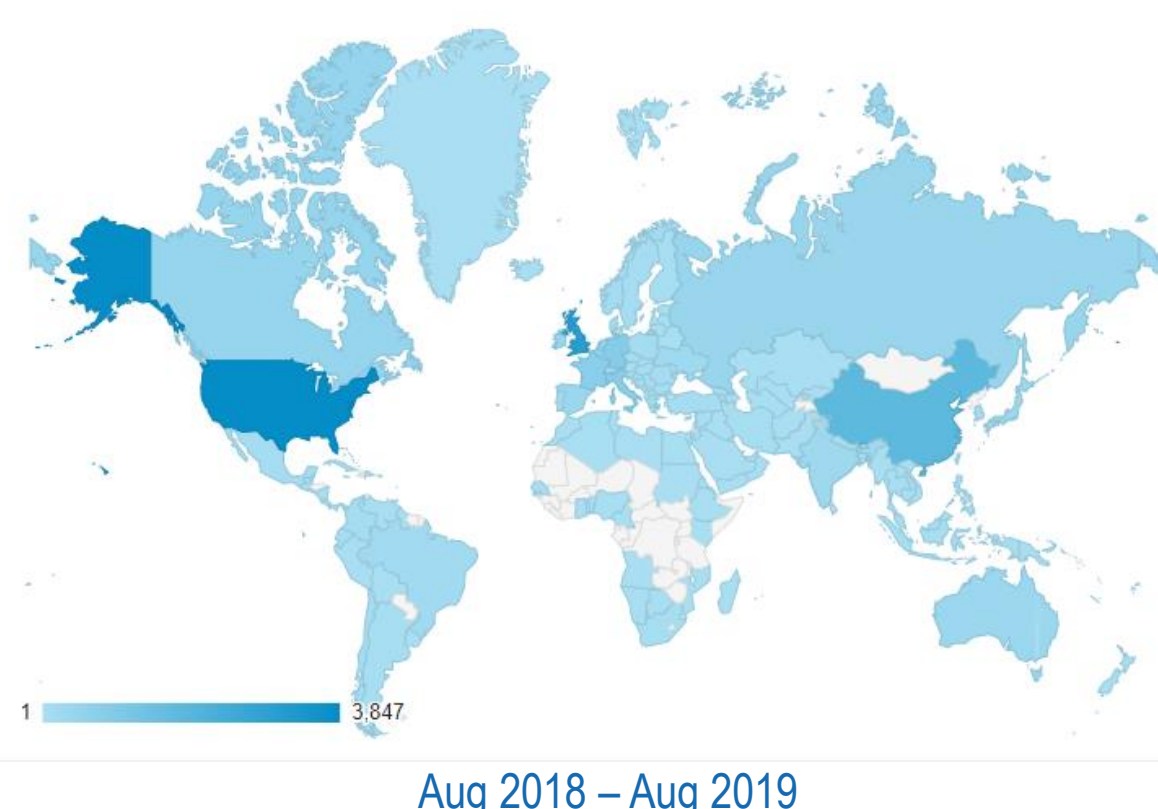


#1 The NERC Vocabulary Server (NVS)

