Circular Economy Ontology Network (CEON) - Construction Module

Metadata

IRI

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

Title

Circular Economy Ontology Network (CEON) - Construction Module

Publisher

Onto-DESIDE

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Version Iri

http://w3id.org/CEON/demo/construction/0.2/

Version Info

0.2

Prior Version

0.1

Preferred Namespace Prefix

ceon-demo-construction

Preferred Namespace Uri

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

Description

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

Classes

Condition ^C

IRI	http://w3id.org/CEON/demo/construction/Condition
In Range Of	defineResourceCondition ^{op} hasCondition ^{op}
Super Class Of	FloorTileCondition ^C

Contaminant [C]

IRI	http://w3id.org/CEON/demo/construction/Contaminant
In Range Of	hasContaminant [op]

Dimensional Deviation [C]

IRI	http://w3id.org/CEON/demo/construction/DimensionalDeviation
In Range Of	hasDimensionalDeviation [op]

Fire Resistance Rating [C]

IRI	http://w3id.org/CEON/demo/construction/FireResistanceRating
In Range Of	hasFireResistanceRating [op]
Named Individuals	F30 [ni] F60 [ni]

Fire Resistance Relation [C]

IRI	http://w3id.org/CEON/demo/construction/FireResistanceRelation
Sub Class Of	actorODP:ResourceParticipation

Floor Tile [C]

IRI	http://w3id.org/CEON/demo/construction/FloorTile
Sub Class Of	product:Product

Floor Tile Condition [C]

IRI	http://w3id.org/CEON/demo/construction/FloorTileCondition
Sub Class Of	Condition [C]
Named Individuals	bad_condition [ni] good_condition [ni] medium_condition [ni]

Floor Tile Condition Relation ^C

IRI	http://w3id.org/CEON/demo/construction/FloorTileConditionRelation
Sub Class Of	actorODP:ResourceParticipation

Galvanized Steel Material ^C

IRI	http://w3id.org/CEON/demo/construction/GalvanizedSteelMaterial
Sub Class Of	material:Material

Policy On Treatment ^C

IRI	http://w3id.org/CEON/demo/construction/PolicyOnTreatment
In Range Of	policyOnTreatment ^{op}
Named Individuals	refurbish ⁿⁱ reprocess ⁿⁱ reuse ⁿⁱ

Product Quality ^C

IRI	http://w3id.org/CEON/demo/construction/ProductQuality
In Range Of	defineResourceQuality ^{op} hasProductQuality ^{op}
Named Individuals	product_quality_high ⁿⁱ product_quality_low ⁿⁱ product_quality_medium ⁿⁱ

Treatment Policy ^C

IRI	http://w3id.org/CEON/demo/construction/TreatmentPolicy
Named Individuals	refurbish ⁿⁱ reprocess ⁿⁱ reuse ⁿⁱ

Object Properties

associated process for lca ^{op}

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

define resource condition ^{op}

IRI	http://w3id.org/CEON/demo/construction/defineResourceCondition
Domain	actorODP:Actor
Range	Condition ^c

define resource quality ^{op}

IRI	http://w3id.org/CEON/demo/construction/defineResourceQuality
Domain	actorODP:Actor
Range	ProductQuality ^c

has condition ^{op}

IRI	http://w3id.org/CEON/demo/construction/hasCondition
Sub Property Of	topObjectProperty ^{op}
Domain	product:Product ^c *or* product:Item ^c
Range	Condition ^c

has contaminant ^{op}

IRI	http://w3id.org/CEON/demo/construction/hasContaminant
Domain	product:Product
Range	Contaminant ^c

has dimension ^{op}

IRI	http://w3id.org/CEON/demo/construction/hasDimension
Sub Property Of	http://qudt.org/schema/qudt/quantityValue
Super Property Of	• hasHeight ^{op} • hasThickness ^{op} • hasWidth ^{op}
Domain	product:Item ^c *or* product:Product ^c

