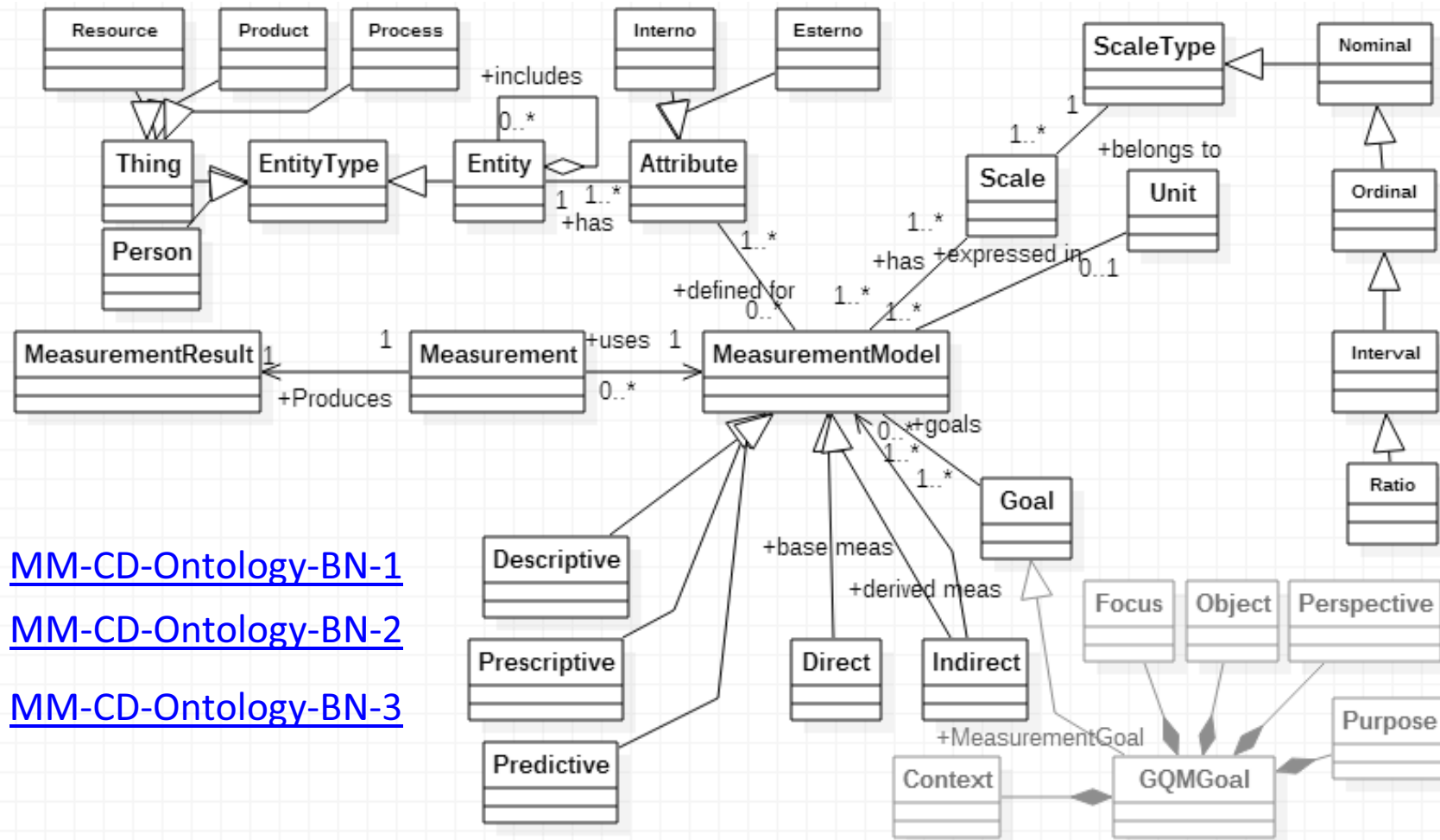


Measurement Model Ontologies (MMO)

Introducing to:

- **bMMO**: the “basic MMO” & Related Evolutions.
- **SMMO**: the “Software MMO”.
- **sMMO**: the “simplified MMO”.
- **RSO**: A Reference Software Ontology & related Subontologies and Integrated Ontologies.

Basic MMO ('90s) & Related Evolutions



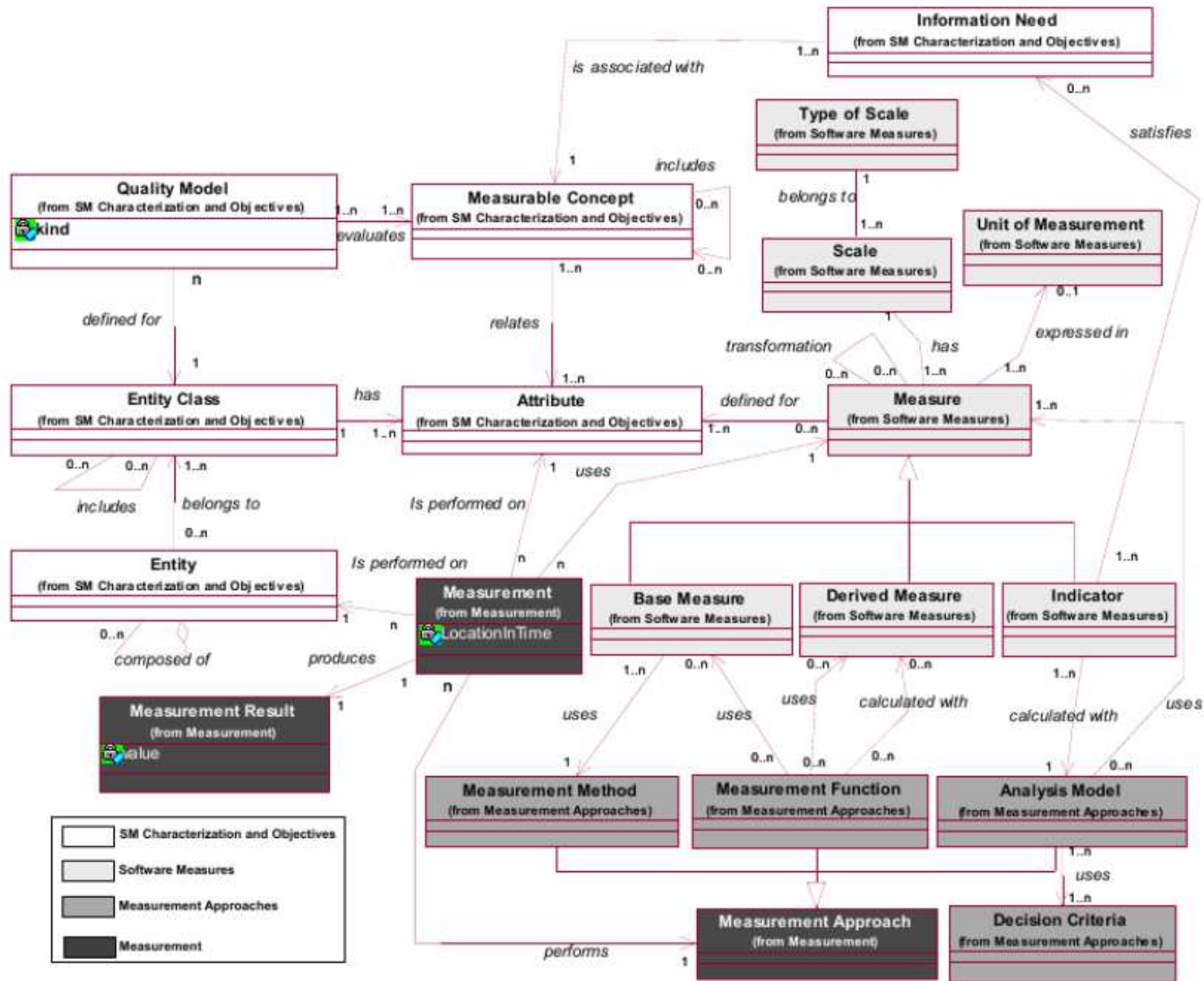
[MM-CD-Ontology-BN-1](#)

[MM-CD-Ontology-BN-2](#)

[MM-CD-Ontology-BN-3](#)

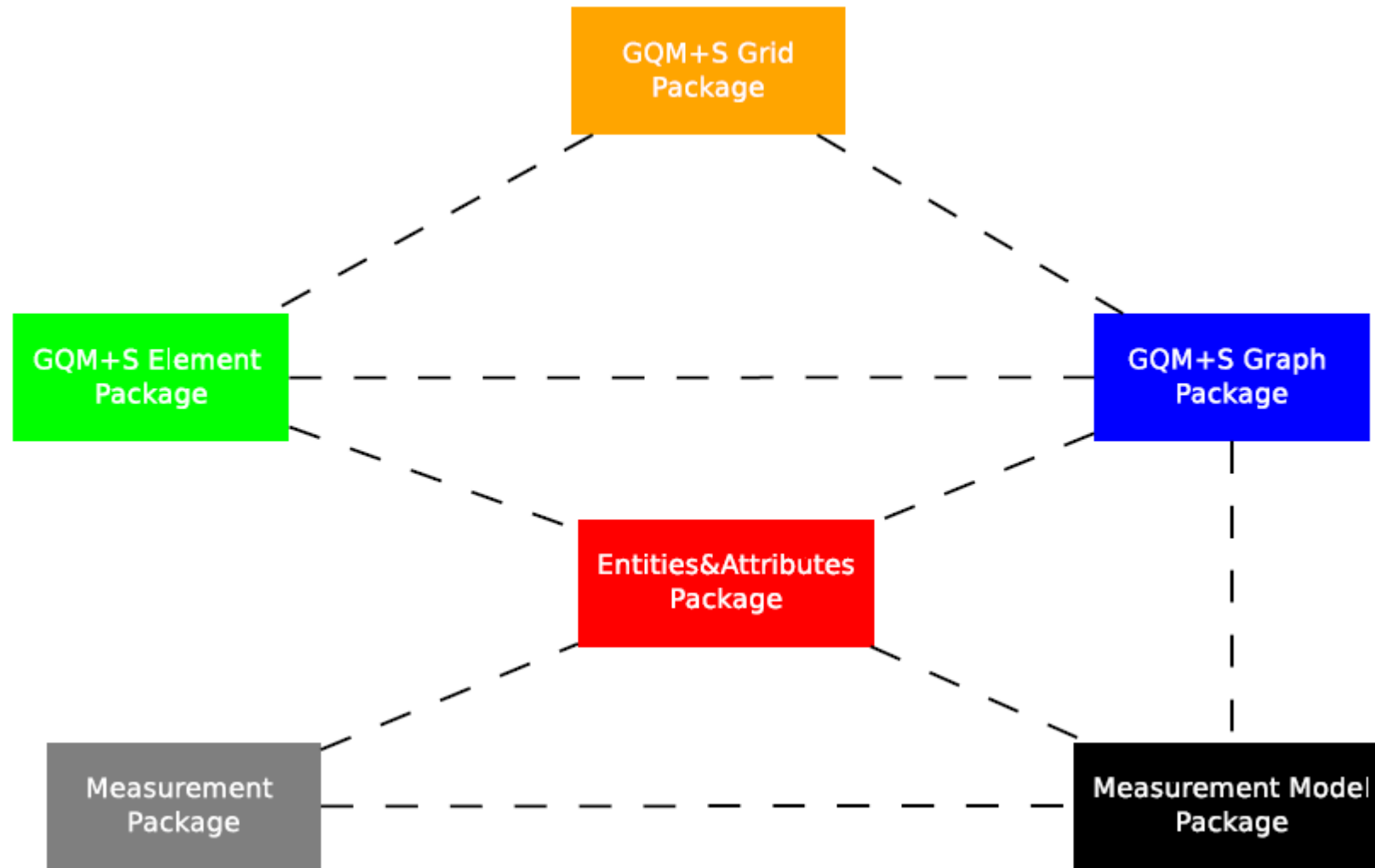
Based on Cantone-Donzelli 1996, ISERN TR
Cantone, Donzelli & Pesce, 2000, F: Angeli

SMMO (2006)