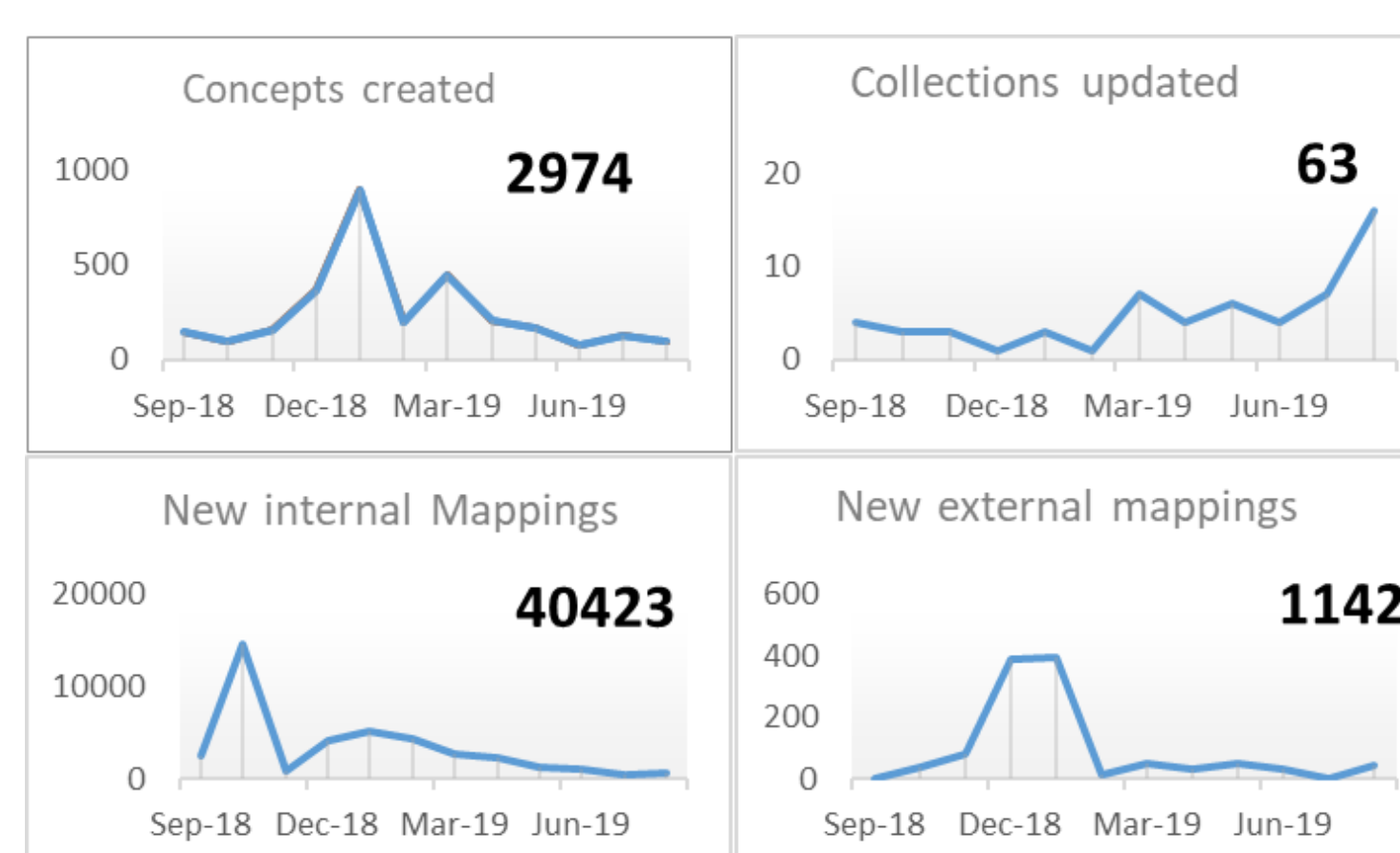
What is NVS?

- A thesauri and controlled vocabulary server for the marine community and related domains
- Serves the SeaDataNet (SDN) Common Vocabularies
- Community-driven, used globally
- Linked Data
- Machine Readable
- Interoperable

Who uses NVS?



