# Circular Economy Ontology Network (CEON) - Actor ODP

## Metadata

**IRI**

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

**Title**

Circular Economy Ontology Network (CEON) - Actor ODP

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**License**

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**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** | actorType <sup>op</sup> |
| **In Range Of** | participatingActor <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>

| | |
|---|---|
| **IRI** | http://w3id.org/CEON/ontology/actorODP/Capability |
| **In Domain Of** | capabilityOf <sup>op</sup><br>capabilityProperty <sup>op</sup> |
| **In Range Of** | basedOnCapability <sup>op</sup> |

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

| | |
|---|---|
| **IRI** | http://w3id.org/CEON/ontology/actorODP/CollaborationPartic ipation |
| **Sub Class Of** | Participation <sup>C</sup> |
| **In Domain Of** | basedOnCapability <sup>op</sup><br>participationIn <sup>op</sup> |

## Infrastructure <sup>C</sup>

| | |
|---|---|
| **IRI** | http://w3id.org/CEON/ontology/actorODP/Infrastructure |
| **In Range Of** | participating_infrastructure <sup>op</sup> |

## Participation <sup>C</sup>

| | |
|---|---|
| **IRI** | http://w3id.org/CEON/ontology/actorODP/Participation |
| **Sub Class Of** | participationStartTime <sup>dp</sup> *exactly* 1 1 <sup>C</sup> *or* participationTimePoint <sup>dp</sup> *exactly* 1 1 <sup>C</sup> |
| **In Domain Of** | participantRole <sup>op</sup><br>participatingActor <sup>op</sup><br>participating_infrastructure <sup>op</sup><br>participationEndTime <sup>dp</sup><br>participationStartTime <sup>dp</sup><br>participationTimePoint <sup>dp</sup> |
| **Super Class Of** | CollaborationParticipation <sup>C</sup><br>ResourceParticipation <sup>C</sup><br>ResourceRelation <sup>C</sup> |

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

| | |
|---|---|
| **IRI** | http://w3id.org/CEON/ontology/actorODP/ResourceParticipati on |
| **Sub Class Of** | Participation <sup>C</sup> |
| **In Domain Of** | participatingObject <sup>op</sup><br>participatingSubject <sup>op</sup> |

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

| | |
|---|---|
| **IRI** | `http://w3id.org/CEON/ontology/actorODP/ResourceRelation` |
| **Sub Class Of** | Participation <sup>C</sup> |
| **In Domain Of** | participatingResource <sup>op</sup> |

## Role <sup>C</sup>

| | |
|---|---|
| **IRI** | `http://w3id.org/CEON/ontology/actorODP/Role` |
| **In Range Of** | participantRole <sup>op</sup> |

## Collaboration <sup>C</sup>

| | |
|---|---|
| **IRI** | `http://w3id.org/CEON/ontology/cvn/Collaboration` |

## Process <sup>C</sup>

| | |
|---|---|
| **IRI** | `http://w3id.org/CEON/ontology/processODP/Process` |

## Resource <sup>C</sup>

| | |
|---|---|
| **IRI** | `http://w3id.org/CEON/ontology/resourceODP/Resource` |
| **In Range Of** | participatingObject <sup>op</sup><br>participatingResource <sup>op</sup><br>participatingSubject <sup>op</sup> |

## Object Properties

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

| | |
|---|---|
| **IRI** | `http://w3id.org/CEON/ontology/actorODP/actorType` |
| **Domain** | Actor <sup>C</sup> |
| **Range** | ActorType <sup>C</sup> |

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

| | |
|---|---|
| **IRI** | `http://w3id.org/CEON/ontology/actorODP/basedOnCapability` |
| **Domain** | CollaborationParticipation <sup>C</sup> |
| **Range** | Capability <sup>C</sup> |

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

| | |
|---|---|
| **IRI** | http://w3id.org/CEON/ontology/actorODP/capabilityOf |
| **Domain** | Capability <sup>C</sup> |
| **Range** | Infrastructure <sup>C</sup> *or* Actor <sup>C</sup> |

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

| | |
|---|---|
| **IRI** | http://w3id.org/CEON/ontology/actorODP/capabilityProperty |
| **Domain** | Capability <sup>C</sup> |

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

| | |
|---|---|
| **IRI** | http://w3id.org/CEON/ontology/actorODP/participantRole |
| **Domain** | Participation <sup>C</sup> |
| **Range** | Role <sup>C</sup> |

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

| | |
|---|---|
| **IRI** | http://w3id.org/CEON/ontology/actorODP/participatingActor |
| **Domain** | Participation <sup>C</sup> |
| **Range** | Actor <sup>C</sup> |

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

| | |
|---|---|
| **IRI** | http://w3id.org/CEON/ontology/actorODP/participatingObject |
| **Domain** | ResourceParticipation <sup>C</sup> |
| **Range** | resourceODP:Resource <sup>C</sup> |

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

| | |
|---|---|
| **IRI** | http://w3id.org/CEON/ontology/actorODP/participatingResource |
| **Domain** | ResourceRelation <sup>C</sup> |
| **Range** | resourceODP:Resource <sup>C</sup> |

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

**IRI**

`http://w3id.org/CEON/ontology/actorODP/participatingSubject`

**Domain**

ResourceParticipation <sup>C</sup>

**Range**

resourceODP:Resource <sup>C</sup>

## participating_infrastructure <sup>op</sup>

**IRI**

`http://w3id.org/CEON/ontology/actorODP/participating_infrastructure`

**Domain**

Participation <sup>C</sup>

**Range**

Infrastructure <sup>C</sup>

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

**IRI**

`http://w3id.org/CEON/ontology/actorODP/participationIn`

**Domain**

CollaborationParticipation <sup>C</sup>

**Range**

processODP:Process <sup>C</sup> *or* cvn:Collaboration <sup>C</sup>

## Datatype Properties

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

**IRI**

`http://w3id.org/CEON/ontology/actorODP/participationEndTime`

**Domain**

Participation <sup>C</sup>

**Range**

xsd:date <sup>C</sup> *or* xsd:gMonthYear <sup>C</sup> *or* xsd:dateTime <sup>C</sup> *or* xsd:gYear <sup>C</sup>

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

**IRI**

`http://w3id.org/CEON/ontology/actorODP/participationStartTime`

**Domain**

Participation <sup>C</sup>

**Range**

xsd:dateTime <sup>C</sup> *or* xsd:gYear <sup>C</sup> *or* xsd:gMonthYear <sup>C</sup> *or* xsd:date <sup>C</sup>

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

| | |
|---|---|
| **IRI** | http://w3id.org/CEON/ontology/actorODP/participationTimePoint |
| **Domain** | Participation <sup>c</sup> |
| **Range** | xsd:gMonthYear <sup>c</sup> *or* xsd:dateTime <sup>c</sup> *or* xsd:date <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 |