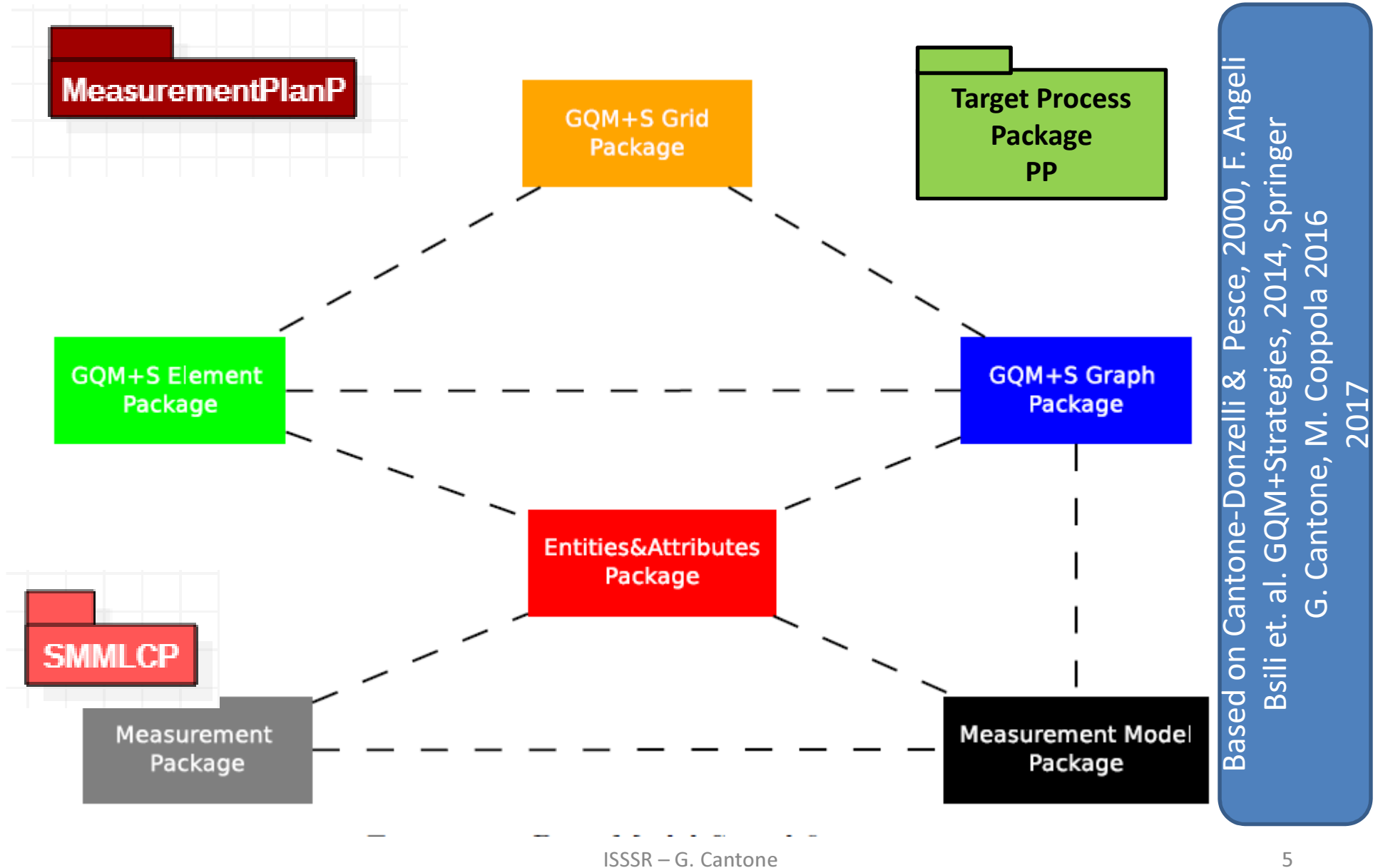


Based on Garsia, Piattini et al., 2006

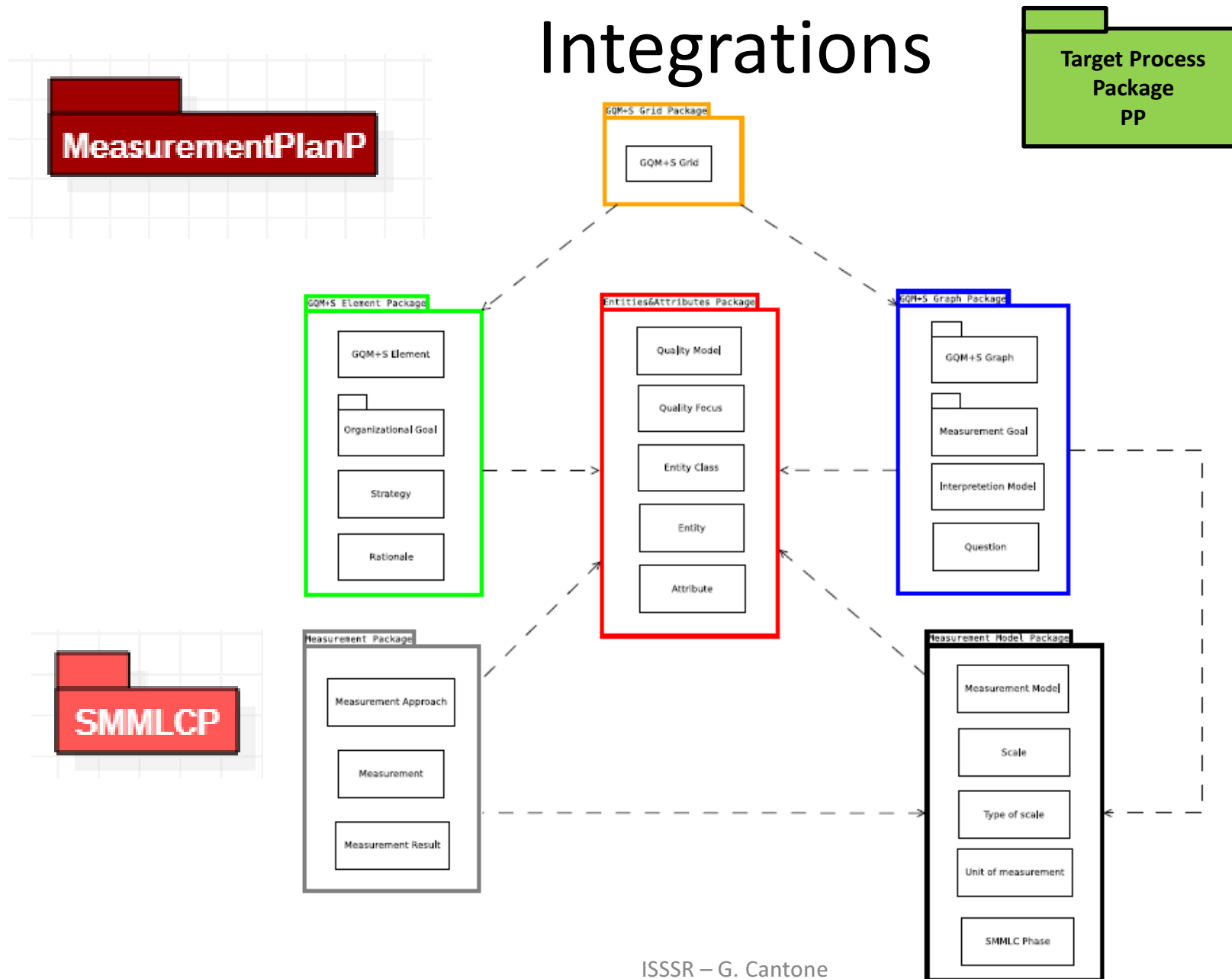
sMMO Organization: Top Level (2000 .. 2016)



sMMO Organization: Top Level (2000 .. 2016)



sMMO - Packages Diagram: Needed Integrations

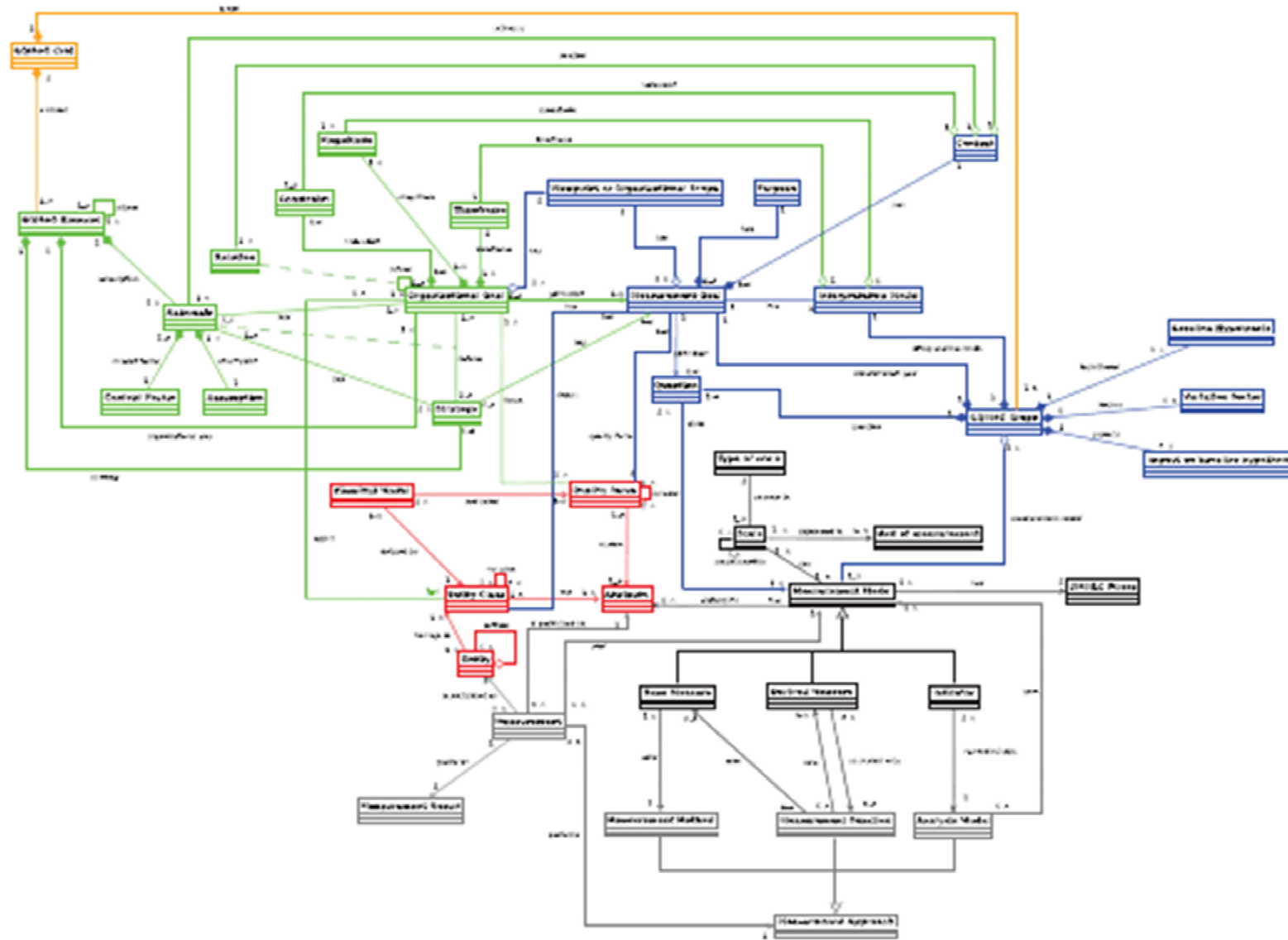


~~Target Process Package PP~~



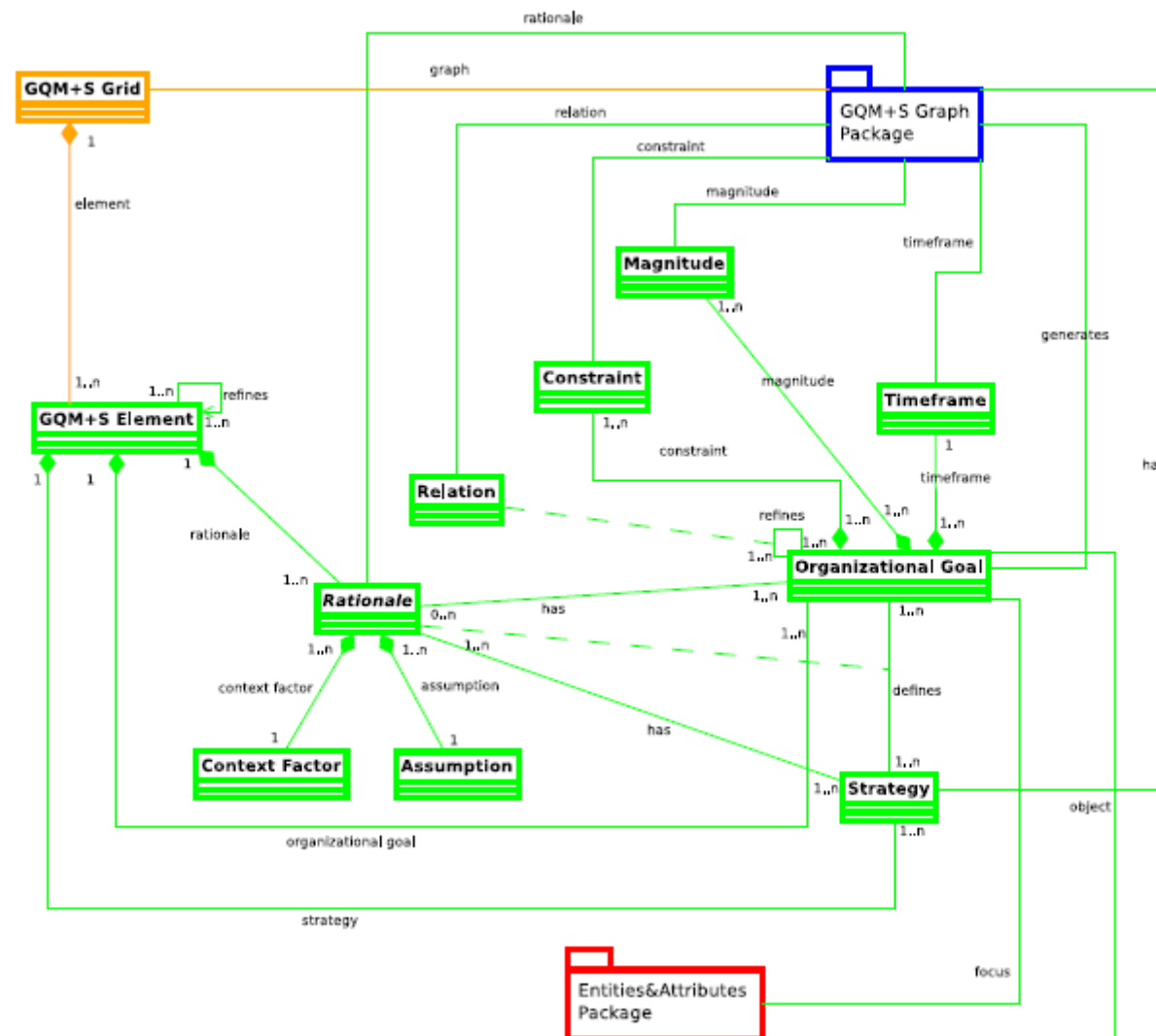
ISSSR – G. Cantone

sMMO as a Whole (2016)



