# 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

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**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/ontoloy/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>

IRI http://w3id.org/CEON/ontology/cvn/CVN

Description

An instantiation of a circular value network, i.e. a concrete network of different

actors collaborating to achieve some goal.

Sub Class Of Collaboration<sup>C</sup>

In Domain Of implements blueprint op

implements strategy op

## Circular Value Network Blueprint C

IRI http://w3id.org/CEON/ontology/cvn/CVNBlueprint

Description

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.

In Domain Of plans to implement strategy op

In Range Of implements blueprint op

Circular Strategy <sup>C</sup>

IRI http://w3id.org/CEON/ontology/cvn/CircularStrategy

**Description**A circular strategy, such as to reccycle, reuse or refurbish something.

In Range Of implements strategy op

plans to implement strategy op

Collaboration <sup>C</sup>

IRI http://w3id.org/CEON/ontology/cvn/Collaboration

Super Class Of Circular Value Network<sup>C</sup>

Process <sup>C</sup>

IRI http://w3id.org/CEON/ontology/process/Process

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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 op

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

IRI http://w3id.org/CEON/ontology/value/ValueProposition

In Range Of aims at value op

## **Object Properties**

## aims at value op

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 <u>Circular Value Network <sup>c</sup> or Circular Value Network Blueprint <sup>c</sup></u>

Range value: Value Proposition C

## composed of op

IRI http://w3id.org/CEON/ontology/cvn/composedOf

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

Domain <u>process:Process or Circular Value Network or Circular Value Ne</u>

Range <u>Circular Value Network<sup>C</sup> or process:Process<sup>C</sup></u>

creates value op

IRI http://w3id.org/CEON/ontology/cvn/createsValue

**Description**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.

Domain Circular Value Network<sup>c</sup> or process:Process<sup>c</sup> or actorODP:Participation<sup>c</sup>

Range value: Value c

## implements blueprint op

IRI http://w3id.org/CEON/ontology/cvn/implementsBlueprint

**Description**The blueprint (or plan) that this concrete CVN is an instance of.

**Domain** Circular Value Network<sup>c</sup>

Range <u>Circular Value Network Blueprint</u><sup>C</sup>

## implements strategy op

IRI http://w3id.org/CEON/ontology/cvn/implementsStrategy

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

Sub Property Of related strategy op

**Domain** Circular Value Network<sup>C</sup>

Range <u>Circular Strategy</u><sup>c</sup>

#### plans to implement strategy op

IRI http://w3id.org/CEON/ontology/cvn/plansToImplementStrategy

Description

A strategy that is planned to be implemented by this CVN or CVN blueprint.

Sub Property Of related strategy op

Domain <u>Circular Value Network Blueprint</u><sup>C</sup>

Range <u>Circular Strategy</u><sup>c</sup>

related strategy op

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 op
• plans to implement strategy op

## **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 ap					
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

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```
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 Classes

Op Object Properties

Annotation Properties