

Circular Economy Ontology Network (CEON) - Process ODP

Metadata

IRI

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

Title

Circular Economy Ontology Network (CEON) - Process ODP

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Version Iri

<http://w3id.org/CEON/ontology/processODP/0.2/>

Version Info

0.2

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 ^C	
IRI	http://w3id.org/CEON/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} resultingSituation ^{op} occursAtTime ^{dp}
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 Domain Of	hasExecutionInput ^{op} hasExecutionOutput ^{op} nextExecution ^{op} occursAtLocation ^{op}
In Range Of	has process execution ^{op} nextExecution ^{op}
Super Class Of	TransformationExecution ^c

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	initialSituation ^{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} hasTransformationExecution ^{op} initialSituation ^{op}

Transformation Execution^C

IRI	http://w3id.org/CE0N/ontology/processODP/TransformationExecution
Sub Class Of	Process execution^C
In Range Of	hasTransformationExecution^{op}

Object Properties

participation in^{op}

IRI	http://w3id.org/CE0N/ontology/actorODP/participationIn
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has execution input^{op}

IRI	http://w3id.org/CE0N/ontology/processODP/hasExecutionInput
Domain	Process execution^C

has execution output^{op}

IRI	http://w3id.org/CE0N/ontology/processODP/hasExecutionOutput
Domain	Process execution^C

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

has transformation execution^{op}

IRI	http://w3id.org/CE0N/ontology/processODP/hasTransformationExecution
Domain	Transformation ^c
Range	TransformationExecution ^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 execution^{op}

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

next process^{op}

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

Domain [Process](#)^c

Range [Process](#)^c

occurs at location^{op}

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

Domain [Process execution](#)^c

resulting situation^{op}

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

Domain [Process](#)^c

Range [Situation](#)^c

Datatype Properties

occurs at time^{dp}

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

Domain [Process](#)^c

Range [xsd:dateTime](#)

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

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:
    http://w3id.org/CEON/ontology/processODP/
actorODP
    http://w3id.org/CEON/ontology/actorODP/
dctterms
    http://purl.org/dc/terms/
odp
    http://www.ontologydesignpatterns.org/schemas/cannotationschema.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/
xsd
    http://www.w3.org/2001/XMLSchema#

```

Legend

c	Classes
op	Object Properties
dp	Datatype Properties
ap	Annotation Properties