has dimensional deviation ^{op}

IRI	http://w3id.org/CEON/demo/construction/hasDimensionalDeviation
Sub Property Of	topObjectProperty ^{op}
Domain	product:Product
Range	DimensionalDeviation ^c

has distance to recycling plant ^{op}

IRI	http://w3id.org/CEON/demo/construction/hasDistanceToRecyclingPlant
Sub Property Of	http://qudt.org/schema/qudt/quantityValue

has fire resistance rating ^{op}

IRI	http://w3id.org/CEON/demo/construction/hasFireResistanceRating
Sub Property Of	topObjectProperty ^{op}
Domain	product:Item ^c *or* product:Product ^c
Range	FireResistanceRating ^c

has height ^{op}

IRI	http://w3id.org/CEON/demo/construction/hasHeight
Sub Property Of	hasDimension ^{op}

has market value for new product ^{op}

IRI	http://w3id.org/CEON/demo/construction/hasMarketValueForNewProduct
Sub Property Of	quantity:hasMarketValue ^{op}
Domain	product:Product

has market value for reused product ^{op}

IRI	http://w3id.org/CEON/demo/construction/hasMarketValueForReusedProduct
Sub Property Of	quantity:hasMarketValue ^{op}
Domain	product:Product

has product quality ^{op}

IRI	http://w3id.org/CEON/demo/construction/hasProductQuality
Sub Property Of	topObjectProperty ^{op}
Domain	product:Item ^c *or* product:Product ^c
Range	ProductQuality ^c

has recycling potential ^{op}

IRI	http://w3id.org/CEON/demo/construction/hasRecyclingPotential
Sub Property Of	http://qudt.org/schema/qudt/quantityValue
Domain	product:Product ^c *or* product:Item ^c

has recycling separability ^{op}

IRI	http://w3id.org/CEON/demo/construction/hasRecyclingSeparability
Sub Property Of	http://qudt.org/schema/qudt/quantityValue
Domain	product:Product ^c *or* product:Item ^c

has resistance to earth ^{op}

IRI	http://w3id.org/CEON/demo/construction/hasResistanceToEarth
Sub Property Of	http://qudt.org/schema/qudt/quantityValue
Domain	product:Product

has reuse deconstructability ^{op}

IRI	http://w3id.org/CEON/demo/construction/hasReuseDeconstructability
Sub Property Of	http://qudt.org/schema/qudt/quantityValue
Domain	product:Product

has system weight ^{op}

IRI	http://w3id.org/CEON/demo/construction/hasSystemWeight
Sub Property Of	http://qudt.org/schema/qudt/quantityValue
Domain	product:Item ^c *or* product:Product ^c

has thickness ^{op}

IRI	`http://w3id.org/CEON/demo/construction/hasThickness`
Sub Property Of	hasDimension ^{op}

has use span ^{op}

IRI	`http://w3id.org/CEON/demo/construction/hasUseSpan`
Sub Property Of	http://qudt.org/schema/qudt/quantityValue
Super Property Of	- hasUseSpanRemaining ^{op} - hasUseSpanTotal ^{op}
Domain	product:Item ^c *or* product:Product ^c

has use span remaining ^{op}

IRI	`http://w3id.org/CEON/demo/construction/hasUseSpanRemaining`
Sub Property Of	hasUseSpan ^{op}

has use span total ^{op}

IRI	`http://w3id.org/CEON/demo/construction/hasUseSpanTotal`
Sub Property Of	hasUseSpan ^{op}

has width ^{op}

IRI	`http://w3id.org/CEON/demo/construction/hasWidth`
Sub Property Of	hasDimension ^{op}

installation location ^{op}

IRI	`http://w3id.org/CEON/demo/construction/installationLocation`
Sub Property Of	topObjectProperty ^{op}

policy on treatment ^{op}

IRI	`http://w3id.org/CEON/demo/construction/policyOnTreatment`
Sub Property Of	topObjectProperty ^{op}
Domain	product:Product
Range	PolicyOnTreatment ^c

has market value ^{op}

IRI   http://w3id.org/CEON/ontology/quantity#hasMarketValue

Super Property Of
- hasMarketValueForNewProduct ^{op}
- hasMarketValueForReusedProduct ^{op}

