

# 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 <sup>C</sup>	
IRI	<a href="http://w3id.org/CEON/ontology/processODP/Process">http://w3id.org/CEON/ontology/processODP/Process</a>
Description	An activity in the context of a circular value network, handling resources.
In Domain Of	<a href="#">hasPart</a> <sup>op</sup> <a href="#">has process execution</a> <sup>op</sup> <a href="#">has process type</a> <sup>op</sup> <a href="#">nextProcess</a> <sup>op</sup> <a href="#">resultingSituation</a> <sup>op</sup> <a href="#">occursAtTime</a> <sup>dp</sup>
In Range Of	<a href="#">hasPart</a> <sup>op</sup> <a href="#">nextProcess</a> <sup>op</sup>
Super Class Of	<a href="#">Transformation</a> <sup>C</sup>

## Process execution<sup>c</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/processODP/ProcessExecution">http://w3id.org/CE0N/ontology/processODP/ProcessExecution</a>
<b>Description</b>	An execution of a specific process.
<b>In Domain Of</b>	<a href="#">hasExecutionInput</a> <sup>op</sup> <a href="#">hasExecutionOutput</a> <sup>op</sup> <a href="#">nextExecution</a> <sup>op</sup> <a href="#">occursAtLocation</a> <sup>op</sup>
<b>In Range Of</b>	<a href="#">has process execution</a> <sup>op</sup> <a href="#">nextExecution</a> <sup>op</sup>
<b>Super Class Of</b>	<a href="#">TransformationExecution</a> <sup>c</sup>

## Process type<sup>c</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/processODP/ProcessType">http://w3id.org/CE0N/ontology/processODP/ProcessType</a>
<b>Description</b>	The type of a process.
<b>In Range Of</b>	<a href="#">has process type</a> <sup>op</sup>

## Situation<sup>c</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/processODP/Situation">http://w3id.org/CE0N/ontology/processODP/Situation</a>
<b>In Domain Of</b>	<a href="#">isSettingFor</a> <sup>op</sup>
<b>In Range Of</b>	<a href="#">initalSituation</a> <sup>op</sup> <a href="#">resultingSituation</a> <sup>op</sup>

## Transformation<sup>c</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/processODP/Transformation">http://w3id.org/CE0N/ontology/processODP/Transformation</a>
<b>Sub Class Of</b>	<a href="#">Process</a> <sup>c</sup>
<b>In Domain Of</b>	<a href="#">hasInput</a> <sup>op</sup> <a href="#">hasOutput</a> <sup>op</sup> <a href="#">hasTransformationExecution</a> <sup>op</sup> <a href="#">initalSituation</a> <sup>op</sup>

## Transformation Execution<sup>C</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/processODP/TransformationExecution">http://w3id.org/CE0N/ontology/processODP/TransformationExecution</a>
<b>Sub Class Of</b>	<a href="#">Process execution<sup>C</sup></a>
<b>In Range Of</b>	<a href="#">hasTransformationExecution<sup>op</sup></a>

## Object Properties

### participation in<sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/actorODP/participationIn">http://w3id.org/CE0N/ontology/actorODP/participationIn</a>
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### has execution input<sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/processODP/hasExecutionInput">http://w3id.org/CE0N/ontology/processODP/hasExecutionInput</a>
<b>Domain</b>	<a href="#">Process execution<sup>C</sup></a>

### has execution output<sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/processODP/hasExecutionOutput">http://w3id.org/CE0N/ontology/processODP/hasExecutionOutput</a>
<b>Domain</b>	<a href="#">Process execution<sup>C</sup></a>

### has input<sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/processODP/hasInput">http://w3id.org/CE0N/ontology/processODP/hasInput</a>
<b>Domain</b>	<a href="#">Transformation<sup>C</sup></a>

### has output<sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/processODP/hasOutput">http://w3id.org/CE0N/ontology/processODP/hasOutput</a>
<b>Domain</b>	<a href="#">Transformation<sup>C</sup></a>

