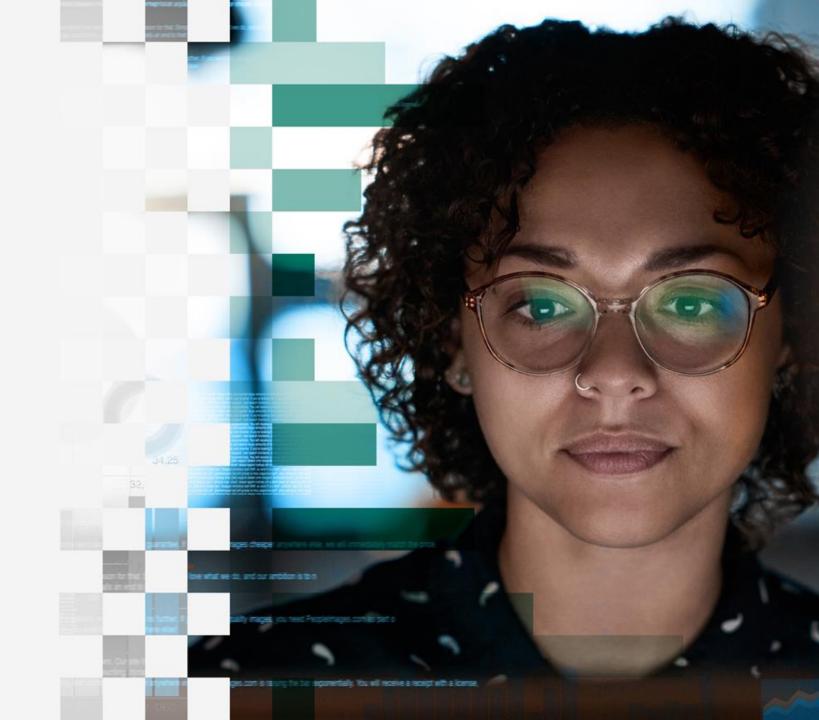


EUROPEAN MiCROSOFT FABRIC Community Conference

STOCKHOLM 24-27 SEPTEMBER 2024

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Ben Jarvis

HARNESSING TECHNOLOGY.
ADVANCING BUSINESS.
ENHANCING LIVES.

About Me – Ben Jarvis

- CTO, Data & Al at Telefónica Tech
- 10+ years of experience across:
 - Application Development
 - Infrastructure / DevOps
 - Data Engineering
- 6+ years architecting and delivering data & Al solutions in Azure
- Experience of:
 - Azure Data Lake Analytics
 - Azure Synapse
 - Databricks
 - Microsoft Fabric



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Where is our time spent?

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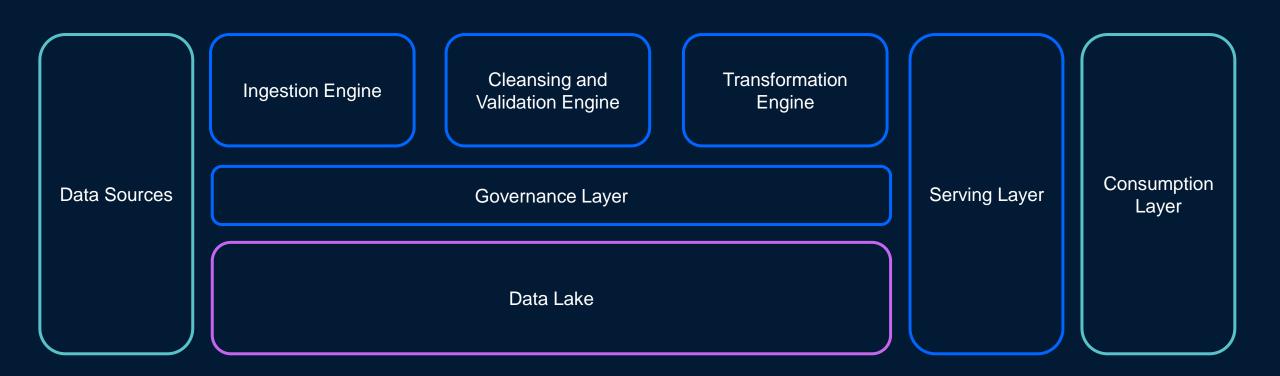
How do I get started?

