



Data Mesh Information Architecture:

Modeling Data Products and Domains

**Half day workshop by
Juha Korpela**

///AdeptEvents

- Understand the Data Mesh paradigm and its challenges relating to information architecture and semantics
- Conceptual modeling for defining the business context of domains and data products
- Logical modeling as a part of data product design process
- Solution-level metadata and domain-level context across domain boundaries
- Information Architecture Management for independent domain teams within a Data Mesh setup

LANGUAGE
English

VENUE
Utrecht

TIME
9:00 – 12:30 hours

REGISTRATION
www.adeptevents.nl



Data Mesh Information Architecture:

Modeling Data Products and Domains

Data Mesh is a federated approach to data management and governance developed by Zhamak Dehghani. It's structure is based on domains and data products, elements that have also seen wide attention from organizations that are not otherwise working towards a full Mesh implementation. Working with autonomous domains who share data to the rest of the organization via data products is an excellent way to bring data work closer to the business and to allow domain-specific prioritization instead of a massive centralized bottleneck team. However, with domains having their own understanding of business and its core concepts, semantic interoperability becomes a challenge. This workshop focuses on the problems of Information Architecture in a de-centralized landscape. How can we document what data we have available, how do we understand what other teams' data means, and how do we maintain a big picture of what is where? We will explore conceptual modeling as a key method of documenting the business context and semantics of domains and data products, more detailed logical modeling as a means to document data product structures, and consider both within-domain and cross-domain linking of various models and objects in them. As a hands-on exercise, we will model a domain and design some example data products that maintain strong links with their domain-level semantics. The workshop will give you the basic skills to do data modeling at these higher levels of

abstraction, and understanding of the key characteristics and challenges of the Data Mesh that affect the way we need to do data modeling.

LEARNING OBJECTIVES

- Understand the basics of the Data Mesh paradigm and its challenges relating to information architecture and semantics
- Learn the basics of conceptual modeling as a method of defining the business context of domains and data products
- Learn the basics of logical modeling as a part of data product design process
- Learn how solution-level metadata (e.g. data contracts) can expose domain-level context across domain boundaries
- Understand the basic operating model of information architecture management in the context of independent domain teams within a Data Mesh setup.

Who is it for?

- Data Architects
- Chief Data Officers and Heads of Data interested in federated operating models
- Data Product Owners and Team Leads working in a federated model
- Data Governance experts.



Detailed Course Outline



1. Introduction

- Welcome and introductions
- Course agenda and goals

2. Data Mesh basics

- General idea
- Four pillars of Data Mesh according to Dehghani
- Domains and domain teams
- Data products
- The interoperability challenge

3. How conceptual models help with cross-domain understanding

- Basics of conceptual modeling: entities, relationships, and attributes
- How to identify the real business objects
- Building definitions and glossaries

4. Hands-on exercise: modeling a domain

- Domain boundaries
- Identifying entities within the domain
- Definitions and "domain ontology"

5. Data modeling as part of data product design

- Understanding product scope as part of the domain model
- Logical model as product-level design & documentation
- Deriving logical models from conceptual model
- Maintaining links with the domain model
- What happens when the product expands beyond the domain?

6. Ensuring semantic interoperability at the domain boundary

- Exposing metadata from domains and data products
- Data contract basics
- Domain glossaries vs. shared enterprise glossaries
- Dealing with polysemes

7. Data Mesh information architecture operating model

- Domain team responsibilities
- Data product owner responsibilities
- Platform team responsibilities
- Federated governance

8. Conclusion

- Key takeaways
- Where to start in your organization
- How to learn more



JUHA KORPELA

Juha Korpela is an experienced data professional from Helsinki, Finland. For many years, he has been working in high-profile data leadership positions in a variety of industries. He is founder of Datakor Consulting, advising large enterprises on data modeling and data product management at scale. He is also one of the founders of the Helsinki Data Week event and a co-host of the Helsinki Data Mafia podcast. Previously, he was e.g. the Chief Product Officer at Ellie Technologies (a start-up working on a data modeling tool) and the Head of Data Platform at UPM-Kymmene (a forest industry company). His main areas of expertise are data modeling, data product management, and data architecture, and he likes to emphasize understanding real business needs over technological details. Juha can be found participating actively in all kinds of data discussions on LinkedIn and speaking at various events around the world.

Information

DATE AND TIME

The workshop will take place on March 25th, 2026 from 9:00 am to 12:30. We may continue to run this course once or twice a year with the exact date and time available on our website.

VENUE

Adept Events works with several venues in and near Amersfoort and Utrecht. We strive to provide you with the location details as soon as possible. The exact venue will be on our website and in the confirmation e-mail that you will receive one week prior to the event. Always check our website prior to your departure to ensure you have the exact location and directions.

HOW TO REGISTER

Please register online at www.adeptevents.nl. For registering by print, please scan the completed registration form and send this or your Purchase Order to customerservice@adeptevents.nl. We will confirm your registration and invoice your company by e-mail therefore please do not omit your e-mail address when registering.

In completing your registration form you declare that you agree with our **Terms and Conditions**.

REGISTRATION FEE & DISCOUNTS

Please find the registration fee **on this page** on our website. If combined with attending our conference Data Warehousing & BI Summit an additional discount will apply.

Discounts are available for group bookings of two or more delegates representing the same organization made at the same time. Ten percent off for the second and third delegate and fifteen percent off for all delegates when registering four or more delegates (all delegates must be listed on the same invoice).

This cannot be used in conjunction with other discounts.

All prices are VAT excluded.

PAYMENT

Full payment is due prior to the workshop. An invoice will be sent to you containing our full bank details including BIC and IBAN. Your payment should always include the invoice number as well as the name of your company and the delegate name.

Payment by credit card is also available. Please mention this in the Comment-field upon registration and find further instructions for credit card payment on our **customer service page**.

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Cancellations must be received in writing at least three weeks before the commencement of the workshop and will be subject to a € 75,- administration fee. It is regretted that cancellations received within three weeks of the workshop date will be liable for the full workshop fee. Substitutions can be made at any time and at no extra charge.

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MORE INFORMATION



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