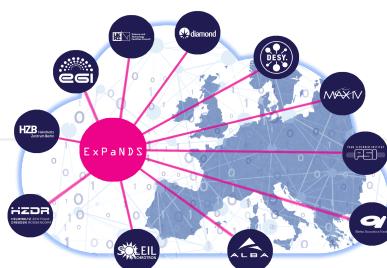






Ontology API service

Sustainability sheet



The PaN technique ontology service is a software that allows clients to **expand a photon and neutron technique (PaNET) term into an equivalent search query that includes all PaNET sub-term**: those that are more specific research techniques. It can also display the PaNET ontology.

	Target audiences <ul style="list-style-type: none">- PaN software engineers	Benefits <ul style="list-style-type: none">- Single point of entry for getting PaNET terms- Faster and more reliable than Bioportal- Unauthenticated access- Can be easily plugged into existing software
	Accessibility <p>The API service (1) can be accessed by anyone Source code (2)</p>	Documentation <ul style="list-style-type: none">- For users and developers (4)- For developers (5)- For developers (6)
	Feedback mechanism GitHub issue tracking (3)	Licence 2-Clause BSD (7)
	Competitors <ul style="list-style-type: none">- Bioportal APIs- Possibly OWL API (8) for the owl file parsing	
	Technology readiness Prototype: might need revision to accommodate more extended use of the owl syntax	
	EOSC integration status A production instance of the ontology service , provided by PSI, has been on-boarded (9)	
	Plans and conditions for long-term sustainability <ul style="list-style-type: none">- Service will continue to be hosted by PSI via Hetzner cloud provider, as long as there are no tangible extra costs- Code will continue to be hosted in github.com (10), likely under SciCat and ICAT organisations- Upgrades and future developments are linked to PaNET uptake and to the MoU on FAIR data management that is being drafted by several PaN facilities	



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 857641.



Exploitability potential

- [PaN training platform](#) (11) is about to adopt it
- Beneficial for other search-APIs when wanting to use PaNET
- Useful for the [PaNOSC data portal](#) (12) as it can expand its current use to show the techniques tree
- Useful for facilities at ingestion time, allowing to reference the used technique with the PaNET id
- Useful to other PaN grants/projects wanting to use PaNET, e.g. [DAPHNE4NFDI](#) (13)
- Originally built for PaNET but could work with all ontologies

Conditions to increase exploitability

- Advertise to other PaN projects
- Include its future and further adoption by other PaN products in the FAIR data management MoU
- Explain and demo the use at ingestion to PaN facilities

Links

- (1) <https://pan-ontologies.psi.ch/>
- (2) <https://github.com/ExPaNDS-eu/pan-ontologies-api>
- (3) <https://github.com/ExPaNDS-eu/pan-ontologies-api/issues>
- (4) <https://github.com/ExPaNDS-eu/pan-ontologies-api/tree/main/docs>
- (5) <https://github.com/ExPaNDS-eu/pan-ontologies-api/blob/main/README.md>
- (6) <https://pan-ontologies.psi.ch/explorer/>
- (7) <https://opensource.org/licenses/BSD-2-Clause>
- (8) <https://github.com/owics/owlapi>
- (9) <https://marketplace.eosc-portal.eu/services/photon-and-neutron-techniques-ontology-service>
- (10) <https://github.com/ExPaNDS-eu/pan-ontologies-api>
- (11) <https://pan-training.eu/>
- (12) <https://data.panosc.eu/>
- (13) <https://www.daphne4nfdi.de/english/index.php>



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 857641.