

Circular Economy Ontology Network (CEON) - Quantity Module

Metadata

IRI

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

Title

Circular Economy Ontology Network (CEON) - Quantity Module

Creator

Huanyu Li

License

<https://creativecommons.org/licenses/by/4.0/>

Version Iri

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

Version Info

0.2

Preferred Namespace Prefix

quantity

Preferred Namespace Uri

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

Description

This module defines base properties to describe quantities with standardized units.

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/CEON/ontology/quantity/hasDimension>

Sub Property Of

[qudt: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 [qudt:quantityValue](#)

has maximal value included of interval^{op}

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

Sub Property Of [qudt:quantityValue](#)

Domain [QuantityInterval^c](#)

Range [qudt:QuantityValue](#)

has maximal value not included of interval^{op}

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

Sub Property Of [qudt:quantityValue](#)

Domain [QuantityInterval^c](#)

Range [qudt: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 [topObjectProperty^{op}](#)

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

creator ^{ap}	
IRI	http://purl.org/dc/terms/creator

description ^{ap}	
IRI	http://purl.org/dc/terms/description

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

Namespaces

:

<http://w3id.org/CE0N/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