# Circular Economy Ontology Network (CEON) - Process Module

# Metadata

IRI

http://w3id.org/CEON/ontology/process/

Title

Circular Economy Ontology Network (CEON) - Process Module

Creator

Huanyu Li

Contributor

Eva Blomqvist

Mikael Lindecrantz

Robin Keskisärkkä

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**Version Iri** 

http://w3id.org/CEON/ontology/process/0.2/

**Version Info** 

0.2

**Preferred Namespace Prefix** 

process

**Preferred Namespace Uri** 

https://w3id.org/CEON/ontology/process/

Description

The Process module of CEON (Circular Economy Ontology Network).

**Covers Requirements** 

In addition to requirements covered by imported ODPs, covers the following requirements from Onto-DESIDE D3.1: T8-2

### Classes

# Assembling Process<sup>C</sup>

IRI http://w3id.org/CEON/ontology/process/AssemblingProcess

Sub Class Of processODP:Transformation<sup>C</sup>

Buy Resource Process<sup>c</sup>

IRI http://w3id.org/CEON/ontology/process/BuyResourceProcess

Sub Class Of processODP:Transformation<sup>c</sup>

Co2Emission<sup>C</sup>

IRI http://w3id.org/CEON/ontology/process/CO2Emission

Sub Class Of resourceODP:Resource<sup>c</sup>

In Range Of produces CO2 op

Cathalyst <sup>C</sup>

IRI http://w3id.org/CEON/ontology/process/Cathalyst

Sub Class Of resourceODP:Resource<sup>C</sup>

In Range Of <u>usesCathalyst</u>op

Change Resource Process<sup>C</sup>

IRI http://w3id.org/CEON/ontology/process/ChangeResourceProcess

Sub Class Of processODP:Transformation<sup>C</sup>

Contact Process<sup>C</sup>

IRI http://w3id.org/CEON/ontology/process/ContactProcess

Sub Class Of processODP:Transformation<sup>C</sup>

Deconstruction Process<sup>C</sup>

IRI http://w3id.org/CEON/ontology/process/DeconstructionProcess

Sub Class Of processODP:Transformation C

Disassembling Process <sup>c</sup>

IRI http://w3id.org/CEON/ontology/process/DisassemblingProcess

Sub Class Of processODP:Transformation<sup>C</sup>

Dismantle Process <sup>C</sup>

IRI http://w3id.org/CEON/ontology/process/DismantleProcess

Sub Class Of processODP:Transformation<sup>c</sup>

Energy<sup>C</sup>

IRI http://w3id.org/CEON/ontology/process/Energy

Sub Class Of resourceODP:Resource<sup>C</sup>

In Range Of needsEnergy op

Ensure Claim Process<sup>c</sup>

IRI http://w3id.org/CEON/ontology/process/EnsureClaimProcess

Sub Class Of processODP:Transformation C

Issuing Certificate Process <sup>C</sup>

IRI http://w3id.org/CEON/ontology/process/IssuingCertificateProcess

Sub Class Of processODP:Transformation<sup>C</sup>

Manufacturing Process<sup>C</sup>

IRI http://w3id.org/CEON/ontology/process/ManufacturingProcess

Sub Class Of processODP:Transformation<sup>C</sup>

Offset Process<sup>C</sup>

IRI http://w3id.org/CEON/ontology/process/OffsetProcess

Sub Class Of processODP:Transformation<sup>C</sup>

Production Process<sup>C</sup>

IRI http://w3id.org/CEON/ontology/process/ProductionProcess

Sub Class Of processODP:Transformation<sup>C</sup>

Recycle Process <sup>C</sup>

IRI http://w3id.org/CEON/ontology/process/RecycleProcess

Sub Class Of processODP:Transformation<sup>C</sup>

Refurbishment Process <sup>C</sup>

IRI http://w3id.org/CEON/ontology/process/RefurbishmentProcess

Sub Class Of processODP:Transformation<sup>C</sup>

Remove Process<sup>C</sup>

IRI http://w3id.org/CEON/ontology/process/RemoveProcess

Sub Class Of processODP:Transformation C

Remove Resource Process<sup>C</sup>

IRI http://w3id.org/CEON/ontology/process/RemoveResourceProcess

Sub Class Of processODP:Transformation<sup>C</sup>

Repair Process<sup>C</sup>

IRI http://w3id.org/CEON/ontology/process/RepairProcess

Sub Class Of processODP:Transformation<sup>C</sup>

Resell Process<sup>C</sup>

IRI http://w3id.org/CEON/ontology/process/ResellProcess

Sub Class Of processODP:Transformation<sup>c</sup>

Reuse Process<sup>C</sup>

IRI http://w3id.org/CEON/ontology/process/ReuseProcess

