

Circular Economy Ontology Network (CEON) - Process ODP

Metadata

IRI

<http://w3id.org/CEON/ontology/processODP/>

Title

Circular Economy Ontology Network (CEON) - Process ODP

Creator

Huanyu Li

Contributor

Eva Blomqvist

Mikael Lindecrantz

Robin Keskisärkkä

Date Created

2023-03-23

License

<https://creativecommons.org/licenses/by/4.0/>

Version Iri

<http://w3id.org/CEON/ontology/processODP/0.1/>

Version Info

0.1

Preferred Namespace Prefix

processODP

Preferred Namespace Uri

<http://w3id.org/CEON/ontology/processODP/>

Description

A core ODP of the CEON ontology network, defining aspects of the process concept.

Covers Requirements

Covers the following requirements from Onto-DESIDE D3.1: CVN-Process-3,4,5, C3-1, C4-2, C4-5, C4-7, C4-9, C13-2, E2-6

Classes

Process Participation^c

IRI

<http://w3id.org/CEON/ontology/actor/ProcessParticipation>

Restriction

[actorODP:participationIn](#)^{op} some [actor:ProcessParticipation](#)^c

Process^C

IRI	http://w3id.org/CE0N/ontology/processODP/Process
Description	An activity in the context of a circular value network, handling resources.
In Domain Of	hasPart ^{op} has process execution ^{op} has process type ^{op} nextProcess ^{op}
In Range Of	hasPart ^{op} nextProcess ^{op}
Super Class Of	Transformation ^C

Process execution^C

IRI	http://w3id.org/CE0N/ontology/processODP/ProcessExecution
Description	An execution of a specific process.
In Range Of	has process execution ^{op}

Process type^C

IRI	http://w3id.org/CE0N/ontology/processODP/ProcessType
Description	The type of a process.
In Range Of	has process type ^{op}

Situation^C

IRI	http://w3id.org/CE0N/ontology/processODP/Situation
In Domain Of	isSettingFor ^{op}
In Range Of	initalSituation ^{op} resultingSituation ^{op}

Transformation^c

IRI	http://w3id.org/CE0N/ontology/processODP/Transformation
Sub Class Of	Process^c
In Domain Of	hasInput^{op} hasOutput^{op} initialSituation^{op} occursInLocation^{op} resultingSituation^{op}

Object Properties

participation in^{op}

IRI	http://w3id.org/CE0N/ontology/actorODP/participationIn
------------	---

has input^{op}

IRI	http://w3id.org/CE0N/ontology/processODP/hasInput
Domain	Transformation^c

has output^{op}

IRI	http://w3id.org/CE0N/ontology/processODP/hasOutput
Domain	Transformation^c

has part^{op}

IRI	http://w3id.org/CE0N/ontology/processODP/hasPart
Domain	Process^c
Range	Process^c

has process execution^{op}

IRI	http://w3id.org/CE0N/ontology/processODP/hasProcessExecution
Description	A process can have specific executions.
Domain	Process^c
Range	Process execution^c

has process type^{op}

IRI	http://w3id.org/CE0N/ontology/processODP/hasProcessType
Description	The type of the process.
Domain	Process ^C
Range	Process type ^C

intial situation^{op}

IRI	http://w3id.org/CE0N/ontology/processODP/intialSituation
Domain	Transformation ^C
Range	Situation ^C

is setting for^{op}

IRI	http://w3id.org/CE0N/ontology/processODP/isSettingFor
Domain	Situation ^C

next process^{op}

IRI	http://w3id.org/CE0N/ontology/processODP/nextProcess
Domain	Process ^C
Range	Process ^C

occurs in location^{op}

IRI	http://w3id.org/CE0N/ontology/processODP/occursInLocation
Domain	Transformation ^C

resulting situation^{op}

IRI	http://w3id.org/CE0N/ontology/processODP/resultingSituation
Domain	Transformation ^C
Range	Situation ^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/cannotation-schema.owl#coversRequirements

Namespaces

:

<http://w3id.org/CE0N/ontology/processODP/>

actor

<http://w3id.org/CE0N/ontology/actor/>

actorODP

<http://w3id.org/CE0N/ontology/actorODP/>

dcterms

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

odp

<http://www.ontologydesignpatterns.org/schemas/cpannotationschema.owl#>

owl

<http://www.w3.org/2002/07/owl#>

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#>

vann

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

Legend

c	Classes
op	Object Properties
ap	Annotation Properties