# Circular Economy Ontology Network (CEON) - Actor ODP

### Metadata

#### IRI

http://w3id.org/CEON/ontology/ac
torODP/

#### 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 D2.3: 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	<pre>http://w3id.org/CEO N/ontology/actorODP /Actor</pre>
In Domain Of	actorType <sup>op</sup>
In Range Of	participatingActor op

Actor Type <sup>c</sup>	
IRI	<pre>http://w3id.org/CEO N/ontology/actorODP /ActorType</pre>
In Range Of	actorType op

### Capability <sup>C</sup>

http://w3id.org/CE0

N/ontology/actorODP

/Capability

**In Domain Of** 

<u>capabilityOf</u>op

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

In Range Of basedOnCapability op

### Collaboration Participation <sup>C</sup>

IRI http://w3id.org/CE0

N/ontology/actorODP /CollaborationParti

cipation

Sub Class Of Participation C

**In Domain Of** 

basedOnCapability<sup>op</sup>

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

### Infrastructure <sup>C</sup>

http://w3id.org/CE0

N/ontology/actorODP

/Infrastructure

In Range Of <u>participating\_infrastructur</u>

e<sup>op</sup>

### Participation <sup>C</sup>

http://w3id.org/CE0

N/ontology/actorODP

/Participation

Sub Class Of participationStartTime dp

exactly 1 1c or

<u>participationTimePoint</u><sup>dp</sup>

exactly 1 1c

In Domain Of

participantRole op

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

participating\_infrastructur

e<sup>op</sup>

<u>participationEndTime</u> dp <u>participationStartTime</u> dp <u>participationTimePoint</u> dp

**Super Class Of** 

**CollaborationParticipation** 

С

ResourceParticipation C ResourceRelation C

### Resource Participation <sup>C</sup>

IRI http://w3id.org/CE0

N/ontology/actorODP /ResourceParticipat

ion

Sub Class Of Participation C

**In Domain Of** 

<u>participatingObject</u><sup>op</sup>

<u>participatingSubject</u><sup>op</sup>

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

http://w3id.org/CE0

N/ontology/actorODP /ResourceRelation

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

In Domain Of participatingResource op

### Role <sup>C</sup>

http://w3id.org/CE0

N/ontology/actorODP

/Role

In Range Of participantRole op

## Collaboration <sup>C</sup>

IRI http://w3id.org/CE0

N/ontology/cvn/Coll

aboration

### Process<sup>C</sup>

http://w3id.org/CE0

N/ontology/process0

**DP/Process** 

Resource <sup>C</sup>

http://w3id.org/CE0

N/ontology/resource

ODP/Resource

In Range Of

<u>participatingObject</u><sup>op</sup>

<u>participatingResource</u> op <u>participatingSubject</u> op

# **Object Properties**

actor type op

http://w3id.org/CE0

N/ontology/actorODP

/actorType

Domain Actor<sup>C</sup>

Range <u>ActorType</u><sup>C</sup>

based on capability op

http://w3id.org/CE0

N/ontology/actorODP /basedOnCapability

**Domain** <u>CollaborationParticipation</u>

С

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

capability of op

http://w3id.org/CE0

N/ontology/actorODP

/capabilityOf

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

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

capability property op

http://w3id.org/CE0

N/ontology/actorODP /capabilityProperty

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

participant role op

http://w3id.org/CE0

N/ontology/actorODP /participantRole

Domain Participation C

Range Role<sup>C</sup>

## participating actor op

http://w3id.org/CE0

N/ontology/actorODP /participatingActor

Domain Participation<sup>C</sup>

Range Actor<sup>C</sup>

### participating object op

http://w3id.org/CE0

N/ontology/actorODP /participatingObjec

t

Domain ResourceParticipation C

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

# participating resource op

IRI http://w3id.org/CE0

N/ontology/actorODP /participatingResou

rce

Domain ResourceRelation C

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

## participating subject op

http://w3id.org/CE0

N/ontology/actorODP /participatingSubje

ct

Domain ResourceParticipation<sup>C</sup>

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

## participating\_infrastructure op

http://w3id.org/CE0

N/ontology/actorODP /participating infr

astructure

Domain Participation C

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

## participation in op

http://w3id.org/CE0

N/ontology/actorODP /participationIn

**Domain** <u>CollaborationParticipation</u>

С

Range cvn:Collaboration c or

processODP:Process<sup>C</sup>

## **Datatype Properties**

## participation end time dp

http://w3id.org/CE0

N/ontology/actorODP /participationEndTi

me

**Domain** Participation C

Range xsd:gYear<sup>c</sup> or

xsd:gMonthYear<sup>c</sup> or xsd:dateTime<sup>c</sup> or

xsd:date<sup>C</sup>

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

http://w3id.org/CE0

N/ontology/actorODP /participationStart

Time

Domain Participation C

Range xsd:gMonthYear<sup>c</sup> or

xsd:date<sup>c</sup> or

xsd:dateTime<sup>c</sup> or

xsd:gYear<sup>c</sup>

participation time point dp

http://w3id.org/CE0

N/ontology/actorODP /participationTimeP

oint

**Domain** Participation<sup>C</sup>

Range xsd:dateTime<sup>c</sup> or

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

## **Annotation Properties**

contributor ap

IRI http://purl.org/dc/

terms/contributor

created ap

IRI http://purl.org/dc/

terms/created

creator ap

http://purl.org/dc/

terms/creator

# description ap

http://purl.org/dc/

terms/description

### license ap

http://purl.org/dc/

terms/license

## title <sup>ap</sup>

http://purl.org/dc/

terms/title

### preferred namespace prefix ap

http://purl.org/voc

ab/vann/preferredNa

mespacePrefix

## preferred namespace uri ap

http://purl.org/voc

ab/vann/preferredNa

mespaceUri

## covers requirements ap

IRI http://www.ontology

designpatterns.org/ schemas/cpannotatio nschema.owl#coversR

equirements

### definition ap

IRI http://www.w3.org/2

004/02/skos/core#de

finition

## pref label <sup>ap</sup>

IRI http://www.w3.org/2

004/02/skos/core#pr

efLabel

## Namespaces

http://w3id.org/CEON/ontology/ac torODP/

#### cvn

http://w3id.org/CEON/ontology/cv n/

#### dcterms

http://purl.org/dc/terms/

#### geo

http://www.opengis.net/ont/geosp

arql#

#### odp

```
http://www.ontologydesignpattern
    s.org/schemas/cpannotationschema
    .owl#
owl
    http://www.w3.org/2002/07/owl#
processODP
    http://w3id.org/CEON/ontology/pr
    ocessODP/
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/re
    sourceODP/
skos
    http://www.w3.org/2004/02/skos/c
    ore#
vann
    http://purl.org/vocab/vann/
xsd
    http://www.w3.org/2001/XMLSchema
```

### Legend

Clas С ses Obj ect ор Pro perti es Dat atyp е dp Pro perti es Ann otati on ар Pro perti

es