

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/CE0N/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/CE0N/ontology/processODP/ProcessType |
| Description | The type of a process. |
| In Range Of | has process type ^{op} |

Situation^c

| | |
|---------------------|---|
| IRI | http://w3id.org/CE0N/ontology/processODP/Situation |
| In Domain Of | isSettingFor ^{op} |
| In Range Of | initalSituation ^{op} resultingSituation ^{op} |

Transformation^c

| | |
|---------------------|--|
| IRI | http://w3id.org/CE0N/ontology/processODP/Transformation |
| Sub Class Of | Process ^c |
| In Domain Of | hasInput ^{op} hasOutput ^{op} hasTransformationExecution ^{op} initalSituation ^{op} |

Transformation Execution^C

| | |
|---------------------|---|
| IRI | http://w3id.org/CE0N/ontology/processODP/TransformationExecution |
| Sub Class Of | Process execution^C |
| In Range Of | hasTransformationExecution^{op} |

Object Properties

participation in^{op}

| | |
|------------|---|
| IRI | http://w3id.org/CE0N/ontology/actorODP/participationIn |
|------------|---|

has execution input^{op}

| | |
|---------------|---|
| IRI | http://w3id.org/CE0N/ontology/processODP/hasExecutionInput |
| Domain | Process execution^C |

has execution output^{op}

| | |
|---------------|---|
| IRI | http://w3id.org/CE0N/ontology/processODP/hasExecutionOutput |
| Domain | Process execution^C |

has input^{op}

| | |
|---------------|---|
| IRI | http://w3id.org/CE0N/ontology/processODP/hasInput |
| Domain | Transformation^C |

has output^{op}

| | |
|---------------|---|
| IRI | http://w3id.org/CE0N/ontology/processODP/hasOutput |
| Domain | Transformation^C |

has part^{op}

| | |
|---------------|---|
| IRI | http://w3id.org/CE0N/ontology/processODP/hasPart |
| Domain | Process^C |
| Range | Process^C |

has process execution^{op}

| | |
|--------------------|---|
| IRI | http://w3id.org/CE0N/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/CE0N/ontology/processODP/hasProcessType |
| Description | The type of the process. |
| Domain | Process ^c |
| Range | Process type ^c |

has transformation execution^{op}

| | |
|---------------|---|
| IRI | http://w3id.org/CE0N/ontology/processODP/hasTransformationExecution |
| Domain | Transformation ^c |
| Range | TransformationExecution ^c |

intial situation^{op}

| | |
|---------------|---|
| IRI | http://w3id.org/CE0N/ontology/processODP/intialSituation |
| Domain | Transformation ^c |
| Range | Situation ^c |

is setting for^{op}

| | |
|---------------|---|
| IRI | http://w3id.org/CE0N/ontology/processODP/isSettingFor |
| Domain | Situation ^c |

next execution^{op}

| | |
|---------------|---|
| IRI | http://w3id.org/CE0N/ontology/processODP/nextExecution |
| Domain | Process execution ^c |
| Range | Process execution ^c |

next process^{op}

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

Domain [Process](#)^c

Range [Process](#)^c

occurs at location^{op}

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

Domain [Process execution](#)^c

resulting situation^{op}

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

Domain [Process](#)^c

Range [Situation](#)^c

Datatype Properties

occurs at time^{dp}

IRI <http://w3id.org/CE0N/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/cannotation-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/cannotationschema.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 |