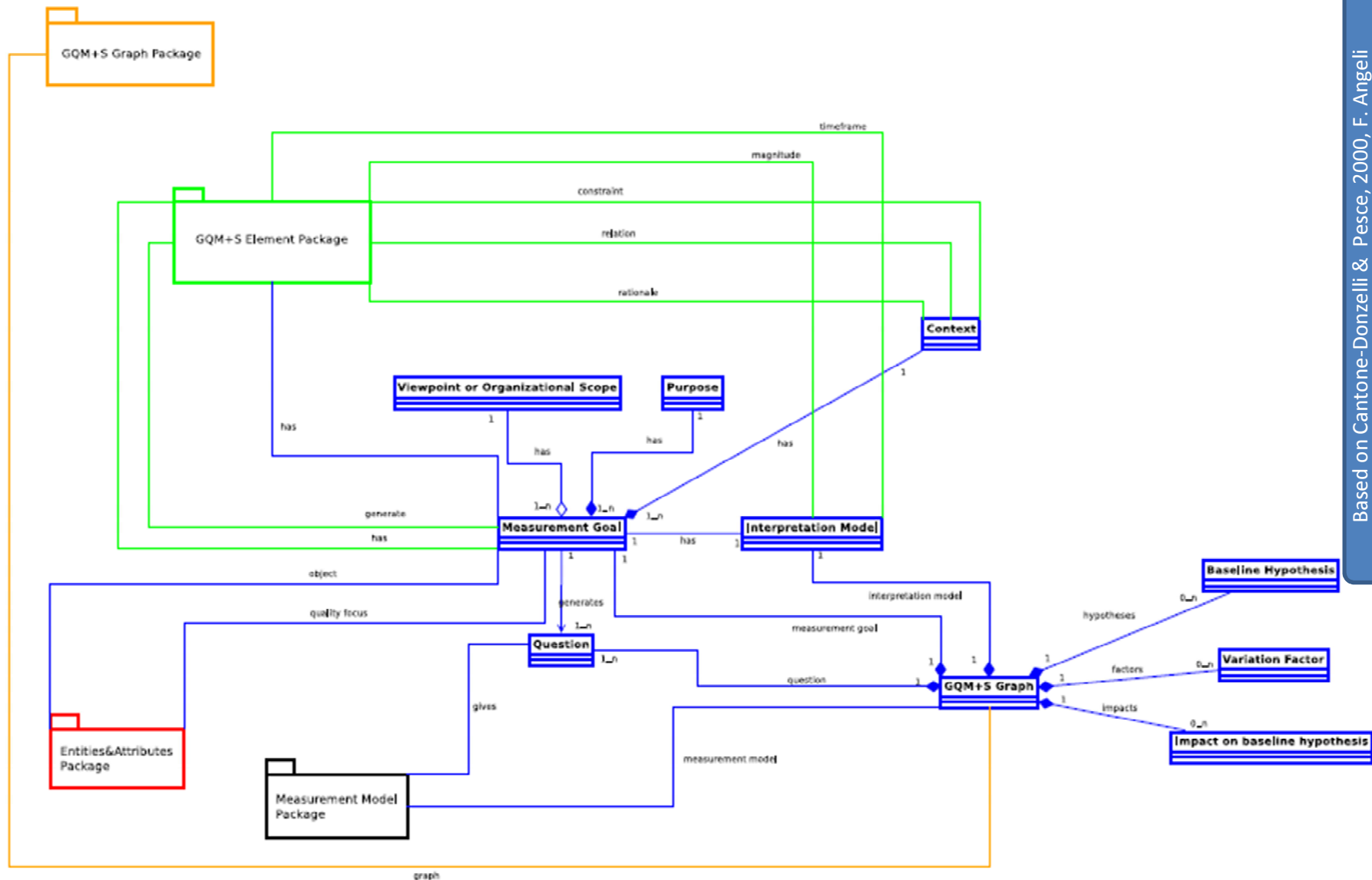
Based on Cantone-Donzelli & Pesce, 2000, F. Angeli
Bsili et. al. GQM+Strategies, 2014, Springer
G. Cantone, M. Coppola 2016

sMMO – GQM Element Pkg.



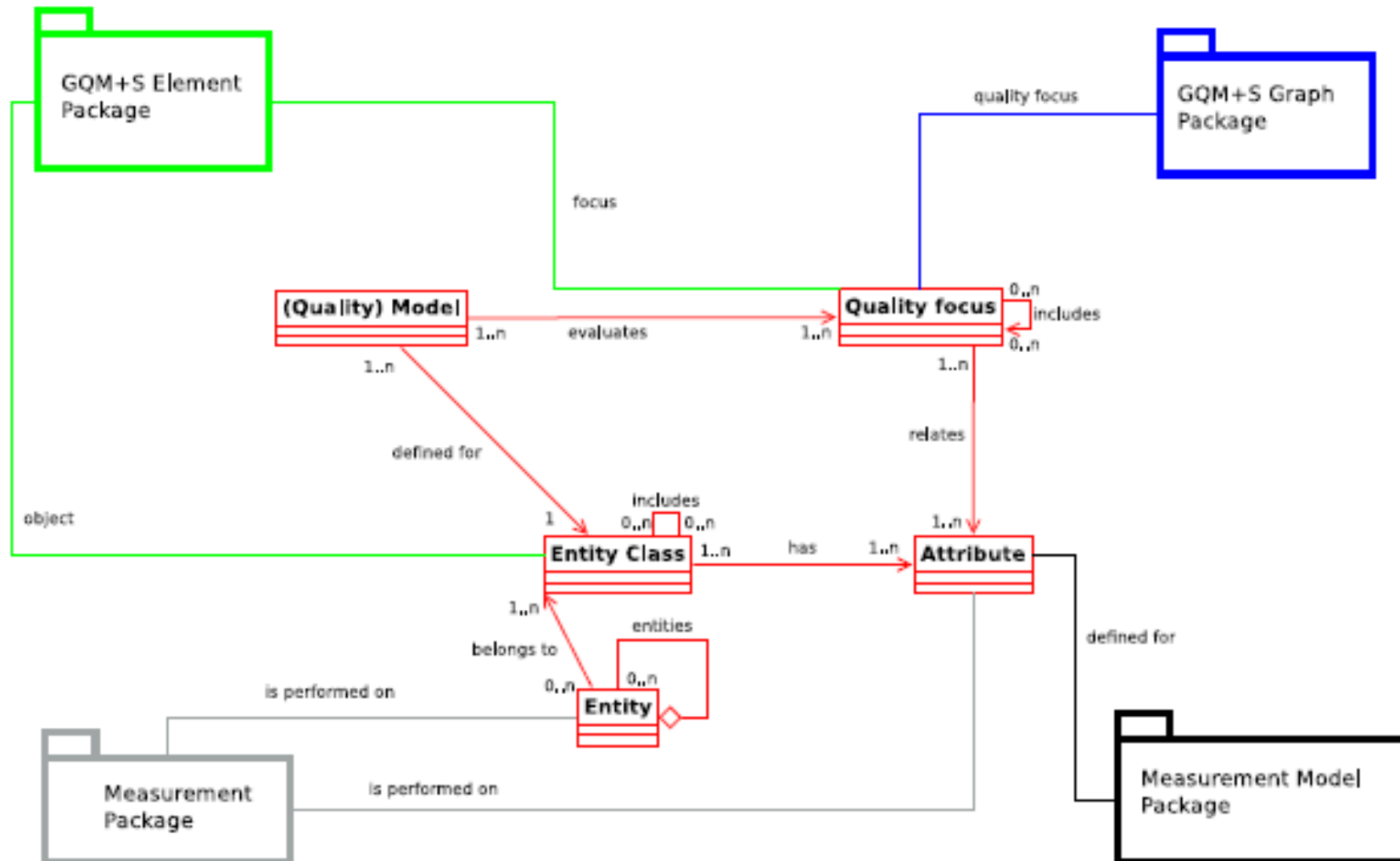
Based on Cantone-Donzelli & Pesce, 2000, F. Angeli
Bsili et. al. GQM+Strategies, 2014, Springer

sMMO – GQM Graph Pkg.



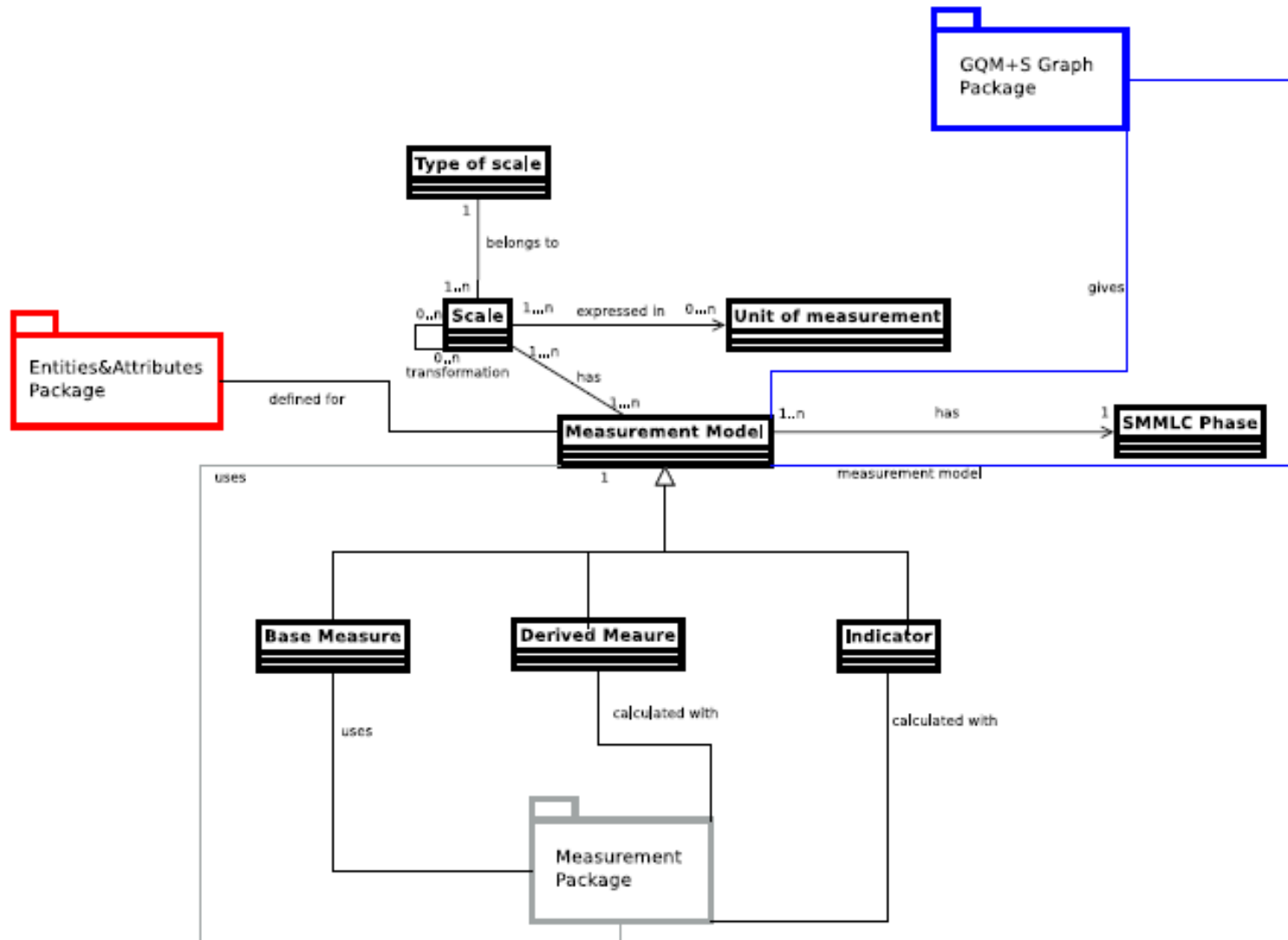
Based on Cantone-Donzelli & Pesce, 2000, F. Angeli
Bsili et. al. GQM+Strategies, 2014, Springer

sMMO – Attribute & Entity Pkg.



