

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/0.2/>

Version Info

0.2

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^c

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

Description An activity in the context of a circular value network, handling resources.

In Domain Of

[hasPart](#)^{op}
[has process execution](#)^{op}
[has process type](#)^{op}
[nextProcess](#)^{op}
[resultingSituation](#)^{op}
[occursAtTime](#)^{dp}

In Range Of

[hasPart](#)^{op}
[nextProcess](#)^{op}

Super Class Of

[Transformation](#)^c

Process execution^c

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

Description An execution of a specific process.

In Domain Of

[hasExecutionInput](#)^{op}
[hasExecutionOutput](#)^{op}
[nextExecution](#)^{op}
[occursAtLocation](#)^{op}

In Range Of

[has process execution](#)^{op}
[nextExecution](#)^{op}

Super Class Of

[TransformationExecution](#)^c

Process type^c

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

Description The type of a process.

In Range Of

[has process type](#)^{op}

Situation^c

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

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

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

Transformation^c

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

Sub Class Of [Process^c](#)

In Domain Of [hasInput^{op}](#)
[hasOutput^{op}](#)
[hasTransformationExecution^{op}](#)
[intialSituation^{op}](#)

Transformation Execution^c

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

Sub Class Of [Process execution^c](#)

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

Object Properties

participation in^{op}

IRI http://w3id.org/CEON/ontology/actorODP/participationIn

has execution input^{op}

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

Domain [Process execution^c](#)

has execution output^{op}

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

Domain [Process execution](#)^c

has input^{op}

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

Domain [Transformation](#)^c

has output^{op}

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

Domain [Transformation](#)^c

has part^{op}

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

Domain [Process](#)^c

Range [Process](#)^c

has process execution^{op}

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

Description A process can have specific executions.

Domain [Process](#)^c

Range [Process execution](#)^c

has process type^{op}

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

Description The type of the process.

Domain [Process](#)^c

Range [Process type](#)^c

has transformation execution^{op}

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

Domain [Transformation](#)^c

Range [TransformationExecution](#)^c

initial situation^{op}

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

Domain [Transformation](#)^c

Range [Situation](#)^c

is setting for^{op}

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

Domain [Situation](#)^c

next execution^{op}

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

Domain [Process execution](#)^c

Range [Process execution](#)^c

next process^{op}

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

Domain [Process^c](#)

Range [Process^c](#)

occurs at location^{op}

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

Domain [Process execution^c](#)

resulting situation^{op}

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

Domain [Process^c](#)

Range [Situation^c](#)

Datatype Properties

occurs at time^{dp}

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

Domain [Process^c](#)

Range [xsd:dateTime](#)

Annotation Properties

contributor^{ap}

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

created^{ap}

IRI 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}

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

title^{ap}

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

preferred namespace prefix^{ap}

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

preferred namespace uri^{ap}

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/processODP/

actorODP

http://w3id.org/CEON/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/>

xsd

<http://www.w3.org/2001/XMLSchema#>

Legend

c

Classes

op

Object Properties

dp

Datatype Properties

ap

Annotation Properties