

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

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 ^c | |
| IRI | http://w3id.org/CEON/ontology/actorODP/Participation |

Circular Value Network^C

| | |
|---------------------|---|
| 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^C |
| In Domain Of | implements blueprint^{op} implementsStrategy^{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 | plansToImplementStrategy^{op} |
| In Range Of | implements blueprint^{op} |

Circular Strategy^C

| | |
|--------------------|---|
| IRI | http://w3id.org/CEON/ontology/cvn/CircularStrategy |
| Description | A circular strategy, such as to recycle, reuse or refurbish something. |
| In Range Of | implementsStrategy^{op} plansToImplementStrategy^{op} |

Collaboration^C

| | |
|-----------------------|---|
| IRI | http://w3id.org/CEON/ontology/cvn/Collaboration |
| Description | Collaboration Some collaboration to achieve a goal. |
| Super Class Of | Circular Value Network^C |

Process^c

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

Resource^c

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

Value^c

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

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

Value Proposition^c

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 [Circular Value Network Blueprint](#)^c *or* [Circular Value Network](#)^c

Range [value:ValueProposition](#)^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 [Circular Value Network](#)^c *or* [process:Process](#)^c

Range [Circular Value Network](#)^c *or* [process:Process](#)^c

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 | process:Process ^c or actorODP:Participation ^c or Circular Value Network ^c |
| 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 ^c |
| Range | Circular Value Network Blueprint ^c |

implements strategy^{op}

| | |
|------------------------|---|
| IRI | http://w3id.org/CEON/ontology/cvn/implementsStrategy |
| Sub Property Of | related strategy ^{op} |
| Domain | Circular Value Network ^c |
| Range | Circular Strategy ^c |

plans to implement strategy^{op}

| | |
|------------------------|---|
| IRI | http://w3id.org/CEON/ontology/cvn/plansToImplementStrategy |
| Sub Property Of | related strategy ^{op} |
| Domain | Circular Value Network Blueprint ^c |
| Range | Circular Strategy ^c |

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

- [implementsStrategy^{op}](#)
- [plansToImplementStrategy^{op}](#)

Annotation Properties

contributor^{ap}

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

creator^{ap}

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

description^{ap}

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

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>

Namespaces

:

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

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