# Circular Economy Ontology Network (CEON) - Process Module

#### Metadata

IRI

http://w3id.org/CEON/ontology/pr
ocess/

Title

Circular Economy Ontology Network (CEON) - Process Module

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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>

http://w3id.org/CE0

N/ontology/process/ AssemblingProcess

Sub Class Of <u>processODP:Transformat</u>

<u>ion</u><sup>c</sup>

### Buy Resource Process<sup>C</sup>

http://w3id.org/CE0

N/ontology/process/ BuyResourceProcess

Sub Class Of processODP:Transformat

ion<sup>c</sup>

### Co2Emission<sup>C</sup>

http://w3id.org/CE0

N/ontology/process/

CO2Emission

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

In Range Of produces CO2 op

## Cathalyst <sup>C</sup>

http://w3id.org/CE0

N/ontology/process/

Cathalyst

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

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

### Change Resource Process <sup>c</sup>

http://w3id.org/CE0

N/ontology/process/ ChangeResourceProce

SS

Sub Class Of processODP:Transformat

<u>ion</u><sup>c</sup>

#### Contact Process <sup>C</sup>

http://w3id.org/CE0

N/ontology/process/

ContactProcess

Sub Class Of <u>processODP:Transformat</u>

ion<sup>c</sup>

### Deconstruction Process<sup>C</sup>

http://w3id.org/CE0

N/ontology/process/ DeconstructionProce

SS

Sub Class Of <u>processODP:Transformat</u>

<u>ion</u><sup>C</sup>

## Disassembling Process<sup>C</sup>

http://w3id.org/CE0

N/ontology/process/ DisassemblingProces

S

Sub Class Of processODP:Transformat

<u>ion</u><sup>C</sup>

### Dismantle Process<sup>C</sup>

http://w3id.org/CE0

N/ontology/process/ DismantleProcess

Sub Class Of processODP:Transformat

ion<sup>C</sup>

## Energy <sup>C</sup>

http://w3id.org/CE0

N/ontology/process/

Energy

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

In Range Of needsEnergy op

#### Ensure Claim Process<sup>C</sup>

http://w3id.org/CE0

N/ontology/process/ EnsureClaimProcess

Sub Class Of <u>processODP:Transformat</u>

<u>ion</u><sup>c</sup>

## Issuing Certificate Process <sup>c</sup>

IRI http://w3id.org/CE0

N/ontology/process/ IssuingCertificateP

rocess

Sub Class Of <u>processODP:Transformat</u>

ion<sup>c</sup>

## Manufacturing Process<sup>C</sup>

http://w3id.org/CE0

N/ontology/process/ ManufacturingProces

S

Sub Class Of <u>processODP:Transformat</u>

<u>ion</u><sup>c</sup>

#### Offset Process<sup>C</sup>

IRI http://w3id.org/CEO

N/ontology/process/

OffsetProcess

Sub Class Of processODP:Transformat

<u>ion</u><sup>c</sup>

#### Production Process<sup>C</sup>

http://w3id.org/CE0

N/ontology/process/ ProductionProcess

Sub Class Of <u>processODP:Transformat</u>

<u>ion</u><sup>c</sup>

### Recycle Process<sup>C</sup>

http://w3id.org/CE0

N/ontology/process/

RecycleProcess

Sub Class Of <u>processODP:Transformat</u>

ion<sup>C</sup>

## Refurbishment Process<sup>C</sup>

http://w3id.org/CE0

N/ontology/process/ RefurbishmentProces

S

Sub Class Of <u>processODP:Transformat</u>

<u>ion</u><sup>c</sup>

#### Remove Process<sup>C</sup>

IRI http://w3id.org/CEO

N/ontology/process/

RemoveProcess

Sub Class Of processODP:Transformat

<u>ion</u><sup>c</sup>

#### Remove Resource Process<sup>C</sup>

http://w3id.org/CE0

N/ontology/process/ RemoveResourceProce

SS

Sub Class Of <u>processODP:Transformat</u>

ion<sup>C</sup>

### Repair Process<sup>C</sup>

http://w3id.org/CE0

N/ontology/process/

RepairProcess

Sub Class Of <u>processODP:Transformat</u>

ion<sup>c</sup>

### Resell Process<sup>C</sup>

http://w3id.org/CE0

N/ontology/process/

ResellProcess

Sub Class Of <u>processODP:Transformat</u>

ion<sup>C</sup>

#### Reuse Process<sup>C</sup>

http://w3id.org/CE0

