



datablau

Modern Data Modeling Platform

From Data Modeling to Data Catalog



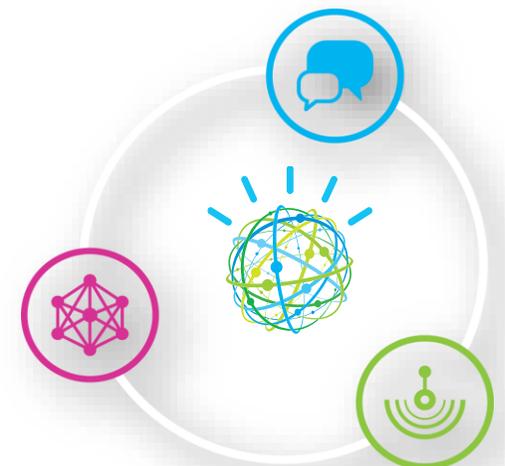
Allen Wang - Datablau Founder & CEO

- Over two decades of industry experience in data modeling and data governance, serviced for BOA, Suntrust, AT&T, JPMorgan, etc.
- Found Datablau in 2016 as Data governance and data architecture pioneer and practitioner.
- CA ERwin Development global lead from 2006 to 2016.
- Researcher on NewSQL Data Modeling, Publish patent and paper <Unified Data Modeling for Relational and NoSQL Databases> in IEEE and InfoQ.
- IEEE member, DAMA CDMP, The Open Group member, OMG member.

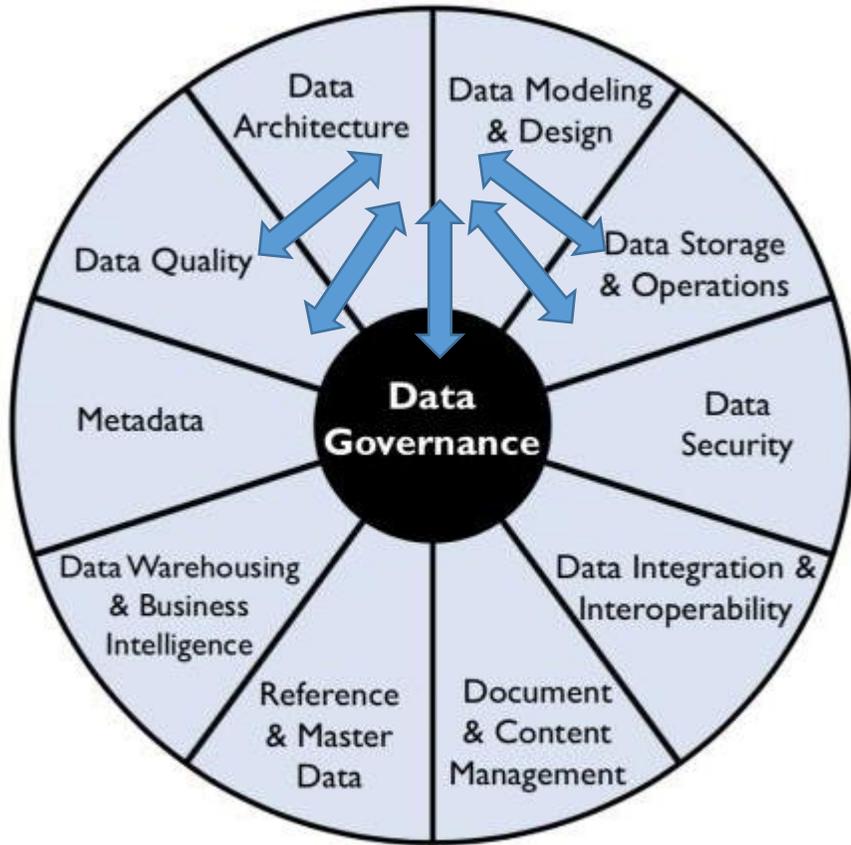


Today's Agenda

- **Modern Data Modeling Platform Overview**
- **Demo #1 Proactive Standardize Data modeling with business glossary**
- **Demo #2 Agile data modeling procedure**
- **Demo #3 Data model regulation and quality**
- **Demo #4 Data Model Server and Web Portal**
- **DDM Community & Enterprise Edition**

