

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-ResrouceType-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/CE0N/ontology/resourceODP/Matter>

Description A matter is a physical substance.

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

PhysicalObject^C

IRI <http://w3id.org/CE0N/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}](#) some [Matter^C](#) *and* [hasMatter^{op}](#) only [Matter^C](#)

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

Resource^C

IRI <http://w3id.org/CE0N/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/CE0N/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/CE0N/ontology/resource0DP/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/cannotation-schema.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/cannotationschema.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