

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

Publisher

Onto-DESIDE

Creator

Huanyu Li

Contributor

Eva Blomqvist

Mikael Lindecrantz

Robin Keskisärkkä

Date Created

2025-05-22

Date Issued

2025-06-30

License

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

Version Iri

<http://w3id.org/CEON/ontology/cvn/0.3/>

Version Info

0.3

Prior Version

0.2

Preferred Namespace Prefix

ceon-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, CVN-Process-1,6, CVN-VP-1, CVN-Type-3, C0-1.

In addition to requirements covered by imported ODPs, covers the following requirements from Onto-DESIDE D3.2: CE1-1, CE2-1, CE3-1, CE3-2, CE4-1, CE5-16, C0-1.

Classes

Participation^C

IRI <http://w3id.org/CE0N/ontology/actor0DP/Participation>

Cvn^C

IRI <http://w3id.org/CE0N/ontology/cvn/CVN>

Is Defined By ISO 59004:2024 - 3.5.3 value network

Description A network of interlinked value chains and interested parties.

Sub Class Of [Collaboration^C](#)

In Domain Of [implementsBlueprint^{op}](#)
[implementsStrategy^{op}](#)

Cvn Blueprint^C

IRI <http://w3id.org/CE0N/ontology/cvn/CVNBlueprint>

In Domain Of [plansToImplementStrategy^{op}](#)

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

Circular Strategy^C

IRI <http://w3id.org/CE0N/ontology/cvn/CircularStrategy>

In Range Of [implementsStrategy^{op}](#)
[plansToImplementStrategy^{op}](#)

Collaboration^C

IRI <http://w3id.org/CE0N/ontology/cvn/Collaboration>

Super Class Of [CVN^C](#)

Process^C

IRI <http://w3id.org/CE0N/ontology/process0DP/Process>

Resource^C

IRI <http://w3id.org/CE0N/ontology/resource0DP/Resource>

Value^C

IRI <http://w3id.org/CE0N/ontology/value/Value>

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

Value Proposition^C

IRI <http://w3id.org/CE0N/ontology/value/ValueProposition>

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

Object Properties

aims at value^{op}

IRI <http://w3id.org/CE0N/ontology/cvn/aimsAtValue>

Domain [CVN](#)^C or [CVNBlueprint](#)^C

Range [value:ValueProposition](#)^C

composed of^{op}

IRI <http://w3id.org/CE0N/ontology/cvn/composedOf>

Domain [CVN](#)^C or [processODP:Process](#)^C

Range [CVN](#)^C or [processODP:Process](#)^C

creates value^{op}

IRI <http://w3id.org/CE0N/ontology/cvn/createsValue>

Domain [CVN](#)^C or [actorODP:Participation](#)^C or [processODP:Process](#)^C

Range [value:Value](#)^C

implements blueprint^{op}

IRI <http://w3id.org/CE0N/ontology/cvn/implementsBlueprint>

Domain [CVN](#)^C

Range [CVNBlueprint](#)^C

implements strategy^{op}

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

Sub Property Of [relatedStrategy^{op}](#)

Domain [CVN^c](#)

Range [CircularStrategy^c](#)

plans to implement strategy^{op}

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

Sub Property Of [relatedStrategy^{op}](#)

Domain [CVNBlueprint^c](#)

Range [CircularStrategy^c](#)

related strategy^{op}

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

Super Property Of

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

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#>

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

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/CE0N/ontology/value/>

vann

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

xsd

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

Legend

c	Classes
op	Object Properties