### has part<sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/processODP/hasPart">http://w3id.org/CE0N/ontology/processODP/hasPart</a>
<b>Domain</b>	<a href="#">Process<sup>C</sup></a>
<b>Range</b>	<a href="#">Process<sup>C</sup></a>

## has process execution<sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/processODP/hasProcessExecution">http://w3id.org/CE0N/ontology/processODP/hasProcessExecution</a>
<b>Description</b>	A process can have specific executions.
<b>Domain</b>	<a href="#">Process</a> <sup>c</sup>
<b>Range</b>	<a href="#">Process execution</a> <sup>c</sup>

## has process type<sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/processODP/hasProcessType">http://w3id.org/CE0N/ontology/processODP/hasProcessType</a>
<b>Description</b>	The type of the process.
<b>Domain</b>	<a href="#">Process</a> <sup>c</sup>
<b>Range</b>	<a href="#">Process type</a> <sup>c</sup>

## has transformation execution<sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/processODP/hasTransformationExecution">http://w3id.org/CE0N/ontology/processODP/hasTransformationExecution</a>
<b>Domain</b>	<a href="#">Transformation</a> <sup>c</sup>
<b>Range</b>	<a href="#">TransformationExecution</a> <sup>c</sup>

## intial situation<sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/processODP/intialSituation">http://w3id.org/CE0N/ontology/processODP/intialSituation</a>
<b>Domain</b>	<a href="#">Transformation</a> <sup>c</sup>
<b>Range</b>	<a href="#">Situation</a> <sup>c</sup>

## is setting for<sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/processODP/isSettingFor">http://w3id.org/CE0N/ontology/processODP/isSettingFor</a>
<b>Domain</b>	<a href="#">Situation</a> <sup>c</sup>

## next execution<sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/processODP/nextExecution">http://w3id.org/CE0N/ontology/processODP/nextExecution</a>
<b>Domain</b>	<a href="#">Process execution</a> <sup>c</sup>
<b>Range</b>	<a href="#">Process execution</a> <sup>c</sup>

next process<sup>op</sup>

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

**Domain** [Process](#)<sup>c</sup>

**Range** [Process](#)<sup>c</sup>

occurs at location<sup>op</sup>

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

**Domain** [Process execution](#)<sup>c</sup>

resulting situation<sup>op</sup>

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

**Domain** [Process](#)<sup>c</sup>

**Range** [Situation](#)<sup>c</sup>

## Datatype Properties

occurs at time<sup>dp</sup>

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

**Domain** [Process](#)<sup>c</sup>

**Range** [xsd:dateTime](#)

## Annotation Properties

contributor<sup>ap</sup>

**IRI** <http://purl.org/dc/terms/contributor>

created<sup>ap</sup>

**IRI** <http://purl.org/dc/terms/created>

creator<sup>ap</sup>

**IRI** <http://purl.org/dc/terms/creator>

description <sup>ap</sup>	
IRI	<a href="http://purl.org/dc/terms/description">http://purl.org/dc/terms/description</a>
license <sup>ap</sup>	
IRI	<a href="http://purl.org/dc/terms/license">http://purl.org/dc/terms/license</a>
title <sup>ap</sup>	
IRI	<a href="http://purl.org/dc/terms/title">http://purl.org/dc/terms/title</a>
preferred namespace prefix <sup>ap</sup>	
IRI	<a href="http://purl.org/vocab/vann/preferredNamespacePrefix">http://purl.org/vocab/vann/preferredNamespacePrefix</a>
preferred namespace uri <sup>ap</sup>	
IRI	<a href="http://purl.org/vocab/vann/preferredNamespaceUri">http://purl.org/vocab/vann/preferredNamespaceUri</a>
covers requirements <sup>ap</sup>	
IRI	<a href="http://www.ontologydesignpatterns.org/schemas/cannotation-schema.owl#coversRequirements">http://www.ontologydesignpatterns.org/schemas/cannotation-schema.owl#coversRequirements</a>

## 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/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