

Circular Economy Ontology Network (CEON) - Quantity Module

Metadata

IRI

<http://w3id.org/CEON/ontology/quantity/>

Title

Circular Economy Ontology Network (CEON) - Quantity Module

Publisher

Onto-DESIDE

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Version Iri

<http://w3id.org/CEON/ontology/quantity/0.2/>

Version Info

0.2

Prior Version

0.1

Preferred Namespace Prefix

ceon-quantity

Preferred Namespace Uri

<http://w3id.org/CEON/ontology/quantity/>

Covers Requirements

In addition to requirements covered by imported ODPs, covers the following requirements from Onto-DESIDE D3.2: C3-2, C13-1, C13-4, E3-1, E4-11, T6-1, T10-1.

Classes

Quantity Interval ^c	
IRI	http://w3id.org/CEON/ontology/quantity/QuantityInterval
In Domain Of	hasMaximalValueIncludedOfInterval^{op} hasMaximalValueNotIncludedOfInterval^{op} hasMinimalValueIncludedOfInterval^{op} hasMinimalValueNotIncludedOfInterval^{op}

Object Properties

has dimension^{op}

IRI <http://w3id.org/CE0N/ontology/quantity/hasDimension>

Sub Property Of [gudt:quantityValue](#)

Super Property Of

- [hasHeight^{op}](#)
- [hasLength^{op}](#)
- [hasThickness^{op}](#)
- [hasWidth^{op}](#)

has dismantling cost^{op}

IRI <http://w3id.org/CE0N/ontology/quantity/hasDismantlingCost>

Sub Property Of [hasProcessCost^{op}](#)

has height^{op}

IRI <http://w3id.org/CE0N/ontology/quantity/hasHeight>

Sub Property Of [hasDimension^{op}](#)

has length^{op}

IRI <http://w3id.org/CE0N/ontology/quantity/hasLength>

Sub Property Of [hasDimension^{op}](#)

has market value^{op}

IRI <http://w3id.org/CE0N/ontology/quantity/hasMarketValue>

Sub Property Of [gudt:quantityValue](#)

has maximal value included of interval^{op}

IRI <http://w3id.org/CE0N/ontology/quantity/hasMaximalValueIncludedOfInterval>

Sub Property Of [gudt:quantityValue](#)

Domain [QuantityInterval^c](#)

Range [gudt:QuantityValue](#)

has maximal value not included of interval^{op}

IRI	http://w3id.org/CE0N/ontology/quantity/hasMaximalValueNotIncludedOfInterval
Sub Property Of	gudt:quantityValue
Domain	QuantityInterval ^c
Range	gudt:QuantityValue

has minimal value included of interval^{op}

IRI	http://w3id.org/CE0N/ontology/quantity/hasMinimalValueIncludedOfInterval
Sub Property Of	gudt:quantityValue
Domain	QuantityInterval ^c
Range	gudt:QuantityValue

has minimal value not included of interval^{op}

IRI	http://w3id.org/CE0N/ontology/quantity/hasMinimalValueNotIncludedOfInterval
Sub Property Of	gudt:quantityValue
Domain	QuantityInterval ^c
Range	gudt:QuantityValue

has price^{op}

IRI	http://w3id.org/CE0N/ontology/quantity/hasPrice
Sub Property Of	gudt:quantityValue

has process cost^{op}

IRI	http://w3id.org/CE0N/ontology/quantity/hasProcessCost
Sub Property Of	gudt:quantityValue
Super Property Of	<ul style="list-style-type: none">• hasDismantlingCost^{op}• hasRecyclingCost^{op}• hasRefurbishmentCost^{op}• hasTestingCost^{op}• hasTransportCost^{op}

has recycling cost^{op}

IRI <http://w3id.org/CE0N/ontology/quantity/hasRecyclingCost>

Sub Property Of [hasProcessCost^{op}](#)

has refurbishment cost^{op}

IRI <http://w3id.org/CE0N/ontology/quantity/hasRefurbishmentCost>

Sub Property Of [hasProcessCost^{op}](#)

has testing cost^{op}

IRI <http://w3id.org/CE0N/ontology/quantity/hasTestingCost>

Sub Property Of [hasProcessCost^{op}](#)

has thickness^{op}

IRI <http://w3id.org/CE0N/ontology/quantity/hasThickness>

Sub Property Of [hasDimension^{op}](#)

has transport cost^{op}

IRI <http://w3id.org/CE0N/ontology/quantity/hasTransportCost>

Sub Property Of [hasProcessCost^{op}](#)

has volume^{op}

IRI <http://w3id.org/CE0N/ontology/quantity/hasVolume>

Sub Property Of [qudt:quantityValue](#)

has weight^{op}

IRI <http://w3id.org/CE0N/ontology/quantity/hasWeight>

Sub Property Of [qudt:quantityValue](#)

has width^{op}

IRI <http://w3id.org/CE0N/ontology/quantity/hasWidth>

Sub Property Of [hasDimension^{op}](#)

object value^{op}

IRI <http://w3id.org/CE0N/ontology/quantity/objectValue>

Sub Property Of [qudt:hasQuantityKind](#)

Datatype Properties

numerical max value^{dp}

IRI <http://w3id.org/CE0N/ontology/quantity/numericalMaxValue>

Range [xsd:double](#)

numerical min value^{dp}

IRI <http://w3id.org/CE0N/ontology/quantity/numericalMinValue>

Sub Property Of [topDataProperty](#)^{dp}

Range [xsd:double](#)

Annotation Properties

contributor^{ap}

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

created^{ap}

IRI <http://purl.org/dc/terms/created>

issued^{ap}

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

publisher^{ap}

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

covers requirements^{ap}

IRI [http://www.ontologydesignpatterns.org/schemas/cpannotation
schema.owl#coversRequirements](http://www.ontologydesignpatterns.org/schemas/cpannotation/schema.owl#coversRequirements)

Namespaces

:

<http://w3id.org/CEON/ontology/quantity/>

dcterms

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

owl

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

prov

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

qudt

<http://qudt.org/schema/qudt/>

qudt-unit

<http://qudt.org/vocab/unit/>

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