



EDMWebinar 

Data Governance Theory vs. Practice

A guide to pragmatic data governance

A conversation with



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**EDM**Council

Hosted by **Mike Meriton**

Co-Founder & COO, EDM Council

- Joined EDM Council full-time 2015 to lead Industry Engagement
- EDM Council Co-Founder & First Chairman (2005-2007)
- EDM Council Finance Board Chair (2007-2015)
- Former CEO GoldenSource (2002-2015)
- Former Executive for D&B Software and Oracle
- FinTech Innovation Lab – Executive Mentor (2011 – Present)



Today's speaker



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Data Governance Theory vs. Practice



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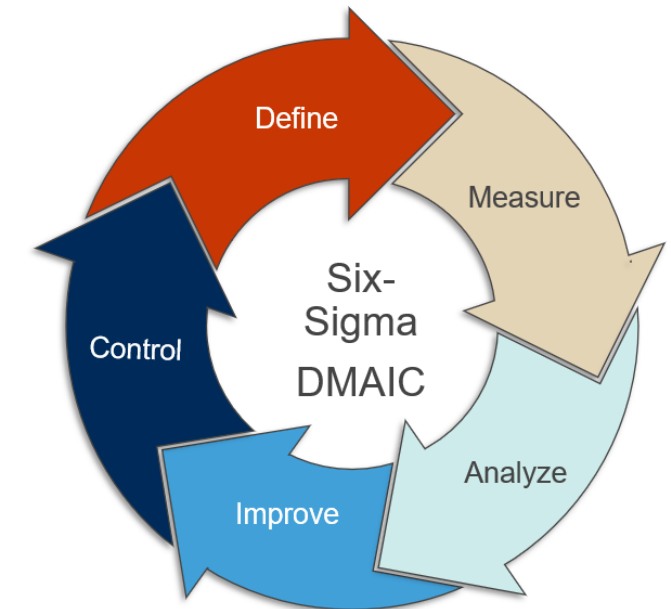
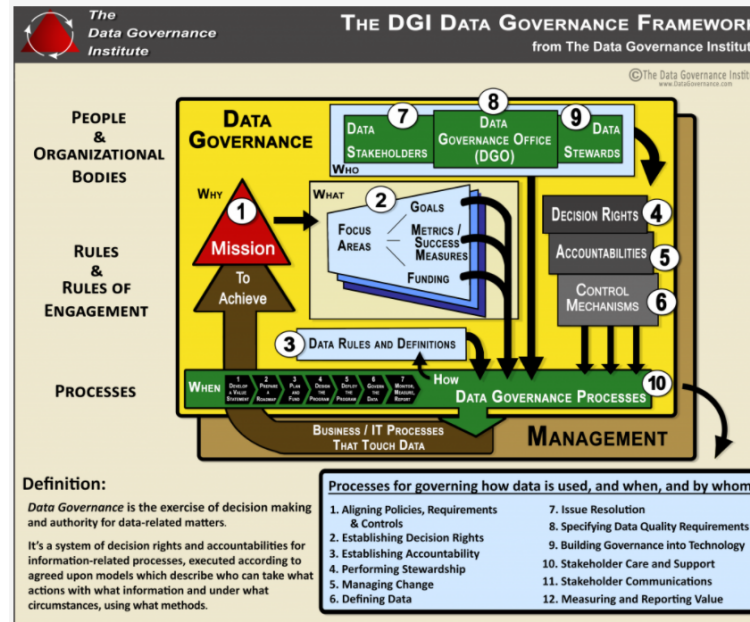
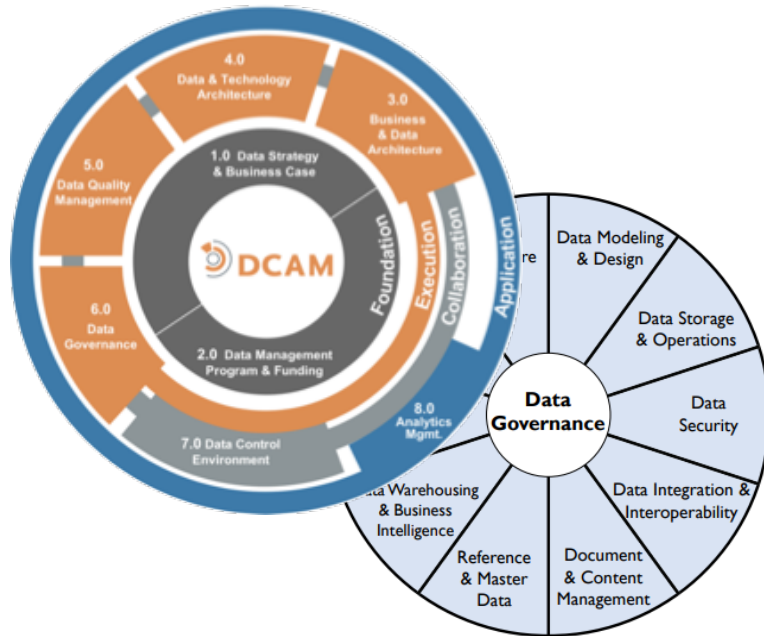
A guide to pragmatic data
governance

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Contents

- What is the current state of Data Governance?
- What does it mean to “govern” the data?
- What are the tactical “first steps” for Data Governance implementation?
- How much governance is enough?
- Who should participate in start-up Data Governance?
- What is the role of technology?
- What are the best practices which will lead to a successful implementation?

