

# Circular Value Network

## Metadata

### IRI

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

### Title

Circular Value Network

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### Version Iri

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

### Version Info

0.1

### Preferred Namespace Prefix

cvn

### Preferred Namespace Uri

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

### Description

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

## 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="#">implementsStrategy<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="#">plansToImplementStrategy<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="#">implementsStrategy<sup>op</sup></a> <a href="#">plansToImplementStrategy<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>Description</b>	Collaboration Some collaboration to achieve a goal.
<b>Super Class Of</b>	<a href="#">Circular Value Network<sup>C</sup></a>

## Process<sup>c</sup>

**IRI** <http://w3id.org/CEON/ontology/process/Process>

**In Domain Of** [next process](#)<sup>op</sup>

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

## Resource<sup>c</sup>

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

**In Range Of** [has participating resource](#)<sup>op</sup>

## 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

### has actor type<sup>op</sup>

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

**Description** The type of the actor.

## aims at value<sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/cvn/aimsAtValue">http://w3id.org/CEON/ontology/cvn/aimsAtValue</a>
<b>Description</b>	The value proposition that the planned abstract CVN configuration, or concrete network wants to achieve.
<b>Domain</b>	<a href="#">Circular Value Network Blueprint<sup>c</sup></a> or <a href="#">Circular Value Network<sup>c</sup></a>
<b>Range</b>	<a href="http://w3id.org/CEON/ontology/value/ValueProposition">http://w3id.org/CEON/ontology/value/ValueProposition<sup>c</sup></a>

## composed of<sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/cvn/composedOf">http://w3id.org/CEON/ontology/cvn/composedOf</a>
<b>Description</b>	Both a CVN and a process can be composed of other CVNs or processes.
<b>Domain</b>	<a href="http://w3id.org/CEON/ontology/process/Process">http://w3id.org/CEON/ontology/process/Process<sup>c</sup></a> or <a href="#">Circular Value Network<sup>c</sup></a>
<b>Range</b>	<a href="http://w3id.org/CEON/ontology/process/Process">http://w3id.org/CEON/ontology/process/Process<sup>c</sup></a> or <a href="#">Circular Value Network<sup>c</sup></a>

## 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="#">actorODP:Participation<sup>c</sup></a> or <a href="http://w3id.org/CEON/ontology/process/Process">http://w3id.org/CEON/ontology/process/Process<sup>c</sup></a> or <a href="#">Circular Value Network<sup>c</sup></a>
<b>Range</b>	<a href="http://w3id.org/CEON/ontology/value/Value">http://w3id.org/CEON/ontology/value/Value<sup>c</sup></a>

## 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<sup>c</sup></a>
<b>Range</b>	<a href="#">Circular Value Network Blueprint<sup>c</sup></a>

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

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

**Sub Property Of** [related strategy<sup>op</sup>](#)

**Domain** [Circular Value Network<sup>c</sup>](#)

**Range** [Circular Strategy<sup>c</sup>](#)

## next process<sup>op</sup>

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

**Description** Processes in a CVN are ordered in the sense that something has to be done before something else, since the input of one process may be the output of another.

**Domain** [http://w3id.org/CEON/ontology/process/Process<sup>c</sup>](http://w3id.org/CEON/ontology/process/Process)

**Range** [http://w3id.org/CEON/ontology/process/Process<sup>c</sup>](http://w3id.org/CEON/ontology/process/Process)

## has participant role<sup>op</sup>

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

**Description** Holds the value of the role of the participant in this participation relation.

## har participating actor<sup>op</sup>

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

**Description** Holds the value of the actor involved in this participation relation.

## has participating resource<sup>op</sup>

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

**Description** The resource that this participation relation relates to, i.e. for which the actor holds the specified role.

**Range** [http://w3id.org/CEON/ontology/resourceODP/Resource<sup>c</sup>](http://w3id.org/CEON/ontology/resourceODP/Resource)

is a participation in <sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/cvn/participationIn">http://w3id.org/CEON/ontology/cvn/participationIn</a>
<b>Description</b>	The collaboration or process that this participation relates to.
<b>Range</b>	<a href="#">Collaboration</a> <sup>c</sup> or <a href="http://w3id.org/CEON/ontology/process/Process">http://w3id.org/CEON/ontology/process/Process</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>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>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/cvn/relatedStrategy">http://w3id.org/CEON/ontology/cvn/relatedStrategy</a>
<b>Description</b>	A strategy that is targeted by this CVN or CVN blueprint.
<b>Super Property Of</b>	<ul style="list-style-type: none"><li>• <a href="#">implementsStrategy</a> <sup>op</sup></li><li>• <a href="#">plansToImplementStrategy</a> <sup>op</sup></li></ul>

## Datatype Properties

end time <sup>dp</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/cvn/endTime">http://w3id.org/CEON/ontology/cvn/endTime</a>
<b>Description</b>	The end of a time interval.
<b>Range</b>	<a href="#">xsd:gMonthYear</a> <sup>c</sup> or <a href="#">xsd:gYear</a> <sup>c</sup> or <a href="#">xsd:dateTime</a> <sup>c</sup> or <a href="#">xsd:date</a> <sup>c</sup>

start time<sup>dp</sup>

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

**Description** The start of a time interval.

**Range** [xsd:date<sup>c</sup>](#) or [xsd:dateTime<sup>c</sup>](#) or [xsd:gMonthYear<sup>c</sup>](#) or [xsd:gYear<sup>c</sup>](#)

time point<sup>dp</sup>

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

**Description** The point in time when something took place or was valid.

**Range** [xsd:dateTime<sup>c</sup>](#) or [xsd:gYear<sup>c</sup>](#) or [xsd:gMonthYear<sup>c</sup>](#) or [xsd:date<sup>c</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/>

**actorODP**

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

**dcterms**

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

**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/>

**xsd**

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

## Legend

<sup>c</sup>

Classes

<sup>op</sup>

Object Properties

<sup>dp</sup>

Datatype Properties

<sup>ap</sup>

Annotation Properties