

# 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/0.1/>

### Version Info

0.1

### 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>

#### Description

A process of assembling.

#### Sub Class Of

[processODP:Transformation<sup>c</sup>](#)

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

**IRI** <http://w3id.org/CEON/ontology/process/BuyResourceProcess>

**Description** A process of buying a resource.

**Sub Class Of** [processODP:Transformation<sup>C</sup>](#)

## CO2 emission<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/process/CO2Emission>

**Description** An amount of CO2.

**Sub Class Of** [resourceODP:Resource<sup>C</sup>](#)

**In Range Of** [produces CO2<sup>op</sup>](#)

## Cathalyst<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/process/Cathalyst>

**Description** A resource that is needed as a cathalyst by a process, but that is not considered the direct input or output of it.

**Sub Class Of** [resourceODP:Resource<sup>C</sup>](#)

**In Range Of** [uses cathalyst<sup>op</sup>](#)

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

**IRI** <http://w3id.org/CEON/ontology/process/ChangeResourceProcess>

**Description** A process of a changing resource.

**Sub Class Of** [processODP:Transformation<sup>C</sup>](#)

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

**IRI** <http://w3id.org/CEON/ontology/process/ContactProcess>

**Description** A contact process.

**Sub Class Of** [processODP:Transformation<sup>C</sup>](#)

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

**IRI** <http://w3id.org/CEON/ontology/process/DeconstructionProcess>

**Description** A process of deconstruction.

**Sub Class Of** [processODP:Transformation<sup>C</sup>](#)

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

**IRI** <http://w3id.org/CEON/ontology/process/DismantleProcess>

**Description** A process of dismantling.

**Sub Class Of** [processODP:Transformation<sup>C</sup>](#)

## Energy<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/process/Energy>

**Description** An amount of energy.

**Sub Class Of** [resourceODP:Resource<sup>C</sup>](#)

**In Range Of** [needs energy<sup>op</sup>](#)

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

**IRI** <http://w3id.org/CEON/ontology/process/EnsureClaimProcess>

**Description** A process of ensuring a claim.

**Sub Class Of** [processODP:Transformation<sup>C</sup>](#)

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

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/process/IssuingCertificateProcess">http://w3id.org/CEON/ontology/process/IssuingCertificateProcess</a>
<b>Description</b>	A process of issuing a certificate.
<b>Sub Class Of</b>	<a href="#">processODP:Transformation<sup>C</sup></a>

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

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/process/ManufacturingProcess">http://w3id.org/CEON/ontology/process/ManufacturingProcess</a>
<b>Description</b>	A process of manufacturing.
<b>Sub Class Of</b>	<a href="#">processODP:Transformation<sup>C</sup></a>

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

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/process/OffsetProcess">http://w3id.org/CEON/ontology/process/OffsetProcess</a>
<b>Description</b>	A process of offsetting.
<b>Sub Class Of</b>	<a href="#">processODP:Transformation<sup>C</sup></a>

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

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/process/ProductionProcess">http://w3id.org/CEON/ontology/process/ProductionProcess</a>
<b>Description</b>	A process of production.
<b>Sub Class Of</b>	<a href="#">processODP:Transformation<sup>C</sup></a>

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

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/process/RecycleProcess">http://w3id.org/CEON/ontology/process/RecycleProcess</a>
<b>Description</b>	A process of recycling.
<b>Sub Class Of</b>	<a href="#">processODP:Transformation<sup>C</sup></a>