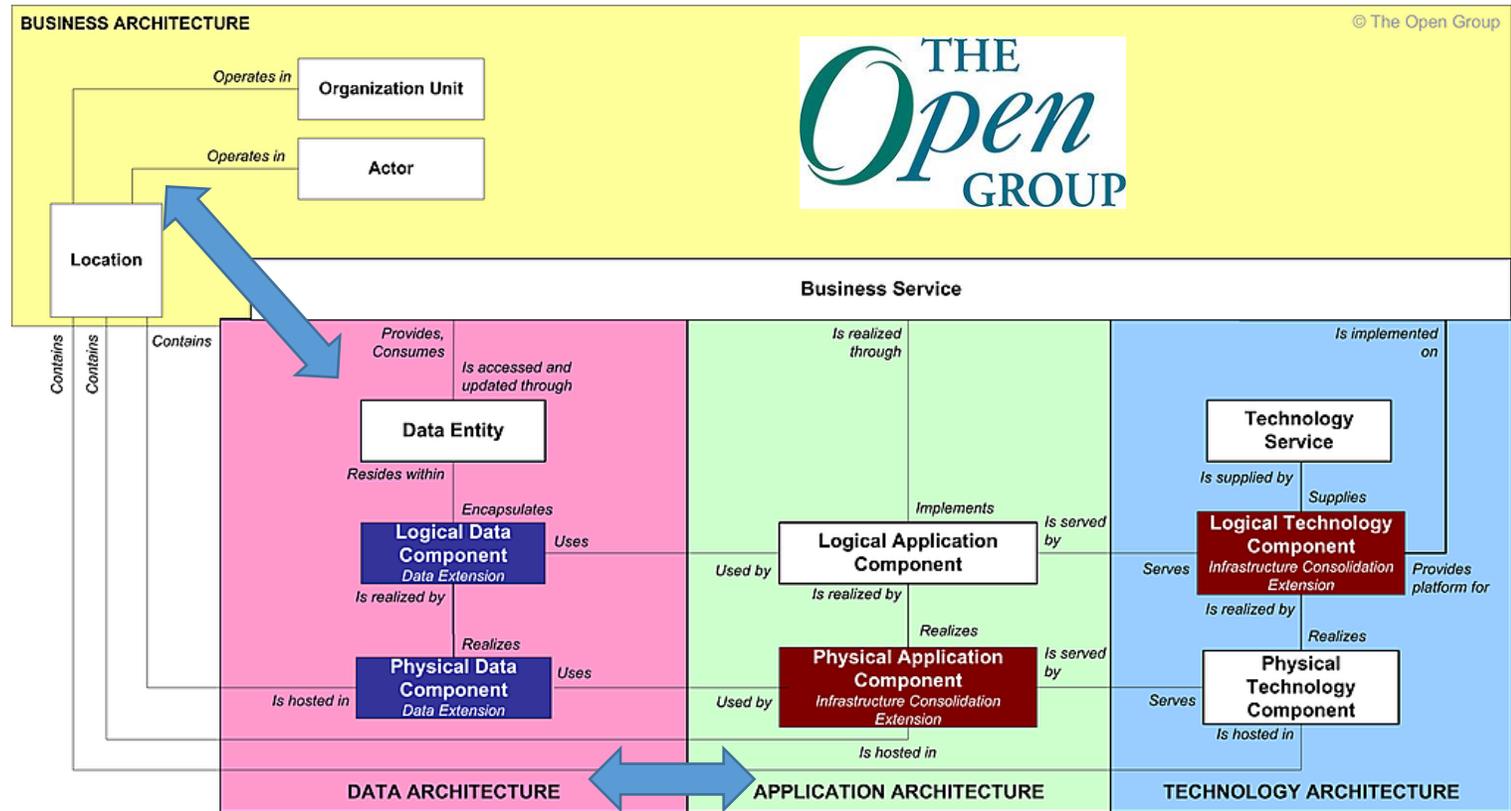


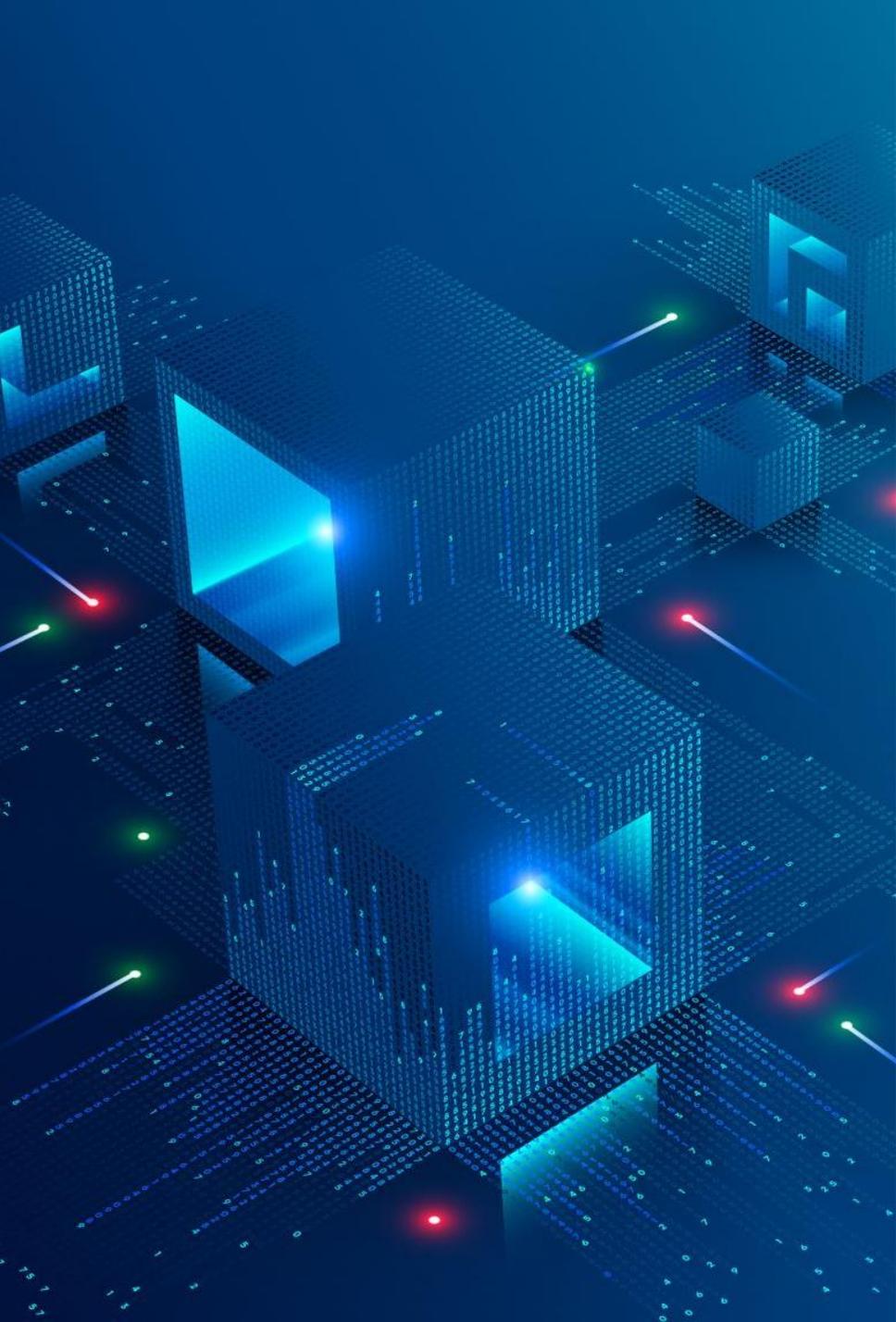
Modern Data Modeling Platform Overview



DAMA-DMBOK2 Data Management Framework

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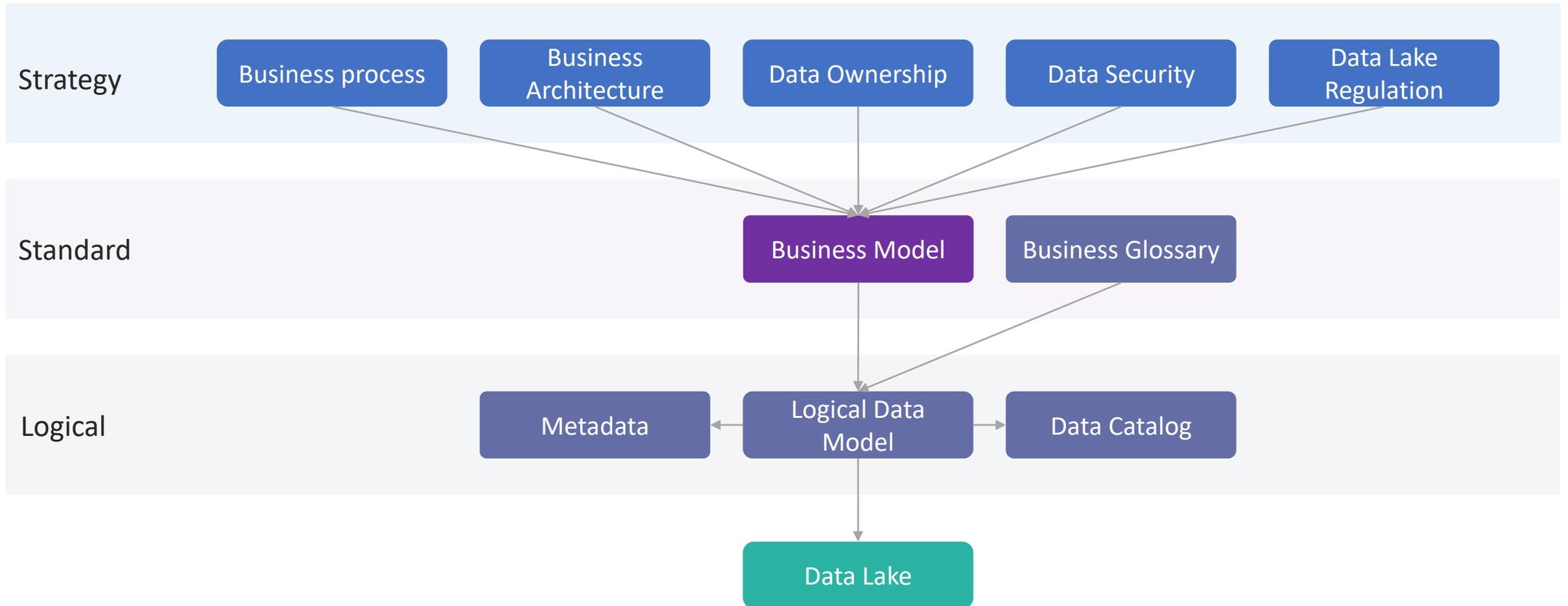




The Challenges - Traditional Data Modeling Only Scratches the design

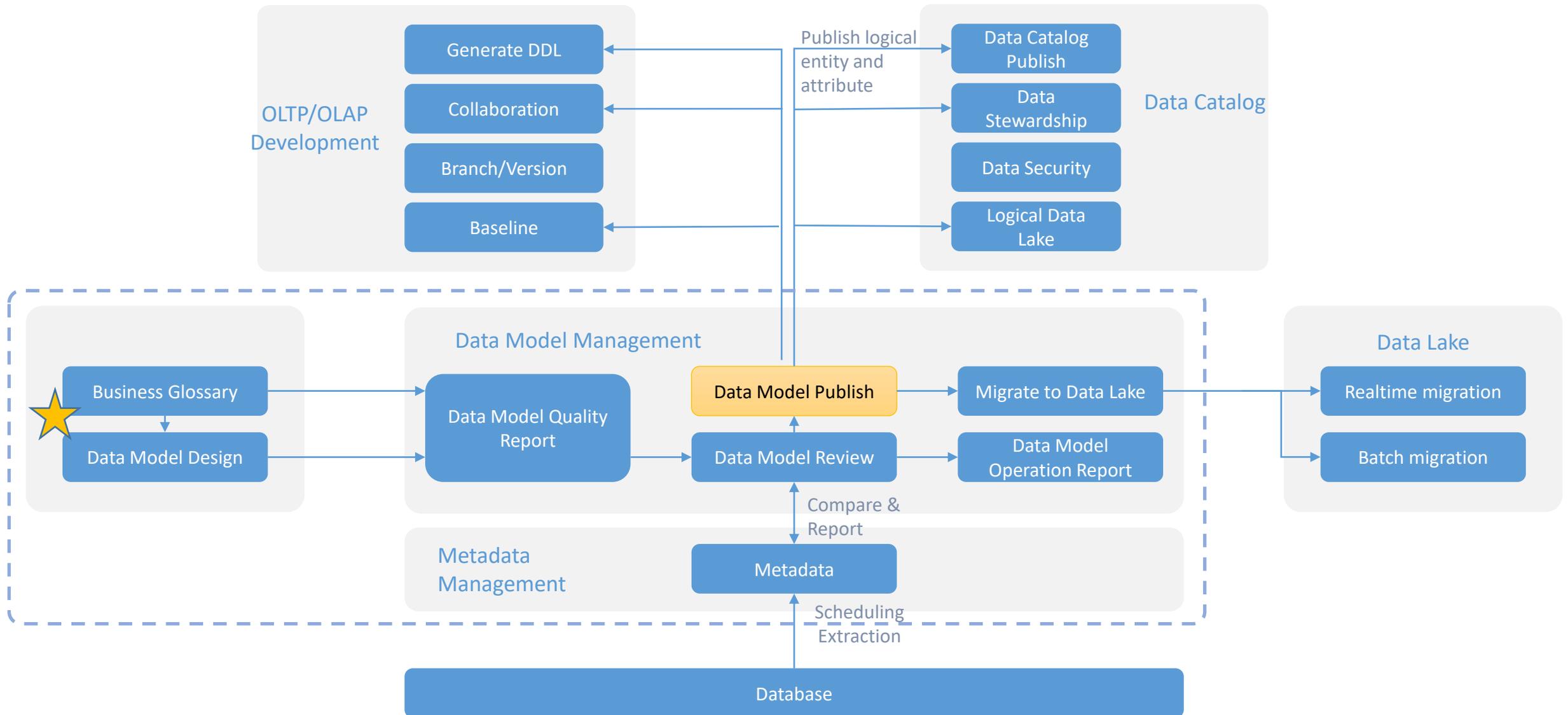
- Data modeling procedure and role
- Data model quality and measurement
- Data model operation and production management
- Integrate with development and release procedure
- Integrate with business glossary
- Integrate with data catalog
- Integrate with data security
- Integrate with data quality