Last 12 months stats



Publication



<http://vocab.nerc.ac.uk/sparql/>



<http://vocab.nerc.ac.uk/vocab2.wsdl>



<http://vocab.nerc.ac.uk/collection/>

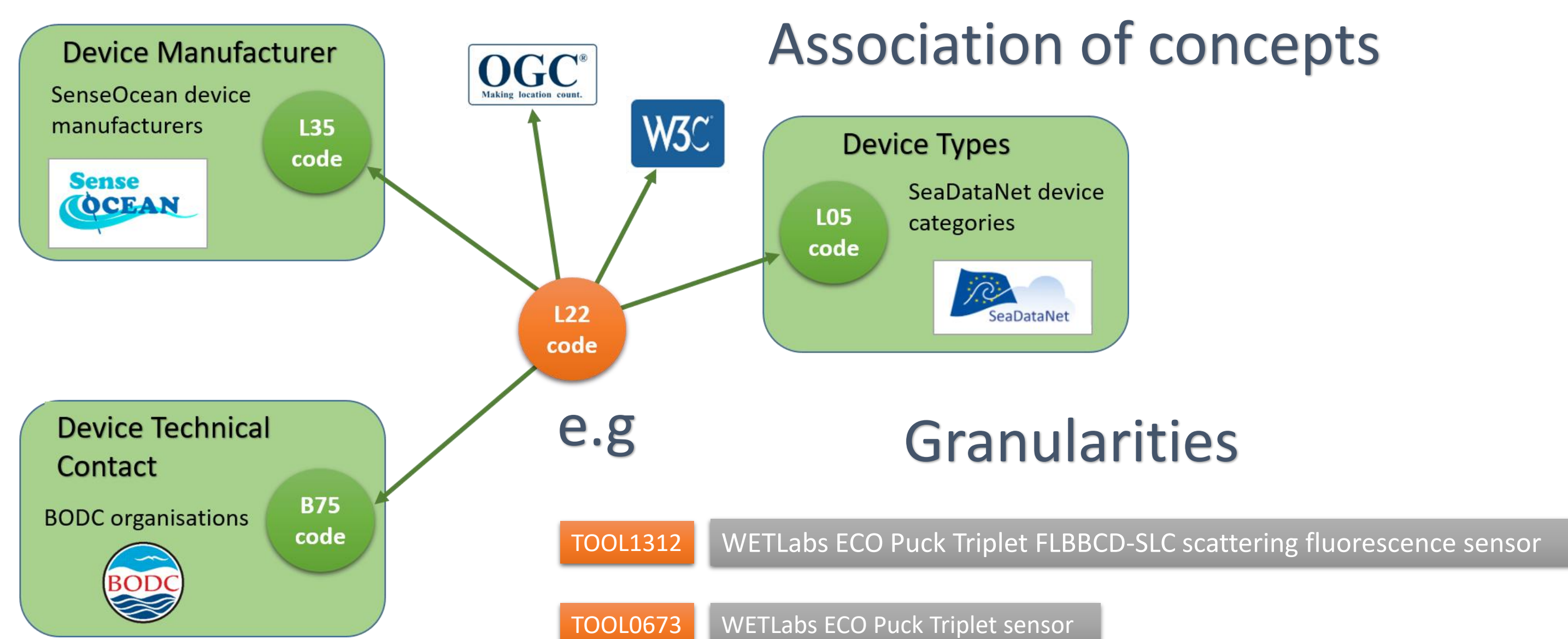


Key usage vocabularies

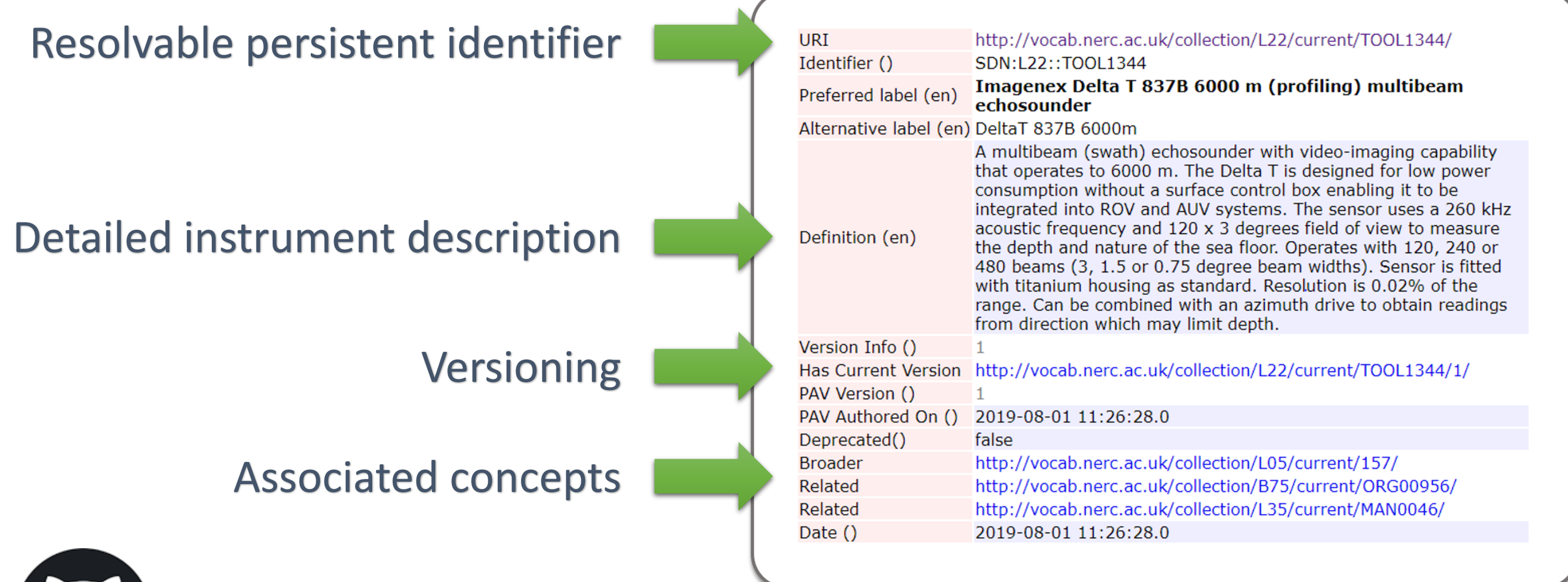
Expressing **What** variable (P01) was observed by **which** instrument (L22) in machine readable, unambiguous terms is crucial for making ocean observations FAIR

#2 L22: The SeaVoX Device Catalogue

- Used for identifying **instrument provenance** in databases and data files
- >1,400 **unique and persistent identifiers (L22 code URI)**
- easily **integrated into workflows**
- supports instrument **granularities** and **web publications** (e.g. SensorML, SSN)