03

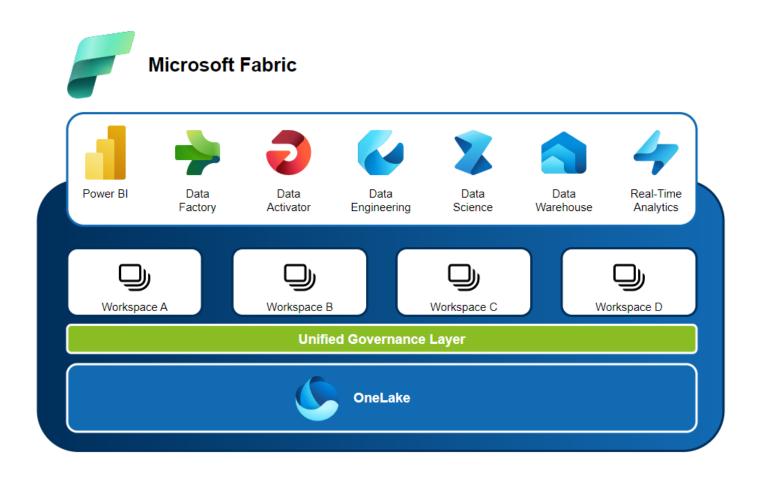
Principles of Metadata-Driven Processing

How do we do it?

A typical data platform



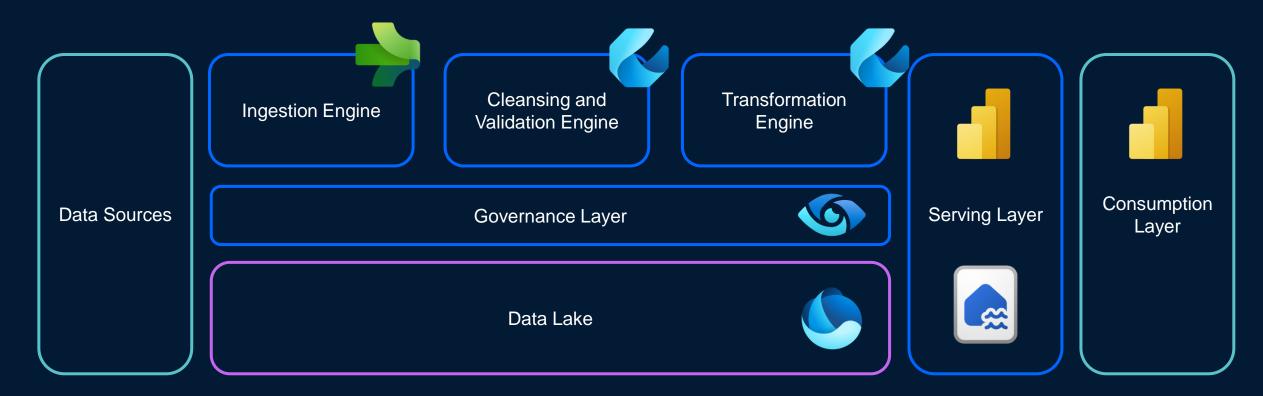
Fabric Overview





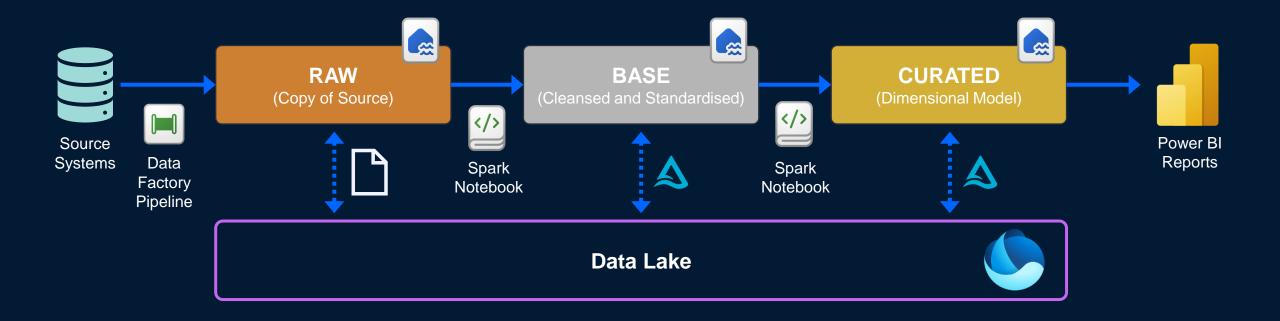
A typical data platform in





End-to-end architecture in





Where do we spend our time?



What are the problems?

Manual Steps

Time Spent Writing Mundane, Boilerplate Code

Lack of Consistency – Impact on Developer Productivity and Support

Complex Onboarding

Difficulty Future Proofing



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Benefits of Standardisation

Why standardise?



Drive Consistency



Increase Productivity



Reduce Manual Effort



Future Proof

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How do we do it?

