

# Circular Economy Ontology Network (CEON) - Circular Value Network Module

## Metadata

### IRI

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

### Title

Circular Economy Ontology Network (CEON) - Circular Value Network Module

### Creator

Eva Blomqvist

### Contributor

Huanyu Li

Mikael Lindecrantz

Robin Keskisärkkä

### Date Created

2023-03-22

### License

<https://creativecommons.org/licenses/by/4.0/>

### Version Iri

<http://w3id.org/CEON/ontology/cvn/0.1/>

### Version Info

0.1

### Preferred Namespace Prefix

cvn

### Preferred Namespace Uri

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

### Description

A core module of the CEON ontology network, defining aspects of the circular value network (CVN) itself.

### Covers Requirements

In addition to requirements covered by imported ODPs, covers the following requirements from Onto-DESIDE D3.1: CVN-CVN-1,6, CVN-Process-1,6, CVN-VP-1,3, CVN-Type-3, C0-1.

## Classes

### Participation<sup>c</sup>

#### IRI

<http://w3id.org/CEON/ontology/actorODP/Participation>

## Circular Value Network<sup>C</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/cvn/CVN">http://w3id.org/CEON/ontology/cvn/CVN</a>
<b>Description</b>	An instantiation of a circular value network, i.e. a concrete network of different actors collaborating to achieve some goal.
<b>Sub Class Of</b>	<a href="#">Collaboration<sup>C</sup></a>
<b>In Domain Of</b>	<a href="#">implements blueprint<sup>op</sup></a> <a href="#">implements strategy<sup>op</sup></a>

## Circular Value Network Blueprint<sup>C</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/cvn/CVNBlueprint">http://w3id.org/CEON/ontology/cvn/CVNBlueprint</a>
<b>Description</b>	A plan or a pattern of a CVN configuration that can then be filled with actual actors and processes. The blueprint can be used to capture a desired setup of a network, or for reusing patterns of CVNs.
<b>In Domain Of</b>	<a href="#">plans to implement strategy<sup>op</sup></a>
<b>In Range Of</b>	<a href="#">implements blueprint<sup>op</sup></a>

## Circular Strategy<sup>C</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/cvn/CircularStrategy">http://w3id.org/CEON/ontology/cvn/CircularStrategy</a>
<b>Description</b>	A circular strategy, such as to recycle, reuse or refurbish something.
<b>In Range Of</b>	<a href="#">implements strategy<sup>op</sup></a> <a href="#">plans to implement strategy<sup>op</sup></a>

## Collaboration<sup>C</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/cvn/Collaboration">http://w3id.org/CEON/ontology/cvn/Collaboration</a>
<b>Super Class Of</b>	<a href="#">Circular Value Network<sup>C</sup></a>

## Process<sup>C</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/process/Process">http://w3id.org/CEON/ontology/process/Process</a>
------------	---

## Resource<sup>C</sup>

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

## Value<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/value/Value>

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

## Value Proposition<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/value/ValueProposition>

**In Range Of** [aims at value](#)<sup>op</sup>

## Object Properties

### [aims at value](#)<sup>op</sup>

**IRI** <http://w3id.org/CEON/ontology/cvn/aimsAtValue>

**Description** The value proposition that the planned abstract CVN configuration, or concrete network wants to achieve.

**Domain** [Circular Value Network](#)<sup>C</sup> *or* [Circular Value Network Blueprint](#)<sup>C</sup>

**Range** [value:ValueProposition](#)<sup>C</sup>

### [composed of](#)<sup>op</sup>

**IRI** <http://w3id.org/CEON/ontology/cvn/composedOf>

**Description** Both a CVN and a process can be composed of other CVNs or processes.

**Domain** [Circular Value Network](#)<sup>C</sup> *or* [process:Process](#)<sup>C</sup>

**Range** [Circular Value Network](#)<sup>C</sup> *or* [process:Process](#)<sup>C</sup>

## creates value<sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/cvn/createsValue">http://w3id.org/CEON/ontology/cvn/createsValue</a>
<b>Description</b>	Value creation can be captured at the actor level, i.e. value created by an actor's participation in a collaboration, or at the process or complete CVN level.
<b>Domain</b>	<a href="#">process:Process</a> <sup>c</sup> or <a href="#">actorODP:Participation</a> <sup>c</sup> or <a href="#">Circular Value Network</a> <sup>c</sup>
<b>Range</b>	<a href="#">value:Value</a> <sup>c</sup>

## implements blueprint<sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/cvn/implementsBlueprint">http://w3id.org/CEON/ontology/cvn/implementsBlueprint</a>
<b>Description</b>	The blueprint (or plan) that this concrete CVN is an instance of.
<b>Domain</b>	<a href="#">Circular Value Network</a> <sup>c</sup>
<b>Range</b>	<a href="#">Circular Value Network Blueprint</a> <sup>c</sup>

## implements strategy<sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/cvn/implementsStrategy">http://w3id.org/CEON/ontology/cvn/implementsStrategy</a>
<b>Description</b>	A strategy that is implemented by this CVN or CVN blueprint.
<b>Sub Property Of</b>	<a href="#">related strategy</a> <sup>op</sup>
<b>Domain</b>	<a href="#">Circular Value Network</a> <sup>c</sup>
<b>Range</b>	<a href="#">Circular Strategy</a> <sup>c</sup>

## plans to implement strategy<sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/cvn/plansToImplementStrategy">http://w3id.org/CEON/ontology/cvn/plansToImplementStrategy</a>
<b>Description</b>	A strategy that is planned to be implemented by this CVN or CVN blueprint.
<b>Sub Property Of</b>	<a href="#">related strategy</a> <sup>op</sup>
<b>Domain</b>	<a href="#">Circular Value Network Blueprint</a> <sup>c</sup>
<b>Range</b>	<a href="#">Circular Strategy</a> <sup>c</sup>

related strategy<sup>op</sup>

**IRI** <http://w3id.org/CEON/ontology/cvn/relatedStrategy>

**Description** A strategy that is targeted by this CVN or CVN blueprint.

**Super Property Of**

- [implements strategy](#)<sup>op</sup>
- [plans to implement strategy](#)<sup>op</sup>

## Annotation Properties

contributor<sup>ap</sup>

**IRI** <http://purl.org/dc/terms/contributor>

creator<sup>ap</sup>

**IRI** <http://purl.org/dc/terms/creator>

description<sup>ap</sup>

**IRI** <http://purl.org/dc/terms/description>

title<sup>ap</sup>

**IRI** <http://purl.org/dc/terms/title>

preferred namespace prefix<sup>ap</sup>

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

preferred namespace uri<sup>ap</sup>

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

## Namespaces

:

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

**actor**

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

**actorODP**

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

**dcterms**

<http://purl.org/dc/terms/>

**odp**

<http://www.ontologydesignpatterns.org/schemas/cpannotationschema.owl#>

**owl**

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

**process**

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

**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#>

**resourceODP**

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

**value**

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

**vann**

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

**xsd**

<http://www.w3.org/2001/XMLSchema#>

## Legend

c

op

ap

Classes

Object Properties

Annotation Properties