From Data Strategy to Data Model



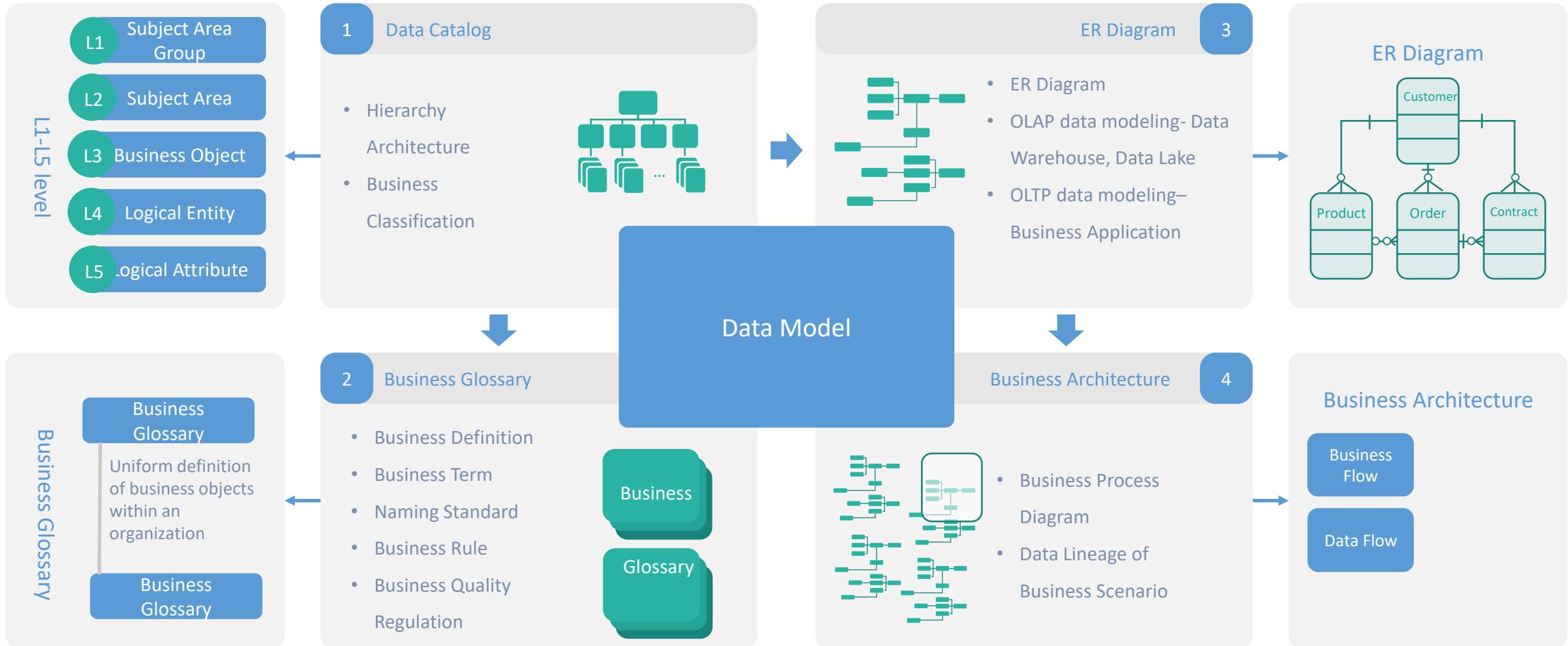
From Data Model to Data Catalog

DATA BLAU



Data Model driven Data Governance

DATA BLAU



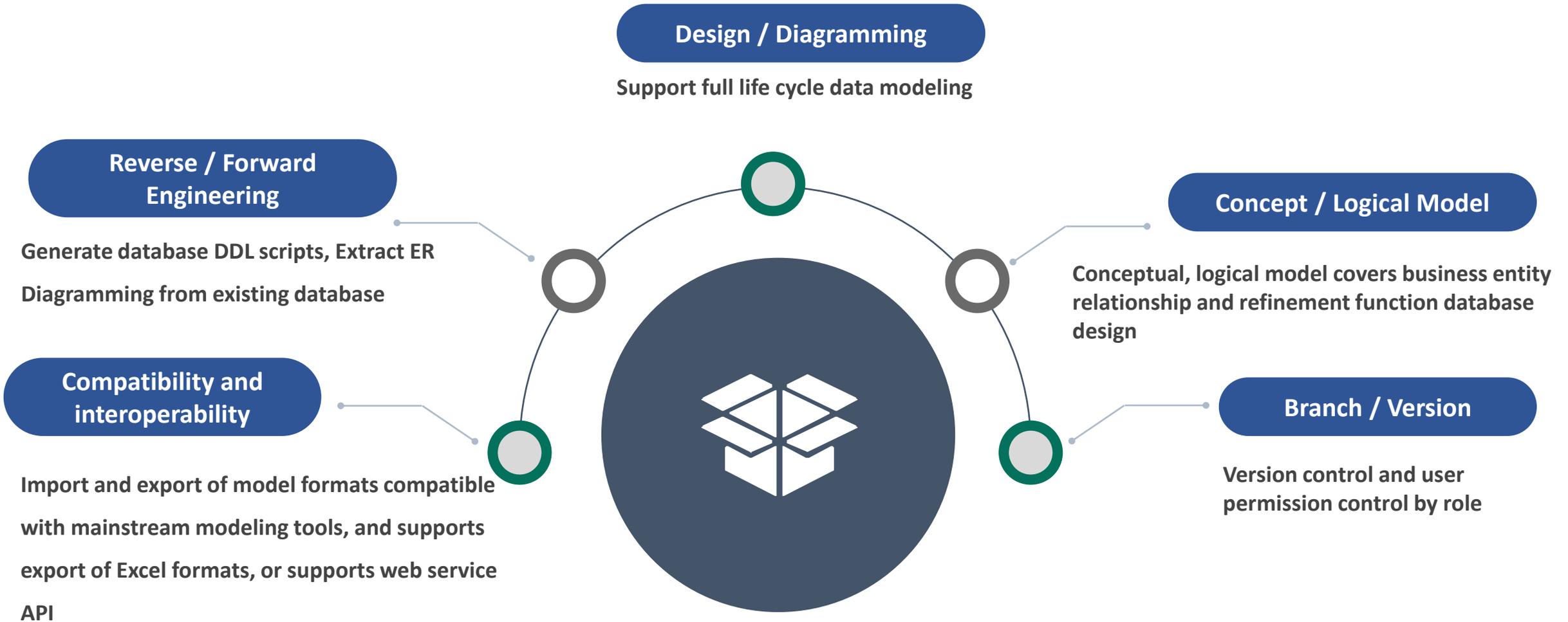
Let's get to
the demos!