Techniques for building metadata-driven processes

Parameterisation

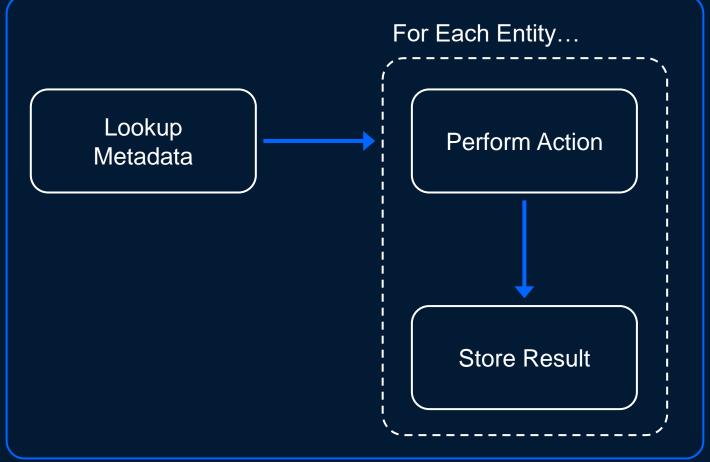
- Simple to develop
- Simple to test
- X Can become complex to debug
- X Limited capability in some tools

Code Generation

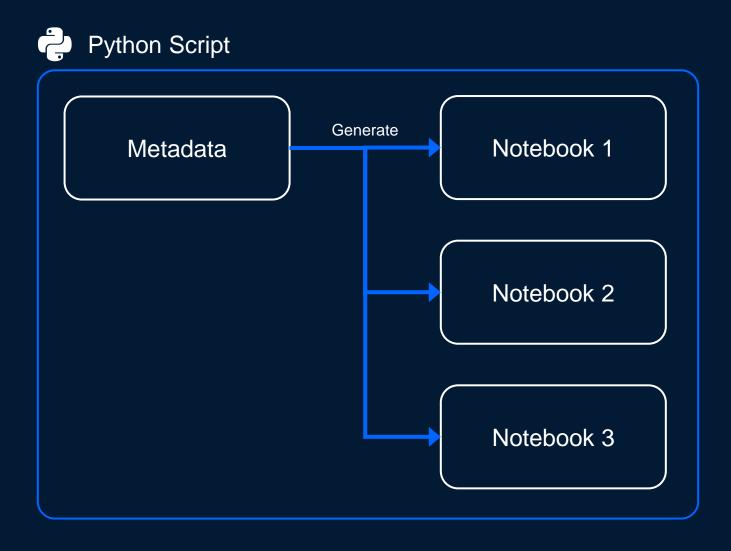
- More complex to develop
- Simple to test
- ✓ Simple to debug
- Can utilise all tools

What does a metadata-driven pipeline look like?

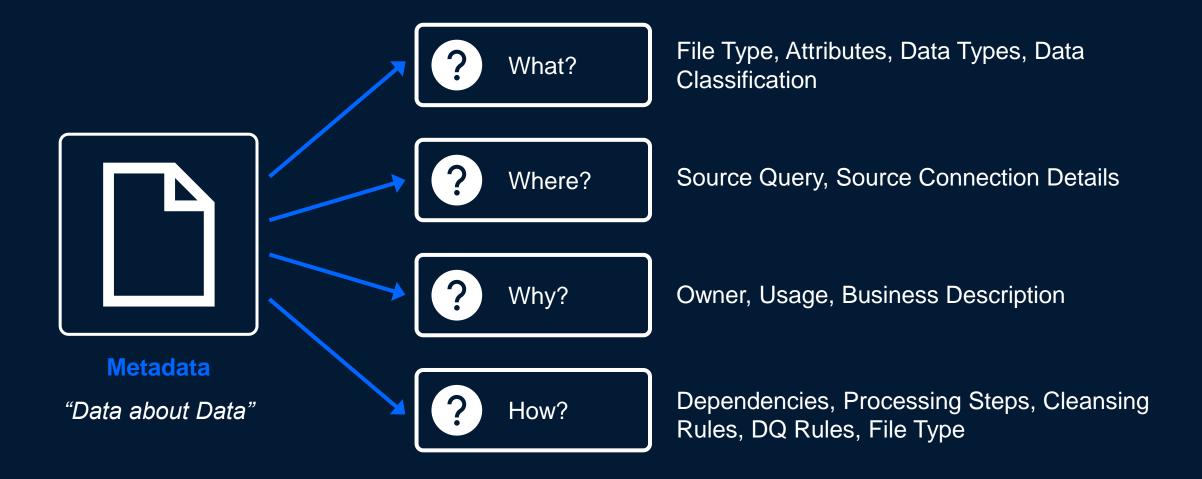
Data Factory Pipeline



How does code generation work?



