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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Date Created

2023-03-23

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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

intial 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/cpannotation` `schema.owl#coversRequirements`

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