## 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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**Version Iri** 

http://w3id.org/CEON/ontology/actorODP/0.2/

**Version Info** 

0.2

**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

#### Classes

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

In Domain Of

actorType op

<u>hasActorLocation</u><sup>op</sup>

In Range Of

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

Actor Type C

In Range Of actorType op

Capability <sup>C</sup>

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

In Domain Of

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

In Range Of <u>basedOnCapability</u>op

Collaboration Participation <sup>C</sup>

ipation

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

In Domain Of

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

Participation <sup>C</sup>

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

In Domain Of

participantRole<sup>op</sup>
participatingActor<sup>op</sup>
participationEndTime<sup>dp</sup>
participationStartTime<sup>dp</sup>
participationTimePoint<sup>dp</sup>

**Super Class Of** 

CollaborationParticipation C ResourceParticipation C ResourceRelation C

Resource Participation <sup>C</sup>

on

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

In Domain Of

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

Resource Relation <sup>C</sup>

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

In Domain Of participatingResource op

Role <sup>C</sup>			
IRI	http://w3id.org/CEON/ontology/actorODP/Role		
In Range Of	<u>participantRole</u> <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	<u>participatingResource</u> <sup>op</sup>		
Geometry <sup>c</sup>			
IRI	http://www.opengis.net/ont/geosparql#Geometry		
Description	A coherent set of direct positions in space. The positions are held within a Spatial Reference System (SRS).		
In Domain Of	as GML <sup>dp</sup> as GeoJSON <sup>dp</sup> as WKT <sup>dp</sup>		
In Range Of	hasActorLocation <sup>op</sup>		

# **Object Properties**

actor type op	
IRI	http://w3id.org/CEON/ontology/actorODP/actorType
Domain	Actor <sup>c</sup>
Range	<u>ActorType</u> <sup>C</sup>

based on capability op

<u>Domain</u> <u>CollaborationParticipation<sup>C</sup></u>

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

capability of op

Domain <u>Capability</u><sup>c</sup>

Range Actor<sup>C</sup>

capability property op

Domain <u>Capability</u><sup>c</sup>

has actor location op

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

Domain Actor<sup>C</sup>

Range Geometry<sup>C</sup>

participant role op

Domain Participation<sup>C</sup>

Range Role<sup>C</sup>

participating actor op

Domain Participation<sup>C</sup>

Range Actor C

participating object op

Domain ResourceParticipation<sup>c</sup>

participating resource op

IRI http://w3id.org/CEON/ontology/actor0DP/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>

participation in op

<u>Domain</u> <u>CollaborationParticipation<sup>C</sup></u>

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

### **Datatype Properties**

participation end time dp

e

Domain Participation C

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

participation start time <sup>dp</sup>

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

ime

Domain Participation C

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

participation time point dp

int

Domain Participation<sup>C</sup>

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

as  $GML^{dp}$ 

Is Defined By <a href="http://www.opengis.net/spec/geosparq/1.0/req/geometry-extension/geometry-">http://www.opengis.net/spec/geosparq//1.0/req/geometry-extension/geometry-</a>

as-wkt-literal

**Description** The GML serialization of a Geometry.

Domain Geometry<sup>c</sup>

Range <u>geo:gmlLiteral</u>

as GeoJSON<sup>dp</sup>

http://www.opengis.net/ont/geosparql#asGeoJSON

Is Defined By <a href="http://www.opengis.net/spec/geosparql/1.0/req/geometry-extension/geometry-">http://www.opengis.net/spec/geosparql/1.0/req/geometry-extension/geometry-</a>

as-wkt-literal

**Description**The GeoJSON serialization of a Geometry.

Domain Geometry <sup>C</sup>

Range geo:geoJSONLiteral

as WKT<sup>dp</sup>

Is Defined By <a href="http://www.opengis.net/spec/geosparql/1.0/req/geometry-extension/geometry-">http://www.opengis.net/spec/geosparql/1.0/req/geometry-extension/geometry-</a>

as-wkt-literal

**Description** The WKT serialization of a Geometry.

Domain Geometry<sup>C</sup>

Range geo:wktLiteral

### **Annotation Properties**

contributor ap

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

created ap

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

creator ap

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	space prefix <sup>ap</sup>	
IRI	http://purl.org/vocab/vann/preferredNamespacePrefix	
preferred names	space uri <sup>ap</sup>	
IRI	http://purl.org/vocab/vann/preferredNamespaceUri	
covers requirem	ents <sup>ap</sup>	
IRI	http://www.ontologydesignpatterns.org/schemas/cpannotationschema.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	I.org/CEON/ontology/actorODP/	

```
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

