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

Creator

Huanyu Li

Contributor

Eva Blomqvist

Date Created

2024-12-31

Date Issued

2025-06-30

License

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

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/

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/CEON/ontology/quantity/hasDismantlingCost
Sub Property Of	hasProcessCost ^{op}

has height ^{op}

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

has length ^{op}

IRI	http://w3id.org/CEON/ontology/quantity/hasLength
Sub Property Of	hasDimension ^{op}

has market value ^{op}

IRI	http://w3id.org/CEON/ontology/quantity/hasMarketValue
Sub Property Of	qudt:quantityValue

has maximal value included of interval ^{op}

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

has minimal value not included of interval ^{op}

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

has price ^{op}

IRI	`http://w3id.org/CEON/ontology/quantity/hasPrice`
Sub Property Of	qudt:quantityValue

has process cost ^{op}

IRI	`http://w3id.org/CEON/ontology/quantity/hasProcessCost`
Sub Property Of	qudt:quantityValue
Super Property Of	• hasDismantlingCost^{op} • hasRecyclingCost^{op} • hasRefurbishmentCost^{op} • hasTestingCost^{op} • hasTransportCost^{op}

has recycling cost ^{op}

IRI	http://w3id.org/CEON/ontology/quantity/hasRecyclingCost
Sub Property Of	hasProcessCost ^{op}

has refurbishment cost ^{op}

IRI	http://w3id.org/CEON/ontology/quantity/hasRefurbishmentCost
Sub Property Of	hasProcessCost ^{op}

has testing cost ^{op}

IRI	http://w3id.org/CEON/ontology/quantity/hasTestingCost
Sub Property Of	hasProcessCost ^{op}

has thickness ^{op}

IRI	http://w3id.org/CEON/ontology/quantity/hasThickness
Sub Property Of	hasDimension ^{op}

has transport cost ^{op}

IRI	http://w3id.org/CEON/ontology/quantity/hasTransportCost
Sub Property Of	hasProcessCost ^{op}

has volume ^{op}

IRI	http://w3id.org/CEON/ontology/quantity/hasVolume
Sub Property Of	qudt:quantityValue

has weight ^{op}

IRI	http://w3id.org/CEON/ontology/quantity/hasWeight
Sub Property Of	qudt:quantityValue

has width ^{op}

IRI	http://w3id.org/CEON/ontology/quantity/hasWidth
Sub Property Of	hasDimension ^{op}

object value ^{op}	
IRI	http://w3id.org/CEON/ontology/quantity/objectValue
Sub Property Of	qudt:hasQuantityKind

Datatype Properties

numerical max value ^{dp}	
IRI	http://w3id.org/CEON/ontology/quantity/numericalMaxValue
Range	xsd:double

numerical min value ^{dp}	
IRI	http://w3id.org/CEON/ontology/quantity/numericalMinValue
Sub Property Of	topDataProperty ^{dp}
Range	xsd:double

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