

Circular Economy Ontology Network (CEON) - Resource ODP

Metadata

IRI

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

Title

Circular Economy Ontology Network (CEON) - Resource ODP

Creator

Huanyu Li

Contributor

Eva Blomqvist

Mikael Lindecrantz

Robin Keskisärkkä

Date Created

2023-03-16

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	hasConstituent^{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>

Description A matter is a physical substance.

In Range Of [hasMatter^{op}](#)

PhysicalObject^c

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

Description A physical object is a collection of matter.

Sub Class Of [Resource^c](#)
[hasConstituent^{op}](#) some [Constituent^c](#) and [hasConstituent^{op}](#) only [Constituent^c](#)
[hasMatter^{op}](#) only [Matter^c](#) and [hasMatter^{op}](#) some [Matter^c](#)

In Domain Of [hasConstituent^{op}](#)
[hasMatter^{op}](#)

Resource^c

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

Description A 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 products as physical objects handled in the CVN.

Super Class Of [Information^c](#)
[PhysicalObject^c](#)

Object Properties

hasConstituent^{op}

IRI	http://w3id.org/CEON/ontology/resourceODP/hasConstituent
Description	hasConstituent 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#coversRequirements

Namespaces

:

<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#>

rdf

<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