

Circular Economy Ontology Network (CEON) - Process Module

Metadata

IRI

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

Title

Circular Economy Ontology Network (CEON) - Process Module

Publisher

Onto-DESIDE

Creator

Huanyu Li

Contributor

Eva Blomqvist

Mikael Lindecrantz

Robin Keskisärkkä

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Version Iri

<http://w3id.org/CEON/ontology/process/0.5/>

Version Info

0.5

Prior Version

0.4

Preferred Namespace Prefix

ceon-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

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

Classes

Energy^C

IRI <http://w3id.org/CE0N/ontology/energy/Energy>

Sub Class Of [resourceODP:Resource^C](#)

In Range Of [needsEnergy^{op}](#)

Assembling Process^C

IRI <http://w3id.org/CE0N/ontology/process/AssemblingProcess>

Sub Class Of [TransformationProcess^C](#)

Buy Resource Process^C

IRI <http://w3id.org/CE0N/ontology/process/BuyResourceProcess>

Sub Class Of [processODP:Process](#)

Co2Emission^C

IRI <http://w3id.org/CE0N/ontology/process/CO2Emission>

Sub Class Of [resourceODP:Resource^C](#)

In Range Of [producesCO2^{op}](#)

Catalyst^C

IRI <http://w3id.org/CE0N/ontology/process/Catalyst>

Sub Class Of [resourceODP:Resource^C](#)

In Range Of [usesCatalyst^{op}](#)

Change Resource Process^C

IRI <http://w3id.org/CE0N/ontology/process/ChangeResourceProcesses>

Sub Class Of [TransformationProcess^C](#)

Contact Process^C

IRI <http://w3id.org/CE0N/ontology/process/ContactProcess>

Sub Class Of [processODP:Process](#)

Deconstruction Process^C

IRI <http://w3id.org/CE0N/ontology/process/DeconstructionProcesses>

Sub Class Of [TransformationProcess^C](#)

Disassembling Process^C

IRI <http://w3id.org/CE0N/ontology/process/DisassemblingProcess>

Sub Class Of [TransformationProcess^C](#)

Dismantle Process^C

IRI <http://w3id.org/CE0N/ontology/process/DismantleProcess>

Sub Class Of [TransformationProcess^C](#)

Ensure Claim Process^C

IRI <http://w3id.org/CE0N/ontology/process/EnsureClaimProcess>

Sub Class Of [processODP:Process](#)

Issuing Certificate Process^C

IRI <http://w3id.org/CE0N/ontology/process/IssuingCertificateProcess>

Sub Class Of [TransformationProcess^C](#)

Manufacturing Process^C

IRI <http://w3id.org/CE0N/ontology/process/ManufacturingProcess>

Sub Class Of [TransformationProcess^C](#)

Offset Process^C

IRI <http://w3id.org/CE0N/ontology/process/OffsetProcess>

Sub Class Of [TransformationProcess^C](#)

Production Process^C

IRI <http://w3id.org/CE0N/ontology/process/ProductionProcess>

Sub Class Of [TransformationProcess^C](#)

Recycle Process^C

IRI <http://w3id.org/CE0N/ontology/process/RecycleProcess>

Sub Class Of [TransformationProcess^C](#)

Refurbishment Process^C

IRI <http://w3id.org/CE0N/ontology/process/RefurbishmentProcess>

Sub Class Of [TransformationProcess^C](#)

Remove Process^C

IRI <http://w3id.org/CE0N/ontology/process/RemoveProcess>

Sub Class Of [processODP:Process](#)

Remove Resource Process^C

IRI <http://w3id.org/CE0N/ontology/process/RemoveResourceProcesses>

Sub Class Of [TransformationProcess^C](#)

Repair Process^C

IRI <http://w3id.org/CE0N/ontology/process/RepairProcess>

Sub Class Of [TransformationProcess^C](#)

Resell Process^C

IRI <http://w3id.org/CE0N/ontology/process/ResellProcess>

Sub Class Of [processODP:Process](#)

Reuse Process^C

IRI <http://w3id.org/CE0N/ontology/process/ReuseProcess>

Sub Class Of [processODP:Process](#)

Sell Resource Process^C

IRI <http://w3id.org/CE0N/ontology/process/SellResourceProcess>

Sub Class Of [processODP:Process](#)

Service Process^c

IRI <http://w3id.org/CE0N/ontology/process/ServiceProcess>

Sub Class Of [TransformationProcess^c](#)

Share Resource Process^c

IRI <http://w3id.org/CE0N/ontology/process/ShareResourceProcess>

Sub Class Of [processODP:Process](#)

Take Back Process^c

IRI <http://w3id.org/CE0N/ontology/process/TakeBackProcess>

Sub Class Of [processODP:Process](#)

Transformation Process^c

IRI <http://w3id.org/CE0N/ontology/process/TransformationProcesses>

Is Defined By ISO 59004:2024 - 3.5.5 process

Description Set of interrelated or interacting activities that transforms inputs into outputs.

Sub Class Of [processODP:Process](#)

Super Class Of

- [AssemblingProcess^c](#)
- [ChangeResourceProcess^c](#)
- [DeconstructionProcess^c](#)
- [DisassemblingProcess^c](#)
- [DismantleProcess^c](#)
- [IssuingCertificateProcess^c](#)
- [ManufacturingProcess^c](#)
- [OffsetProcess^c](#)
- [ProductionProcess^c](#)
- [RecycleProcess^c](#)
- [RefurbishmentProcess^c](#)
- [RemoveResourceProcess^c](#)
- [RepairProcess^c](#)
- [ServiceProcess^c](#)

Transition^c

IRI <http://w3id.org/CE0N/ontology/process/Transition>

Sub Class Of [processODP:Situation](#)

In Domain Of [affectsObject^{op}](#)

Resource^c

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

In Range Of [resultingResource^{op}](#)

Super Class Of <http://w3id.org/CEON/ontology/energy/Energy>^c
[CO2Emission](#)^c
[Catalyst](#)^c

Event^c

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

Object Properties

affects object^{op}

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

Sub Property Of [processODP:isSettingFor](#)

Domain [Transition](#)^c

needs energy^{op}

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

Sub Property Of [processODP:hasInput^{op}](#)

Range <http://w3id.org/CEON/ontology/energy/Energy>^c

produces co2^{op}

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

Sub Property Of [processODP:hasOutput^{op}](#)

Range [CO2Emission](#)^c

resulting resource^{op}

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

Sub Property Of [processODP:hasOutput^{op}](#)

Range [resourceODP:Resource](http://w3id.org/CEON/ontology/resourceODP/Resource)^c

uses catalyst^{op}

IRI <http://w3id.org/CE0N/ontology/process/usesCatalyst>

Sub Property Of [processODP:hasInput^{op}](#)

Range [Catalyst^c](#)

has input^{op}

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

Super Property Of

- [needsEnergy^{op}](#)
- [usesCatalyst^{op}](#)

has output^{op}

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

Super Property Of

- [producesCO2^{op}](#)
- [resultingResource^{op}](#)

Namespaces

:

<http://w3id.org/CE0N/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/CE0N/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/CE0N/ontology/resourceODP/>

vann

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

Legend

c	Classes
op	Object Properties