

# Circular Economy Ontology Network (CEON) - Actor ODP

## Metadata

### IRI

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

### Title

Circular Economy Ontology Network (CEON) - Actor ODP

### Creator

Eva Blomqvist

### Contributor

Huanyu Li

Mikael Lindecrantz

Robin Keskisärkkä

### Date Created

2023-03-17

### License

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

### Version Iri

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

### Version Info

0.3

### Preferred Namespace Prefix

actorODP

### Preferred Namespace Uri

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

### Description

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

### Covers Requirements

Covers the following requirements from Onto-DESIDE D3.1: CVN-Process-3, CVN-Actor-1,4,6,7, CVN-Competency-3, CVN-Information-4, C11-1, C11-3, E1-6,6,6,9, E4-10

Covers the following requirements from Onto-DESIDE D3.2: CE1-1, CE2-1, CE2-2, CE4-2, CE6-3, CE12-1, CE10-1, CE10-4, CE10-9, CVN-Actor-1,4,6,7, CVN-Competency-3, C11-1, C11-3, E1-6,6,6,9, E4-10

## Classes

Actor <sup>c</sup>	
IRI	<a href="http://w3id.org/CEON/ontology/actorODP/Actor">http://w3id.org/CEON/ontology/actorODP/Actor</a>
In Domain Of	<a href="#">actorType<sup>op</sup></a>
In Range Of	<a href="#">participatingActor<sup>op</sup></a>

Actor Type <sup>c</sup>	
IRI	<a href="http://w3id.org/CEON/ontology/actorODP/ActorType">http://w3id.org/CEON/ontology/actorODP/ActorType</a>
In Range Of	<a href="#">actorType<sup>op</sup></a>

## Capability<sup>c</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/actor0DP/Capability">http://w3id.org/CE0N/ontology/actor0DP/Capability</a>
<b><u>In Domain Of</u></b>	<a href="#">capabilityOf<sup>op</sup></a> <a href="#">capabilityProperty<sup>op</sup></a>
<b><u>In Range Of</u></b>	<a href="#">basedOnCapability<sup>op</sup></a>

## Collaboration Participation<sup>c</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/actor0DP/CollaborationParticipation">http://w3id.org/CE0N/ontology/actor0DP/CollaborationParticipation</a>
<b><u>Sub Class Of</u></b>	<a href="#">Participation<sup>c</sup></a>
<b><u>In Domain Of</u></b>	<a href="#">basedOnCapability<sup>op</sup></a> <a href="#">participationIn<sup>op</sup></a>

## Infrastructure<sup>c</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/actor0DP/Infrastructure">http://w3id.org/CE0N/ontology/actor0DP/Infrastructure</a>
<b><u>In Range Of</u></b>	<a href="#">participating_infrastructure<sup>op</sup></a>

## Participation<sup>c</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/actor0DP/Participation">http://w3id.org/CE0N/ontology/actor0DP/Participation</a>
<b><u>Sub Class Of</u></b>	<a href="#">participationStartTime<sup>dp</sup></a> <i>exactly 1</i> <a href="#">1<sup>c</sup></a> <i>or</i> <a href="#">participationTimePoint<sup>dp</sup></a> <i>exactly 1</i> <a href="#">1<sup>c</sup></a>
<b><u>In Domain Of</u></b>	<a href="#">participantRole<sup>op</sup></a> <a href="#">participatingActor<sup>op</sup></a> <a href="#">participating_infrastructure<sup>op</sup></a> <a href="#">participationEndTime<sup>dp</sup></a> <a href="#">participationStartTime<sup>dp</sup></a> <a href="#">participationTimePoint<sup>dp</sup></a>
<b><u>Super Class Of</u></b>	<a href="#">CollaborationParticipation<sup>c</sup></a> <a href="#">ResourceParticipation<sup>c</sup></a> <a href="#">ResourceRelation<sup>c</sup></a>

## Resource Participation<sup>c</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/actor0DP/ResourceParticipation">http://w3id.org/CE0N/ontology/actor0DP/ResourceParticipation</a>
<b><u>Sub Class Of</u></b>	<a href="#">Participation<sup>c</sup></a>
<b><u>In Domain Of</u></b>	<a href="#">participatingObject<sup>op</sup></a> <a href="#">participatingSubject<sup>op</sup></a>

## Resource Relation<sup>C</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/actor0DP/ResourceRelation">http://w3id.org/CE0N/ontology/actor0DP/ResourceRelation</a>
<b><u>Sub Class Of</u></b>	<a href="#">Participation<sup>C</sup></a>
<b><u>In Domain Of</u></b>	<a href="#">participatingResource<sup>op</sup></a>

## Role<sup>C</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/actor0DP/Role">http://w3id.org/CE0N/ontology/actor0DP/Role</a>
<b><u>In Range Of</u></b>	<a href="#">participantRole<sup>op</sup></a>

## Collaboration<sup>C</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/cvn/Collaboration">http://w3id.org/CE0N/ontology/cvn/Collaboration</a>
------------	---

## Process<sup>C</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/process0DP/Process">http://w3id.org/CE0N/ontology/process0DP/Process</a>
------------	---

## Resource<sup>C</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/resource0DP/Resource">http://w3id.org/CE0N/ontology/resource0DP/Resource</a>
<b><u>In Range Of</u></b>	<a href="#">participatingObject<sup>op</sup></a> <a href="#">participatingResource<sup>op</sup></a> <a href="#">participatingSubject<sup>op</sup></a>

## Object Properties

### actor type<sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/actor0DP/actorType">http://w3id.org/CE0N/ontology/actor0DP/actorType</a>
<b><u>Domain</u></b>	<a href="#">Actor<sup>C</sup></a>
<b><u>Range</u></b>	<a href="#">ActorType<sup>C</sup></a>