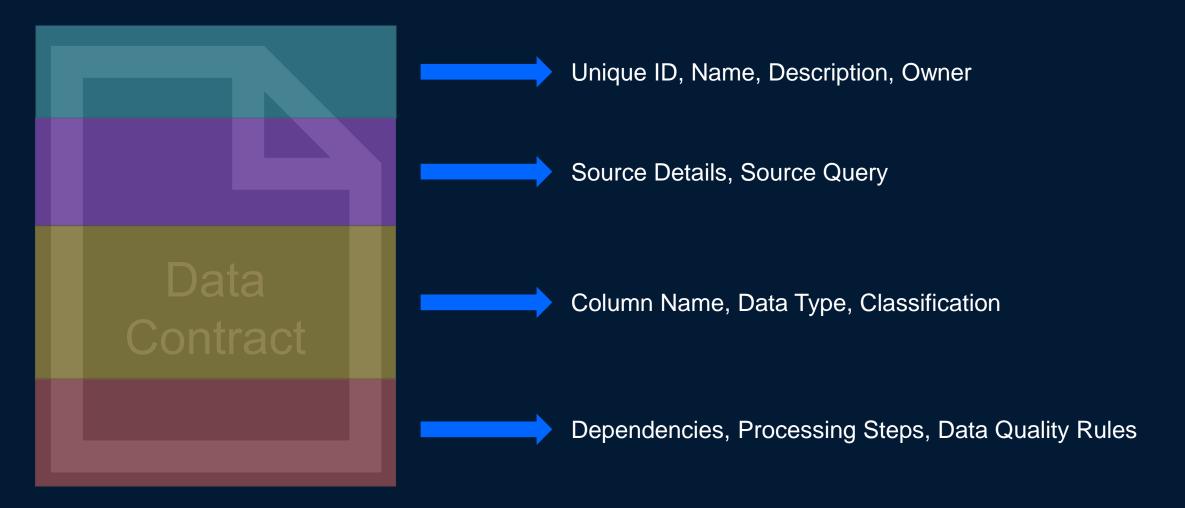
What is metadata?



What is a data contract?



What is a data contract?



How does this work in



Parameterisation

Ingestion



Data Cleansing



Data Quality



Code Generation

Curation



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Benefits of Standardisation

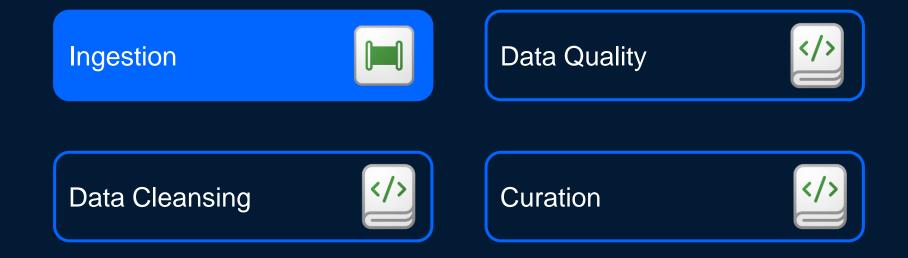
Why do we need it?

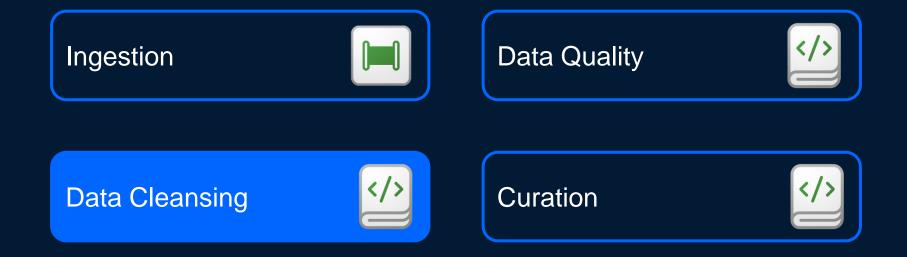
Wrap-Up

How do I get started?

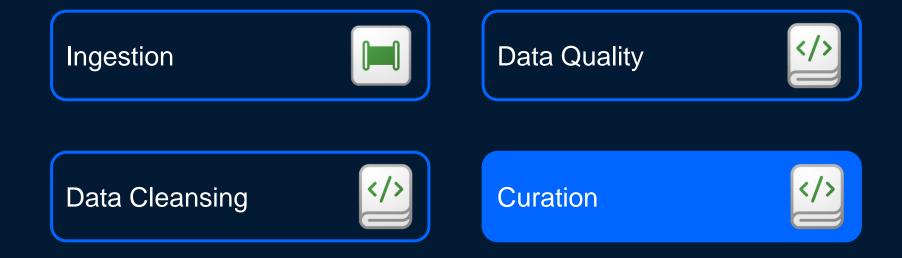
Principles of Metadata-Driven Processing

How do we do it?









Where can we take it from here?

- Extend auditing / error handling
- Implement further data quality screen types
- Implement further code generation patterns unknown members, Type 2 SCDs, fact tables etc
- Add unit tests

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Useful Resources



https://github.com/benjarvis18/FabCon2024



https://opendatacontract.com/



https://datacontract.com/

Wrap-Up

Get in Contact



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