

# On the design of enterprise ontology-driven software development

Citation for published version (APA):

Krouwel, M. R. (2023). On the design of enterprise ontology-driven software development. [Doctoral Thesis, Maastricht University]. Maastricht University. https://doi.org/10.26481/dis.20231103mk

Document status and date: Published: 01/01/2023

DOI: 10.26481/dis.20231103mk

**Document Version:** Publisher's PDF, also known as Version of record

### Please check the document version of this publication:

 A submitted manuscript is the version of the article upon submission and before peer-review. There can be important differences between the submitted version and the official published version of record. People interested in the research are advised to contact the author for the final version of the publication, or visit the DOI to the publisher's website.

• The final author version and the galley proof are versions of the publication after peer review.

 The final published version features the final layout of the paper including the volume, issue and page numbers.

Link to publication

#### General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these riahts.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
  You may freely distribute the URL identifying the publication in the public portal.

If the publication is distributed under the terms of Article 25fa of the Dutch Copyright Act, indicated by the "Taverne" license above, please follow below link for the End User Agreement:

www.umlib.nl/taverne-license

#### Take down policy

If you believe that this document breaches copyright please contact us at:

repository@maastrichtuniversity.nl

providing details and we will investigate your claim.

## Propositions

## Belonging to the doctoral thesis entitled

'On the Design of Enterprise Ontology-Driven Software Development'

by Marien R. Krouwel, Maastricht University, November 3, 2023

- 1. DEMO models alone are not enough to generate working enterprise software (this thesis)
- 2. A 'complete' method for enterprise ontology-driven software development should at least comprise a Way of Thinking, a Way of Modeling, a Way of Working, and a Way of Supporting (this thesis)
- 3. By introducing implementation design decisions into the enterprise model, complexity is moved back to where it originates (this thesis)
- 4. Software development can be sped up beyond current low-code approaches by adopting enterprise models as a starting point (this thesis)
- 5. Neither should we overestimate nor should we underestimate the value of a model
- 6. The biggest issue of current 'standard' packages, is that they are too rigid and too customizable at the same time
- 7. Designing a normalized enterprise is not difficult, the difficulty is in implementing it
- 8. Avoiding manual steps in the transformation process from requirements to software is the only way to reduce project failure
- 9. Software engineers benefit from music education
- 10. Musicians benefit from software engineering education

These propositions are considered defendable and as such have been approved by the supervisors, Prof. dr. A.F. Harmsen and Prof. dr. H.A. Proper.