### based on capability<sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/actor0DP/basedOnCapability">http://w3id.org/CE0N/ontology/actor0DP/basedOnCapability</a>
<b><u>Domain</u></b>	<a href="#">CollaborationParticipation<sup>C</sup></a>
<b><u>Range</u></b>	<a href="#">Capability<sup>C</sup></a>

## capability of<sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/actor0DP/capabilityOf">http://w3id.org/CE0N/ontology/actor0DP/capabilityOf</a>
<b>Domain</b>	<a href="#">Capability</a> <sup>c</sup>
<b>Range</b>	<a href="#">Infrastructure</a> <sup>c</sup> or <a href="#">Actor</a> <sup>c</sup>

## capability property<sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/actor0DP/capabilityProperty">http://w3id.org/CE0N/ontology/actor0DP/capabilityProperty</a>
<b>Domain</b>	<a href="#">Capability</a> <sup>c</sup>

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

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/actor0DP/participantRole">http://w3id.org/CE0N/ontology/actor0DP/participantRole</a>
<b>Domain</b>	<a href="#">Participation</a> <sup>c</sup>
<b>Range</b>	<a href="#">Role</a> <sup>c</sup>

## participating actor<sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/actor0DP/participatingActor">http://w3id.org/CE0N/ontology/actor0DP/participatingActor</a>
<b>Domain</b>	<a href="#">Participation</a> <sup>c</sup>
<b>Range</b>	<a href="#">Actor</a> <sup>c</sup>

## participating object<sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/actor0DP/participatingObject">http://w3id.org/CE0N/ontology/actor0DP/participatingObject</a>
<b>Domain</b>	<a href="#">ResourceParticipation</a> <sup>c</sup>
<b>Range</b>	<a href="#">resourceODP:Resource</a> <sup>c</sup>

## participating resource<sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/actor0DP/participatingResource">http://w3id.org/CE0N/ontology/actor0DP/participatingResource</a>
<b>Domain</b>	<a href="#">ResourceRelation</a> <sup>c</sup>
<b>Range</b>	<a href="#">resourceODP:Resource</a> <sup>c</sup>

## participating subject<sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/actor0DP/participatingSubject">http://w3id.org/CE0N/ontology/actor0DP/participatingSubject</a>
<b>Domain</b>	<a href="#">ResourceParticipation</a> <sup>c</sup>
<b>Range</b>	<a href="#">resourceODP:Resource</a> <sup>c</sup>

## participating\_infrastructure<sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/actor0DP/participating_infrastructure">http://w3id.org/CE0N/ontology/actor0DP/participating_infrastructure</a>
<b>Domain</b>	<a href="#">Participation</a> <sup>c</sup>
<b>Range</b>	<a href="#">Infrastructure</a> <sup>c</sup>

## participation in<sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/actor0DP/participationIn">http://w3id.org/CE0N/ontology/actor0DP/participationIn</a>
<b>Domain</b>	<a href="#">CollaborationParticipation</a> <sup>c</sup>
<b>Range</b>	<a href="#">cvn:Collaboration</a> <sup>c</sup> or <a href="#">processODP:Process</a> <sup>c</sup>

## Datatype Properties

### participation end time<sup>dp</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/actor0DP/participationEndTime">http://w3id.org/CE0N/ontology/actor0DP/participationEndTime</a>
<b>Domain</b>	<a href="#">Participation</a> <sup>c</sup>
<b>Range</b>	<a href="#">xsd:dateTime</a> <sup>c</sup> or <a href="#">xsd:gMonthYear</a> <sup>c</sup> or <a href="#">xsd:gYear</a> <sup>c</sup> or <a href="#">xsd:date</a> <sup>c</sup>

### participation start time<sup>dp</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/actor0DP/participationStartTime">http://w3id.org/CE0N/ontology/actor0DP/participationStartTime</a>
<b>Domain</b>	<a href="#">Participation</a> <sup>c</sup>
<b>Range</b>	<a href="#">xsd:gMonthYear</a> <sup>c</sup> or <a href="#">xsd:date</a> <sup>c</sup> or <a href="#">xsd:gYear</a> <sup>c</sup> or <a href="#">xsd:dateTime</a> <sup>c</sup>

participation time point<sup>dp</sup>

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

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

**Range** [xsd:dateTime](#)<sup>c</sup> or [xsd:date](#)<sup>c</sup> or [xsd:gMonthYear](#)<sup>c</sup> or [xsd:gYear](#)<sup>c</sup>

## Annotation Properties

contributor<sup>ap</sup>

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

created<sup>ap</sup>

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

creator<sup>ap</sup>

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

description<sup>ap</sup>

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

license<sup>ap</sup>

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

title<sup>ap</sup>

**IRI** <http://purl.org/dc/terms/title>

preferred namespace prefix<sup>ap</sup>

**IRI** <http://purl.org/vocab/vann/preferredNamespacePrefix>

preferred namespace uri<sup>ap</sup>

**IRI** <http://purl.org/vocab/vann/preferredNamespaceUri>

**covers requirements**<sup>ap</sup>

**IRI** <http://www.ontologydesignpatterns.org/schemas/cpannotation-schema.owl#coversRequirements>

**definition**<sup>ap</sup>

**IRI** <http://www.w3.org/2004/02/skos/core#definition>

**pref label**<sup>ap</sup>

**IRI** <http://www.w3.org/2004/02/skos/core#prefLabel>

## Namespaces

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

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

**dcterms** <http://purl.org/dc/terms/>

**geo** <http://www.opengis.net/ont/geosparql#>

**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/>

**skos** <http://www.w3.org/2004/02/skos/core#>

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

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

## Legend

c	Classes
op	Object Properties
dp	Datatype Properties
ap	Annotation Properties