Demo #1

Proactive Standardize Data modeling with business glossary

Basic Capability: improve modeling efficiency and standardize

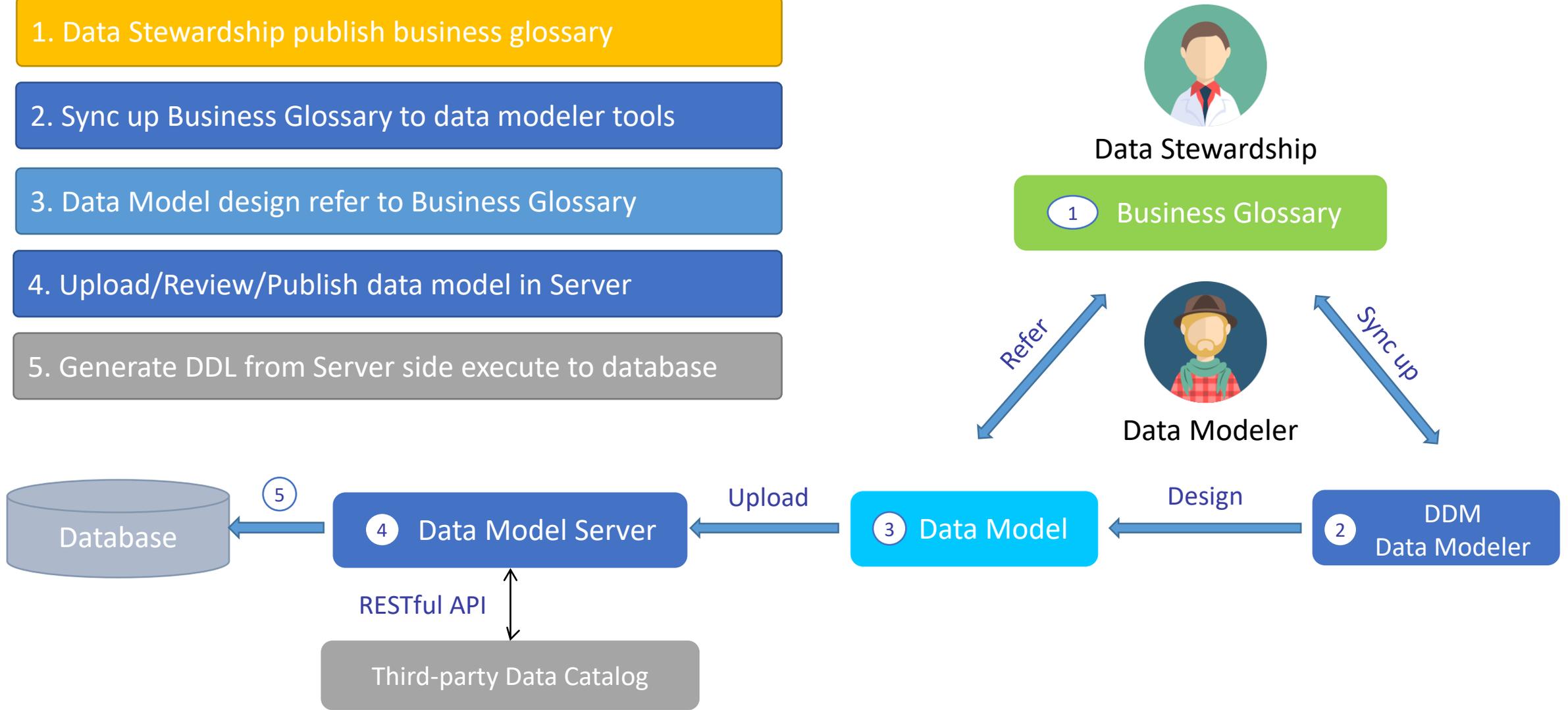
DATA BLAU



Data model is composited by business glossary

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1. Data Stewardship publish business glossary
2. Sync up Business Glossary to data modeler tools
3. Data Model design refer to Business Glossary
4. Upload/Review/Publish data model in Server
5. Generate DDL from Server side execute to database



Efficiency Apply Business Glossary to Data Model

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Completeness

- Establish the up-down interaction of the business glossary and let the business glossary grow naturally.
- Establish contribution incentive plan.

Searchable

- Establish business glossary according to enterprise level, domain level and system level
- Establish business glossary interpretation procedure.

Formalization

- Naming Standard consistent with business glossary.
- Establish the standardization of synonyms.

Usability

- Drag-drop apply business glossary to data model.
- Keyword intelligent recommendation.
- Consistency verification

Efficiency Apply Business Glossary to Data Model

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New Independency Self-developed System

- Follow standardize regulation of business glossary, naming standard, etc

Existing System

- Increment part follow standardize regulation

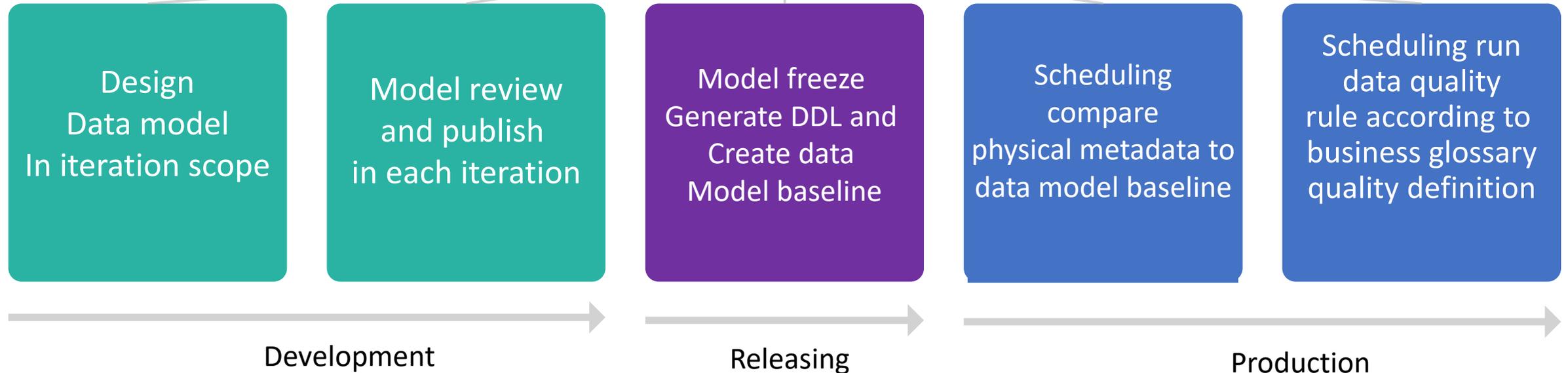
Outsourcing System

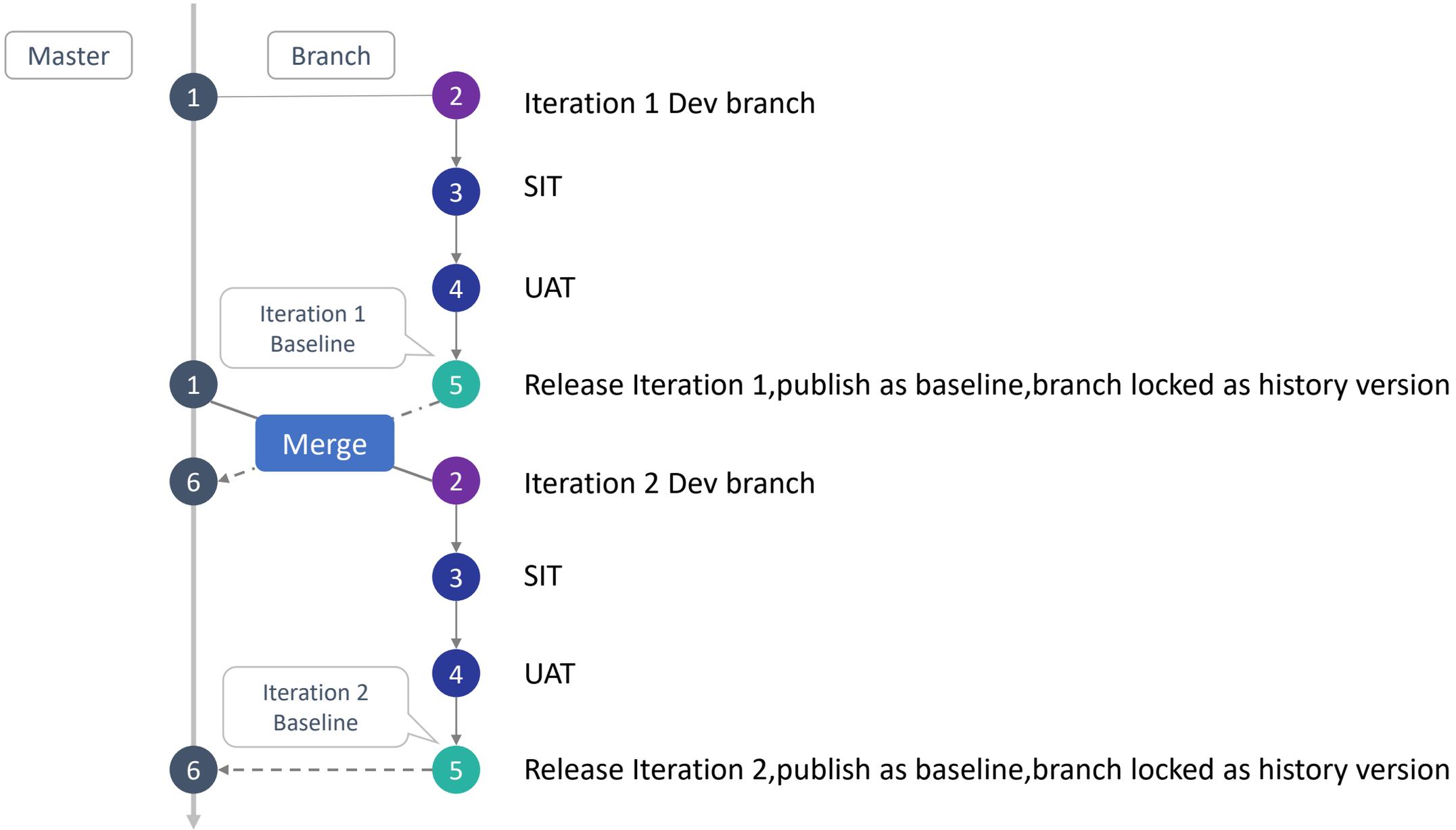
- No enforce regulation
- Standardize during migrate existing data to data lake

