# 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/ontoloy/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	http://w3id.org/CEON/ontology/actorODP/Actor
In Domain Of	<u>actorType</u> <sup>op</sup>
In Range Of	<u>participatingActor</u> <sup>op</sup>
Actor Type <sup>c</sup>	
IRI	http://w3id.org/CEON/ontology/actorODP/ActorType
In Range Of	actorType <sup>op</sup>

Capability <sup>C</sup>

In Domain Of

<u>capabilityOf</u><sup>op</sup> <u>capabilityProperty</u><sup>op</sup>

In Range Of basedOnCapability op

Collaboration Participation <sup>C</sup>

http://w3id.org/CEON/ontology/actorODP/CollaborationPartic

ipation

Sub Class Of Participation<sup>C</sup>

In Domain Of

<u>basedOnCapability</u><sup>op</sup> <u>participationIn</u><sup>op</sup>

Infrastructure <sup>C</sup>

In Range Of <u>participating\_infrastructure\_op</u>

Participation <sup>C</sup>

IRI http://w3id.org/CEON/ontology/actorODP/Participation

Sub Class Of participationStartTime<sup>dp</sup> exactly 1 1c or participationTimePoint<sup>dp</sup> exactly 1 1c

**In Domain Of** 

participantRole op

<u>participatingActor</u><sup>op</sup>

participating\_infrastructure<sup>op</sup>
participationEndTime<sup>dp</sup>
participationStartTime<sup>dp</sup>
participationTimePoint<sup>dp</sup>

**Super Class Of** 

CollaborationParticipation<sup>c</sup>
ResourceParticipation<sup>c</sup>

ResourceRelation <sup>C</sup>

Resource Participation <sup>C</sup>

http://w3id.org/CEON/ontology/actorODP/ResourceParticipati

on

Sub Class Of Participation<sup>C</sup>

In Domain Of

participatingObject<sup>op</sup> participatingSubject<sup>op</sup> Resource Relation <sup>C</sup>

Sub Class Of Participation<sup>C</sup>

In Domain Of participatingResource op

Role <sup>C</sup>

In Range Of participantRole op

Collaboration <sup>c</sup>

Process<sup>C</sup>

Resource <sup>C</sup>

IRI http://w3id.org/CEON/ontology/resourceODP/Resource

In Range Of

<u>participatingObject</u><sup>op</sup> <u>participatingResource</u><sup>op</sup> <u>participatingSubject</u><sup>op</sup>

## **Object Properties**

actor type op

Domain Actor<sup>C</sup>

Range ActorType<sup>C</sup>

based on capability op

Domain CollaborationParticipation<sup>C</sup>

Range <u>Capability</u><sup>C</sup>

capability of op

http://w3id.org/CEON/ontology/actorODP/capabilityOf

Domain <u>Capability</u><sup>C</sup>

Range <u>Infrastructure</u> or <u>Actor</u>

capability property op

http://w3id.org/CEON/ontology/actorODP/capabilityProperty

Domain <u>Capability</u><sup>C</sup>

participant role op

http://w3id.org/CEON/ontology/actorODP/participantRole

Domain Participation<sup>C</sup>

Range Role<sup>C</sup>

participating actor op

Domain Participation<sup>C</sup>

Range Actor<sup>C</sup>

participating object op

Domain ResourceParticipation<sup>C</sup>

Range resourceODP:Resource<sup>C</sup>

participating resource op

http://w3id.org/CEON/ontology/actorODP/participatingResour

ce

Domain ResourceRelation<sup>C</sup>

Range resourceODP:Resource<sup>C</sup>

participating subject op

IRI http://w3id.org/CEON/ontology/actorODP/participatingSubjec

t

Domain ResourceParticipation<sup>C</sup>

Range resourceODP:Resource<sup>C</sup>

participating\_infrastructure op

structure

**Domain** Participation C

Range <u>Infrastructure</u><sup>C</sup>

participation in op

Domain CollaborationParticipation<sup>C</sup>

Range processODP:Process<sup>c</sup> or cvn:Collaboration<sup>c</sup>

### **Datatype Properties**

participation end time dp

IRI http://w3id.org/CEON/ontology/actorODP/participationEndTim

е

Domain Participation<sup>C</sup>

Range <u>xsd:dateTime<sup>c</sup> or xsd:date<sup>c</sup> or xsd:gMonthYear<sup>c</sup> or xsd:gYear<sup>c</sup></u>

participation start time dp

ime

Domain Participation<sup>C</sup>

Range xsd:date<sup>c</sup> or xsd:gMonthYear<sup>c</sup> or xsd:gYear<sup>c</sup> or xsd:dateTime<sup>c</sup>

participation time point <sup>dp</sup>		
IRI	<pre>http://w3id.org/CEON/ontology/actorODP/participationTimePo int</pre>	
Domain	<u>Participation</u> <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 names	pace prefix <sup>ap</sup>	
IRI	http://purl.org/vocab/vann/preferredNamespacePrefix	
preferred namespace uri <sup>ap</sup>		
IRI	http://purl.org/vocab/vann/preferredNamespaceUri	

#### **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

Classes
Object Properties
Datatype Properties
Annotation Properties