

# 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 Lindcrantz

Robin Keskkä

### 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/ontoloy/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 <sup>C</sup>	
IRI	<a href="http://w3id.org/CEON/ontology/resourceODP/Resource">http://w3id.org/CEON/ontology/resourceODP/Resource</a>
In Range Of	<a href="#"><u>hasValuableResource</u><sup>op</sup></a> <a href="#"><u>targettingResource</u><sup>op</sup></a>

## Economic Value<sup>c</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/value/EconomicValue">http://w3id.org/CEON/ontology/value/EconomicValue</a>
<b>Sub Class Of</b>	<a href="#">Value<sup>c</sup></a>
<b>Equivalentclass</b>	<a href="#">UseValue<sup>c</sup></a>

## Environmental Value<sup>c</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/value/EnvironmentalValue">http://w3id.org/CEON/ontology/value/EnvironmentalValue</a>
<b>Sub Class Of</b>	<a href="#">Value<sup>c</sup></a>

## Exchange Value<sup>c</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/value/ExchangeValue">http://w3id.org/CEON/ontology/value/ExchangeValue</a>
<b>Sub Class Of</b>	<a href="#">Value<sup>c</sup></a>

## Social Value<sup>c</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/value/SocialValue">http://w3id.org/CEON/ontology/value/SocialValue</a>
<b>Sub Class Of</b>	<a href="#">Value<sup>c</sup></a>

## Use Value<sup>c</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/value/UseValue">http://w3id.org/CEON/ontology/value/UseValue</a>
<b>Sub Class Of</b>	<a href="#">Value<sup>c</sup></a>

## Value<sup>c</sup>

**IRI** <http://w3id.org/CEON/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<sup>op</sup>](#)  
[hasAssociatedValue<sup>op</sup>](#)

**Super Class Of** [EconomicValue<sup>c</sup>](#)  
[EnvironmentalValue<sup>c</sup>](#)  
[ExchangeValue<sup>c</sup>](#)  
[SocialValue<sup>c</sup>](#)  
[UseValue<sup>c</sup>](#)

## Value Participation<sup>c</sup>

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

**Sub Class Of** [actorODP:Participation](#)

**In Domain Of** [hasValuableResource<sup>op</sup>](#)  
[hasValueParticipantRole<sup>op</sup>](#)

**In Range Of** [onValueParticipation<sup>op</sup>](#)  
[targettingValueParticipation<sup>op</sup>](#)

**Restriction** [hasAssociatedValue<sup>op</sup>](#) some [ValueParticipation<sup>c</sup>](#)

## Value Participation Role<sup>c</sup>

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

**Sub Class Of** [actorODP:Role](#)

**In Range Of** [hasValueParticipantRole<sup>op</sup>](#)

**Named Individuals** [ValueConsumer<sup>ni</sup>](#)  
[ValueContributor<sup>ni</sup>](#)  
[ValueCreator<sup>ni</sup>](#)  
[ValueDestroyer<sup>ni</sup>](#)  
[ValueDistributor<sup>ni</sup>](#)  
[ValueEvaluator<sup>ni</sup>](#)

## Value Perception <sup>c</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/value/ValuePerception">http://w3id.org/CEON/ontology/value/ValuePerception</a>
<b>In Domain Of</b>	<a href="#">hasAssociatedValue<sup>op</sup></a> <a href="#">onValueParticipation<sup>op</sup></a>
<b>In Range Of</b>	<a href="#">hasPerception<sup>op</sup></a>

## Value Proposition <sup>c</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/value/ValueProposition">http://w3id.org/CEON/ontology/value/ValueProposition</a>
<b>In Domain Of</b>	<a href="#">hasAimedValue<sup>op</sup></a> <a href="#">proposedBy<sup>op</sup></a> <a href="#">targettingActor<sup>op</sup></a> <a href="#">targettingResource<sup>op</sup></a> <a href="#">targettingValueParticipation<sup>op</sup></a>
<b>Restriction</b>	<a href="#">hasAimedValue<sup>op</sup></a> some <a href="#">ValueProposition<sup>c</sup></a> <a href="#">targettingActor<sup>op</sup></a> some <a href="#">ValueProposition<sup>c</sup></a> <a href="#">targettingValueParticipation<sup>op</sup></a> some <a href="#">ValueProposition<sup>c</sup></a>

## Object Properties

### has aimed value<sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/value/hasAimedValue">http://w3id.org/CEON/ontology/value/hasAimedValue</a>
<b>Domain</b>	<a href="#">ValueProposition<sup>c</sup></a>
<b>Range</b>	<a href="#">Value<sup>c</sup></a>

### has associated value<sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/value/hasAssociatedValue">http://w3id.org/CEON/ontology/value/hasAssociatedValue</a>
<b>Sub Property Of</b>	<a href="#">topObjectProperty<sup>op</sup></a>
<b>Domain</b>	<a href="#">ValuePerception<sup>c</sup></a>
<b>Range</b>	<a href="#">Value<sup>c</sup></a>

### has perception<sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/value/hasPerception">http://w3id.org/CEON/ontology/value/hasPerception</a>
<b>Domain</b>	<a href="#">actorODP:Actor<sup>c</sup></a> or <a href="#">ValueProposition<sup>c</sup></a>
<b>Range</b>	<a href="#">ValuePerception<sup>c</sup></a>

## has vp targets<sup>op</sup>

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

**Sub Property Of**

- [targettingActor<sup>op</sup>](#)
- [targettingResource<sup>op</sup>](#)
- [targettingValueParticipation<sup>op</sup>](#)

## has valuable resource<sup>op</sup>

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

**Sub Property Of** [topObjectProperty<sup>op</sup>](#)

**Domain** [ValueParticipation<sup>c</sup>](#)

**Range** [http://w3id.org/CEON/ontology/resourceODP/Resource<sup>c</sup>](http://w3id.org/CEON/ontology/resourceODP/Resource)

## has value participant role<sup>op</sup>

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

**Sub Property Of** [actorODP:participantRole](#)

**Domain** [ValueParticipation<sup>c</sup>](#)

**Range** [ValueParticipationRole<sup>c</sup>](#)

## on value participation<sup>op</sup>

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

**Domain** [ValuePerception<sup>c</sup>](#)

**Range** [ValueParticipation<sup>c</sup>](#)

## proposed by<sup>op</sup>

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

**Domain** [ValueProposition<sup>c</sup>](#)

**Range** [actorODP:Actor](#)

## targetting actor<sup>op</sup>

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

**Sub Property Of** [hasVPTargets<sup>op</sup>](#)

**Domain** [ValueProposition<sup>c</sup>](#)

**Range** [actorODP:Actor](#)

## targetting resource<sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/value/targettingResource">http://w3id.org/CEON/ontology/value/targettingResource</a>
<b>Sub Property Of</b>	<a href="#">hasVPTargets<sup>op</sup></a>
<b>Domain</b>	<a href="#">ValueProposition<sup>c</sup></a>
<b>Range</b>	<a href="http://w3id.org/CEON/ontology/resourceODP/Resource">http://w3id.org/CEON/ontology/resourceODP/Resource<sup>c</sup></a>

## targetting value participation<sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/value/targettingValueParticipation">http://w3id.org/CEON/ontology/value/targettingValueParticipation</a>
<b>Sub Property Of</b>	<a href="#">hasVPTargets<sup>op</sup></a>
<b>Domain</b>	<a href="#">ValueProposition<sup>c</sup></a>
<b>Range</b>	<a href="#">ValueParticipation<sup>c</sup></a>

## 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

 <b>c</b>	Classes
<b>op</b>	Object Properties