Circular Economy Ontology Network (CEON) - Resource ODP

Metadata

IRI

http://w3id.org/CEON/ontology/resourceODP/

Title

Circular Economy Ontology Network (CEON) - Resource ODP

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License

https://github.com/LiUSemWeb/CEON/blob/master/LICENSE

Version Iri

http://w3id.org/CEON/ontology/resourceODP/0.1/

Version Info

0.1

Preferred Namespace Prefix

resourceODP

Preferred Namespace Uri

http://w3id.org/CEON/ontology/resourceODP/

Description

A core ODP of the CEON ontology network defining aspects of the resource concept.

Covers Requirements

Covers the following requirements from Onto-DESIDE D3.1: CVN-Resource-1,3, CVN-Composition-1,2, CVN-ResourceType-4, C7-3, E2-2, E4-6, E5-1, E6-3, T3-1.

Classes

Constituent ^C	
IRI	http://w3id.org/CEON/ontology/resourceODP/Constituent
Description	A constituent is a component of object.
In Range Of	<u>hasConstituent</u> ^{op}

Information ^C

IRI http://w3id.org/CEON/ontology/resourceODP/Information

Sub Class Of Resource^c

Matter ^C

IRI http://w3id.org/CEON/ontology/resourceODP/Matter

DescriptionA matter is a physical substance.

In Range Of hasMatter op

PhysicalObject^C

IRI http://w3id.org/CEON/ontology/resourceODP/PhysicalObject

DescriptionA physical object is a collection of matter.

Sub Class Of Resource^C

hasConstituent^{op} only Constituent^c and hasConstituent^{op} some Constituent^c

<u>hasMatter</u>^{op} only <u>Matter</u>^c and <u>hasMatter</u>^{op} some <u>Matter</u>^c

In Domain Of hasConstituent^{op}

<u>hasMatter^{op}</u>

Resource ^C

IRI http://w3id.org/CEON/ontology/resourceODP/Resource

DescriptionA resource able to be handled in the context of a circular value network, e.g. data

generated by software systems in the CVN, materials or prooducts as physical

objects handled in the CVN.

Super Class Of

Information^c
PhysicalObject^c

Object Properties

 $has Constituent \\^{op}$

IRI http://w3id.org/CEON/ontology/resourceODP/hasConstituent

Description hasConstitutent intends to represent that a physical object can have a collection of

composing components.

Domain PhysicalObject^C

Range Constituent^C

hasMatter op

IRI http://w3id.org/CEON/ontology/resourceODP/hasMatter

Description hasMatter intends to represent that a physical object can have a collection of

matter.

Domain PhysicalObject^C

Range Matter^c

Annotation Properties

description ap

IRI http://purl.org/dc/elements/1.1/description

contributor ap

IRI http://purl.org/dc/terms/contributor

created ap

IRI http://purl.org/dc/terms/created

creator ap

IRI http://purl.org/dc/terms/creator

description ^{ap}		
IRI	http://purl.org/dc/terms/description	
license ^{ap}		
IRI	http://purl.org/dc/terms/license	
title ^{ap}		
IRI	http://purl.org/dc/terms/title	
preferred namespace prefix ^{ap}		
IRI	http://purl.org/vocab/vann/preferredNamespacePrefix	
preferred namespace uri ^{ap}		
IRI	http://purl.org/vocab/vann/preferredNamespaceUri	
covers requirements ^{ap}		
IRI	http://www.ontologydesignpatterns.org/schemas/cpannotationschema.owl#covers Requirements	

Namespaces

rdf

```
:
    http://w3id.org/CEON/ontology/resourceODP/

dc
    http://purl.org/dc/elements/1.1/

dcterms
    http://purl.org/dc/terms/

odp
    http://www.ontologydesignpatterns.org/schemas/cpannotationschema.owl#

owl
    http://www.w3.org/2002/07/owl#

prov
    http://www.w3.org/ns/prov#
```

http://www.w3.org/1999/02/22-rdf-syntax-ns#
rdfs
http://www.w3.org/2000/01/rdf-schema#
vann

http://purl.org/vocab/vann/

Legend

c Classes

op Object Properties

ap Annotation Properties