Circular Economy Ontology Network (CEON) -Construction Module

Metadata

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IRI
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http://w3id.org/CEON/demo/constr
uction/

Title

Circular Economy Ontology Network (CEON) - Construction Module

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Date Created

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Version Iri

http://w3id.org/CEON/demo/construction/0.1/

Version Info

0.1

Preferred Namespace Prefix

construction

Preferred Namespace Uri

http://w3id.org/CEON/demo/construction/

Description

The Product module of CEON (Circular Economy Ontology Network).

Classes

Condition ^C

http://w3id.org/CE0

N/demo/construction

/Condition

In Range Of hasCondition op

Super Class Of FloorTileCondition^C

Contaminant ^C

http://w3id.org/CE0

N/demo/construction

/Contaminant

In Range Of hasContaminant op

Dimensional Deviation ^c

http://w3id.org/CE0

N/demo/construction /DimensionalDeviati

on

In Range Of <u>hasDimensionalDeviation</u>

op

Fire Resistance Rating^C

http://w3id.org/CE0

N/demo/construction /FireResistanceRati

ng

In Range Of hasFireResistanceRating

ор

Named Individuals

F30ⁿⁱ F60ⁿⁱ

Fire Resistance Relation ^c

http://w3id.org/CE0

N/demo/construction /FireResistanceRela

tion

Sub Class Of <u>actorODP:ResourceParti</u>

<u>cipation</u>

Floor Tile C

http://w3id.org/CE0

N/demo/construction

/FloorTile

Sub Class Of product:Product

Floor Tile Condition ^C

http://w3id.org/CE0

N/demo/construction /FloorTileCondition

Sub Class Of Condition C

Named Individuals

bad_conditionⁿⁱ
good_conditionⁿⁱ
medium_conditionⁿⁱ

Floor Tile Condition Relation ^C

http://w3id.org/CE0

N/demo/construction /FloorTileCondition

Relation

Sub Class Of <u>actorODP:ResourceParti</u>

<u>cipation</u>

Galvanized Steel Material C

IRI http://w3id.org/CE0

N/demo/construction /GalvanizedSteelMat

erial

Sub Class Of <u>material:Material</u>

Policy On Treatment ^C

http://w3id.org/CE0

N/demo/construction /PolicyOnTreatment

In Range Of policyOnTreatment op

Named Individuals

refurbishⁿⁱ reprocessⁿⁱ reuseⁿⁱ

Product Quality^C

http://w3id.org/CE0

N/demo/construction /ProductQuality

In Range Of hasProductQuality^{op}

Named Individuals

<u>product_quality_high</u>ⁿⁱ <u>product_quality_low</u>ⁿⁱ <u>product_quality_medium</u>

