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

Description

An 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   based on capability ^{op}

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.
Sub Class Of	participation time point^{dp} *exactly* 1 1^c *or* participation start time^{dp} *exactly* 1 1^c
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 particpation 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

Description
A 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/process/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

Description

An actor participates in a collaboration based on that it has some capability that is useful for the collaboration.

Domain   Collaboration participation ^c

Range   Capability ^c

capability of ^{op}

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

Description

Relates 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
Description	Defines the location of an actor or resource.
Domain	Actor ^c *or* resourceODP:Resource ^c

has participant role ^{op}

IRI	http://w3id.org/CEON/ontology/actorODP/participantRole
Description	Holds the value of the role 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
Description	Holds 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
Domain	Resource participation ^c

has participating resource ^{op}

IRI	http://w3id.org/CEON/ontology/actorODP/participatingResource
Description	The resource that this participation relation 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
Domain	Resource participation^c

is a participation in ^{op}

IRI	http://w3id.org/CEON/ontology/actorODP/participationIn
Description	The collaboration or process that this participation relates to.
Domain	Collaboration participation^c
Range	Collaboration^c *or* process:Process^c

Datatype Properties

participation end time ^{dp}

IRI	http://w3id.org/CEON/ontology/actorODP/participationEndTime
Description	The end of a time interval.
Range	xsd:gMonthYear^c *or* xsd:gYear^c *or* xsd:dateTime^c *or* xsd:date^c

participation start time ^{dp}

IRI	http://w3id.org/CEON/ontology/actorODP/participationStartTime
Description	The start of a time interval.
Domain	Participation^c
Range	xsd:dateTime^c *or* xsd:gMonthYear^c *or* xsd:date^c *or* xsd:gYear^c

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	xsd:dateTime^c *or* xsd:gYear^c *or* xsd:gMonthYear^c *or* xsd:date^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/cpannotationschema.owl#coversRequirements

Namespaces

:

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#

process

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

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/

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