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

**IRI** <http://w3id.org/CEON/ontology/process/RefurbishmentProcess>

**Description** A process of refurbishment.

**Sub Class Of** [processODP:Transformation<sup>C</sup>](#)

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

**IRI** <http://w3id.org/CEON/ontology/process/RemoveProcess>

**Description** A process of removing.

**Sub Class Of** [processODP:Transformation<sup>C</sup>](#)

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

**IRI** <http://w3id.org/CEON/ontology/process/RemoveResourceProcess>

**Description** A process of removing a resource.

**Sub Class Of** [processODP:Transformation<sup>C</sup>](#)

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

**IRI** <http://w3id.org/CEON/ontology/process/RepairProcess>

**Description** A process of repairing.

**Sub Class Of** [processODP:Transformation<sup>C</sup>](#)

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

**IRI** <http://w3id.org/CEON/ontology/process/ResellProcess>

**Description** A process of reselling.

**Sub Class Of** [processODP:Transformation<sup>C</sup>](#)

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

**IRI** <http://w3id.org/CEON/ontology/process/ReuseProcess>

**Description** A process of reusing.

**Sub Class Of** [processODP:Transformation<sup>C</sup>](#)

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

**IRI** <http://w3id.org/CEON/ontology/process/SellResourceProcess>

**Description** A process of selling a resource.

**Sub Class Of** [processODP:Transformation<sup>C</sup>](#)

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

**IRI** <http://w3id.org/CEON/ontology/process/ServiceProcess>

**Description** A process of servicing.

**Sub Class Of** [processODP:Transformation<sup>C</sup>](#)

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

**IRI** <http://w3id.org/CEON/ontology/process/ShareResourceProcess>

**Description** A process of sharing a resource.

**Sub Class Of** [processODP:Transformation<sup>C</sup>](#)

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

**IRI** <http://w3id.org/CEON/ontology/process/TakeBackProcess>

**Description** A process of taking back.

**Sub Class Of** [processODP:Transformation<sup>C</sup>](#)

## Transformation<sup>C</sup>

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IRI

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

### Super Class Of

[Assembling Process<sup>C</sup>](#)  
[Buy Resource Process<sup>C</sup>](#)  
[Change Resource Process<sup>C</sup>](#)  
[Contact Process<sup>C</sup>](#)  
[Deconstruction Process<sup>C</sup>](#)  
[Dismantle Process<sup>C</sup>](#)  
[Ensure Claim Process<sup>C</sup>](#)  
[Issuing Certificate Process<sup>C</sup>](#)  
[Manufacturing Process<sup>C</sup>](#)  
[Offset Process<sup>C</sup>](#)  
[Production Process<sup>C</sup>](#)  
[Recycle Process<sup>C</sup>](#)  
[Refurbishment Process<sup>C</sup>](#)  
[Remove Process<sup>C</sup>](#)  
[Remove Resource Process<sup>C</sup>](#)  
[Repair Process<sup>C</sup>](#)  
[Resell Process<sup>C</sup>](#)  
[Reuse Process<sup>C</sup>](#)  
[Sell Resource Process<sup>C</sup>](#)  
[Service Process<sup>C</sup>](#)  
[Share Resource Process<sup>C</sup>](#)  
[Take Back Process<sup>C</sup>](#)

## Resource<sup>C</sup>

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IRI

<http://w3id.org/CEON/ontology/resourceODP/Resource>

### In Range Of

[resulting product<sup>OP</sup>](#)

### Super Class Of

[CO2 emission<sup>C</sup>](#)  
[Cathalyst<sup>C</sup>](#)  
[Energy<sup>C</sup>](#)

## Object Properties

## needs energy<sup>op</sup>

**IRI** <http://w3id.org/CEON/ontology/process/needsEnergy>

**Description** The energy needed to perform a certain process.

**Sub Property Of** [processODP:hasInput<sup>op</sup>](#)

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

## produces CO2<sup>op</sup>

**IRI** <http://w3id.org/CEON/ontology/process/producesCO2>

**Description** The CO2 released or produced by the process.

**Sub Property Of** [processODP:hasOutput<sup>op</sup>](#)

**Range** [CO2 emission<sup>c</sup>](#)

## resulting product<sup>op</sup>

**IRI** <http://w3id.org/CEON/ontology/process/resultingProduct>

**Description** The resource that is the output (product, i.e. what is produced) from a certain process.

**Sub Property Of** [processODP:hasOutput<sup>op</sup>](#)

**Range** [resourceODP:Resource<sup>c</sup>](#)

## uses cathalyst<sup>op</sup>

**IRI** <http://w3id.org/CEON/ontology/process/usesCathalyst>

**Description** The cathalyst used in a process.

**Sub Property Of** [processODP:hasInput<sup>op</sup>](#)

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



has input<sup>op</sup>

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

Super Property Of

- [needs energy](#)<sup>op</sup>
- [uses cathalyst](#)<sup>op</sup>

has output<sup>op</sup>

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

Super Property Of

- [produces CO2](#)<sup>op</sup>
- [resulting product](#)<sup>op</sup>

## 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** <http://purl.org/dc/terms/description>

license<sup>ap</sup>

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

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/cpannotationschema.owl#coversRequirements">http://www.ontologydesignpatterns.org/schemas/cpannotationschema.owl#coversRequirements</a>

## Namespaces

:

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

**dc**terms

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

**odp**

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

**owl**

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

**process**ODP

<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#>

**resource**ODP

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

**vann**

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

## Legend

c

op

ap

Classes

Object Properties

Annotation Properties