Datatype Properties

construction year ^{dp}

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

Sub Property Of   topDataProperty ^{dp}

Range   xsd:gYear

has accessories ^{dp}

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

Domain   product:Product ^c *or* product:Item ^c

Range   xsd:string

has dismantling instruction ^{dp}

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

Sub Property Of   topDataProperty ^{dp}

Range   xsd:anyURI

has dismantling method ^{dp}

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

Sub Property Of   topDataProperty ^{dp}

Domain   product:Item ^c *or* product:Product ^c

Range   xsd:string

has installation date ^{dp}

IRI	http://w3id.org/CEON/demo/construction/hasInstallationDate
Sub Property Of	topDataProperty ^{dp}
Domain	product:Item
Range	xsd:date

has packaging recommendations after dismantling ^{dp}

IRI	http://w3id.org/CEON/demo/construction/hasPackagingRecommendationsAfterDismantling
Sub Property Of	topDataProperty ^{dp}
Domain	product:Item ^C *or* product:Product ^C
Range	xsd:string

has product description ^{dp}

IRI	http://w3id.org/CEON/demo/construction/hasProductDescription
Sub Property Of	topDataProperty ^{dp}
Domain	product:Product ^C *or* product:Item ^C
Range	xsd:string

has product id ^{dp}

IRI	http://w3id.org/CEON/demo/construction/hasProductID
Sub Property Of	topDataProperty ^{dp}
Domain	product:Product ^C *or* product:Item ^C
Range	xsd:int

has production date ^{dp}

IRI	http://w3id.org/CEON/demo/construction/hasProductionDate
Sub Property Of	topDataProperty ^{dp}
Domain	product:Item
Range	xsd:date

has production site ^{dp}

IRI	http://w3id.org/CEON/demo/construction/hasProductionSite
Sub Property Of	topDataProperty ^{dp}
Domain	product:Product ^c *or* product:Item ^c
Range	xsd:string

has refurbishment method ^{dp}

IRI	http://w3id.org/CEON/demo/construction/hasRefurbishmentMethod
Sub Property Of	topDataProperty ^{dp}
Domain	product:Item ^c *or* product:Product ^c
Range	xsd:string

has take back program from original manufacturer ^{dp}

IRI	http://w3id.org/CEON/demo/construction/hasTakeBackProgramFromOriginalManufacturer
Sub Property Of	topDataProperty ^{dp}
Domain	product:Product
Range	xsd:boolean

has take back program other manufacturer ^{dp}

IRI	http://w3id.org/CEON/demo/construction/hasTakeBackProgramOtherManufacturer
Sub Property Of	topDataProperty ^{dp}
Domain	product:Product
Range	xsd:boolean

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

IRI	http://w3id.org/CEON/demo/construction/hasTechnicalRequirementsForTakeBackForRecycling
Sub Property Of	topDataProperty ^{dp}
Domain	product:Item ^c *or* product:Product ^c
Range	xsd:string

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

IRI	http://w3id.org/CEON/demo/construction/hasTechnicalRequirementsForTakeBackForReuse
Sub Property Of	topDataProperty ^{dp}
Domain	product:Product ^c *or* product:Item ^c
Range	xsd:string

is contaminated ^{dp}

IRI	http://w3id.org/CEON/demo/construction/isContaminated
Sub Property Of	topDataProperty ^{dp}
Domain	product:Item ^c *or* product:Product ^c
Range	xsd:boolean

Annotation Properties

issued ^{ap}

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

publisher ^{ap}

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

Namespaces

:

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

actor

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

actorODP

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

datasheet

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

dcterms

> http://purl.org/dc/terms/

material

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

owl

> http://www.w3.org/2002/07/owl#

product

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

prov

> http://www.w3.org/ns/prov#

quantity

http://w3id.org/CEON/ontology/quantity#

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