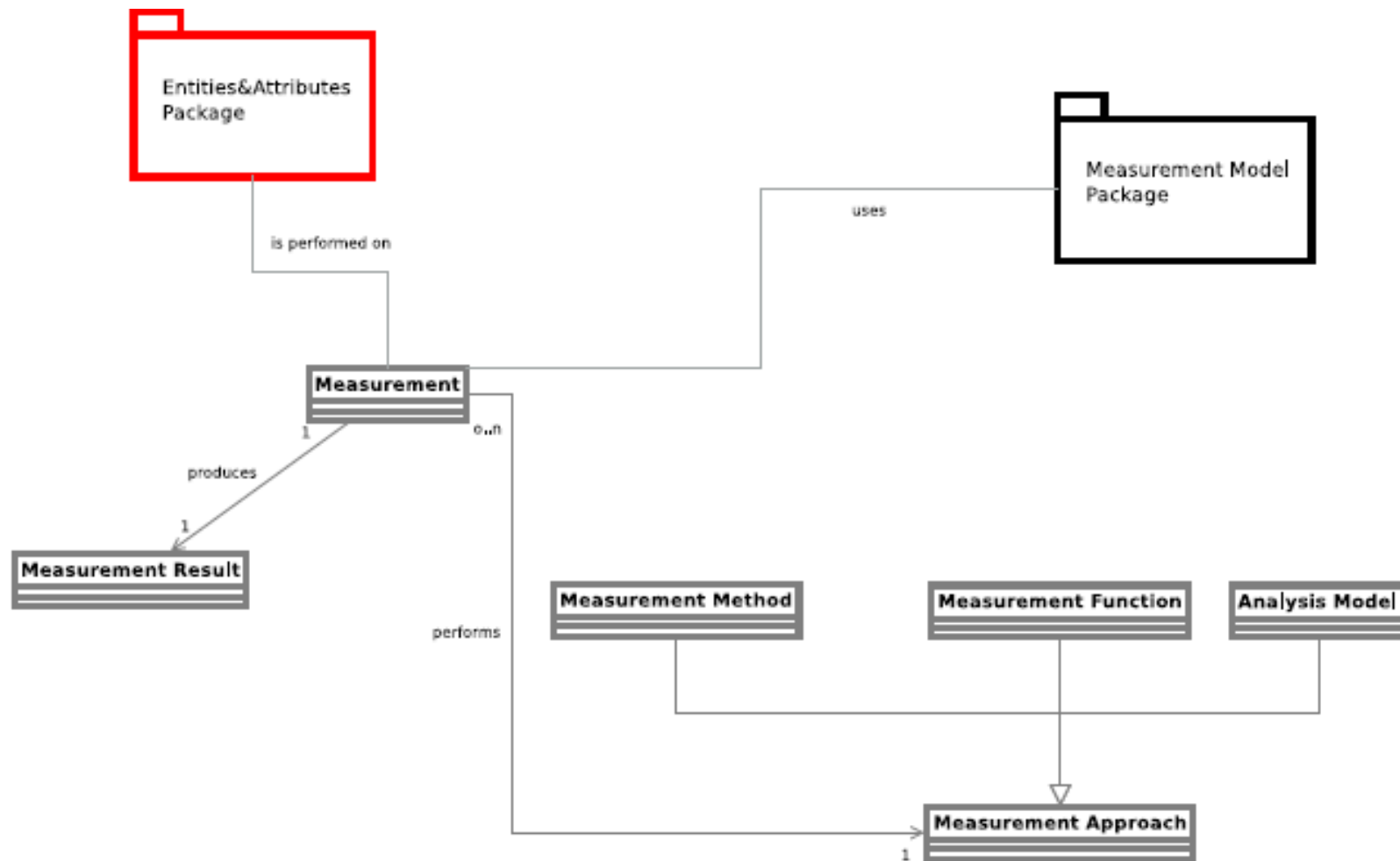
Based on Cantone-Donzelli & Pesce, 2000, F. Angeli
Bsili et. al. GQM+Strategies, 2014, Springer

sMMO – Measurement Model Pkg.



Based on Cantone-Donzelli & Pesce, 2000, F. Angeli
Bsili et. al. GQM+Strategies, 2014, Springer

sMMO – Measurement Pkg.



Based on Cantone-Donzelli & Pesce, 2000, F. Angeli
Bsili et. al. GQM+Strategies, 2014, Springer

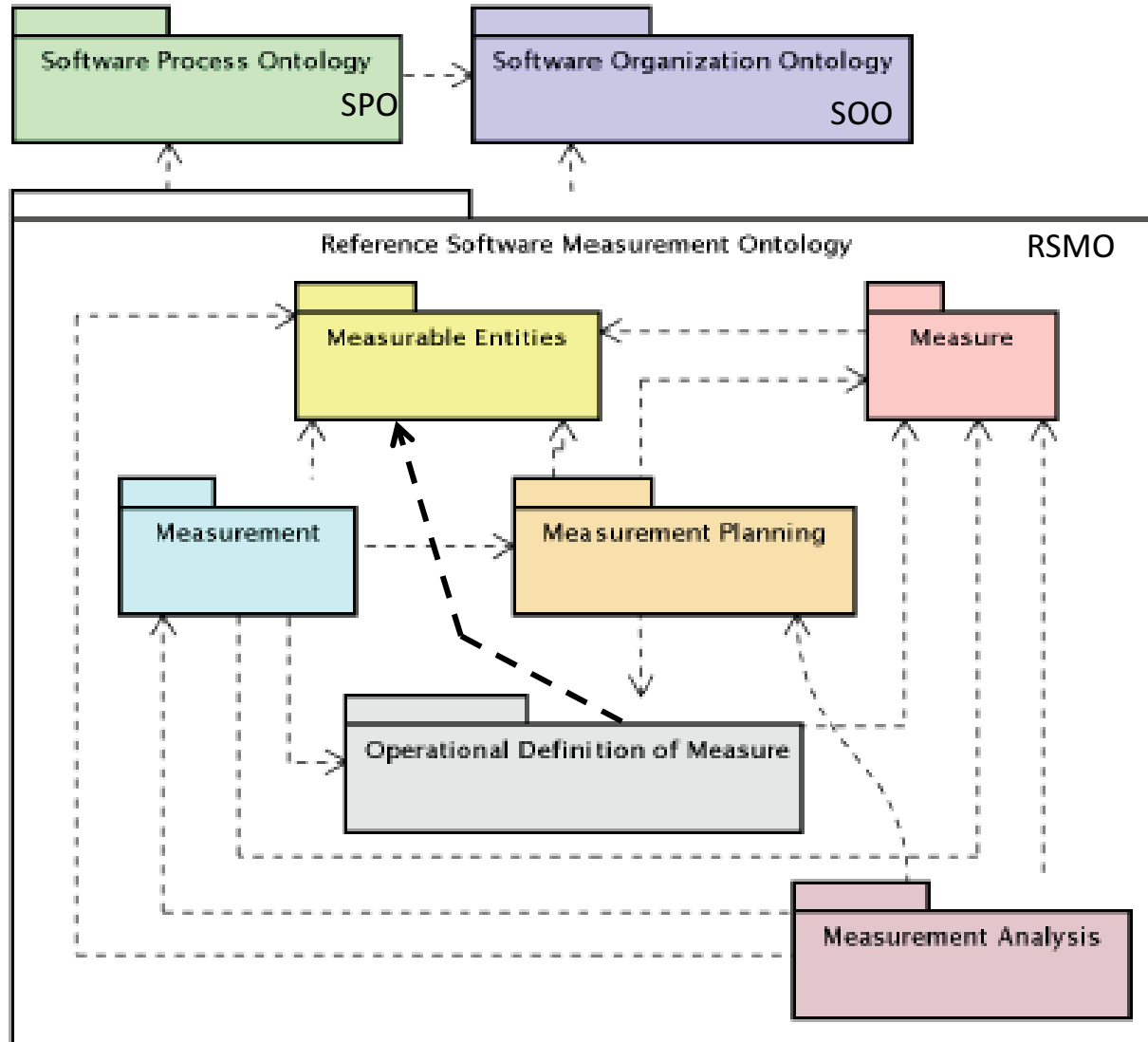
A Reference Software Ontology

as defined by

Monnalessa Perini Barcellos et al., 2010 et successive years,
Brazil.

Subontologies and Integrated Ontologies

RSO Subontologies & Integrated Ontologies (Last update 2015)

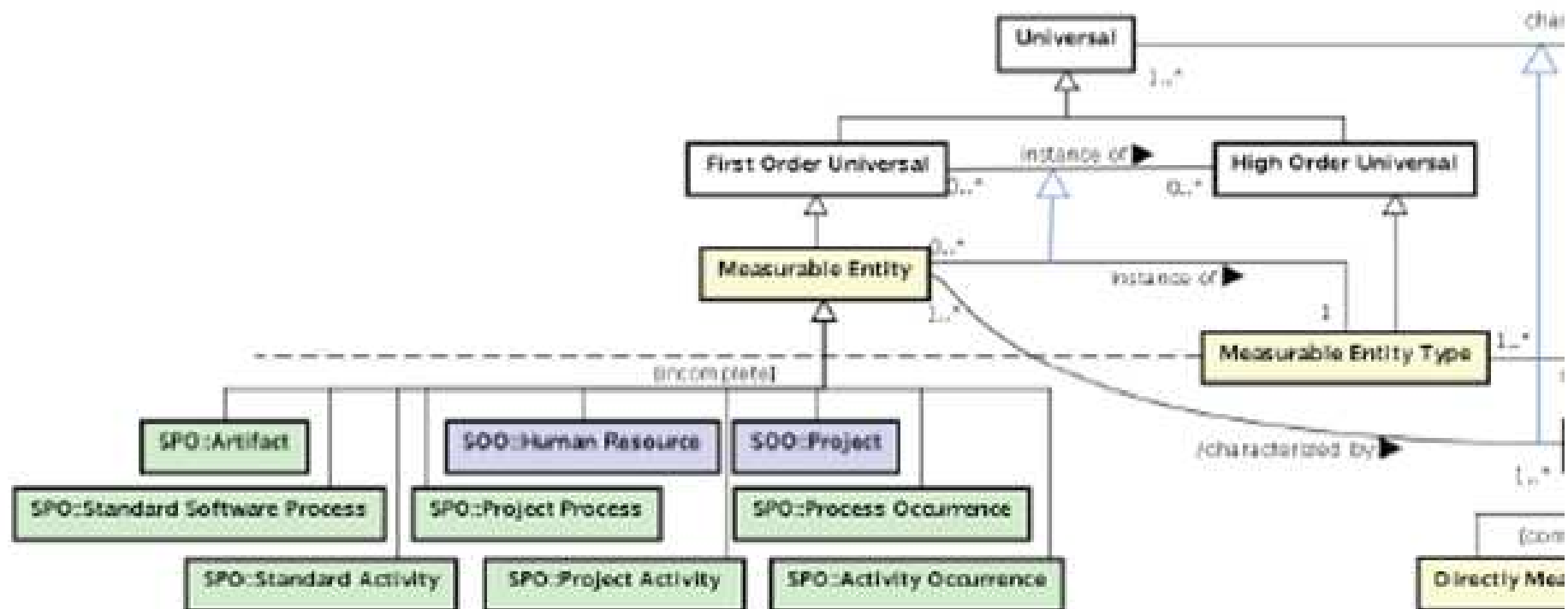


Programming Languages Theory

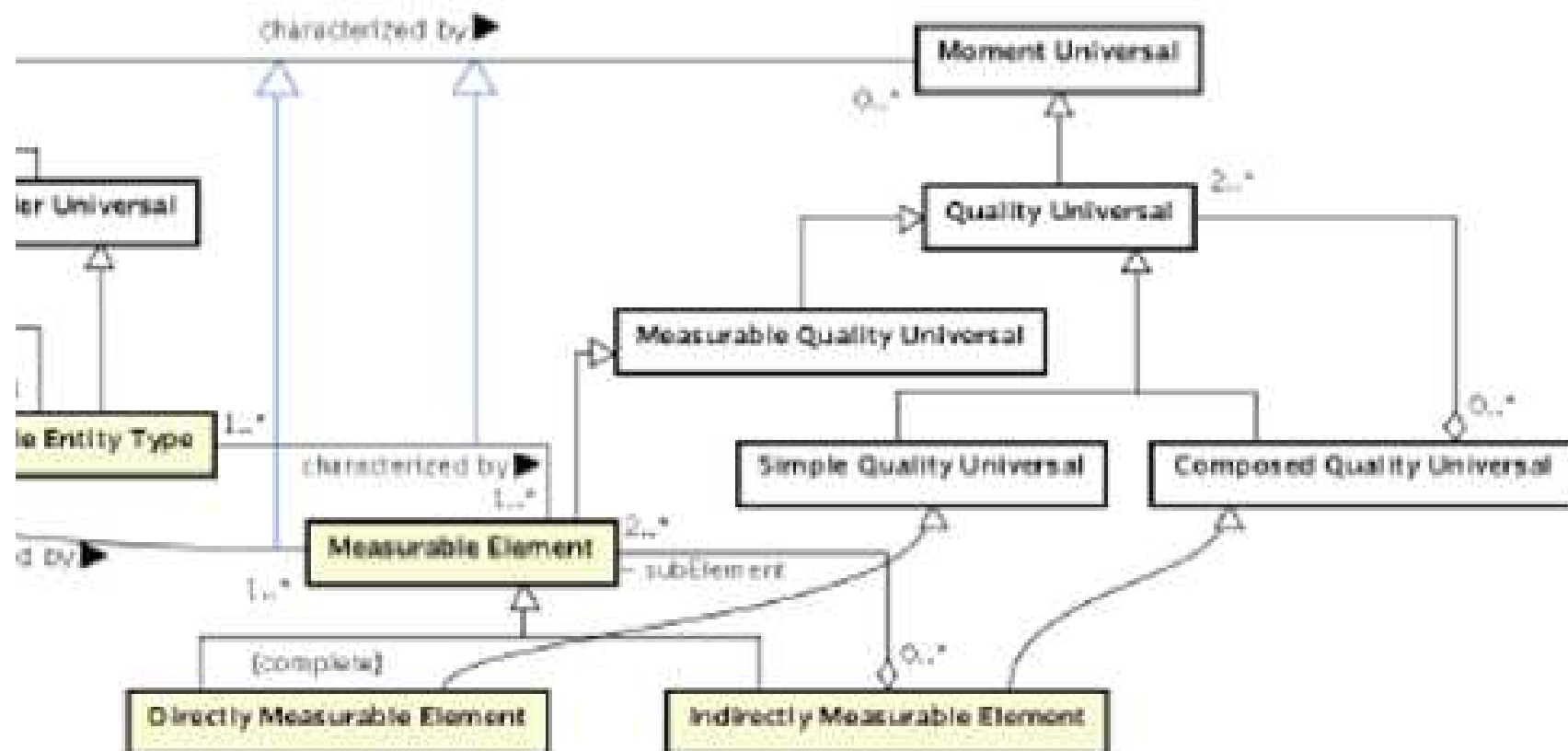
<https://books.google.it/books?id=TDvyBwAAQBAJ&pg=PA703&lpg=PA703&dq=mediation+uml+stereotype&source=bl&ots=Ba40kdNRe7&sig=ZTR0PAXU0PZNm7o6FJpOPxLagw&hl=it&sa=X&ved=0ahUKewjFn4ac2KnUAhXD2BoKHcv-AsUQ6AEIMDAC#v=onepage&q=mediation%20uml%20stereotype&f=false>



