

Amsterdam University of Applied Sciences

How interoperable is our semantic model and for who?

van Ulzen, N.; de Jong, A.; Kanis, M.; Roos, M.; Kaliyaperumal, R.; Quaralt-Rosinach, N.; Cornet, R.

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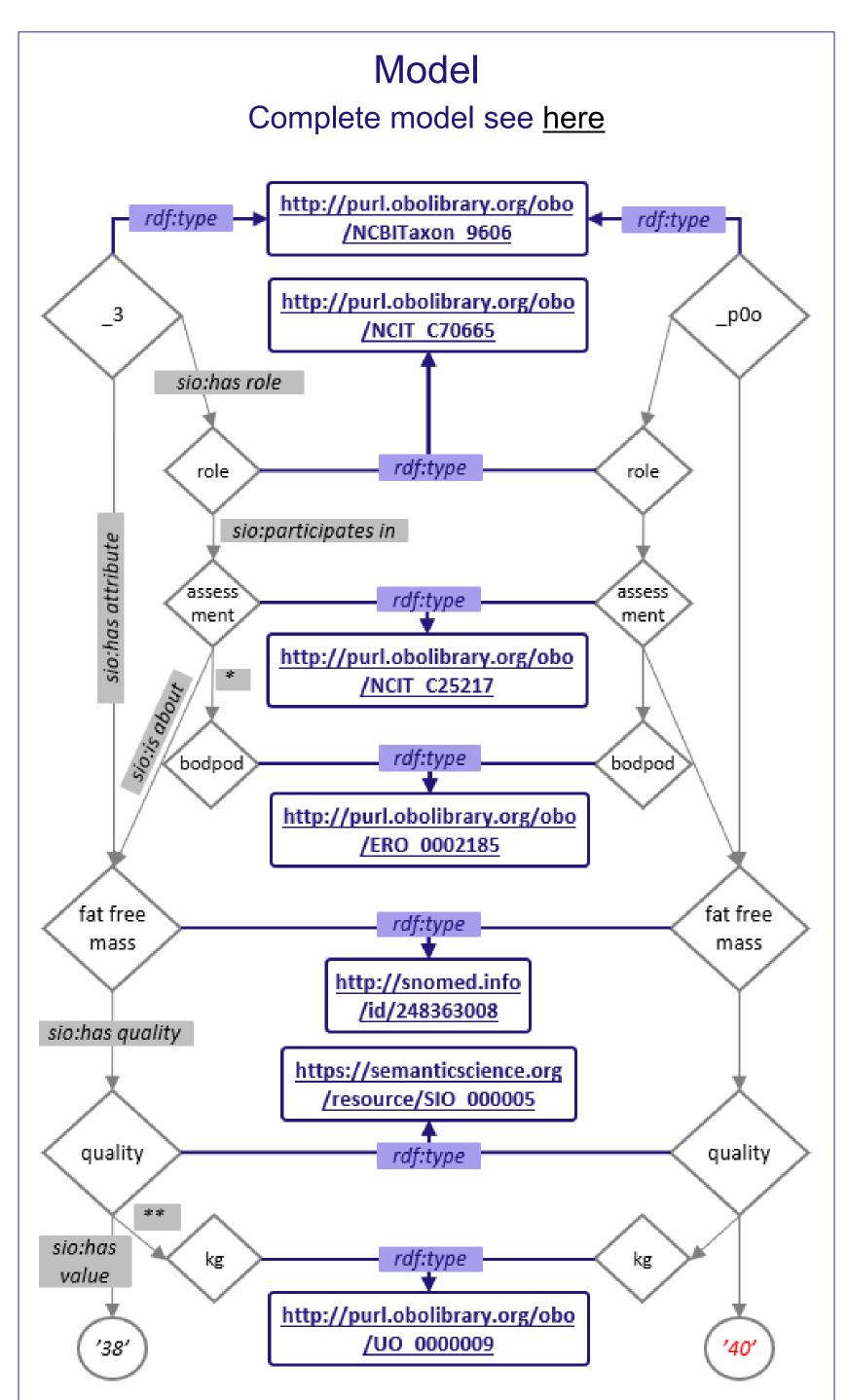
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Niek van Ulzen, International FAIR Convergence Symposium 2020



N. van Ulzen, A. de Jong, M. Kanis, M. Roos, R. Kaliyaperumal, N. Quaralt-Rosinach, R. Cornet & group of domain experts

Proof of Concept

- FAIRification-workflow (Jacobsen et al. 2020)
- FAIRifying 11 existing datasets from body composition measurements of patients and/or research participants
- Originally in SPSS, Excel or CSV-format
- Data:

#Age #Gender #Body weight #Body height

#Fat-free mass measured by a BODPOD

#Output from Bioelectrical Impedance Analysis

Implementation choices



Interoperability discussion

- Different research teams may choose different ontologies and ontology terms for the same concepts
- Different research teams may develop different semantic models for the same dataset
- Different research teams may go for different implementation choices
- The datasets become less interoperable and comprehensible for our researchers not familiar with Turtle, RDF and SPARQL

#Body weight

<https://www.hva.nl/rdf/person/2335/body_weight_attribute> a <https://loinc.org/29463-7/>; sio:SIO_000217 https://www.hva.nl/rdf/person/2335/body_weight_quality.

<https://www.hva.nl/rdf/person/2335/body_weight_quality> a sio:SIO_000005; sio:SIO_000221 <https://www.hva.nl/rdf/unit/kilogram>; sio:SIO 000300 "100"^^<http://www.w3.org/2001/XMLSchema#float> .

n.r.van.ulzen@hva.nl https://uvaauas.figshare.com/projects/FAIR_Geen_woor den_maar_data/83840 https://www.amsterdamuas.com/uv-openscience

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