ni

Treatment Policy^C

http://w3id.org/CE0

N/demo/construction /TreatmentPolicy

Named Individuals

refurbishⁿⁱ
reprocessⁿⁱ
reuseⁿⁱ

Object Properties

has condition op

http://w3id.org/CE0

N/demo/construction

/hasCondition

Sub Property Of topObjectProperty Op

Domain product:Product^c or

product:ProductObject^C

Range Condition^C

has contaminant op

http://w3id.org/CE0

N/demo/construction

/hasContaminant

Domain <u>product:Product</u>

Range Contaminant^C

has dimension op

http://w3id.org/CE0

N/demo/construction

/hasDimension

Sub Property Of http://qudt.org/schema/qu

dt/quantityValue

Super Property Of

hasHeight^{op}

hasThickness^{op}

hasWidth^{op}

Domain product:Product^c or

product:ProductObject^C

has dimensional deviation op

http://w3id.org/CE0

N/demo/construction/hasDimensionalDevi

ation

Sub Property Of topObjectProperty op

Domain <u>product:Product</u>

Range <u>DimensionalDeviation</u>^C

has distance to recycling plant op

IRI http://w3id.org/CE0

N/demo/construction/hasDistanceToRecyc

lingPlant

Sub Property Of http://qudt.org/schema/qu

dt/quantityValue

has fire resistance rating op

http://w3id.org/CE0

N/demo/construction /hasFireResistanceR

ating

Sub Property Of topObjectProperty op

Domain <u>product:ProductObject</u>^C

or product:Product^c

Range <u>FireResistanceRating</u>^C

has height op

http://w3id.org/CE0

N/demo/construction

/hasHeight

Sub Property Of hasDimension op

has market value for new product op

IRI http://w3id.org/CE0

N/demo/construction/hasMarketValueForN

ewProduct

Sub Property Of <u>quantity:hasMarketValue</u>

Domain <u>product:Product</u>

has market value for reused product op

http://w3id.org/CE0

N/demo/construction/hasMarketValueForR

eusedProduct

Sub Property Of <u>quantity:hasMarketValue</u>

Domain <u>product:Product</u>

has product quality op

http://w3id.org/CE0

N/demo/construction /hasProductQuality

Sub Property Of topObjectProperty Op

Domain product:Product^c or

<u>product:ProductObject</u>^c

Range <u>ProductQuality</u>^c

has recycling potential op

http://w3id.org/CE0

N/demo/construction/hasRecyclingPotent

ial

Sub Property Of http://qudt.org/schema/qu

dt/quantityValue

Domain product:Product^c or

product:ProductObject^C

has recycling separability op

http://w3id.org/CE0

N/demo/construction/hasRecyclingSepara

bility

Sub Property Of http://qudt.org/schema/qu

dt/quantityValue

Domain product:Product^c or

product:ProductObject^c

has resistance to earth op

IRI http://w3id.org/CE0

N/demo/construction/hasResistanceToEar

th

Sub Property Of http://qudt.org/schema/qu

dt/quantityValue

Domain product:Product

has reuse deconstructability op

IRI http://w3id.org/CE0

N/demo/construction/hasReuseDeconstruc

tability

Sub Property Of http://qudt.org/schema/qu

dt/quantityValue

Domain <u>product:Product</u>

has system weight op

http://w3id.org/CE0

N/demo/construction /hasSystemWeight

Sub Property Of http://qudt.org/schema/qu

dt/quantityValue

Domain <u>product:ProductObject</u>^C

or product:Product^C

has thickness op

http://w3id.org/CE0

N/demo/construction

/hasThickness

Sub Property Of hasDimension op

has use span op

http://w3id.org/CE0

N/demo/construction

/hasUseSpan

Sub Property Of http://qudt.org/schema/qu

dt/quantityValue

Super Property Of

• <u>hasUseSpanRemai</u>

<u>ning</u>^{op}

hasUseSpanTotal^{op}

Domain <u>product:ProductObject</u>^C

or product:Product^c

has use span remaining op

http://w3id.org/CE0

N/demo/construction/hasUseSpanRemainin

g

Sub Property Of hasUseSpan op

has use span total op

http://w3id.org/CE0

N/demo/construction/hasUseSpanTotal

Sub Property Of hasUseSpan op

has width ^{op}

http://w3id.org/CE0

N/demo/construction

/hasWidth

Sub Property Of has Dimension op

policy on treatment op

http://w3id.org/CE0

N/demo/construction/policyOnTreatment

Sub Property Of topObjectProperty op

Domain <u>product:Product</u>

Range PolicyOnTreatment^C

installation location op

IRI http://w3id.org/CE0

N/demo/construction /installationLocati

on

Sub Property Of topObjectProperty op

Datatype Properties

has accessories dp

http://w3id.org/CE0

N/demo/construction

/hasAccessories

Domain <u>product:ProductObject</u>^C

