

# 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-ResrouceType-4, C7-3, E2-2, E4-6, E5-1, E6-3, T3-1.

## Classes

Constituent <sup>C</sup>	
IRI	<a href="http://w3id.org/CEON/ontology/resourceODP/Constituent">http://w3id.org/CEON/ontology/resourceODP/Constituent</a>
Description	A constituent is a component of object.
In Range Of	<a href="#">hasConstituent<sup>OP</sup></a>

Information <sup>C</sup>	
IRI	<a href="http://w3id.org/CEON/ontology/resourceODP/Information">http://w3id.org/CEON/ontology/resourceODP/Information</a>
Sub Class Of	<a href="#">Resource<sup>C</sup></a>

## Matter<sup>C</sup>

**IRI** <http://w3id.org/CE0N/ontology/resourceODP/Matter>

**Description** A matter is a physical substance.

**In Range Of** [hasMatter<sup>op</sup>](#)

## PhysicalObject<sup>C</sup>

**IRI** <http://w3id.org/CE0N/ontology/resourceODP/PhysicalObject>

**Description** A physical object is a collection of matter.

**Sub Class Of** [Resource<sup>C</sup>](#)  
[hasConstituent<sup>op</sup>](#) some [Constituent<sup>C</sup>](#) and [hasConstituent<sup>op</sup>](#) only [Constituent<sup>C</sup>](#)  
[hasMatter<sup>op</sup>](#) some [Matter<sup>C</sup>](#) and [hasMatter<sup>op</sup>](#) only [Matter<sup>C</sup>](#)

**In Domain Of** [hasConstituent<sup>op</sup>](#)  
[hasMatter<sup>op</sup>](#)

## Resource<sup>C</sup>

**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<sup>C</sup>](#)  
[PhysicalObject<sup>C</sup>](#)

## Object Properties

### hasConstituent<sup>op</sup>

**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<sup>C</sup>](#)

**Range** [Constituent<sup>C</sup>](#)

hasMatter<sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/resource0DP/hasMatter">http://w3id.org/CE0N/ontology/resource0DP/hasMatter</a>
<b>Description</b>	hasMatter intends to represent that a physical object can have a collection of matter.
<b>Domain</b>	<a href="#">PhysicalObject</a> <sup>c</sup>
<b>Range</b>	<a href="#">Matter</a> <sup>c</sup>

## Annotation Properties

description<sup>ap</sup>

<b>IRI</b>	<a href="http://purl.org/dc/elements/1.1/description">http://purl.org/dc/elements/1.1/description</a>
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contributor<sup>ap</sup>

<b>IRI</b>	<a href="http://purl.org/dc/terms/contributor">http://purl.org/dc/terms/contributor</a>
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created<sup>ap</sup>

<b>IRI</b>	<a href="http://purl.org/dc/terms/created">http://purl.org/dc/terms/created</a>
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creator<sup>ap</sup>

<b>IRI</b>	<a href="http://purl.org/dc/terms/creator">http://purl.org/dc/terms/creator</a>
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description<sup>ap</sup>

<b>IRI</b>	<a href="http://purl.org/dc/terms/description">http://purl.org/dc/terms/description</a>
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license<sup>ap</sup>

<b>IRI</b>	<a href="http://purl.org/dc/terms/license">http://purl.org/dc/terms/license</a>
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title<sup>ap</sup>

<b>IRI</b>	<a href="http://purl.org/dc/terms/title">http://purl.org/dc/terms/title</a>
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preferred namespace prefix<sup>ap</sup>

<b>IRI</b>	<a href="http://purl.org/vocab/vann/preferredNamespacePrefix">http://purl.org/vocab/vann/preferredNamespacePrefix</a>
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preferred namespace uri<sup>ap</sup>

**IRI** <http://purl.org/vocab/vann/preferredNamespaceUri>

covers requirements<sup>ap</sup>

**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

<sup>c</sup>	Classes
<sup>op</sup>	Object Properties
<sup>ap</sup>	Annotation Properties