### O12 has dimension (is dimension of)

#### TO (new):

**O12 has dimension (is dimension of)**

Domain: [S15](https://docs.google.com/document/d/1_OncdSda-mYNJtUmcyC3lVvnDVuZTo7O/edit#heading=h.3rdcrjn) Observable Entity

Range: [E54](https://docs.google.com/document/d/1_OncdSda-mYNJtUmcyC3lVvnDVuZTo7O/edit#heading=h.2jxsxqh) Dimension

Quantification: one to many, dependent (0,n:1,1)

Scope note: This property associates an instance of S15 Observable Entity with an instance of E54 Dimension that the observable entity has.

It offers no information about how and when an E54 Dimension was established.

Examples:

* The earthquake of Mexico city in 2017 *had dimension* magnitude 6.2 Richter (Mindock, 2017, <http://www.independent.co.uk/news/world/americas/mexico-earthquake-today-latest-mexico-city-magnitude-6-tremor-damage-a7963211.html> ).
* The landslide that was activated in Parnitha in 1999 after the earthquake*, had* dimension crest length > 70 (InGeoCloudS - INspiredGEOdata CLOUD Services D2.2 2012;D2.3 2013)

In First Order Logic:

 O12(x,y) ⊃ S15(x)

 O12(x,y) ⊃ E54(y)

[O12(x,y) ∧ E18(x)] ⇒ P43(x,y)

[P43(x,y) ∧ E18(x)] ⇒ O12(x,y)