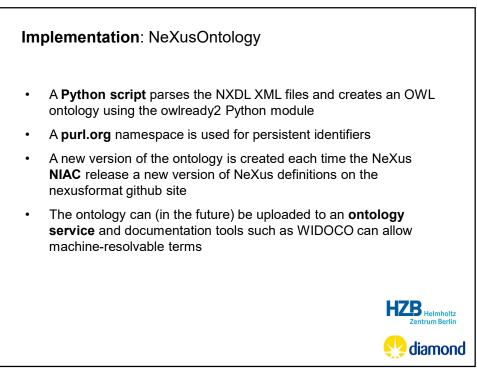
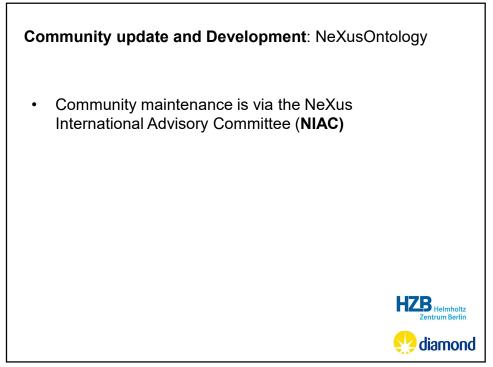
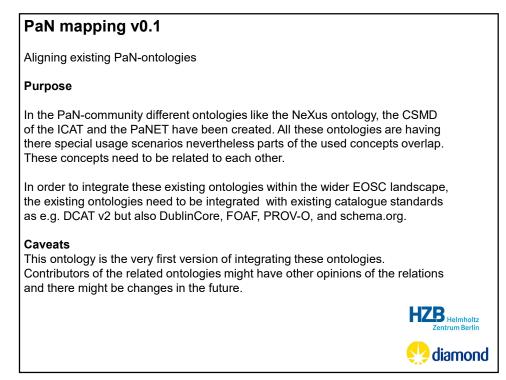


File Edit View Reasoner Tools Refa		NeXusOntology
< > NeXusOntology (http://purl.org/nex	usformat/definitions/NeXusOntology) · Searc	NexusOntology
NeXus NKobject NeXusBaseClass NR/beam		برا ام من دمان د
Active ontology × Entities × Individuals by		viewed ir
Annotation properties Datatypes Individu		
Classes Object properties Data properti		Protégé: NeXus
Class hierarchy NXbeam EI		🔤 FIOLEYE. NEAUS
🐮 🐍 🐹 Assert	ad 👻 Annotations 🚯	-
▼ 😑 ow!: Thing	rdfs:comment [type: xsd.string]	base classes
NeXus	Properties of the neutron or X-ray beam at a given location. It will be referenced by beamline	
NAODject     NeXusApplicationDefinition	component groups within the :ref. "NXInstrument" group or by the :ref. "NXsample" group. Note that variable	<sup>15</sup> /
• • NeXusBaseClass	such as the incident energy could be scalar values or arrays. This group is especially valuable in storing results of instrument simulations in which it is useful to specify the beam profile, time distribution etc. at es	(expressed as
- NXaperture	beamine component. Otherwise, its most likely use is in the :ref. NXsample' group in which it defines the	
	results of the neutron scattering by the sample, e.g., energy transfer, polarizations.	OWL classes
NXbeam stop	rdfs:seeAlso [type: xsd.string]	
NXbending_magnet	https://manual.nexusformat.org/classes/base_classes/Nxbeam.html	
- NXcapillary	extends [type: xsd:string]	0
NXcite NXcollection	NKobject	
NXcollimator	Description: NXbeam 2000	
- NXcrystal		
NXcylindrical_geometry	Equivalent To 💮	
NXdata NXdetector		
NXdetector group	SubClass Of 🕄	
NXdetector_module	• 'NXbeam distance' some NX_LENGTH	
NXdisk_chopper NXentry	NXbeam energy_transfer' some NX_ENERGY	
NXenvironment	• "NXbeam extent' some NX_LENGTH	
- NXevent_data	NXbeam final_beam_divergence' some NX_ANGLE	
NXfermi_chopper	• 'NXbeam final_energy' some NX_ENERGY	
	NXbeam final_polarization' some NX_ANY     O O O	
NXfresnel zone plate	NXbeam final_wavelength' some NX_WAVELENGTH	
NXgeometry	NXbeam final_wavelength_spread' some NX_WAVELENGTH     OOOO     NXbeam flux' some NX_FLUX     OOOO	
NXgrating		
NXguide NXinsertion device		
- NXinstrument		
- ONXlog		
NXmirror		
<ul> <li>NXmoderator</li> <li>NXmonitor</li> </ul>		
- NXmonochromator		
- NXnote		
NXoff_geometry NXorientation		
NXparameters	NXbeam incident_wavelength_weights' some NX_UNITLESS     OOO     NXbeam profile' some NX_UNITLESS     OOO	Zenter De l'
- NXpdb		9
NXpinhole	NXbeam total_flux' some NX_FREQUENCY     O (2)     CitesGroup some NXdata     O (2)	
NXpolarizer     NXpositioner	Crtesuroup some Nxdata     O O O	
- NYprosore		📲 💦 🗧 🗧 🗧