Sub Class Of processODP:Transformation<sup>c</sup>

Sell Resource Process<sup>C</sup>

IRI http://w3id.org/CEON/ontology/process/SellResourceProcess

Sub Class Of processODP:Transformation<sup>C</sup>

Service Process<sup>C</sup>

IRI http://w3id.org/CEON/ontology/process/ServiceProcess

Sub Class Of processODP:Transformation<sup>C</sup>

Share Resource Process<sup>C</sup>

IRI http://w3id.org/CEON/ontology/process/ShareResourceProcess

Sub Class Of processODP:Transformation C

Take Back Process<sup>C</sup>

IRI http://w3id.org/CEON/ontology/process/TakeBackProcess

Sub Class Of processODP:Transformation<sup>c</sup>

# Transformation <sup>C</sup>

IRI http://w3id.org/CEON/ontology/processODP/Transformation

**Super Class Of** 

AssemblingProcess<sup>c</sup>
BuyResourceProcess<sup>c</sup>
ChangeResourceProcess<sup>c</sup>

ContactProcess<sup>c</sup>

DeconstructionProcess<sup>C</sup>
DisassemblingProcess<sup>C</sup>
DismantleProcess<sup>C</sup>
EnsureClaimProcess<sup>C</sup>
IssuingCertificateProcess<sup>C</sup>
ManufacturingProcess<sup>C</sup>

OffsetProcess<sup>C</sup>
ProductionProcess<sup>C</sup>
RecycleProcess<sup>C</sup>
RefurbishmentProcess<sup>C</sup>
RemoveProcess<sup>C</sup>

<u>RemoveResourceProcess<sup>C</sup></u>

RepairProcess<sup>c</sup>
ResellProcess<sup>c</sup>
ReuseProcess<sup>c</sup>

<u>SellResourceProcess<sup>c</sup></u>

<u>ServiceProcess<sup>c</sup></u>

ShareResourceProcess<sup>C</sup>
TakeBackProcess<sup>C</sup>

# Resource <sup>C</sup>

IRI http://w3id.org/CEON/ontology/resourceODP/Resource

In Range Of resultingProduct<sup>op</sup>

**Super Class Of** 

CO2Emission<sup>c</sup>
Cathalyst<sup>c</sup>
Energy<sup>c</sup>

# **Object Properties**

needs energy op

IRI http://w3id.org/CEON/ontology/process/needsEnergy

Sub Property Of processODP:hasInput<sup>op</sup>

Range <u>Energy</u><sup>c</sup>

produces co2 op

IRI http://w3id.org/CEON/ontology/process/producesCO2

Sub Property Of processODP:hasOutput<sup>op</sup>

Range CO2Emission<sup>C</sup>

resulting product op

IRI http://w3id.org/CEON/ontology/process/resultingProduct

Sub Property Of processODP:hasOutput<sup>op</sup>

Range resourceODP:Resource<sup>C</sup>

uses cathalyst op

IRI http://w3id.org/CEON/ontology/process/usesCathalyst

Sub Property Of processODP:hasInput<sup>op</sup>

Range Cathalyst<sup>c</sup>

has input op

IRI http://w3id.org/CEON/ontology/processODP/hasInput

**Super Property Of** 

• needsEnergy op

usesCathalyst<sup>op</sup>

has output <sup>op</sup>	
IRI	http://w3id.org/CEON/ontology/processODP/hasOutput
Super Property Of	<ul> <li>producesCO2<sup>op</sup></li> <li>resultingProduct<sup>op</sup></li> </ul>

# **Annotation Properties**

contributor <sup>ap</sup>		
IRI	http://purl.org/dc/terms/contributor	
created <sup>ap</sup>		
IRI	http://purl.org/dc/terms/created	
<u>creator</u> ap		
IRI	http://purl.org/dc/terms/creator	
description ap		
IRI	http://purl.org/dc/terms/description	
license <sup>ap</sup>		
IRI	http://purl.org/dc/terms/license	
title <sup>ap</sup>		
IRI	http://purl.org/dc/terms/title	
preferred namespace prefix <sup>ap</sup>		
IRI	http://purl.org/vocab/vann/preferredNamespacePrefix	

# preferred namespace uriap

IRI

http://purl.org/vocab/vann/preferredNamespaceUri

# covers requirements ap

IRI

http://www.ontologydesignpatterns.org/schemas/cpannotationschema.owl#covers Requirements

# Namespaces

:

http://w3id.org/CEON/ontology/process/

#### dcterms

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

odp

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

owl

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

### processODP

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

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#

### resourceODP

http://w3id.org/CEON/ontology/resourceODP/

vann

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

# Legend

Classes

op Object Properties

ap Annotation Properties