Demo #2

Agile data modeling procedure

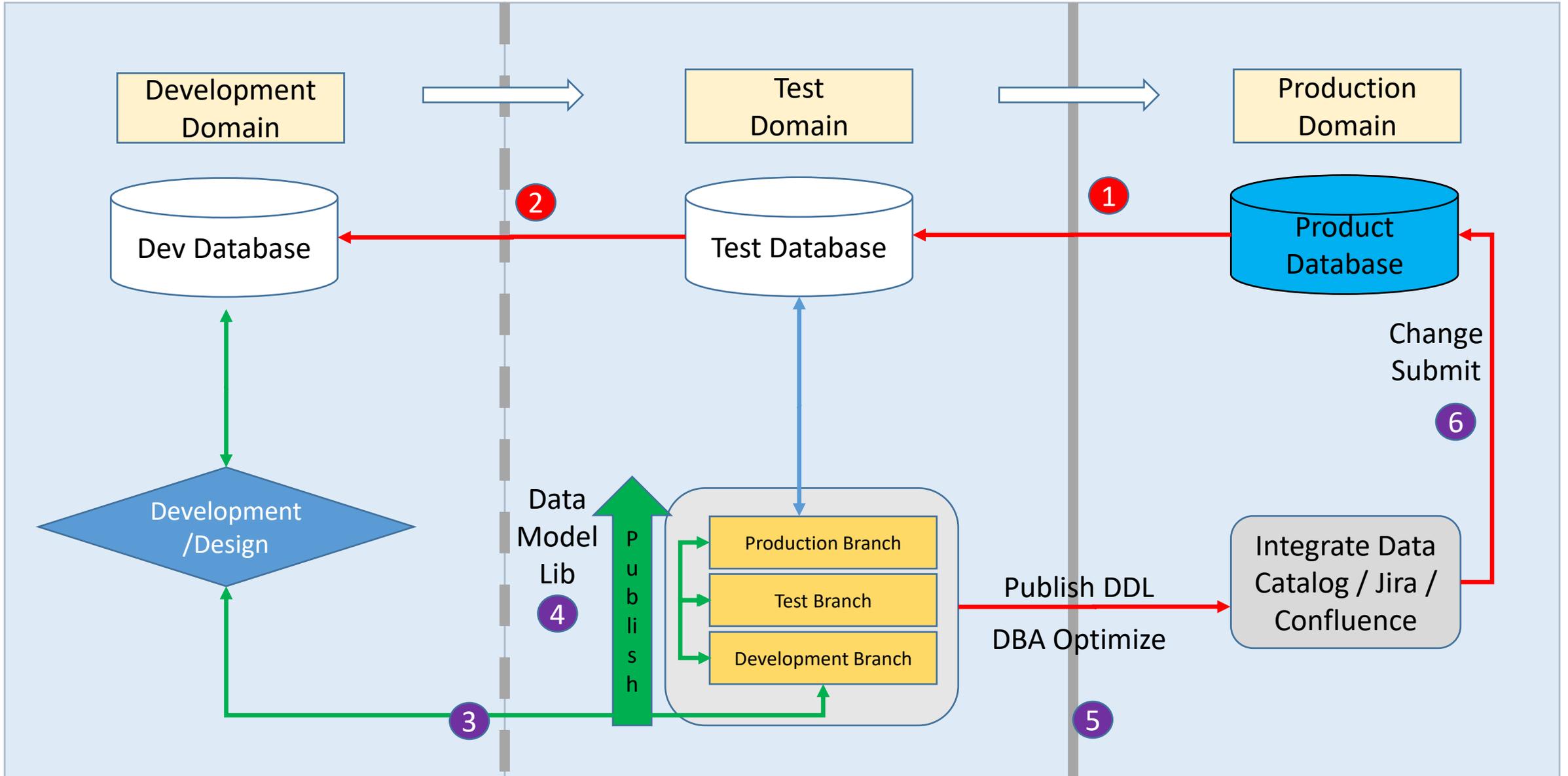
Agile SCRUM Iteration





Data Modeling Agile Development Life Cycle Management

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Demo #3

Data Model Regulation And Quality

Real-time check Data Modeling regulation

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- **Build-in data modeling quality rule**
- **Such as:**
 - **Maximum three columns in Index**
 - **Maximum three index in one table**

Model Check

Check quality options you need

- MQ-0: Logical name of table and column should not be empty
- MQ-1: Physical Name of table and column should not be empty
- MQ-2: The length of name (Table/Column) should be less than Length in
- MQ-3: The physical name contains some irregular characters
- MQ-4: Physical Name must not be reserved word of database
- MQ-5: Duplicate table name
- MQ-6: Table should have a primay key
- MQ-7: Table should not have more than 3 keygroups
- MQ-8: KeyGroup should not have more than 3 column members
- MQ-9: Empty keygroup (KeyGroup doesn't have any column members)
- MQ-10: Column with Date datatype cannot be used for table partition
- MQ-11: Column doesn't have data type

and precision of data type must be an integer
if INTEGER type must be an integer from 1 to 255
if CHAR type must be an integer from 1 to 255
if VARCHAR type must be an integer from 1 to 21845
if DECIMAL type must be an integer from 1 to 65
on of DECIMAL type must be an integer from 0 to 30

OK Cancel

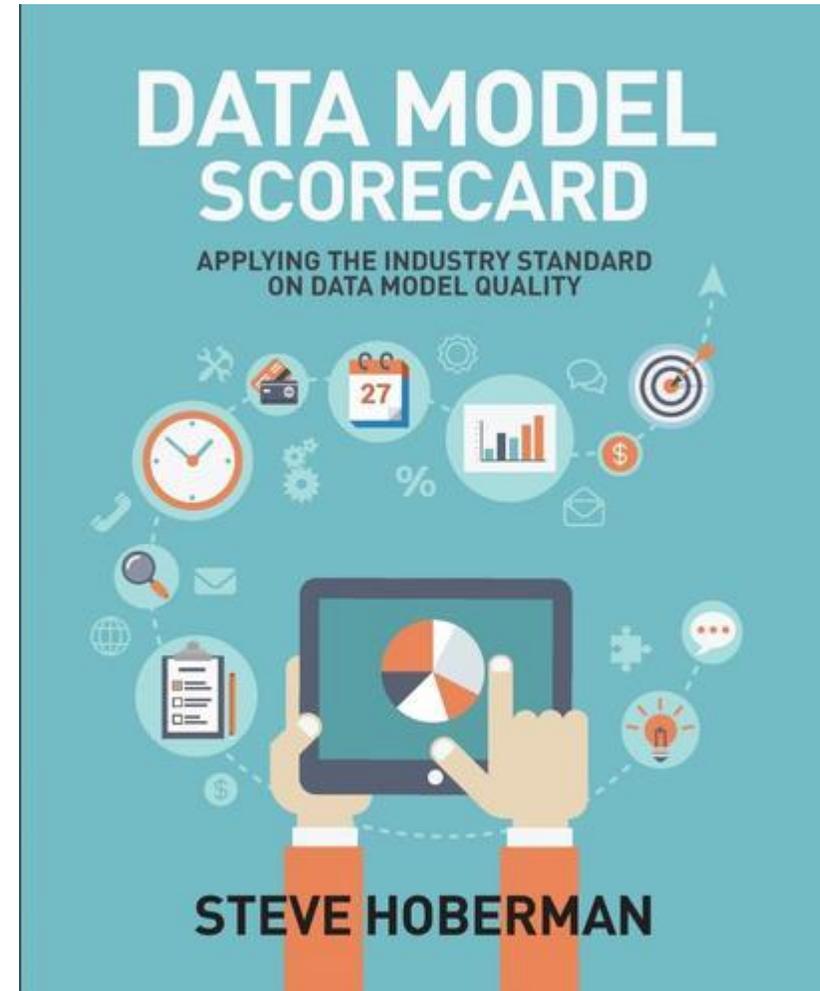
Model Check

Model Checking | 0 Errors | 3 Warnings | 0 Messages | Options

Auto Check

#	!	Description	Object
0	!	KeyGroup should not have more than 3 column members	eMovies\MO_RENT_REC\XPKMOVIE_RENTAL_RECORD
1	!	Empty keygroup (KeyGroup doesn't have any column me...	eMovies\CUST_CREDIT\XAK1CUSTOMER_CREDIT
2	!	Empty keygroup (KeyGroup doesn't have any column me...	eMovies\CUST_CREDIT\XIE1CUSTOMER_CREDIT