≪ NekuOntology (http://put.org/nexut/omat/definitions/NekuOntology) File Edit View Reasoner Tools Reflactor Window He	lp		• ×	NeXusOntology viewed in Protégé: NeXus fields
< >      A NexusOntology (http://putl.org/nexusformat/definitions/NeXusOntology)     Search )NexusHed )Nobean Incident_energy			Search	(expressed as
Active ontology × Entities × Individuals by class × DL Query	×			· ·
P P P P P P P P P P P P P P P P P P P		t_energy — http://purl.org/nexusformat/definitions/NXbeam-incident_energy	IY	OWL object
Non-second second se	otations Usage	incident energy		,
	otations Accession	internet of the second s		properties)
▼ = owi:topObjectProperty	rdfs:label [type: x		000	,
* NeXusField	Nxbeam incident_6			
	rdfs:comment [ty		000	
- NXaperture shape	Energy on entering	beamline component		
	rdfs:seeAlso [typ	e: xsd.string]	080	
NXattenuator absorption_cross_section	1		000	
	NexusClass Nxbeam		900	
NXattenuator scattering_cross_section NXattenuator status				
- NXattenuator thickness	racte	Description: NXbeam incident energy		
NXattenuator type	and the second second	Equivalent To 🚯		
NXbeam energy_transfer	werse functional			
NYbeam final beam divergence	ransitive	SubProperty Of 🕀		
NXbeam final_energy		NeXusField 0	080	
NXbeam final wavelength	ymmetric	Inverse Of 🕒		
- Hxbeam mai_wavelengti_spread	symmetric	-		
NXbeam incident_beam_divergence		Domains (intersection)		
NXbeam incident_beam_size	reflexive	Ranges (intersection)		
NXbeam incident_polarisation_stokes			080	HZB Helmholtz
NXbeam incident_polarization           NXbeam incident wavelength				Zentrum Berlin
		Disjoint With 💮		
<ul> <li>NXbeam incident_wavelength_weight</li> <li>NXbeam incident_wavelength_weights</li> <li>NXbeam profile</li> </ul>		SuperProperty Of (Chain)		diamond
- Axbeam prome				<b>e s</b> diamond

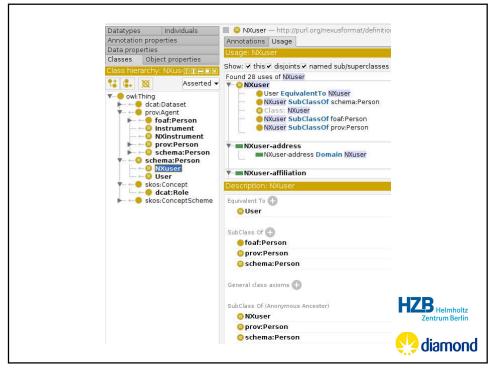


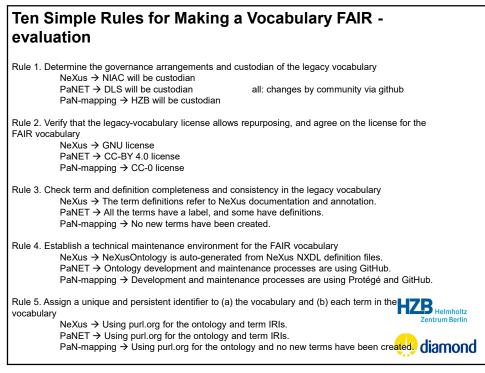




PaN mapping v0.1 - continued				
Semantic tools				
<ul> <li>Simple Knowledge Organisation System (SKOS)</li> <li>skos:broader/skos:narrower for creating hierarchies</li> </ul>				
<ul> <li>skos:mappingRelation, skos:closeMatch, skos:exactMatch, skos:broadMatch, skos:narrowMatch, or skos:relatedMatch</li> </ul>				
Web Ontology Language (OWL) owl:equivalentClass				
Resource Description Framework (RDF) rdfs:subClassOf				
	HZB Helmholtz Zentrum Berlin			
	😍 diamond			

NXuser	equivalentTo, skos:exactMatch	csmd:User
	subClassOf	prov:Person, schema:Person, foaf:Person
NXuser: <mark>address</mark>	equivalentTo	schema:address
NXuser:affiliation	equivalentTo	schema:affiliation
NXuser:email	equivalentTo	schema:email, foaf:mbox
NXuser:fax_number	equivalentTo	schema:faxNumber
	·	HZB Helmhol Zentrum Berl
		👥 diamo





Ten Simple Rules for Making a Vocabulary FAIR - evaluation			
Rule 6. Cr	eate machine readable representations of the vocabulary terms NeXus →		
	PaNET $\rightarrow$ all: usage of RDF and OWL encoding PaN-mapping $\rightarrow$		
Rule 7. Ad	ld vocabulary metadata NeXus → License, Version, Creators/Contributors, Creation date added. PaNET → License, Version, Creators/Contributors, Creation date added. PaN-mapping → License, Version, Creators/Contributors, Creation date added.		
Rule 8. Re findable.	egister the vocabulary NeXus → Might be registered in the NCBO BioPortal to make it findable. PaNET → The vocabulary has been registered in the NCBO BioPortal to make it		
	PaN-mapping → not registered.		
Rule 9. Ma	ake the vocabulary accessible for humans and machines NeXus → Vocabulary is accessible via the GitHub interfaces and PURL redirection. PaNET → Vocabulary is accessible via the GitHub interfaces and PURL redirection. PaN-mapping→ Vocabulary is accessible via the GitHub interfaces and PURL		
Rule 10. Ir	nplement a process for maintaining the FAIR vocabulary NeXus → Evolvement of the ontology is linked to the evolvement of the NeXus standard. PaNET → Issue templates have been created to enable the community to submit. PaN-mapping → Github issues can be created for maintanace.		