or product:Product^C

Range <u>xsd:string</u>

has dismantling method dp

IRI http://w3id.org/CE0

N/demo/construction/hasDismantlingMeth

od

Sub Property Of topDataProperty dp

Domain product:Product or

product:ProductObject^C

Range <u>xsd:string</u>

has installation date dp

http://w3id.org/CE0

N/demo/construction/hasInstallationDat

e

Sub Property Of topDataProperty dp

Domain <u>product:ProductObject</u>

Range xsd:date

has packaging recommendations after dismantling $^{\mbox{\scriptsize dp}}$

http://w3id.org/CE0

N/demo/construction /hasPackagingRecomm endationsAfterDisma

ntling

Sub Property Of topDataProperty dp

Domain product:ProductObject^C

or product:Product^C

Range <u>xsd:string</u>

has product description dp

http://w3id.org/CE0

N/demo/construction/hasProductDescript

ion

Sub Property Of topDataProperty dp

Domain product:Product^c or

product:ProductObject^C

Range <u>xsd:string</u>

has product id dp

IRI http://w3id.org/CE0

N/demo/construction

/hasProductID

Sub Property Of topDataProperty dp

Domain product:Product^C or

product:ProductObject^C

Range <u>xsd:int</u>

has production date dp

http://w3id.org/CE0

N/demo/construction/hasProductionDate

Sub Property Of topDataProperty dp

Domain <u>product:ProductObject</u>

Range <u>xsd:date</u>

has production site ^{dp}

http://w3id.org/CE0

N/demo/construction/hasProductionSite

Sub Property Of topDataProperty dp

Domain <u>product:ProductObject</u>^C

or product:Product^c

Range <u>xsd:string</u>

has refurbishment method dp

http://w3id.org/CE0

N/demo/construction/hasRefurbishmentMe

thod

Sub Property Of topDataProperty dp

Domain <u>product:ProductObject</u>^C

or product:Product^C

Range xsd:string

has take back program from original manufacturer ^{dp}

IRI http://w3id.org/CE0

N/demo/construction /hasTakeBackProgram FromOriginalManufac

turer

Sub Property Of topDataProperty dp

Domain <u>product:Product</u>

Range xsd:boolean

has take back program other manufacturer ^{dp}

http://w3id.org/CE0

N/demo/construction /hasTakeBackProgram OtherManufacturer

Sub Property Of topDataProperty dp

Domain product:Product

Range xsd:boolean

has technical requirements for take back for recycling ^{dp}

http://w3id.org/CE0

N/demo/construction /hasTechnicalRequir ementsForTakeBackFo

rRecycling

Sub Property Of topDataProperty dp

Domain product:Product^c or

product:ProductObject^C

Range <u>xsd:string</u>

has technical requirements for take back for reuse ^{dp}

http://w3id.org/CE0

N/demo/construction /hasTechnicalRequir ementsForTakeBackFo

rReuse

Sub Property Of topDataProperty dp

Domain product:ProductObject^C

or product:Product^C

Range <u>xsd:string</u>

is contaminated ^{dp}

http://w3id.org/CE0

N/demo/construction /isContaminated

Sub Property Of topDataProperty dp

Domain <u>product:ProductObject</u>^C

or product:Product^c

Range <u>xsd:boolean</u>

construction year dp

http://w3id.org/CE0

N/demo/construction/constructionYear

Sub Property Of topDataProperty dp

Range <u>xsd:gYear</u>

has dismantling instruction ^{dp}

http://w3id.org/CE0

N/demo/construction/hasDismantlingInst

ruction

Sub Property Of topDataProperty dp

Range <u>xsd:anyURI</u>

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

http://purl.org/voc

ab/vann/preferredNa

mespacePrefix

preferred namespace uri ap

IRI http://purl.org/voc

ab/vann/preferredNa

mespaceUri

covers requirements ap

IRI http://www.ontology

designpatterns.org/
schemas/cpannotatio
nschema.owl#coversR

equirements

Namespaces

:

http://w3id.org/CEON/demo/constr
uction/

actor

http://w3id.org/CEON/ontology/ac
tor/

actorODP

http://w3id.org/CEON/ontology/ac
torODP/

datasheet

http://w3id.org/CEON/ontology/da
tasheet/

dcterms

```
http://purl.org/dc/terms/
material
    http://w3id.org/CEON/ontology/ma
    terial/
odp
    http://www.ontologydesignpattern
    s.org/schemas/cpannotationschema
    .owl#
owl
    http://www.w3.org/2002/07/owl#
product
    http://w3id.org/CEON/ontology/pr
    oduct/
prov
    http://www.w3.org/ns/prov#
quantity
    http://w3id.org/CEON/ontology/qu
    antity#
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

Clas С ses Obj ect ор Pro perti es Dat atyp е dp Pro perti es Ann otati on ар Pro perti

es