Industry Standard Models for Data Governance



Data Management Frameworks



DMBOK2

Data Governance Institute Data Governance Framework

Six-Sigma DMAIC Process

Industry Standard Model Take-aways?

- Frameworks provide strategic value
- Data is a vital enterprise asset
- Data Management is a journey
- Metadata Management is foundational (commitment, planning, definition, management of quality, risk management)
- There are Strategic, Tactical, and Operational components
- Both Business and IT partners participate and have a role to play
- Data Management encompasses multiple technical and non-technical disciplines
 - Data Governance
 - Data Quality
 - Master Data Management
 - Database Management
 - Business Functional Knowledge
 - Business Operational Knowledge



Definition of Governance

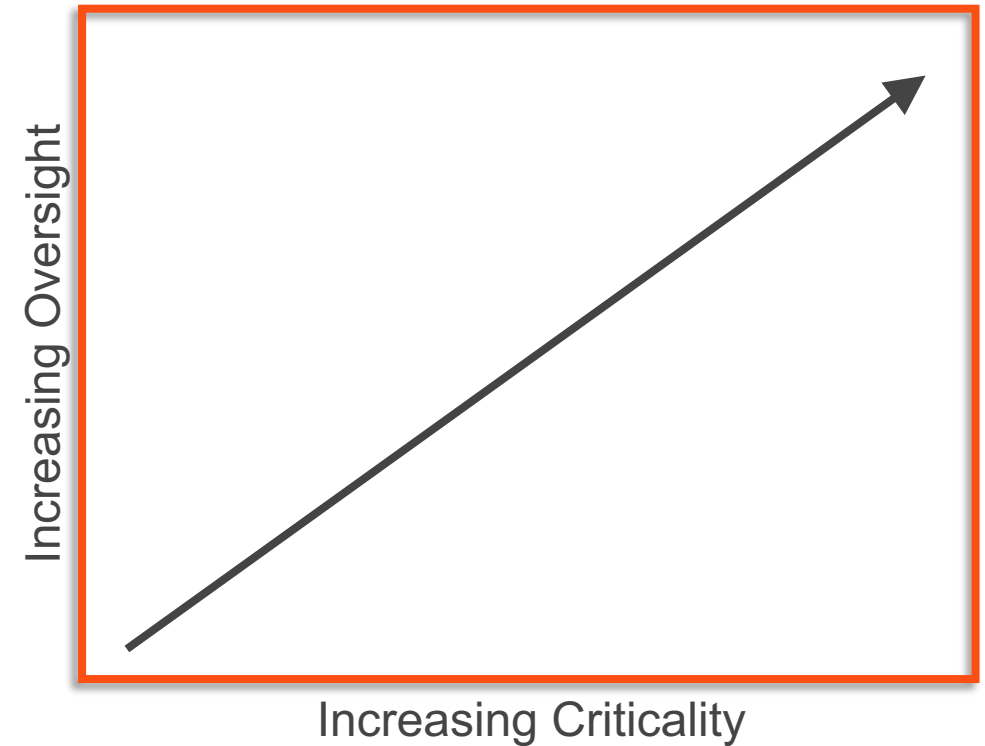
What does it mean to “govern” data?

That depends...

- All data is not of equal value
- More valuable data requires more oversight
 - Greater quality frequency
 - More detailed testing
 - More usage audit
- **Consider:** What is the MVP for each level of data criticality