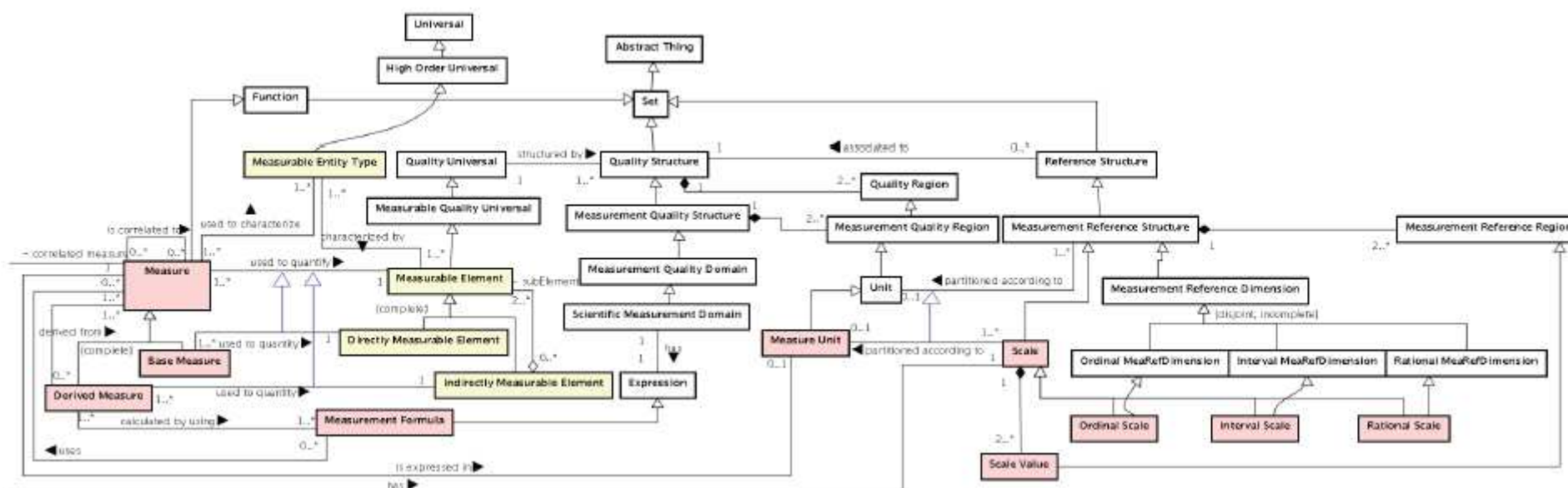
Measurable Entity Subontology

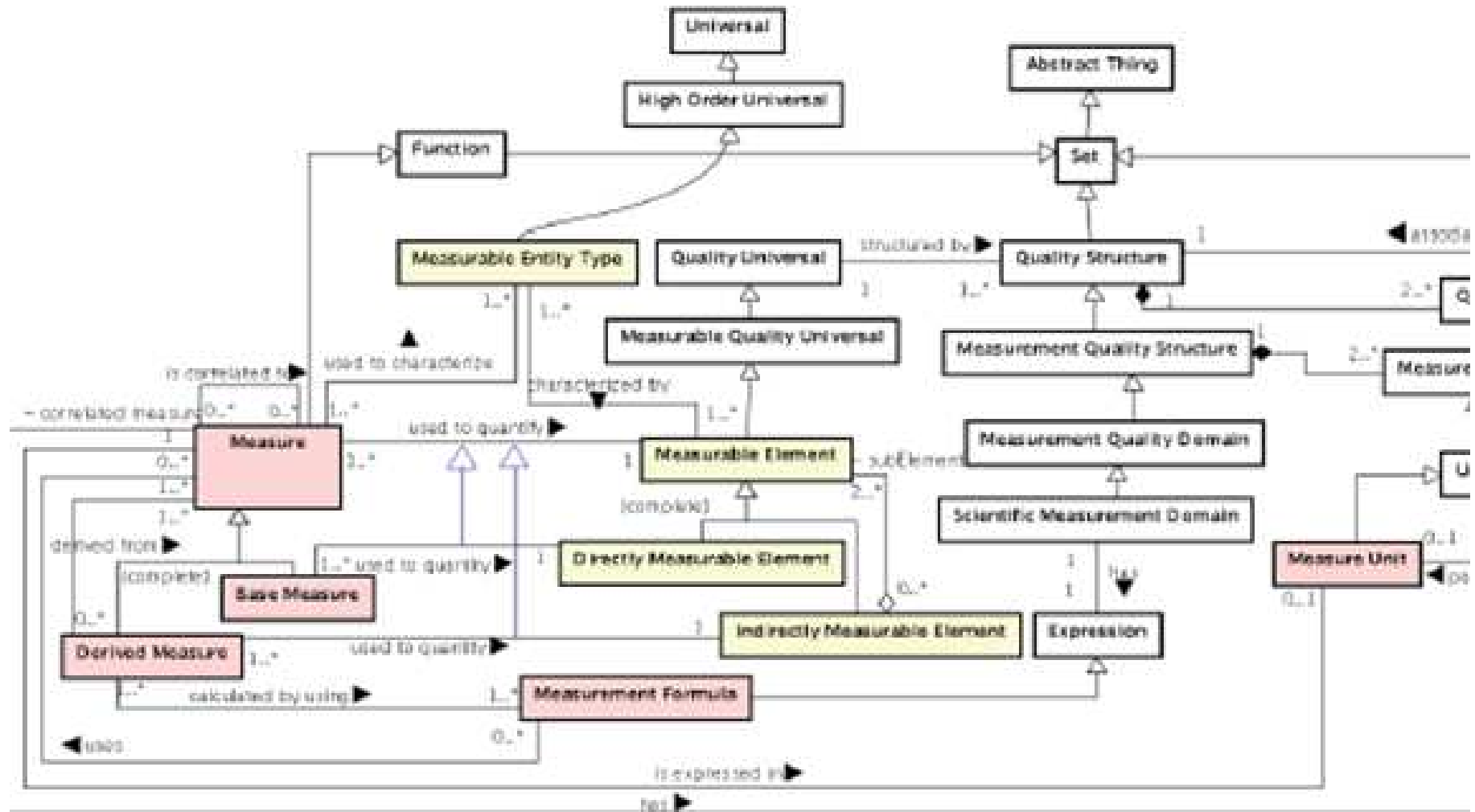


Measurable Entity Subontology

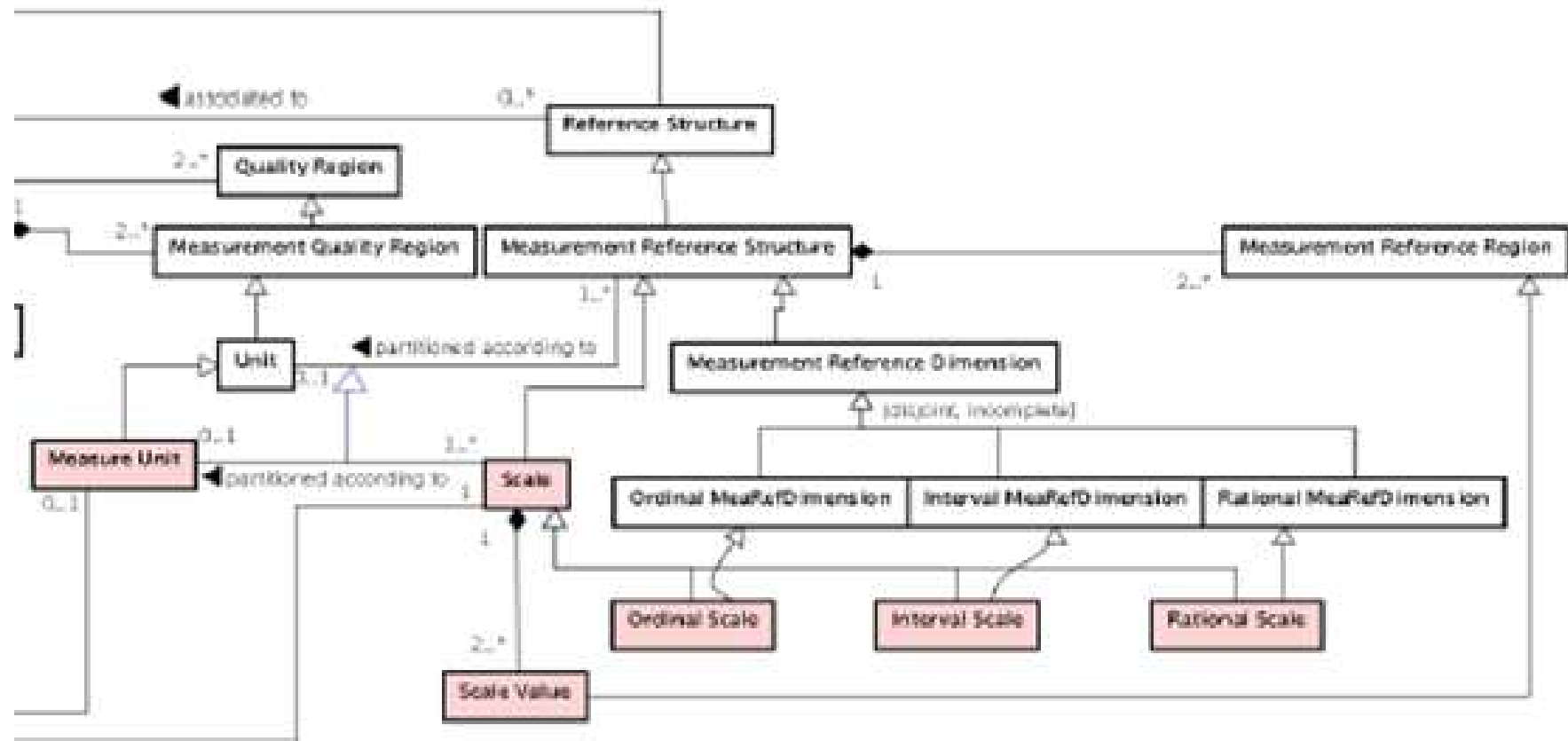


Measure Subontology

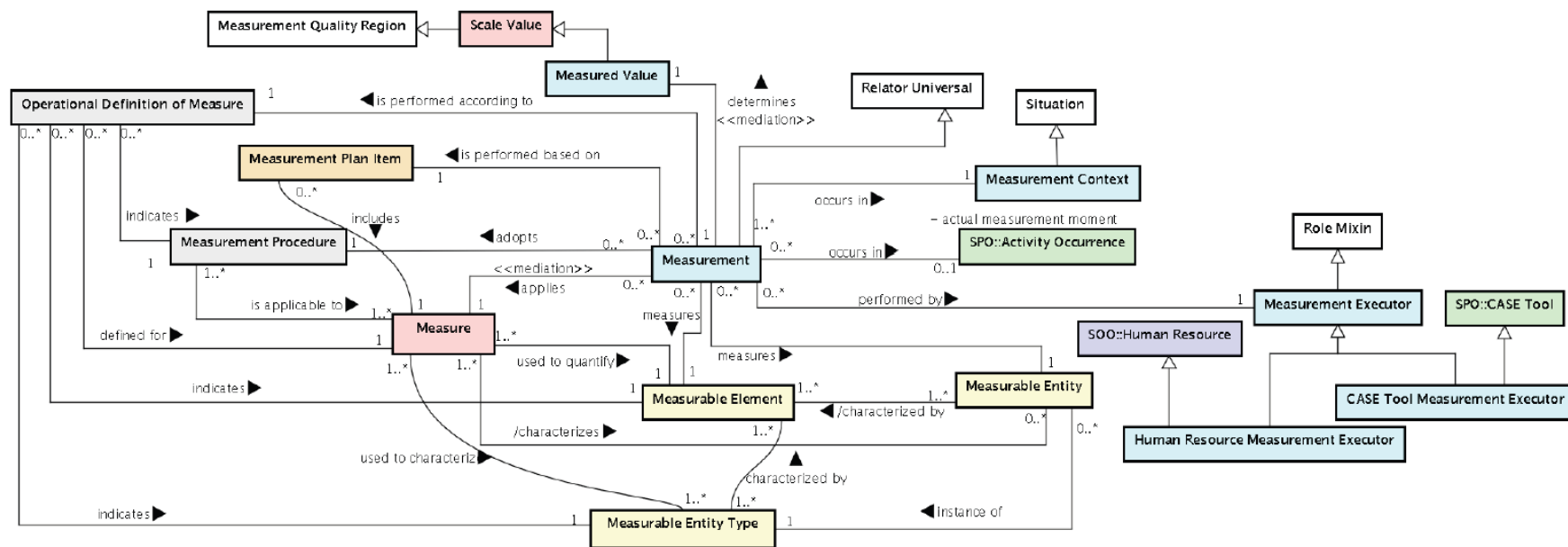