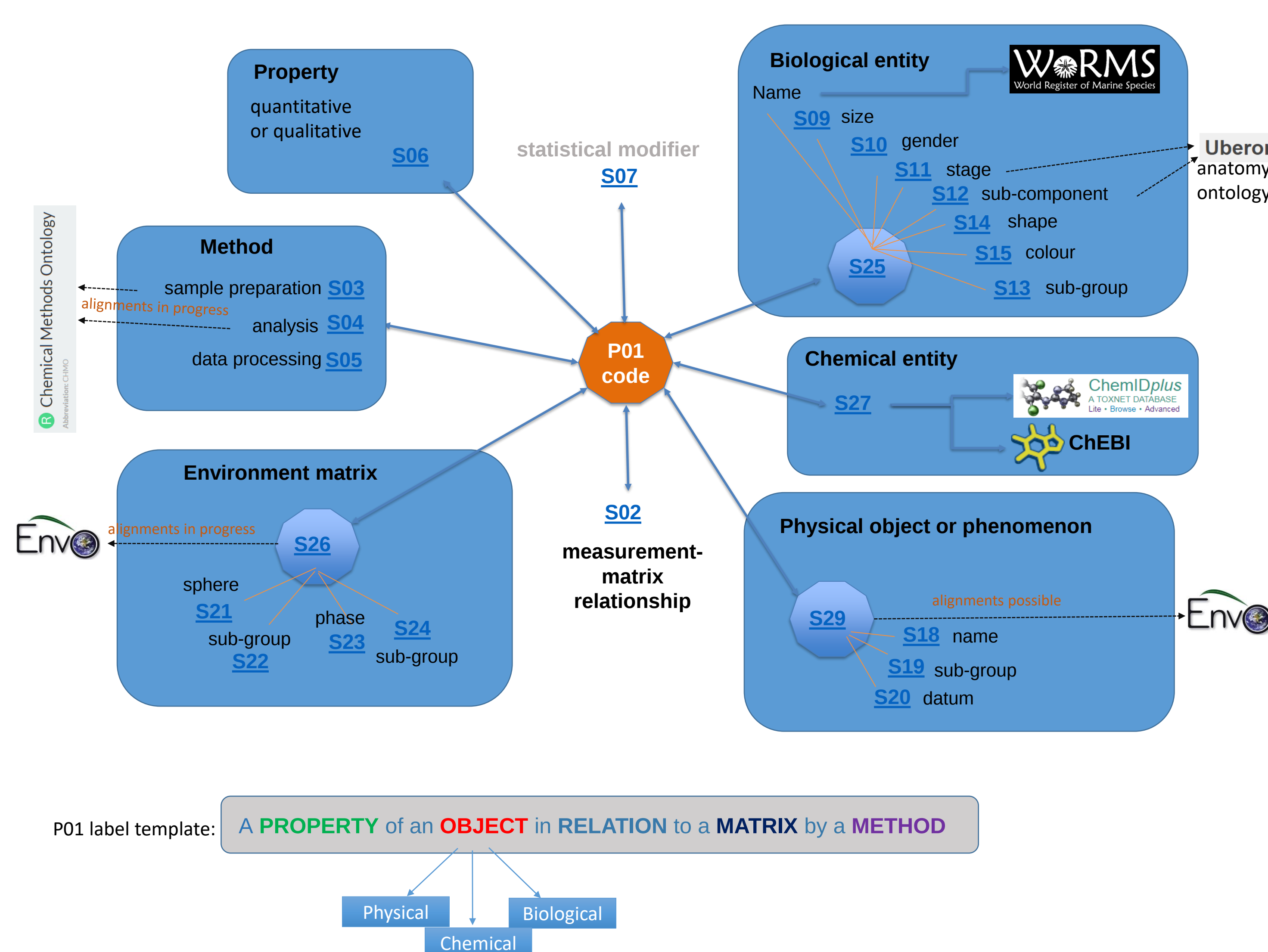
NVS Web publication



<https://github.com/nvs-vocabs/L22>

#3 P01: The BODC Parameter Usage Vocabulary

- Used for **labelling variables** in databases and data files
- >40,000 **unique and persistent identifiers (P01 code URI)** attached to **structurally logical labels** and textual definitions
- a P01 label is constructed from the following **association of concepts** defined in controlled vocabularies



Example: **Concentration** of **chlorophyll-a** per unit volume of the water body [particulate >GF/F phase] by **filtration, extraction and fluorometry**



<https://github.com/nvs-vocabs/P01>



I-ADOPT working group

#4 Benefits

- Facilitates the **I** of the **FAIR** data principles
- Supports automated processes, Virtual Research Environments, fast data exchange, Linked Data applications
- Optimizes data re-usability by preserving key information close to the data values
- Enables flexible and customisable data aggregations and discovery pathways

#5 Acknowledgements



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