

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/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

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 ^c	
IRI	http://w3id.org/CEON/ontology/actorODP/Actor
In Domain Of	actorType^{op}
In Range Of	participatingActor^{op}

Actor Type ^c	
IRI	http://w3id.org/CEON/ontology/actorODP/ActorType
In Range Of	actorType^{op}

Capability^C

IRI	http://w3id.org/CE0N/ontology/actor0DP/Capability
<u>In Domain Of</u>	capabilityOf^{op} capabilityProperty^{op}
<u>In Range Of</u>	basedOnCapability^{op}

Collaboration Participation^C

IRI	http://w3id.org/CE0N/ontology/actor0DP/CollaborationParticipation
<u>Sub Class Of</u>	Participation^C
<u>In Domain Of</u>	basedOnCapability^{op} participationIn^{op}

Infrastructure^C

IRI	http://w3id.org/CE0N/ontology/actor0DP/Infrastructure
<u>In Range Of</u>	participating_infrastructure^{op}

Participation^C

IRI	http://w3id.org/CE0N/ontology/actor0DP/Participation
<u>Sub Class Of</u>	participationTimePoint^{dp} <i>exactly 1</i> 1^C <i>or</i> participationStartTime^{dp} <i>exactly 1</i> 1^C
<u>In Domain Of</u>	participantRole^{op} participatingActor^{op} participating_infrastructure^{op} participationEndTime^{dp} participationStartTime^{dp} participationTimePoint^{dp}
<u>Super Class Of</u>	CollaborationParticipation^C ResourceParticipation^C ResourceRelation^C

Resource Participation^C

IRI	http://w3id.org/CE0N/ontology/actor0DP/ResourceParticipation
<u>Sub Class Of</u>	Participation^C
<u>In Domain Of</u>	participatingObject^{op} participatingSubject^{op}

Resource Relation^C

IRI	http://w3id.org/CE0N/ontology/actor0DP/ResourceRelation
<u>Sub Class Of</u>	Participation^C
<u>In Domain Of</u>	participatingResource^{op}

Role^C

IRI	http://w3id.org/CE0N/ontology/actor0DP/Role
<u>In Range Of</u>	participantRole^{op}

Collaboration^C

IRI	http://w3id.org/CE0N/ontology/cvn/Collaboration
------------	---

Process^C

IRI	http://w3id.org/CE0N/ontology/process0DP/Process
------------	---

Resource^C

IRI	http://w3id.org/CE0N/ontology/resource0DP/Resource
<u>In Range Of</u>	participatingObject^{op} participatingResource^{op} participatingSubject^{op}

Object Properties

actor type^{op}

IRI	http://w3id.org/CE0N/ontology/actor0DP/actorType
<u>Domain</u>	Actor^C
<u>Range</u>	ActorType^C

based on capability^{op}

IRI	http://w3id.org/CE0N/ontology/actor0DP/basedOnCapability
<u>Domain</u>	CollaborationParticipation^C
<u>Range</u>	Capability^C

capability of^{op}

IRI	http://w3id.org/CE0N/ontology/actor0DP/capabilityOf
Domain	Capability ^c
Range	Infrastructure ^c or Actor ^c

capability property^{op}

IRI	http://w3id.org/CE0N/ontology/actor0DP/capabilityProperty
Domain	Capability ^c

participant role^{op}

IRI	http://w3id.org/CE0N/ontology/actor0DP/participantRole
Domain	Participation ^c
Range	Role ^c

participating actor^{op}

IRI	http://w3id.org/CE0N/ontology/actor0DP/participatingActor
Domain	Participation ^c
Range	Actor ^c

participating object^{op}

IRI	http://w3id.org/CE0N/ontology/actor0DP/participatingObject
Domain	ResourceParticipation ^c
Range	resourceODP:Resource ^c

participating resource^{op}

IRI	http://w3id.org/CE0N/ontology/actor0DP/participatingResource
Domain	ResourceRelation ^c
Range	resourceODP:Resource ^c

participating subject^{op}

IRI	http://w3id.org/CE0N/ontology/actor0DP/participatingSubject
Domain	ResourceParticipation ^c
Range	resourceODP:Resource ^c

participating_infrastructure^{op}

IRI	http://w3id.org/CE0N/ontology/actor0DP/participating_infrastructure
Domain	Participation ^c
Range	Infrastructure ^c

participation in^{op}

IRI	http://w3id.org/CE0N/ontology/actor0DP/participationIn
Domain	CollaborationParticipation ^c
Range	processODP:Process ^c or cvn:Collaboration ^c

Datatype Properties

participation end time^{dp}

IRI	http://w3id.org/CE0N/ontology/actor0DP/participationEndTime
Domain	Participation ^c
Range	xsd:gMonthYear ^c or xsd:gYear ^c or xsd:date ^c or xsd:dateTime ^c

participation start time^{dp}

IRI	http://w3id.org/CE0N/ontology/actor0DP/participationStartTime
Domain	Participation ^c
Range	xsd:date ^c or xsd:dateTime ^c or xsd:gMonthYear ^c or xsd:gYear ^c

participation time point^{dp}

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

Domain [Participation](#)^c

Range [xsd:date](#)^c or [xsd:gYear](#)^c or [xsd:gMonthYear](#)^c or [xsd:dateTime](#)^c

Annotation Properties

contributor^{ap}

IRI <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^{ap}

IRI <http://purl.org/dc/terms/description>

license^{ap}

IRI <http://purl.org/dc/terms/license>

title^{ap}

IRI <http://purl.org/dc/terms/title>

preferred namespace prefix^{ap}

IRI <http://purl.org/vocab/vann/preferredNamespacePrefix>

preferred namespace uri^{ap}

IRI <http://purl.org/vocab/vann/preferredNamespaceUri>

covers requirements^{ap}

IRI <http://www.ontologydesignpatterns.org/schemas/cpannotation-schema.owl#coversRequirements>

definition^{ap}

IRI <http://www.w3.org/2004/02/skos/core#definition>

pref label^{ap}

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