N/ontology/process/

ReuseProcess

Sub Class Of <u>processODP:Transformat</u>

<u>ion</u><sup>c</sup>

### Sell Resource Process<sup>C</sup>

http://w3id.org/CE0

N/ontology/process/ SellResourceProcess

Sub Class Of <u>processODP:Transformat</u>

ion<sup>c</sup>

### Service Process<sup>C</sup>

http://w3id.org/CE0

N/ontology/process/

ServiceProcess

Sub Class Of <u>processODP:Transformat</u>

<u>ion</u><sup>C</sup>

## Share Resource Process<sup>C</sup>

IRI http://w3id.org/CE0

N/ontology/process/ ShareResourceProces

S

Sub Class Of processODP:Transformat

<u>ion</u><sup>C</sup>

### Take Back Process<sup>C</sup>

http://w3id.org/CE0

N/ontology/process/

TakeBackProcess

Sub Class Of processODP:Transformat

<u>ion</u><sup>C</sup>

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

http://w3id.org/CE0

N/ontology/process0 DP/Transformation

**Super Class Of** 

<u>AssemblingProcess<sup>C</sup></u>

<u>BuyResourceProcess</u><sup>C</sup>

<u>ChangeResourceProcess</u>

С

ContactProcess<sup>C</sup>

<u>DeconstructionProcess</u><sup>C</sup>

<u>DisassemblingProcess<sup>C</sup></u>

DismantleProcess<sup>C</sup>

EnsureClaimProcess<sup>C</sup>

<u>IssuingCertificateProcess</u>

С

<u>ManufacturingProcess</u><sup>c</sup>

OffsetProcess<sup>C</sup>

ProductionProcess<sup>C</sup>

RecycleProcess<sup>C</sup>

<u>RefurbishmentProcess</u><sup>C</sup>

RemoveProcess<sup>C</sup>

RemoveResourceProces

s<sup>c</sup>

RepairProcess<sup>C</sup>

ResellProcess<sup>C</sup>

ReuseProcess<sup>C</sup>

<u>SellResourceProcess</u><sup>C</sup>

<u>ServiceProcess<sup>C</sup></u>

ShareResourceProcess<sup>C</sup>

TakeBackProcess<sup>C</sup>

Resource <sup>C</sup>

http://w3id.org/CE0

N/ontology/resource

ODP/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

http://w3id.org/CE0

N/ontology/process/

needsEnergy

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

Range <u>Energy</u><sup>C</sup>

produces co2 op

http://w3id.org/CE0

N/ontology/process/

producesC02

**Sub Property Of** <u>processODP:hasOutput</u>

op

Range CO2Emission<sup>C</sup>

## resulting product op

http://w3id.org/CE0

N/ontology/process/ resultingProduct

**Sub Property Of** <u>processODP:hasOutput</u>

op

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

# uses cathalyst op

http://w3id.org/CE0

N/ontology/process/

usesCathalyst

Sub Property Of processODP:hasInput op

Range Cathalyst<sup>C</sup>

## has input op

http://w3id.org/CE0

N/ontology/process0

DP/hasInput

**Super Property Of** 

needsEnergy<sup>op</sup>

usesCathalyst<sup>op</sup>

has output op

IRI http://w3id.org/CE0

N/ontology/process0

DP/hasOutput

**Super Property Of** 

• producesCO2<sup>op</sup>

• resultingProduct<sup>op</sup>

# **Annotation Properties**

contributor ap

http://purl.org/dc/

terms/contributor

created ap

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

http://purl.org/dc/

terms/license

title <sup>ap</sup>

http://purl.org/dc/

terms/title

preferred namespace prefix ap

http://purl.org/voc

ab/vann/preferredNa

mespacePrefix

preferred namespace uri ap

http://purl.org/voc

ab/vann/preferredNa

mespaceUri

covers requirements ap

IRI http://www.ontology

designpatterns.org/
schemas/cpannotatio
nschema.owl#coversR

equirements

### Namespaces

:

```
http://w3id.org/CEON/ontology/pr
    ocess/
dcterms
    http://purl.org/dc/terms/
odp
    http://www.ontologydesignpattern
    s.org/schemas/cpannotationschema
    .owl#
owl
    http://www.w3.org/2002/07/owl#
processODP
    http://w3id.org/CEON/ontology/pr
    ocessODP/
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/re
    sourceODP/
vann
    http://purl.org/vocab/vann/
```

## Legend

c Clas ses

Obj ect op Pro perti es

Ann otati ap on Pro perti

es