Measure Subontology

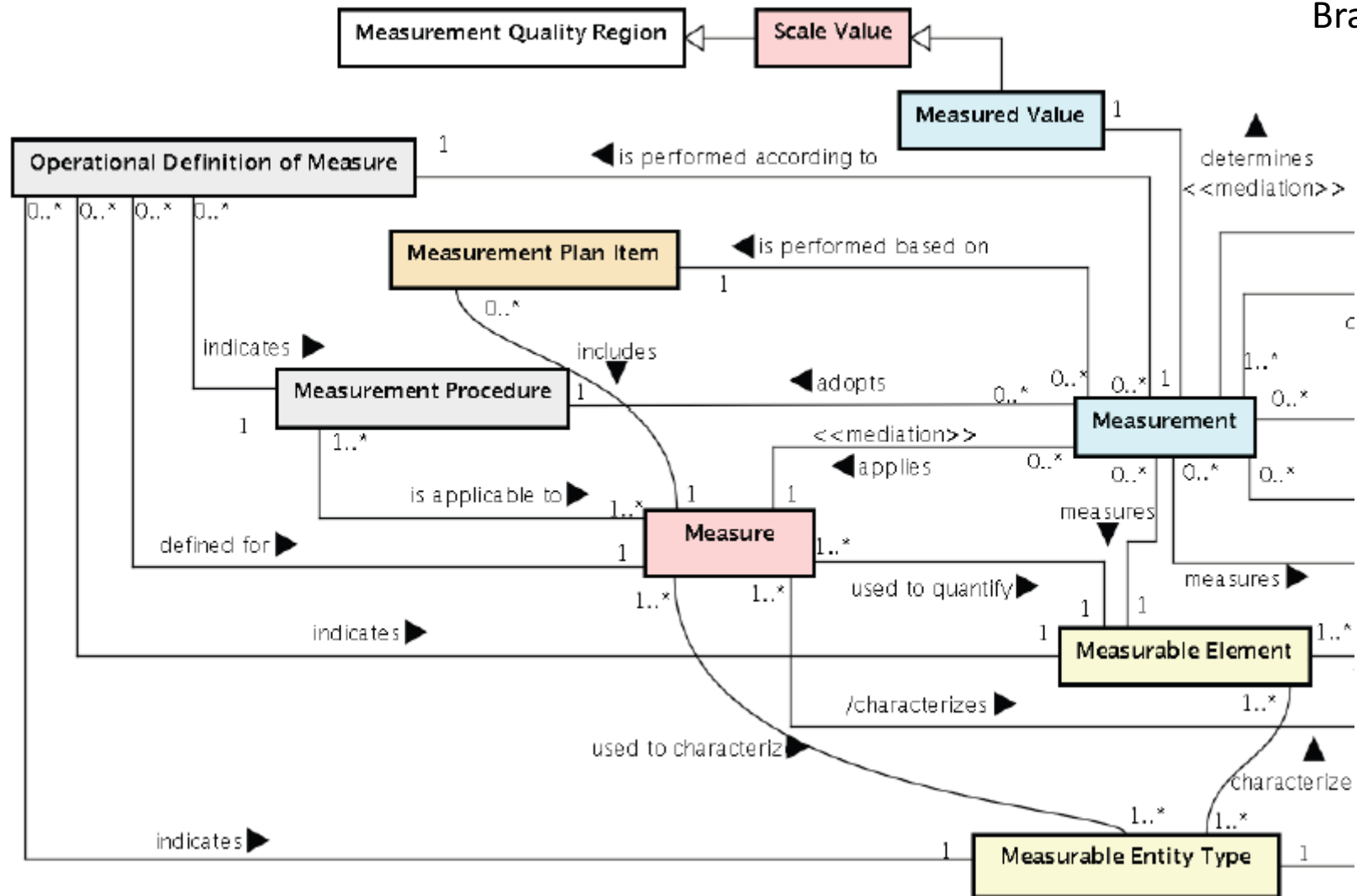


Measurement Subontology

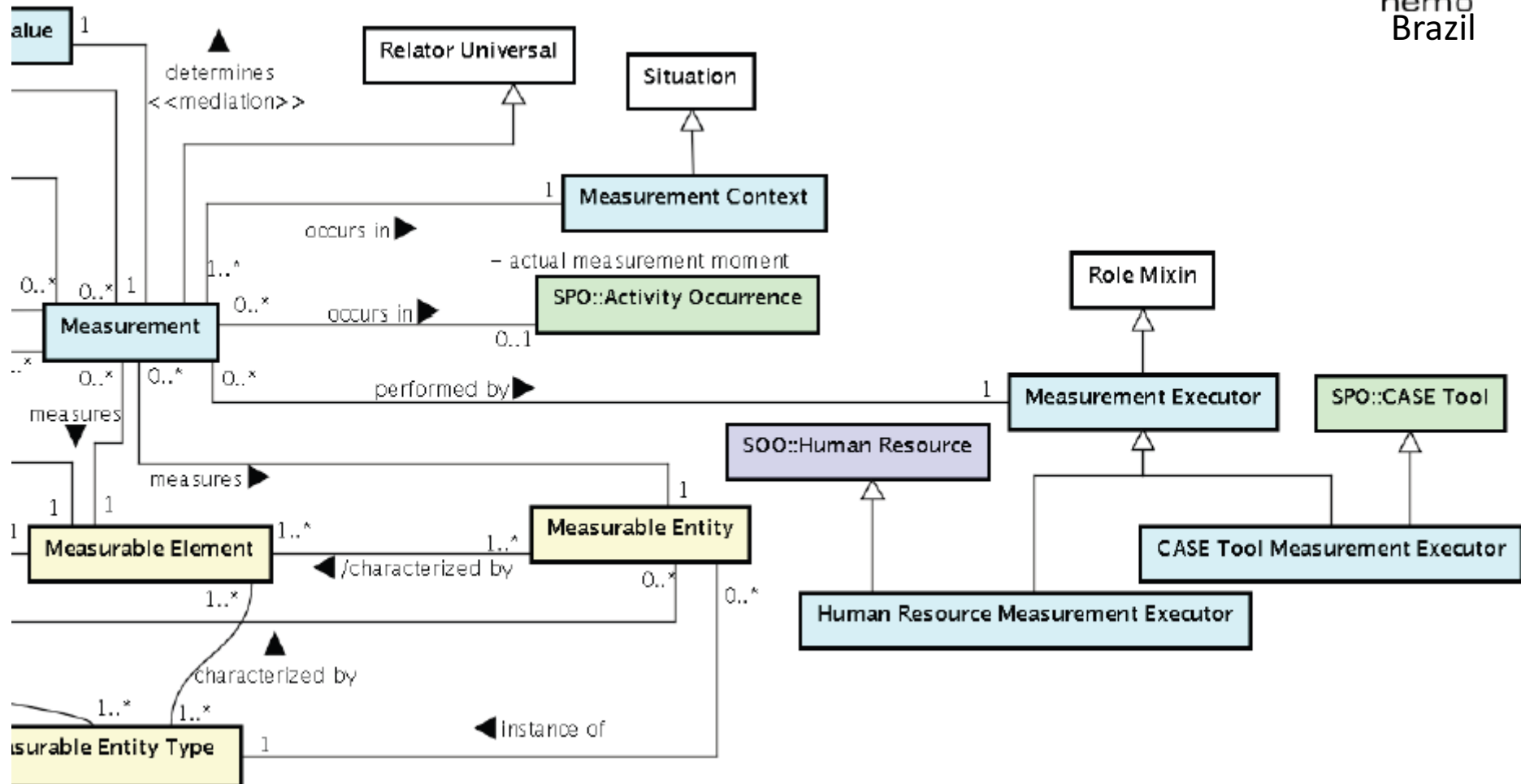




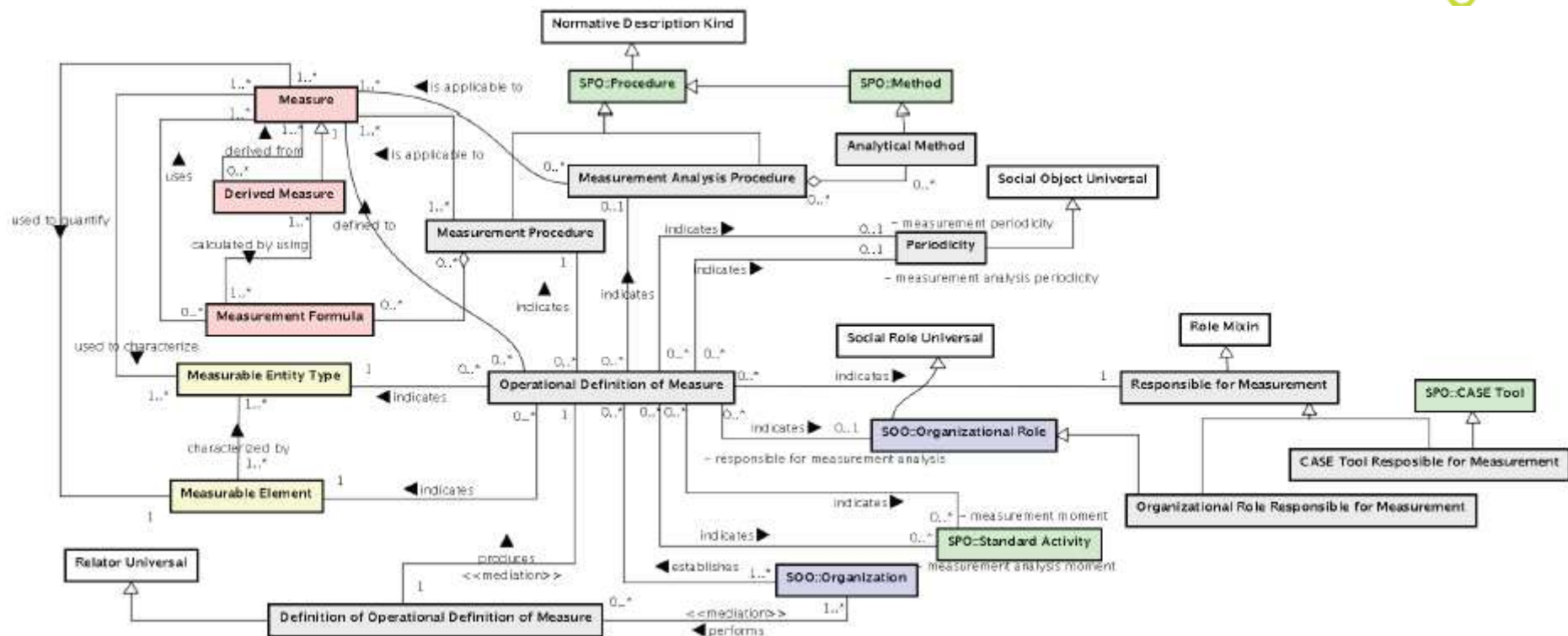
Measurement Subontology



