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

https://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

Actor ^C

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

DescriptionAn agent able to act in the context of a circular value network, e.g. an

organisation, person.

In Domain Of has actor type op

In Range Of capability of op

has participating actor op

Actor Type^C

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

Description

The type of an actor, e.g. the type of company, or a specific subtype based on the

organisations capabilities.

In Range Of has actor type op

Capability ^C

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

Description

Something that the actor is capable of doing, e.g. perfomring a certain role in a

process, based on some properties, such as access to infrastructure, resources

and know-how.

In Domain Of capability of op

capability property^{op}

In Range Of <u>based on capability op</u>

Collaboration participation ^c

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

Description

The relation involving the role of a certain actor with respect to a value network or a process in such a network, e.g. an organisation (actor) acting as the recycler (role) in a glass recycling value netowrk (network) at a specific point or period in time. Or an organisation (actor) acting as the dismantler (role) in a dismantling step of a building deconstruction process (process step) at a specific point or

period in time.

Sub Class Of Participation^C

In Domain Of

based on capability op is a participation in op

Participation ^c

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

Description Represents the participation of objects in some situation.

participation start time dp exactly 1 1c or participation time point per exactly 1 1c **Sub Class Of**

In Domain Of

has participant role op has participating actor op participation start time dp participation time point^{dp}

Super Class Of

Collaboration participation^C Resource participation ^C Resource Relation^C

Resource participation ^C

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

Description The generic relation representing the participation of a resource in some relation.

For example, it can be specialized to represent a reified version of an object or

data property.

Sub Class Of Participation^c

In Domain Of participating object op

participating subject op

Resource Relation^C

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

Description

The relation involving the role of a certain actor with respect to a certain resource,

e.g. an organisation or individual (actor) owning (role) a specific product (resource)

at a specific point or period in time.

Sub Class Of Participation^C

In Domain Of has participating resource op

Role^C

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

DescriptionA role that an actor can take in a specific context. Applies both to roles in the

context of resources, such as owner, manufacturer, reseller etc. of that resource, as well as roles in relation to a circular value network, such as recycler, dismantler,

transporter etc., in relation to a material flow.

In Range Of has participant role op

Collaboration ^C

IRI http://w3id.org/CEON/ontology/cvn/Collaboration

Description A collaboration between a set of actors.

Process ^C

IRI http://w3id.org/CEON/ontology/processODP/Process

Resource ^C

IRI http://w3id.org/CEON/ontology/resourceODP/Resource

In Range Of has participating resource op

Object Properties

has actor type op

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

Description The type of the actor.

Domain Actor^c

Range Actor Type C

based on capability op

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

DescriptionAn actor participates in a collaboration based on that it has some capability that is

useful for the collaboration.

Domain Collaboration participation^C

Range <u>Capability</u>^c

capability of op

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

DescriptionRelates to the actor holding the capability.

Domain Capability C

Range Actor^C

capability property op

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

Description

Relates some properties to the capability, such as the parameters of it, or the

needed resources.

Domain Capability^c

has location op

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

DescriptionDefines the location of an actor or resource.

Domain resourceODP:Resource or Actor c

has participant role op

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

DescriptionHolds the value of the participant in this participation relation.

Domain Participation^C

Range Role^C

has participating actor op

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

DescriptionHolds the value of the actor involved in this participation relation.

Domain Participation^C

Range Actor^C

participating object op

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

Description

Participating object in a resource participation. This is part of a resource

participation that can be a directional relation, and the participating object is the

end point of the relation.

Domain Resource participation C

has participating resource op

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

Description

The resource that this participation relates to, i.e. for which the actor holds

the specified role.

Domain Resource Relation^C

Range resourceODP:Resource^C

participating subject op

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

Description

Participating subject in a resource participation. This is part of a resource

participation that can be a directional relation, and the participating subject is the

starting point of the relation.

Domain Resource participation^C

is a participation in ^{op}

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

DescriptionThe collaboration or process that this participation relates to.

Domain Collaboration participation^C

Range Collaboration or processODP:Process

Datatype Properties

participation end time dp

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

DescriptionThe end of a time interval.

Range xsd:gYear^c or xsd:dateTime^c or xsd:gMonthYear^c or xsd:date^c

participation start time dp

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

DescriptionThe start of a time interval.

Domain Participation^c

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

participation time point dp

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

Description

The point in time when something took place or was valid.

Domain Participation^C

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

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/cpannotationschema.owl#covers Requirements

Namespaces

rdf

rdfs

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

cvn
    http://w3id.org/CEON/ontology/cvn/

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

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#
```

http://www.w3.org/2000/01/rdf-schema#

http://www.w3.org/1999/02/22-rdf-syntax-ns#

resourceODP

http://w3id.org/CEON/ontology/resourceODP/

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