

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/process0DP/Process
<u>Description</u>	An activity in the context of a circular value network, handling resources.
<u>In Domain Of</u>	<u>hasPart</u>^{op} <u>has process execution</u>^{op} <u>has process type</u>^{op} <u>nextProcess</u>^{op} <u>resultingSituation</u>^{op} <u>occursAtTime</u>^{dp}
<u>In Range Of</u>	<u>hasPart</u>^{op} <u>nextProcess</u>^{op}
<u>Super Class Of</u>	<u>Transformation</u>^c

Process execution^c

IRI <http://w3id.org/CE0N/ontology/process0DP/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/process0DP/ProcessType>

Description The type of a process.

In Range Of [has process type^{op}](#)

Situation^c

IRI <http://w3id.org/CEON/ontology/process0DP/Situation>

In Domain Of [isSettingFor](#)^{op}

In Range Of [intialSituation](#)^{op}
[resultingSituation](#)^{op}

Transformation^c

IRI <http://w3id.org/CEON/ontology/process0DP/Transformation>

Sub Class Of [Process](#)^c

In Domain Of [hasInput](#)^{op}
[hasOutput](#)^{op}
[hasTransformationExecution](#)^{op}
[intialSituation](#)^{op}

Transformation Execution^c

IRI <http://w3id.org/CEON/ontology/process0DP/TransformationExecution>

Sub Class Of [Process execution](#)^c

In Range Of [hasTransformationExecution](#)^{op}

Object Properties

participation in^{op}

IRI <http://w3id.org/CEON/ontology/actor0DP/participationIn>

has execution input^{op}

IRI <http://w3id.org/CEON/ontology/process0DP/hasExecutionInput>

Domain [Process execution](#)^c

has execution output^{op}

IRI <http://w3id.org/CEON/ontology/process0DP/hasExecutionOutput>

Domain [Process execution](#)^c

has input^{op}

IRI <http://w3id.org/CEON/ontology/process0DP/hasInput>

Domain [Transformation](#)^c

has output^{op}

IRI <http://w3id.org/CEON/ontology/process0DP/hasOutput>

Domain [Transformation](#)^c

has part^{op}

IRI <http://w3id.org/CEON/ontology/process0DP/hasPart>

Domain [Process](#)^c

Range [Process](#)^c

has process execution^{op}

IRI <http://w3id.org/CEON/ontology/process0DP/hasProcessExecution>

Description A process can have specific executions.

Domain [Process](#)^c

Range [Process execution](#)^c

has process type^{op}

IRI	http://w3id.org/CEON/ontology/process0DP/hasProcessType
<u>Description</u>	The type of the process.
<u>Domain</u>	Process ^c
<u>Range</u>	Process type ^c

has transformation execution^{op}

IRI	http://w3id.org/CEON/ontology/process0DP/hasTransformationExecution
<u>Domain</u>	Transformation ^c
<u>Range</u>	TransformationExecution ^c

intial situation^{op}

IRI	http://w3id.org/CEON/ontology/process0DP/intialSituation
<u>Domain</u>	Transformation ^c
<u>Range</u>	Situation ^c

is setting for^{op}

IRI <http://w3id.org/CEON/ontology/process0DP/isSettingFor>

Domain [Situation^c](#)

next execution^{op}

IRI <http://w3id.org/CEON/ontology/process0DP/nextExecution>

Domain [Process execution^c](#)

Range [Process execution^c](#)

next process^{op}

IRI <http://w3id.org/CEON/ontology/process0DP/nextProcess>

Domain [Process^c](#)

Range [Process^c](#)

occurs at location^{op}

IRI <http://w3id.org/CEON/ontology/process0DP/occursAtLocation>

Domain [Process execution^c](#)

resulting situation^{op}

IRI <http://w3id.org/CEON/ontology/process0DP/resultingSituation>

Domain [Process](#)^c

Range [Situation](#)^c

Datatype Properties

occurs at time^{dp}

IRI <http://w3id.org/CEON/ontology/process0DP/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/cpannotationschema.owl#coversRequirements

Namespaces

:

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

actorODP

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

xsd

<http://www.w3.org/2001/XMLSchema#>

Legend

c	Classes
op	Object Properties
dp	Data type Properties
ap	Annotation Properties