

Circular Economy Ontology Network (CEON) - Value Module

Metadata

IRI

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

Title

Circular Economy Ontology Network (CEON) - Value Module

Creator

Huanyu Li

Contributor

Eva Blomqvist

Mikael Lindecrantz

Robin Keskisärkkä

Date Created

2025-05-20

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

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.

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/CEON/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/CE0N/ontology/value/Value>

Is Defined By ISO 59004:2024 - 3.1.7 value

Description 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.

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

Super Class Of [EconomicValue^c](#)
[EnvironmentalValue^c](#)
[ExchangeValue^c](#)
[SocialValue^c](#)
[UseValue^c](#)

Value Participation^C

IRI	http://w3id.org/CE0N/ontology/value/ValueParticipation
Sub Class Of	actorODP:Participation
In Domain Of	hasValuableResource ^{op} hasValueParticipantRole ^{op}
In Range Of	onValueParticipation ^{op} targettingValueParticipation ^{op}
Restriction	hasAssociatedValue ^{op} some ValueParticipation ^C

Value Participation Role^C

IRI	http://w3id.org/CE0N/ontology/value/ValueParticipationRole
Sub Class Of	actorODP:Role
In Range Of	hasValueParticipantRole ^{op}
Named Individuals	ValueConsumer ⁿⁱ ValueContributor ⁿⁱ ValueCreator ⁿⁱ ValueDestroyer ⁿⁱ ValueDistributor ⁿⁱ ValueEvaluator ⁿⁱ

Value Perception^C

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

Value Proposition^C

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

Domain [ValueProposition](#)^C

Range [Value](#)^C

has associated value^{op}

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

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

Domain [ValuePerception](#)^C

Range [Value](#)^C

has perception^{op}

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

Domain [actorODP:Actor](#)^C or [ValueProposition](#)^C

Range [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/CEON/ontology/value/hasValueParticipantRole
Sub Property Of	actorODP:participantRole
Domain	ValueParticipation ^c
Range	ValueParticipationRole ^c

on value participation^{op}

IRI	http://w3id.org/CEON/ontology/value/onValueParticipation
Domain	ValuePerception ^c
Range	ValueParticipation ^c

proposed by^{op}

IRI	http://w3id.org/CEON/ontology/value/proposedBy
Domain	ValueProposition ^c
Range	actorODP:Actor

targetting actor^{op}

IRI	http://w3id.org/CEON/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](#)

Annotation Properties

contributor^{ap}

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

created^{ap}

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

creator^{ap}

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

description^{ap}

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

license^{ap}

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

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/value/>

actorODP

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

dctterms

<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
ap	Annotation Properties