

Circular Economy Ontology Network (CEON) - Value Module

Metadata

IRI

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

Title

Circular Economy Ontology Network (CEON) - Value Module

Publisher

Onto-DESIDE

Creator

Huanyu Li

Contributor

Eva Blomqvist
Mikael Lindecrantz
Robin Keskiärrkkä

Date Created

2025-05-20

Date Issued

2025-06-30

License

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

Version Iri

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

Version Info

0.3

Preferred Namespace Prefix

ceon-value

Preferred Namespace Uri

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

Description

A core ODP of the CEON ontology network, defining aspects of the value concept.

Covers Requirements

Covers the following requirements from Onto-DESIDE D3.2: CE1-3, CE5-16, CE5-17, CE5-19, CE7-8, CE9-4, CE10-10, CE11-2, C2-1, C4-4, C4-6, C5-2.

Classes

| | |
|-----------------------|---|
| Resource ^c | |
| IRI | http://w3id.org/CEON/ontology/resourceODP/Resource |
| In Range Of | hasValuableResource ^{op} targettingResource ^{op} |

Economic Value^c

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

Sub Class Of [Value^c](#)

Equivalentclass [UseValue^c](#)

Environmental Value^c

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

Sub Class Of [Value^c](#)

Exchange Value^c

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

Sub Class Of [Value^c](#)

Social Value^c

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

Sub Class Of [Value^c](#)

Use Value^c

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

Sub Class Of [Value^c](#)

Value^c

| | |
|------------------------------|--|
| IRI | http://w3id.org/CEON/ontology/value/Value |
| <u>Is Defined By</u> | ISO 59004:2024 - 3.1.7 value |
| <u>Description</u> | Gain(s) or benefit(s) from satisfying needs and expectations, in relation to the use and conservation of resources. EXAMPLE: Revenue, savings, productivity, sustainability, satisfaction, empowerment, engagement, experience, public health, trust. Value is relative to, and determined by the perception of, those interested party(ies) able to capture it. Value can be financial or non-financial, e.g. social, environmental, other gains or benefits. Value is dynamic over time. |
| <u>In Range Of</u> | hasAimedValue ^{op} hasAssociatedValue ^{op} |
| <u>Super Class Of</u> | EconomicValue ^c EnvironmentalValue ^c ExchangeValue ^c SocialValue ^c UseValue ^c |

Value Participation^c

| | |
|----------------------------|---|
| IRI | http://w3id.org/CEON/ontology/value/ValueParticipation |
| <u>Sub Class Of</u> | actorODP:Participation |
| <u>In Domain Of</u> | hasValuableResource ^{op} hasValueParticipantRole ^{op} |
| <u>In Range Of</u> | onValueParticipation ^{op} targettingValueParticipation ^{op} |
| <u>Restriction</u> | hasAssociatedValue ^{op} some ValueParticipation ^c |

Value Participation Role^c

| | |
|---------------------------------|---|
| IRI | http://w3id.org/CEON/ontology/value/ValueParticipationRole |
| <u>Sub Class Of</u> | actorODP:Role |
| <u>In Range Of</u> | hasValueParticipantRole ^{op} |
| <u>Named Individuals</u> | ValueConsumer ⁿⁱ ValueContributor ⁿⁱ ValueCreator ⁿⁱ ValueDestroyer ⁿⁱ ValueDistributor ⁿⁱ ValueEvaluator ⁿⁱ |

Value Perception^C

| | |
|----------------------------|---|
| IRI | http://w3id.org/CE0N/ontology/value/ValuePerception |
| <u>In Domain Of</u> | hasAssociatedValue ^{op} onValueParticipation ^{op} |
| <u>In Range Of</u> | hasPerception ^{op} |

Value Proposition^C

| | |
|----------------------------|---|
| IRI | http://w3id.org/CE0N/ontology/value/ValueProposition |
| <u>In Domain Of</u> | hasAimedValue ^{op} proposedBy ^{op} targettingActor ^{op} targettingResource ^{op} targettingValueParticipation ^{op} |
| <u>Restriction</u> | hasAimedValue ^{op} some ValueProposition ^C targettingActor ^{op} some ValueProposition ^C targettingValueParticipation ^{op} some ValueProposition ^C |

Object Properties

has aimed value^{op}

| | |
|----------------------|---|
| IRI | http://w3id.org/CE0N/ontology/value/hasAimedValue |
| <u>Domain</u> | ValueProposition ^C |
| <u>Range</u> | Value ^C |

has associated value^{op}

| | |
|-------------------------------|---|
| IRI | http://w3id.org/CE0N/ontology/value/hasAssociatedValue |
| <u>Sub Property Of</u> | topObjectProperty ^{op} |
| <u>Domain</u> | ValuePerception ^C |
| <u>Range</u> | Value ^C |

has perception^{op}

| | |
|----------------------|---|
| IRI | http://w3id.org/CE0N/ontology/value/hasPerception |
| <u>Domain</u> | ValueProposition ^C <i>or</i> actorODP:Actor ^C |
| <u>Range</u> | ValuePerception ^C |

has vp targets^{op}

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

Super Property Of

- [targettingActor^{op}](#)
- [targettingResource^{op}](#)
- [targettingValueParticipation^{op}](#)

has valuable resource^{op}

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

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

Domain [ValueParticipation^c](#)

Range <http://w3id.org/CE0N/ontology/resourceODP/Resource^c>

has value participant role^{op}

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

Sub Property Of [actorODP:participantRole](#)

Domain [ValueParticipation^c](#)

Range [ValueParticipationRole^c](#)

on value participation^{op}

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

Domain [ValuePerception^c](#)

Range [ValueParticipation^c](#)

proposed by^{op}

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

Domain [ValueProposition^c](#)

Range [actorODP:Actor](#)

targetting actor^{op}

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

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

Domain [ValueProposition^c](#)

Range [actorODP:Actor](#)

targetting resource^{op}

| | |
|------------------------|--|
| IRI | http://w3id.org/CEON/ontology/value/targettingResource |
| Sub Property Of | hasVPTargets^{op} |
| Domain | ValueProposition^c |
| Range | http://w3id.org/CEON/ontology/resourceODP/Resource ^c |

targetting value participation^{op}

| | |
|------------------------|---|
| IRI | http://w3id.org/CEON/ontology/value/targettingValueParticipation |
| Sub Property Of | hasVPTargets^{op} |
| Domain | ValueProposition^c |
| Range | ValueParticipation^c |

Namespaces

| | |
|----------|---|
| : | http://w3id.org/CEON/ontology/value/ |
| 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# |
| 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

| | |
|---------------|-------------------|
| ^c | Classes |
| ^{op} | Object Properties |