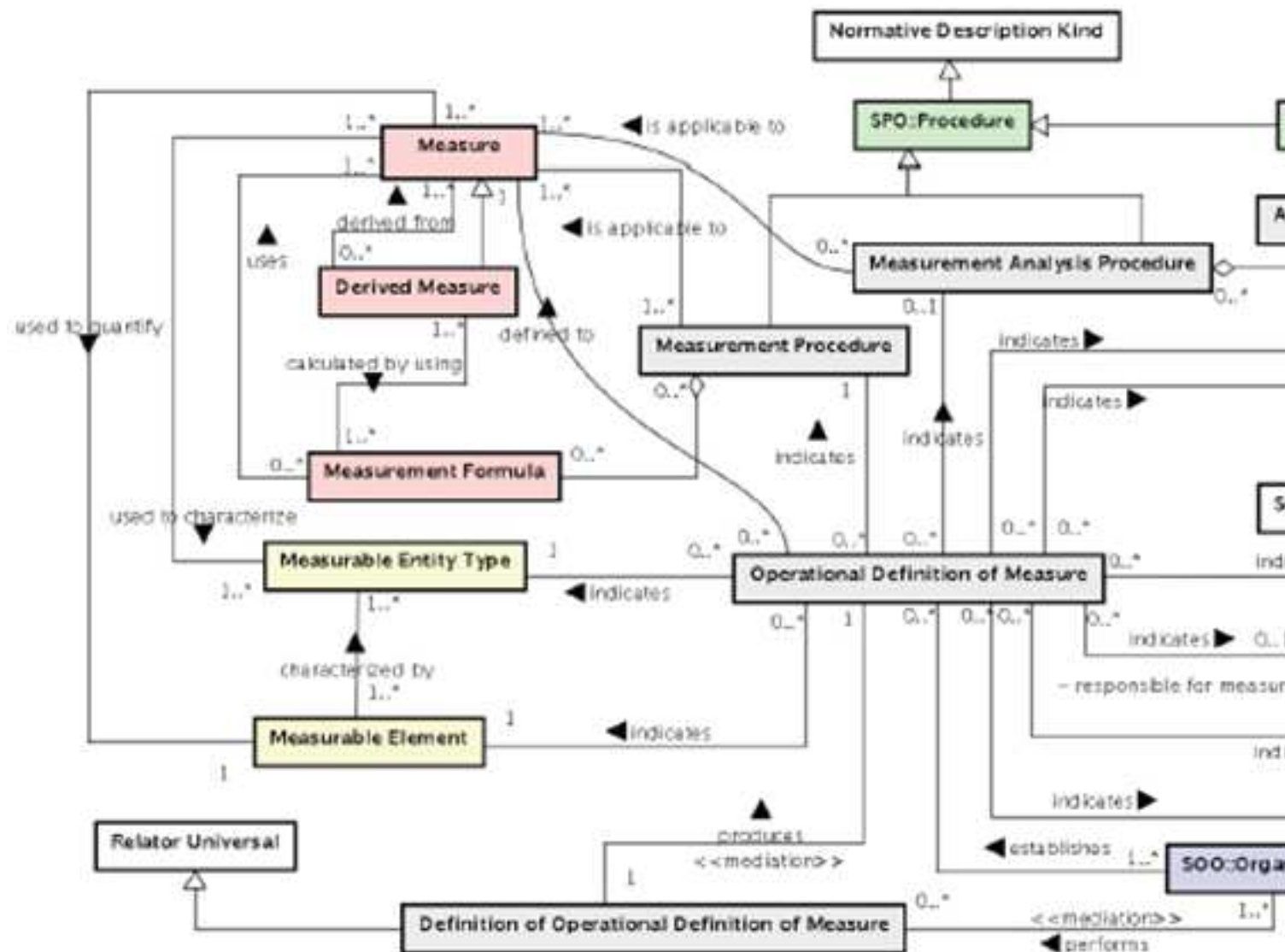
Measurement Subontology



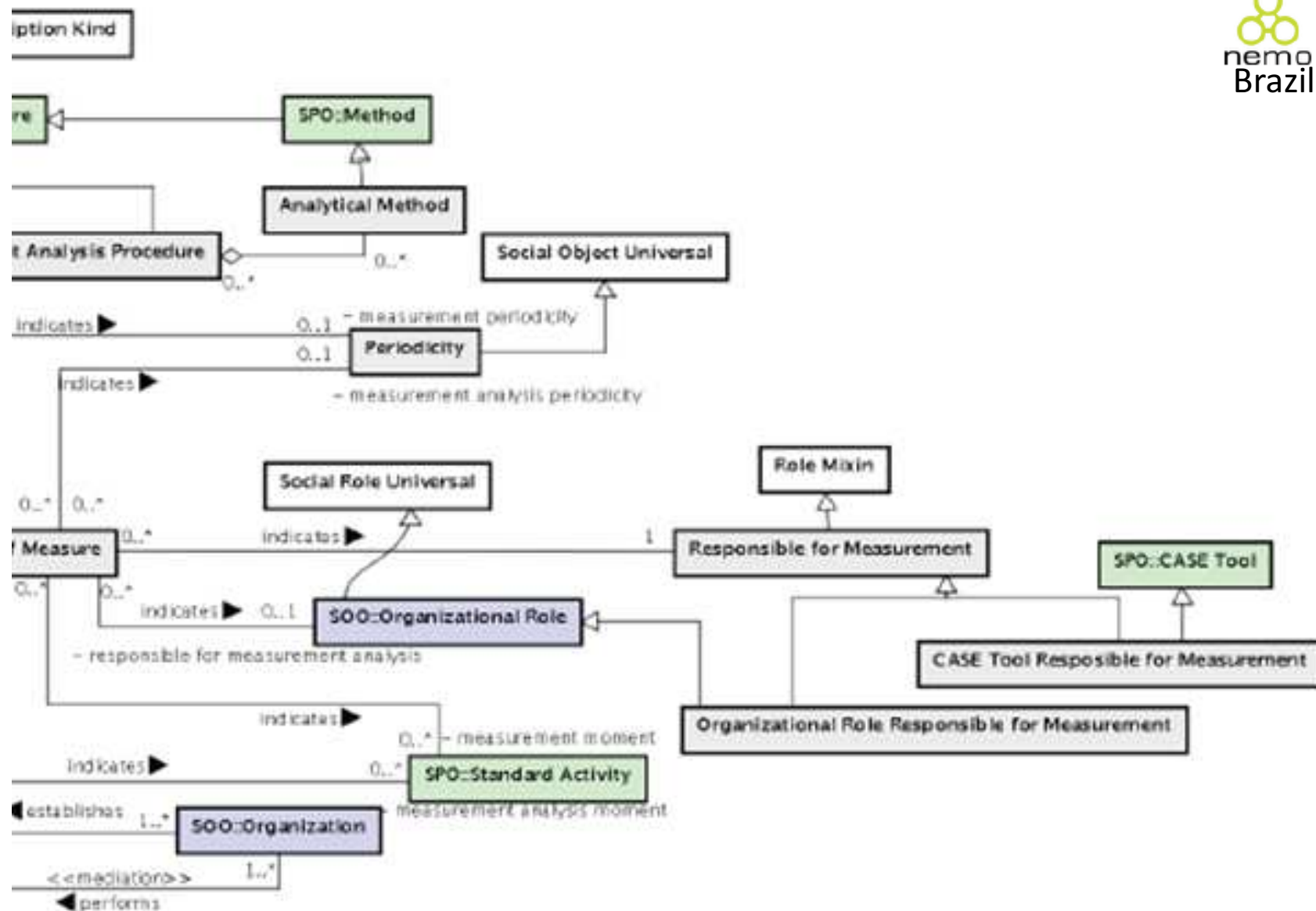
Operational Definition of Measure Subontology



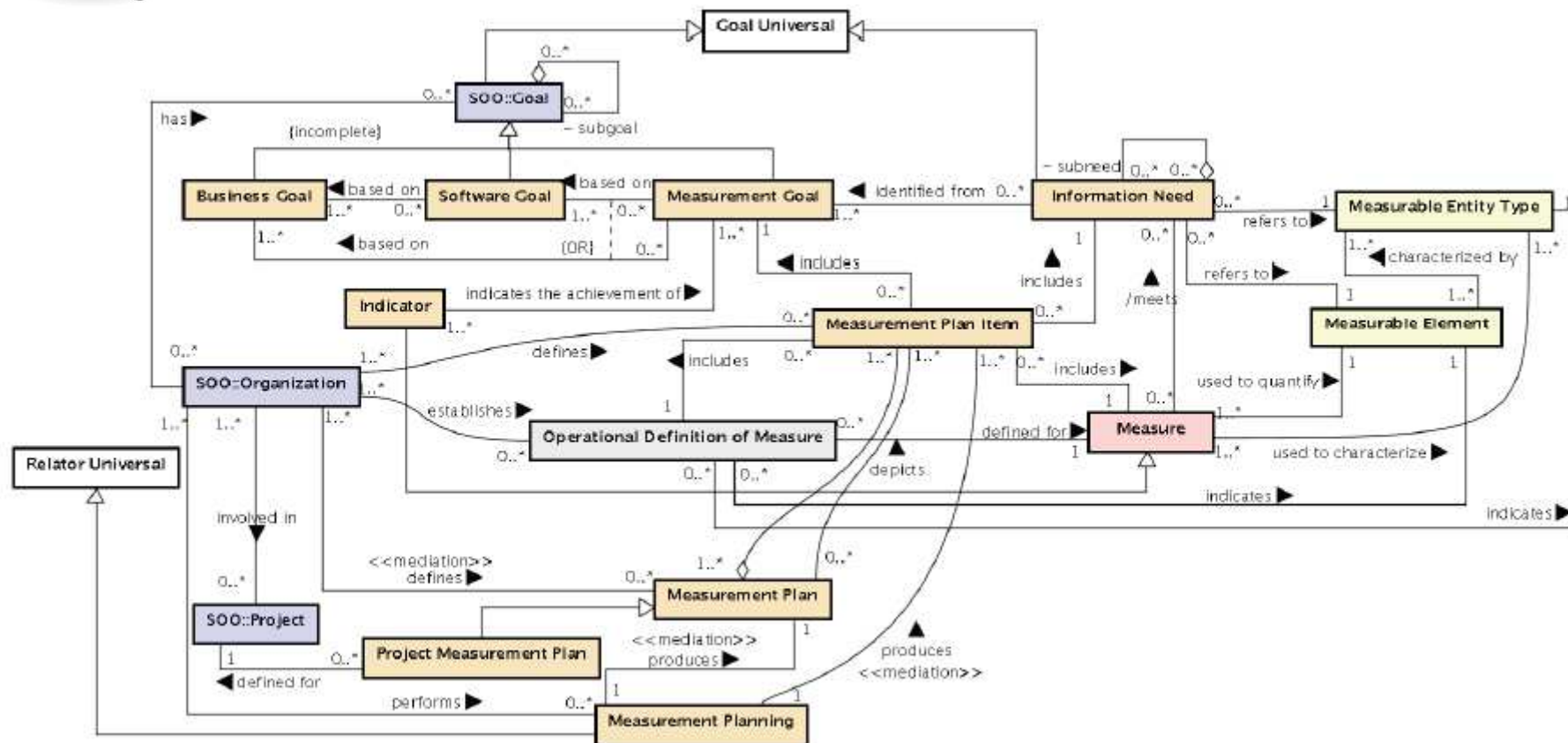
Operational Definition of Measure Subontology



