

# 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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**Date Created**

2023-03-17

**License**

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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/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

## 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> <a href="#">hasActorLocation<sup>op</sup></a>
In Range Of	<a href="#">capabilityOf<sup>op</sup></a> <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>

**IRI** <http://w3id.org/CE0N/ontology/actorODP/Capability>

**In Domain Of** [capabilityOf](#)<sup>op</sup>  
[capabilityProperty](#)<sup>op</sup>

**In Range Of** [basedOnCapability](#)<sup>op</sup>

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

**IRI** <http://w3id.org/CE0N/ontology/actorODP/CollaborationParticipation>

**Sub Class Of** [Participation](#)<sup>c</sup>

**In Domain Of** [basedOnCapability](#)<sup>op</sup>  
[participationIn](#)<sup>op</sup>

## Participation<sup>c</sup>

**IRI** <http://w3id.org/CE0N/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>  
[participatingActor](#)<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>

**IRI** <http://w3id.org/CE0N/ontology/actorODP/ResourceParticipation>

**Sub Class Of** [Participation](#)<sup>c</sup>

**In Domain Of** [participatingObject](#)<sup>op</sup>  
[participatingSubject](#)<sup>op</sup>

## Resource Relation<sup>c</sup>

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

**In Range Of** [participantRole](#)<sup>op</sup>

## Collaboration<sup>C</sup>

**IRI** <http://w3id.org/CE0N/ontology/cvn/Collaboration>

## Process<sup>C</sup>

**IRI** <http://w3id.org/CE0N/ontology/process0DP/Process>

## Resource<sup>C</sup>

**IRI** <http://w3id.org/CE0N/ontology/resource0DP/Resource>

**In Range Of** [participatingResource](#)<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<sup>op</sup>

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

**Domain** [Actor](#)<sup>C</sup>

**Range** [ActorType](#)<sup>C</sup>

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

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

**Domain** [CollaborationParticipation](#)<sup>C</sup>

**Range** [Capability](#)<sup>C</sup>

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

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

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

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

## has actor location<sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/actorODP/hasActorLocation">http://w3id.org/CE0N/ontology/actorODP/hasActorLocation</a>
<b><u>Domain</u></b>	<a href="#">Actor</a> <sup>c</sup>
<b><u>Range</u></b>	<a href="#">Geometry</a> <sup>c</sup>

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

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

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

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

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

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/actorODP/participatingObject">http://w3id.org/CE0N/ontology/actorODP/participatingObject</a>
<b><u>Domain</u></b>	<a href="#">ResourceParticipation</a> <sup>c</sup>

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

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

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

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/actorODP/participatingSubject">http://w3id.org/CEON/ontology/actorODP/participatingSubject</a>
<b>Domain</b>	<a href="#">ResourceParticipation</a> <sup>C</sup>

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

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

## Datatype Properties

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

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/actorODP/participationEndTime">http://w3id.org/CEON/ontology/actorODP/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:date</a> <sup>C</sup> or <a href="#">xsd:gYear</a> <sup>C</sup> or <a href="#">xsd:gMonthYear</a> <sup>C</sup>

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

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

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

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/actorODP/participationTimePoint">http://w3id.org/CEON/ontology/actorODP/participationTimePoint</a>
<b>Domain</b>	<a href="#">Participation</a> <sup>C</sup>
<b>Range</b>	<a href="#">xsd:gYear</a> <sup>C</sup> or <a href="#">xsd:dateTime</a> <sup>C</sup> or <a href="#">xsd:gMonthYear</a> <sup>C</sup> or <a href="#">xsd:date</a> <sup>C</sup>

### as GML<sup>dp</sup>

<b>IRI</b>	<a href="http://www.opengis.net/ont/geosparql#asGML">http://www.opengis.net/ont/geosparql#asGML</a>
<b>Is Defined By</b>	<a href="http://www.opengis.net/spec/geosparql/1.0/req/geometry-extension/geometry-as-wkt-literal">http://www.opengis.net/spec/geosparql/1.0/req/geometry-extension/geometry-as-wkt-literal</a>
<b>Description</b>	The GML serialization of a Geometry.
<b>Domain</b>	<a href="#">Geometry</a> <sup>C</sup>
<b>Range</b>	<a href="#">geo:gmlLiteral</a>

## as GeoJSON<sup>dp</sup>

<b>IRI</b>	<a href="http://www.opengis.net/ont/geosparql#asGeoJSON">http://www.opengis.net/ont/geosparql#asGeoJSON</a>
<b><u>Is Defined By</u></b>	<a href="http://www.opengis.net/spec/geosparql/1.0/req/geometry-extension/geometry-as-wkt-literal">http://www.opengis.net/spec/geosparql/1.0/req/geometry-extension/geometry-as-wkt-literal</a>
<b><u>Description</u></b>	The GeoJSON serialization of a Geometry.
<b><u>Domain</u></b>	<a href="#">Geometry</a> <sup>c</sup>
<b><u>Range</u></b>	<a href="#">geo:geoJSONLiteral</a>

## as WKT<sup>dp</sup>

<b>IRI</b>	<a href="http://www.opengis.net/ont/geosparql#asWKT">http://www.opengis.net/ont/geosparql#asWKT</a>
<b><u>Is Defined By</u></b>	<a href="http://www.opengis.net/spec/geosparql/1.0/req/geometry-extension/geometry-as-wkt-literal">http://www.opengis.net/spec/geosparql/1.0/req/geometry-extension/geometry-as-wkt-literal</a>
<b><u>Description</u></b>	The WKT serialization of a Geometry.
<b><u>Domain</u></b>	<a href="#">Geometry</a> <sup>c</sup>
<b><u>Range</u></b>	<a href="#">geo:wktLiteral</a>

## Annotation Properties

### contributor<sup>ap</sup>

<b>IRI</b>	<a href="http://purl.org/dc/terms/contributor">http://purl.org/dc/terms/contributor</a>
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### created<sup>ap</sup>

<b>IRI</b>	<a href="http://purl.org/dc/terms/created">http://purl.org/dc/terms/created</a>
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### creator<sup>ap</sup>

<b>IRI</b>	<a href="http://purl.org/dc/terms/creator">http://purl.org/dc/terms/creator</a>
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### description<sup>ap</sup>

<b>IRI</b>	<a href="http://purl.org/dc/terms/description">http://purl.org/dc/terms/description</a>
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### license<sup>ap</sup>

<b>IRI</b>	<a href="http://purl.org/dc/terms/license">http://purl.org/dc/terms/license</a>
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### title<sup>ap</sup>

<b>IRI</b>	<a href="http://purl.org/dc/terms/title">http://purl.org/dc/terms/title</a>
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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/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.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