- **Build-in data model regulation**
- **Consistency rate between Business glossary and Data Model**
- **Business rationality**
- **Refer <Data Model Score Card>**

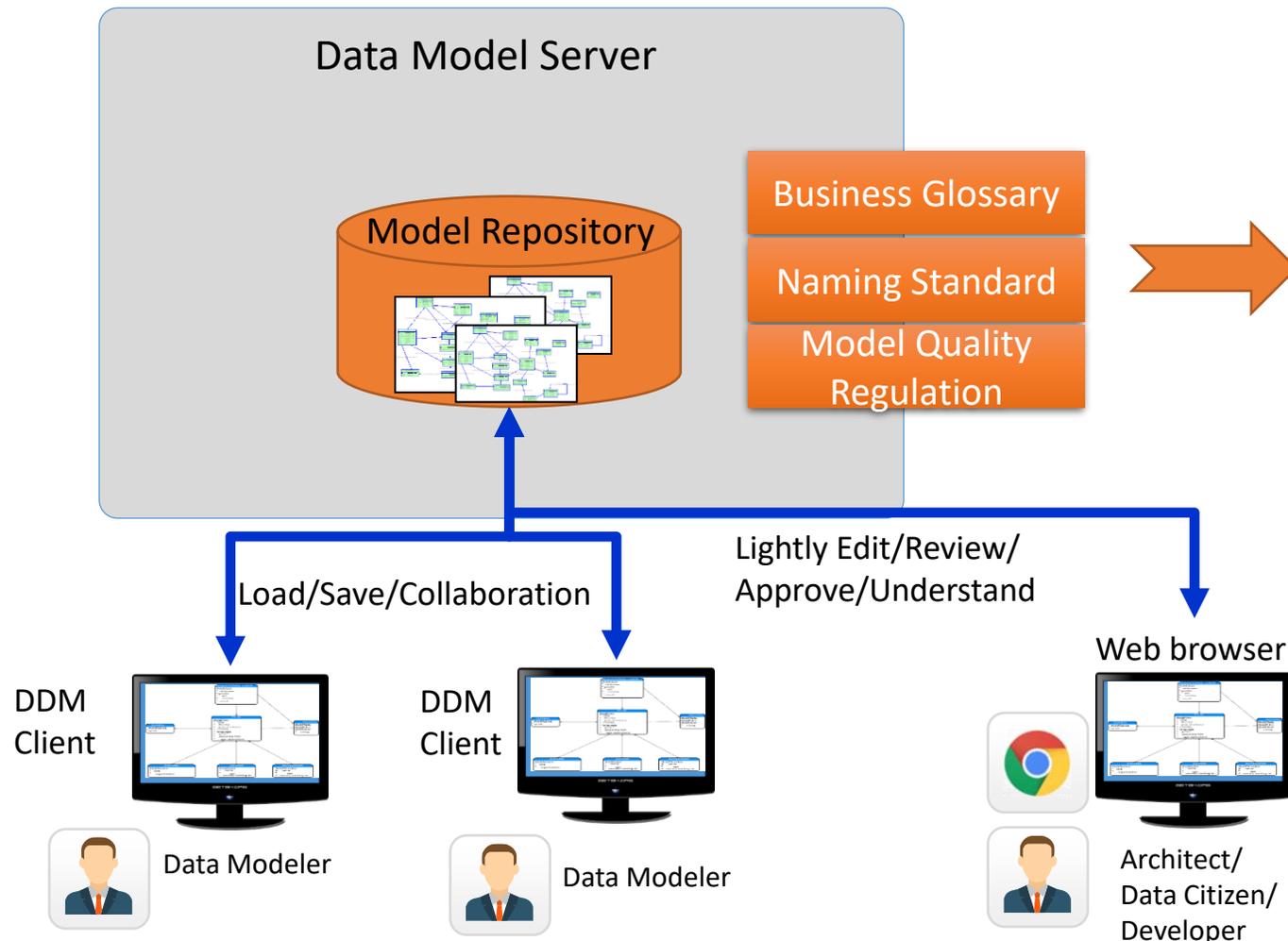


Demo #4

Data Model Server and Web Portal

Data Model Server

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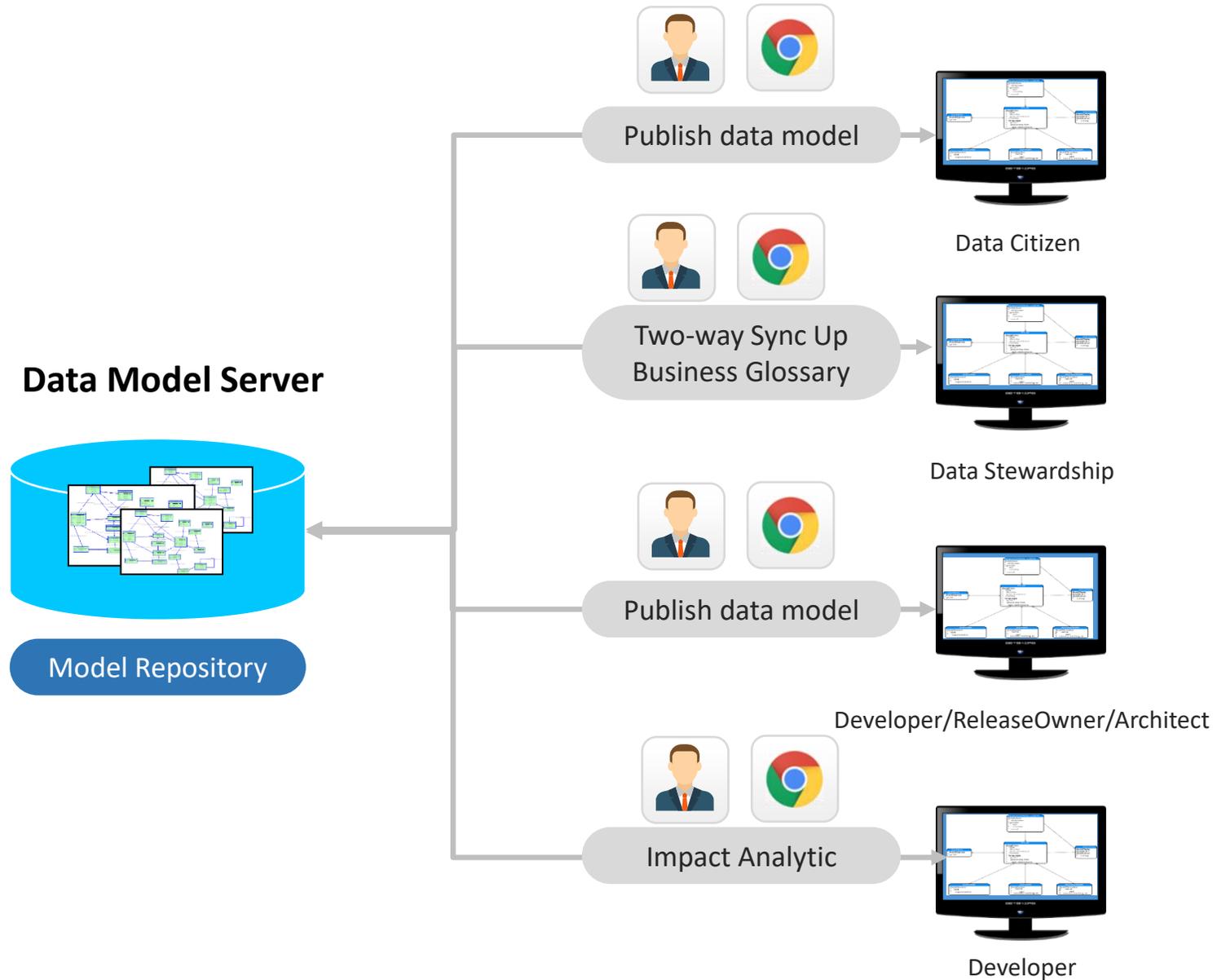


Core Capability

- ✓ Centralize data model repository for share and query.
- ✓ Branch/Version of object-level Incremental management
- ✓ Data Model Quality Regulation Check and Reporting.
- ✓ Web Model Browser and Editing
- ✓ Generate DDL script from server, integratable with release procedure

Data Model Server – Integrate with ecosystem

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Data Catalog

Public data model as metadata mapping to data catalog

Data Governance

(Business Glossary Management)
Push to data modeler
Submit from data modeler

Knowledge Management

Confluence
web model browse



Release Management

Jira
Data Model quality report and impact





DDM Community & Enterprise Edition



Two-steps have DDM Community Edition

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DDM Community Edition is free