Operational Definition of Measure Subontology



Measurement Planning Subontology

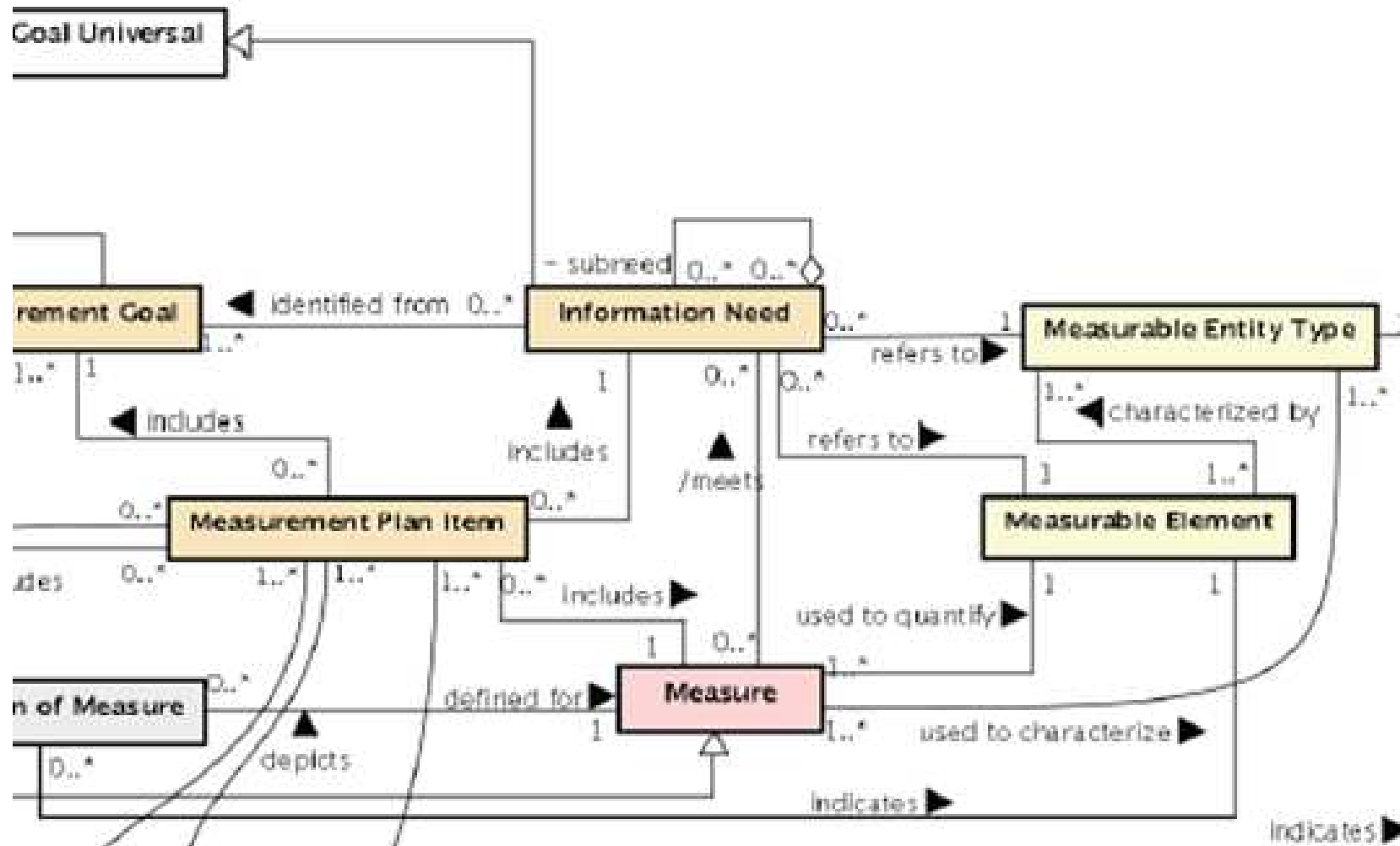




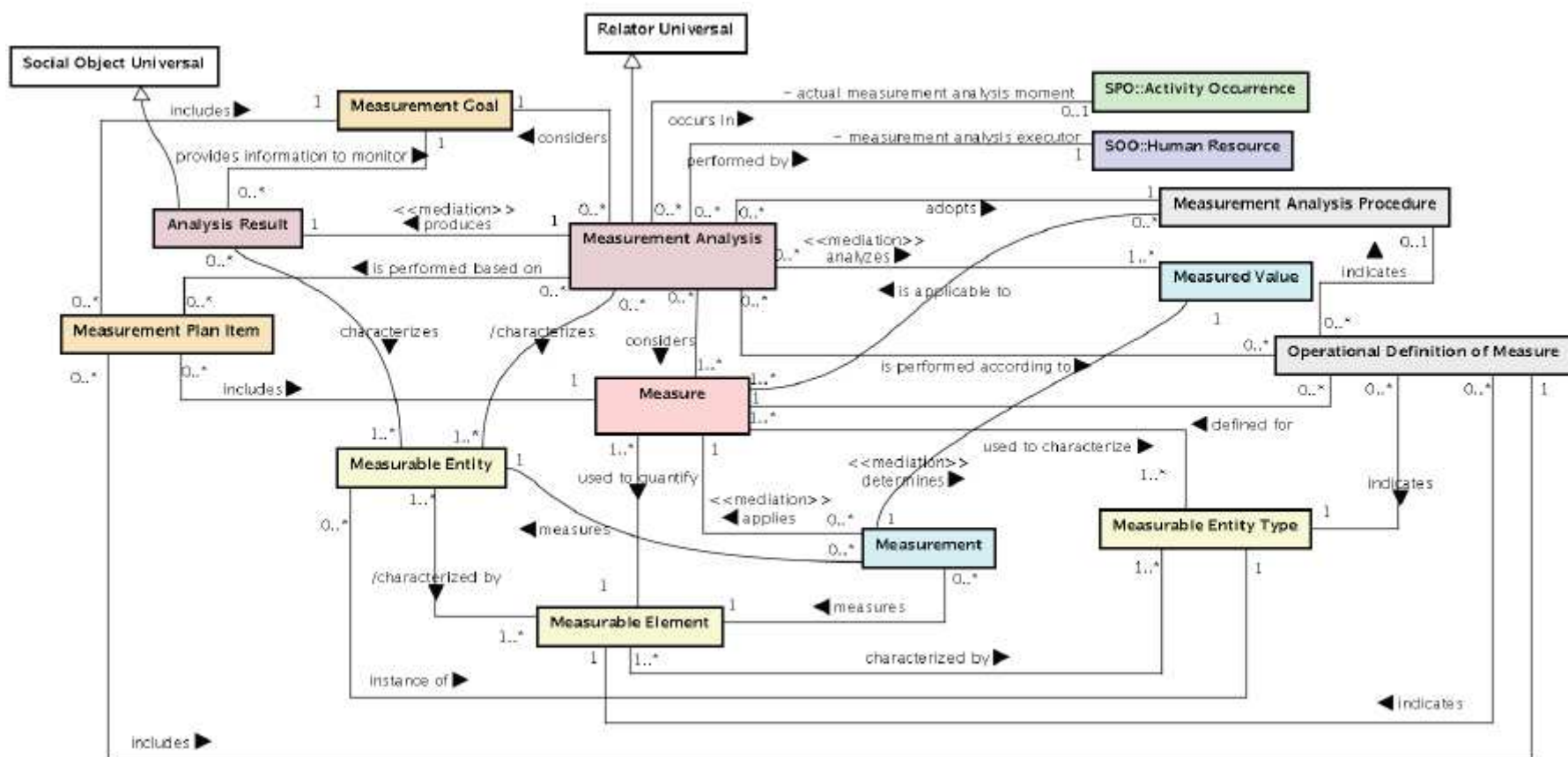
nemo
Brazil



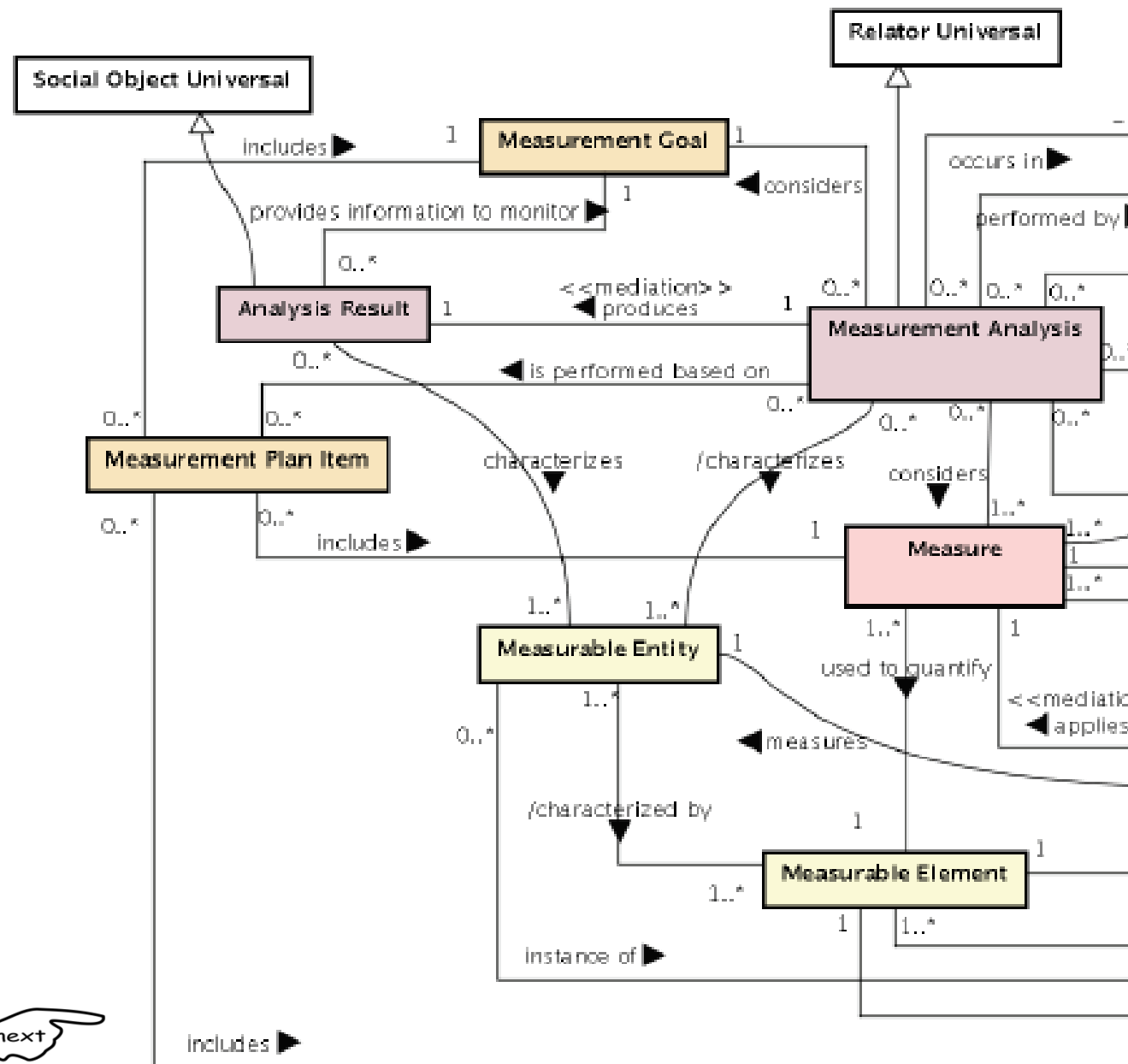
Measurement Planning Subontology



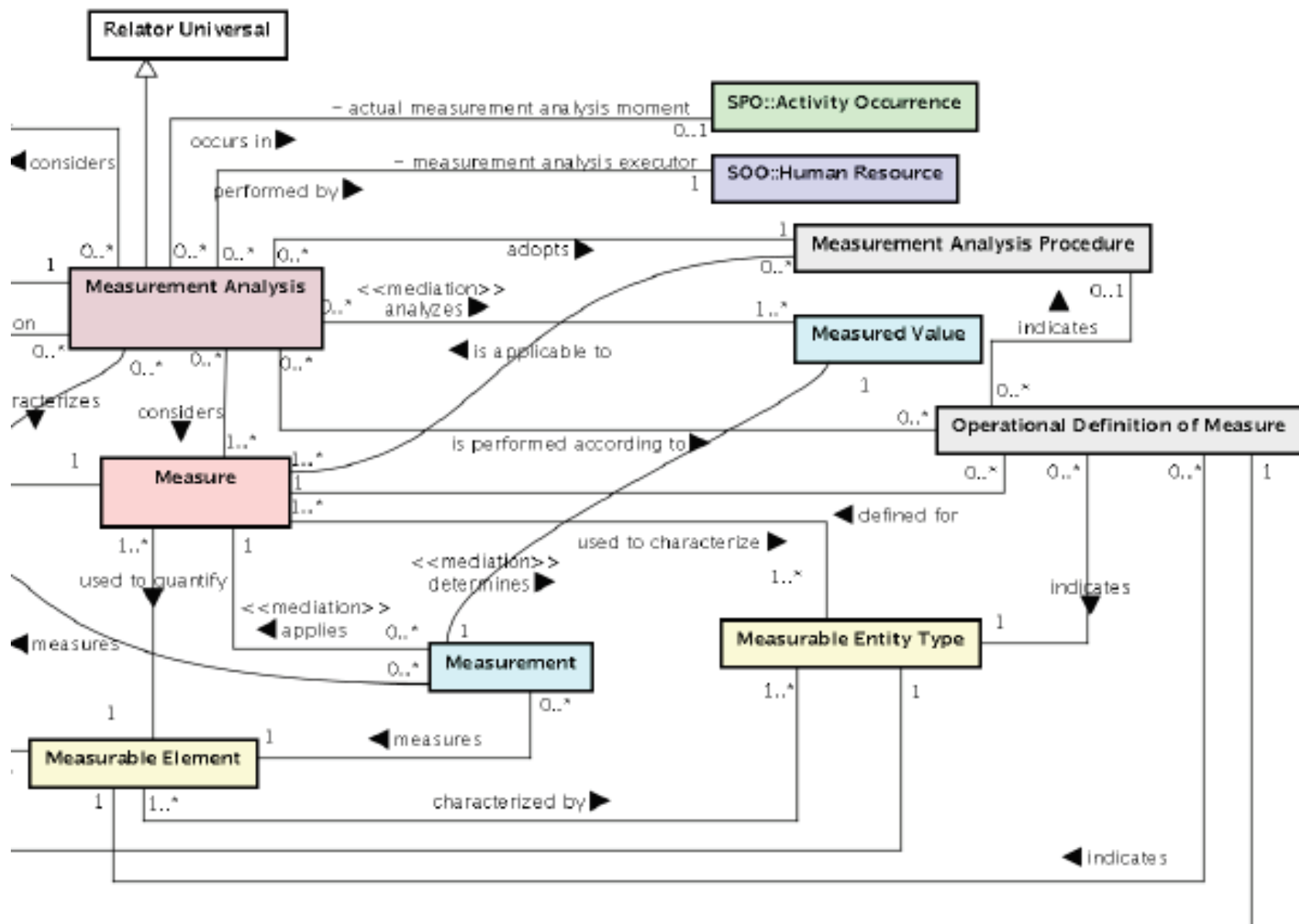
Measurement Analysis Subontology



Measurement Analysis Subontology



Measurement Analysis Subontology



A Reference

Book

Model Driven Engineering Languages and Systems: 8th International Conference ...

a cura di Lionel Briand, Clay Williams, 2005

<https://books.google.it/books?id=TDvyBwAAQBAJ&pg=PA703&lpg=PA703&dq=mediation+uml+stereotype&source=bl&ots=Ba40kdNRe7&sig=ZTR0PAXU0PZNM7o6FjJpOPxLagw&hl=it&sa=X&ved=0ahUKEwjFn4ac2KnUAhXD2BoKHcv-AsUQ6AEIMDAC#v=onepage&q=mediation%20uml%20stereotype&f=false>

Including Chapter

G. Guzzardy et al. An Ontology-Based Approach for Evaluating Modeling Languages, 2005

<https://books.google.it/books?id=TDvyBwAAQBAJ&pg=PA703&lpg=PA703&dq=mediation+uml+stereotype&source=bl&ots=Ba40kdNRe7&sig=ZTR0PAXU0PZNM7o6FjJpOPxLagw&hl=it&sa=X&ved=0ahUKEwjFn4ac2KnUAhXD2BoKHcv-AsUQ6AEIMDAC#v=onepage&q=mediation%20uml%20stereotype&f=false>