

# 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/0.1/>

### 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<sup>c</sup>

#### IRI

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

#### Restriction

[actorODP:participationIn](#)<sup>op</sup> some [actor:ProcessParticipation](#)<sup>c</sup>

## Process<sup>C</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/processODP/Process">http://w3id.org/CE0N/ontology/processODP/Process</a>
<b>Description</b>	An activity in the context of a circular value network, handling resources.
<b>In Domain Of</b>	<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>
<b>In Range Of</b>	<a href="#">hasPart</a> <sup>op</sup> <a href="#">nextProcess</a> <sup>op</sup>
<b>Super Class Of</b>	<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 Range Of</b>	<a href="#">has process execution</a> <sup>op</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><u>Sub Class Of</u></b>	<a href="#">Process</a> <sup>c</sup>
<b><u>In Domain Of</u></b>	<a href="#">hasInput</a> <sup>op</sup> <a href="#">hasOutput</a> <sup>op</sup> <a href="#">initialSituation</a> <sup>op</sup> <a href="#">occursInLocation</a> <sup>op</sup> <a href="#">resultingSituation</a> <sup>op</sup>

## 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 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><u>Domain</u></b>	<a href="#">Transformation</a> <sup>c</sup>

### 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><u>Domain</u></b>	<a href="#">Transformation</a> <sup>c</sup>

### 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><u>Domain</u></b>	<a href="#">Process</a> <sup>c</sup>
<b><u>Range</u></b>	<a href="#">Process</a> <sup>c</sup>

### 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><u>Description</u></b>	A process can have specific executions.
<b><u>Domain</u></b>	<a href="#">Process</a> <sup>c</sup>
<b><u>Range</u></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>

## 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 process<sup>op</sup>

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

## occurs in location<sup>op</sup>

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

## resulting situation<sup>op</sup>

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

## Annotation Properties

contributor <sup>ap</sup>	
IRI	<a href="http://purl.org/dc/terms/contributor">http://purl.org/dc/terms/contributor</a>
created <sup>ap</sup>	
IRI	<a href="http://purl.org/dc/terms/created">http://purl.org/dc/terms/created</a>
creator <sup>ap</sup>	
IRI	<a href="http://purl.org/dc/terms/creator">http://purl.org/dc/terms/creator</a>
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/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