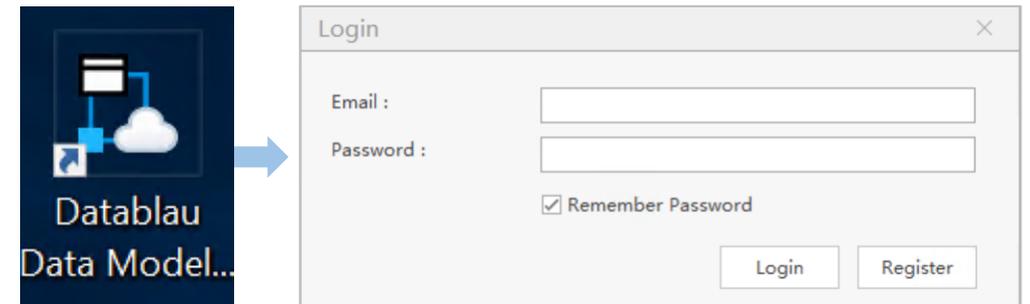
Obtain

Visit [Datablau.com](https://datablau.com) download DDM installation package



Enable

- Team collaborate data modeling
- Data model repository on cloud
- Pre-defined industry business glossary



[↶ Back](#)



Create My Organization

Organization

Team

Save

Organization Login & Web Portal

DATA BLAU

 My Model Store My Organization

Back eMovies

Basic Information

Model Summary

Data Entity

theme

- Accounting
- Customer
- Employee
- Movie

Data Entity

Table / View Name	Definition	
EMP	EMPLOYEE is a person that works for the	
MOVIE	A MOVIE is any video that can be rented?for the entity 播OVIE	11
STORE	A STORE is one of the MOVIE STORES where a customer can rent a...	8
MO_RENT_REC	A MOVIE RENTAL RECORD is a record that is kept on every MOVIE...	12
MOVIE_COPY	A MOVIE COPY is a single copy of a MOVIE	4
CUST	A CUSTOMER is a person or organization who has rented a movie ...	9
CUST_CREDIT	CUSTOMER CREDIT is the status of available credit for a CUSTOMER	4
MOVIE_STORE		2

Total 11

20/page < 1 >

Login

HOT

Email + Organization/Team Name

Email : lu.liling@datablau.com/allenteam

Password : *****

Remember Password

Login Register

Email: support@datablau.com

 Back  eMovies

ER Graph

Entity

Open DDM

Basic Information

Model Summary

Data Entity

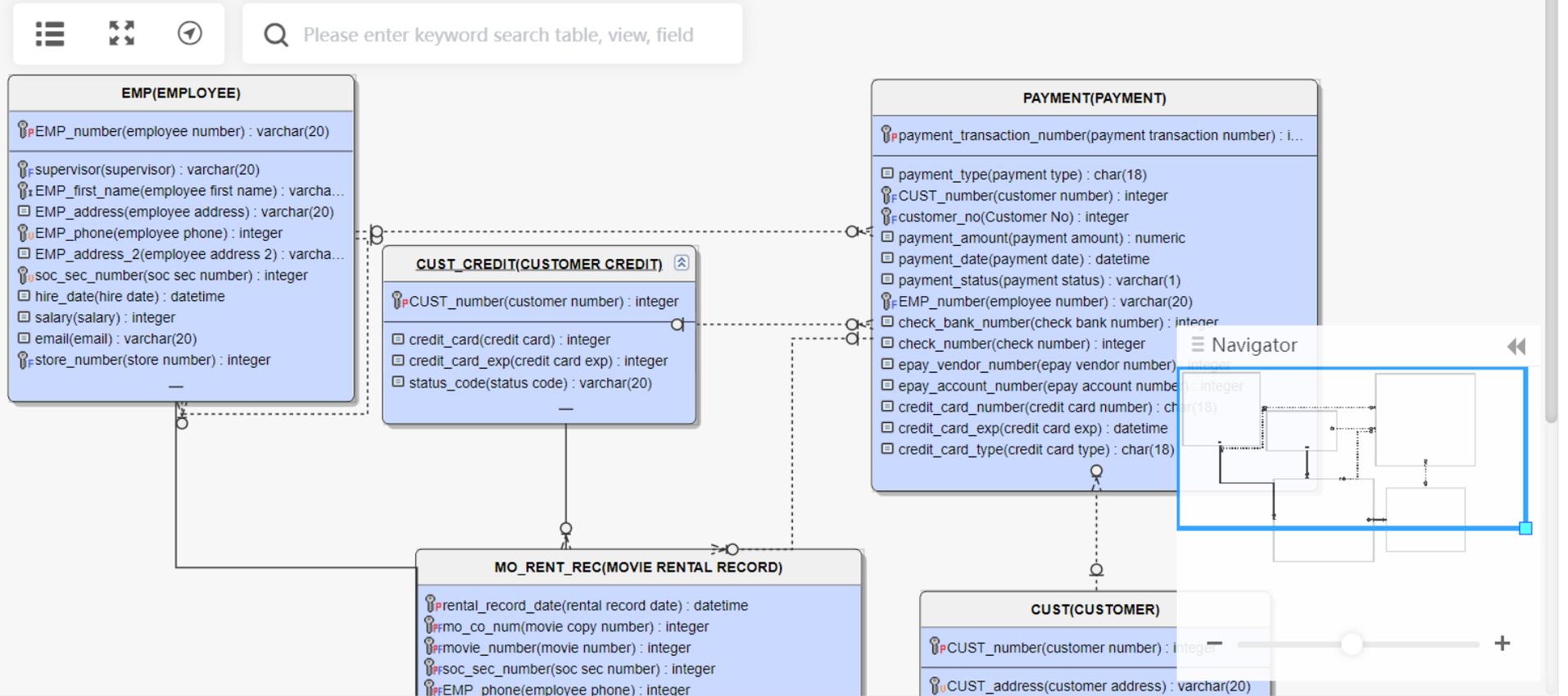
theme

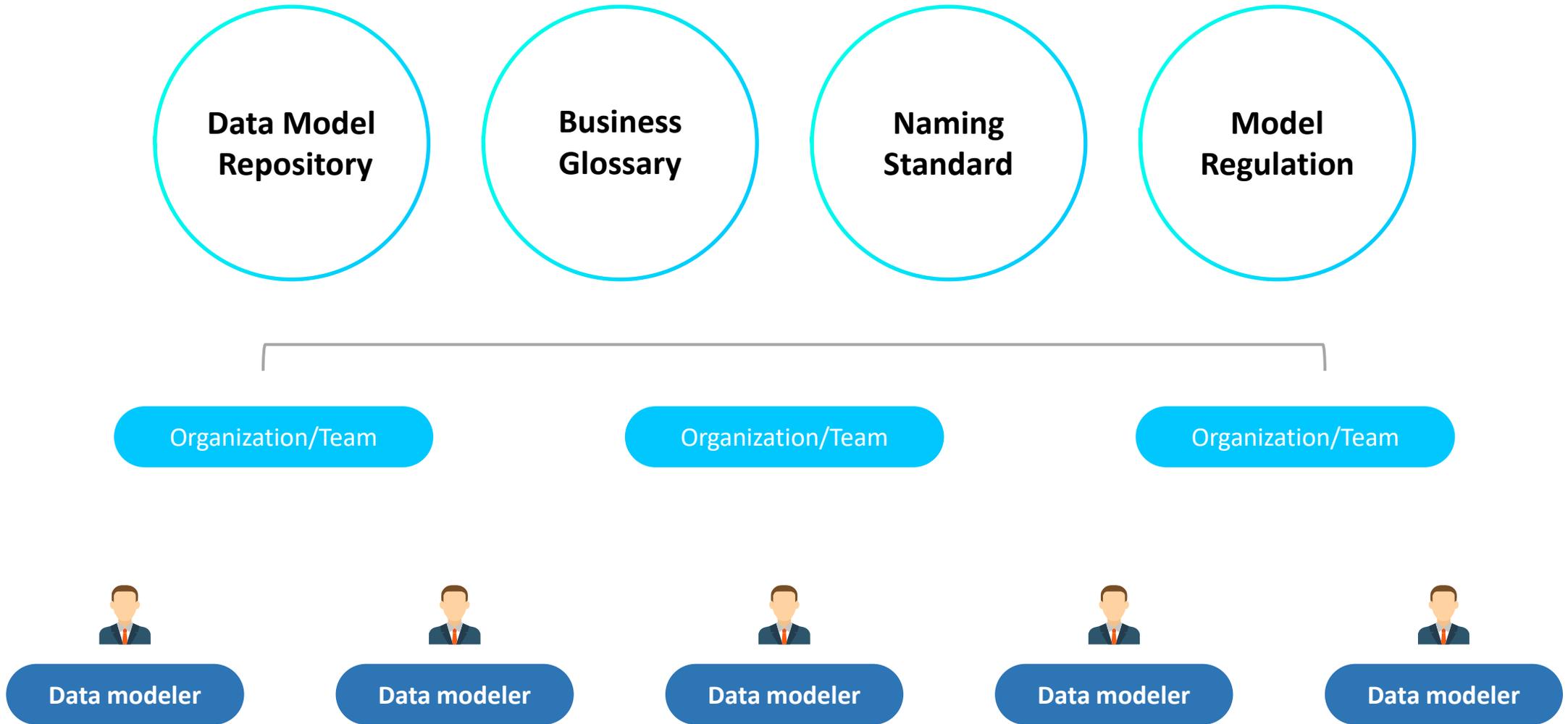
 Accounting

 Customer

 Employee

 Movie





	Organization Community Edition (Free)	Team Community Edition (Free)	Standard Edition	Enterprise Edition	Traditional Data Modeling Tools
DDM Client License	5 team members	Unlimited	✓	✓	✓
Model number	5 models	1 model	✓	✓	✓
Logical Model	✓	✓	✓	✓	✓
RDBMS	✓	✓	✓	✓	✓
NewSQL	✓	✓	✓	✓	✓
Diagramming	✓	✓	✓	✓	✓
Reverse Engineering	✓	✓	✓	✓	✓
Forward Engineering	✓	✓	✓	✓	✓

	Organization Community Edition (Free)	Team Community Edition (Free)	Standard Edition	Enterprise Edition	Traditional Data Modeling Tools
Business Glossary	Pre-defined & Customized	Pre-defined	Pre-defined & Customized	Pre-defined & Customized	
Naming Standard	Pre-defined & Customized	Pre-defined	Pre-defined & Customized	Pre-defined & Customized	
Model Regulation	Pre-defined	Pre-defined	Pre-defined & Customized	Pre-defined & Customized	
Model Repository Collaboration	Cloud-base	Cloud-base	Cloud-base & On-premise	Cloud-base & On-premise	Partially
Cloud Multi-tendency					
Web Diagramming	Cloud-base	Cloud-base	Cloud-base & On-premise	Cloud-base & On-premise	Partially

	Organization Community Edition (Free)	Team Community Edition (Free)	Standard Edition	Enterprise Edition	Traditional Data Modeling Tools
Data Model Branch, Version, Baseline management	Cloud-base	Cloud-base	Cloud-base & On-premise	Cloud-base & On-premise	✘
Proactive impact analyze				✓	✘
Intelligent relationship discovery			✓	✓	✘
Data Model Quality and Review				✓	✘
Integration with SSO				✓	✘
Integration with GitHub				✓	✘
Interface	Fully open web-service interface, based on SpringCloud in Data Model Server.				COM interface, Client base

About Datablau

DATA BLAU

- Established in 2016
- Recognized by Forrester MLDC (Machine Learning Data Catalog) in 2020
- Datablau Data Modeling solution has been adopted by hundreds corporations, include: Finance, Manufacturing, Retail, Energy, Aerospace, Education, etc.
- Obtain four rounds investment, last funding by SEQUOIA capital.

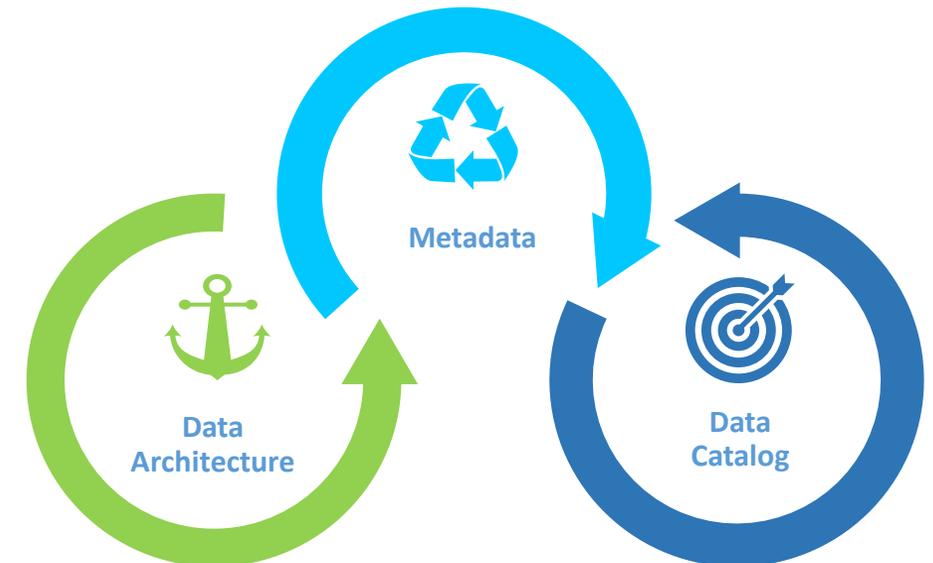


FORRESTER®

Now Tech: Machine Learning Data Catalogs, Q4 2020

Forrester's Overview Of 27 Machine Learning Data Catalog Providers

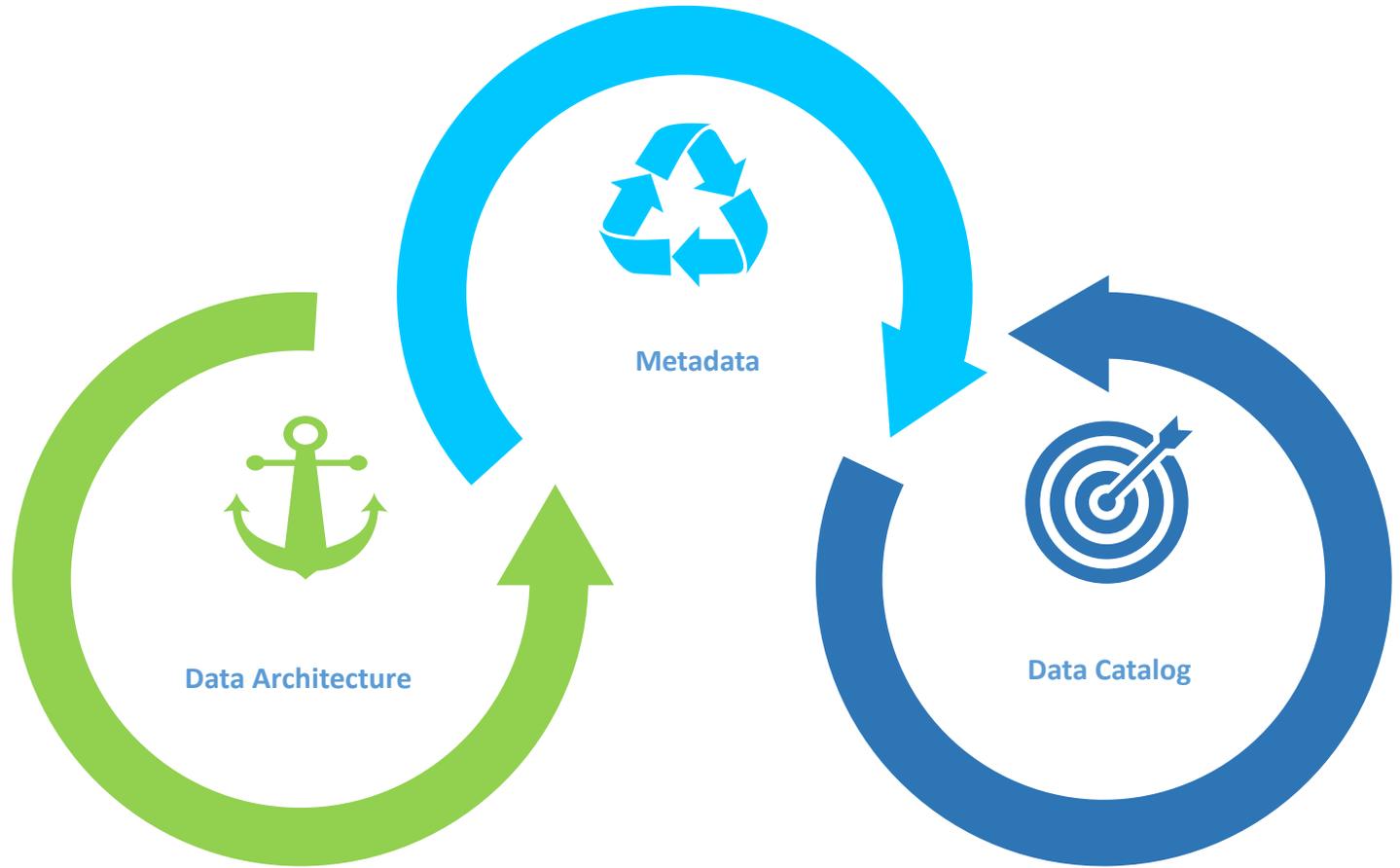
by Michele Goetz
October 20, 2020



From architecture to metadata to data catalog

DATA BLAU

Integrate development, production and service phase into an eco-system



Data Standardization (Data Architecture / Data modeling)



Through data modeling and data model control standardized OLTP

Intelligent data asset inventory (Metadata / Business Glossary / Data Quality / Data Lineage)



Through AI discovery data asset inventory, automatically classification of data asset.

Data consume accessible, business user usability and data service management (Data Catalog)



Unify search portal(data catalog) address trustable data asset, provide data service.

Thanks



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Visit www.datablau.com obtain free DDM Community Edition

Contact sale@datablau.com for Enterprise Edition Trial