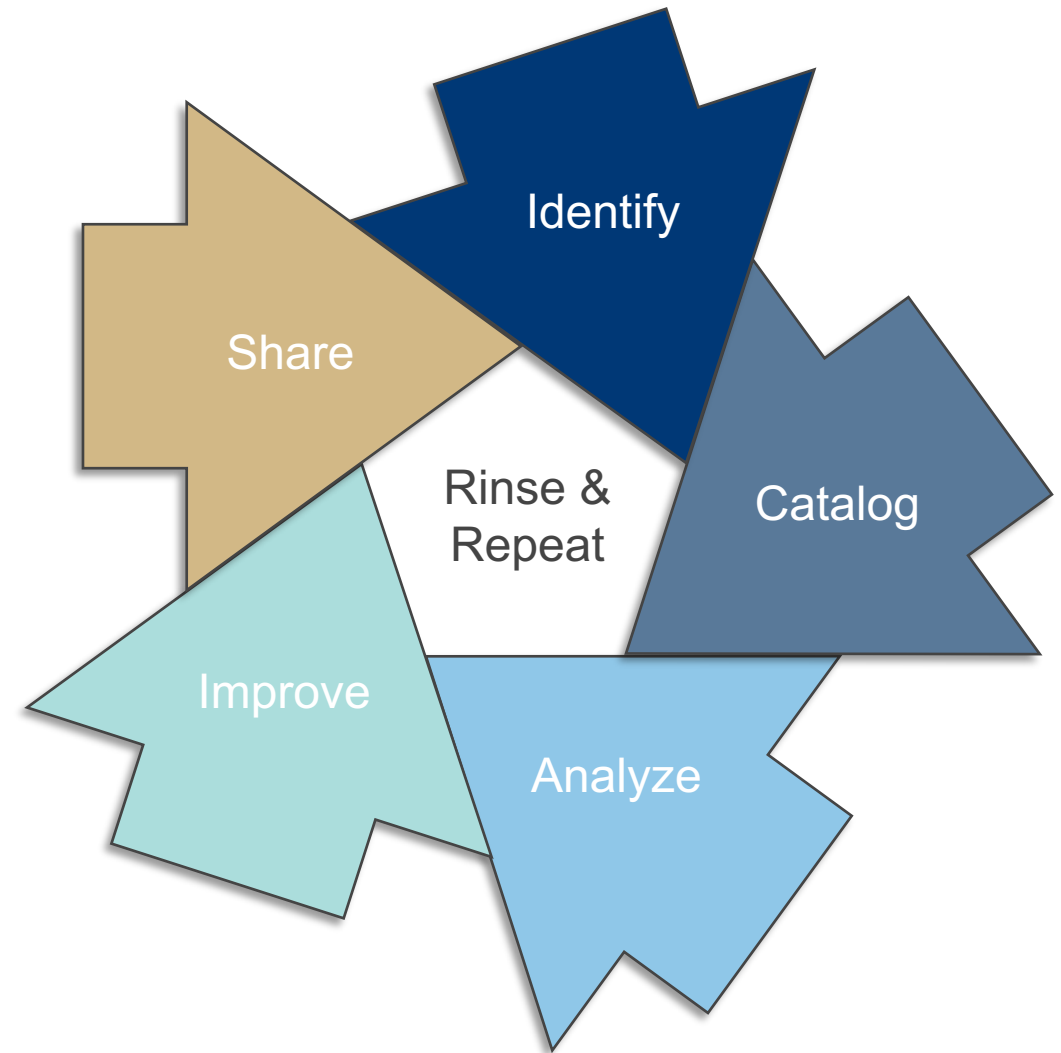
There are both strategic and tactical components to Data Governance

- Governance is Strategic
- Stewardship is tactical



Data Governance Cycle

- **Identify** un-governed data
- **Catalog** tribal knowledge one data element / one data repository at a time
 - Rationalize / harmonize the data into a common vocabulary
- **Analyze** the data for fitness
- *Improve* and fix where necessary
- **Share** results
 - Involve Stakeholders via Change Management
 - Publish the results
- **Rinse and repeat**



What are the tactical “first steps” for Data Governance implementation?

Ready! - Establish Standards

- People
 - Roles / Responsibilities
 - Organizational Structure
- Process
 - Classification Standard
 - Prioritization Scorecard
 - Metadata Standard (MVP)
- Technology
 - Data Dictionary
 - Business Glossary
 - Accelerators

Set! - Scope a “Doable” Project

- Partner with the Business
- Identify a resolvable problem (clear use case / measures of success)
- Scope a critical data assets

Go! - Govern Data

- On-board data
- Measure quality
- Manage / fix issues
- Communicate status and results

How much governance is enough?

- To understand what would be “useful” to users, we need to appreciate that most will have the same basic questions:
 - What is the meaning of the data?
 - Where is the data?
 - Is the data fit-for-purpose
 - How do I get access to the data?
- If we have done our jobs correctly, these questions should be answered by the metadata we collected as part of the MVP model discussed earlier.
- Build enough governance process to get the job done and not be a burden

Data Intelligence People of Interest



C-Suite (CDO, CIO, etc.)

Requires enterprise-wide visibility to limit risk and ensure data is leveraged as a company advantage.



Data Owners

Functional roles across the organization concerned with data usage risks and providing appropriate data access.



Business Data Steward

Responsible for meaning and correct data usage across the enterprise.

Ensures business rules and policies associated with data are in place and understood.



IT Data Steward / Data Custodian

Ensures the data use rules and policies are managed and operationalized within IT.

Manages the actual data per data owner's rules and oversees schema and lineage.



Data Architect

Designs, structures, organizes and maintains data.

Benefits from visibility of a catalog of data assets tied to business context in order to better architect solutions.



Data Analyst

Charged with mapping data assets to establish integrations and lineage. May also facilitate data preparation.

Benefits from automation of mapping tasks and immediate visibility into data details.



Data Engineer / Developer

Builds data platforms, develops data pipelines and delivers development projects.

Benefits from automated code generation to speed project delivery and to focus on higher-value tasks.



GRC, Security/Privacy Architects + Analysts

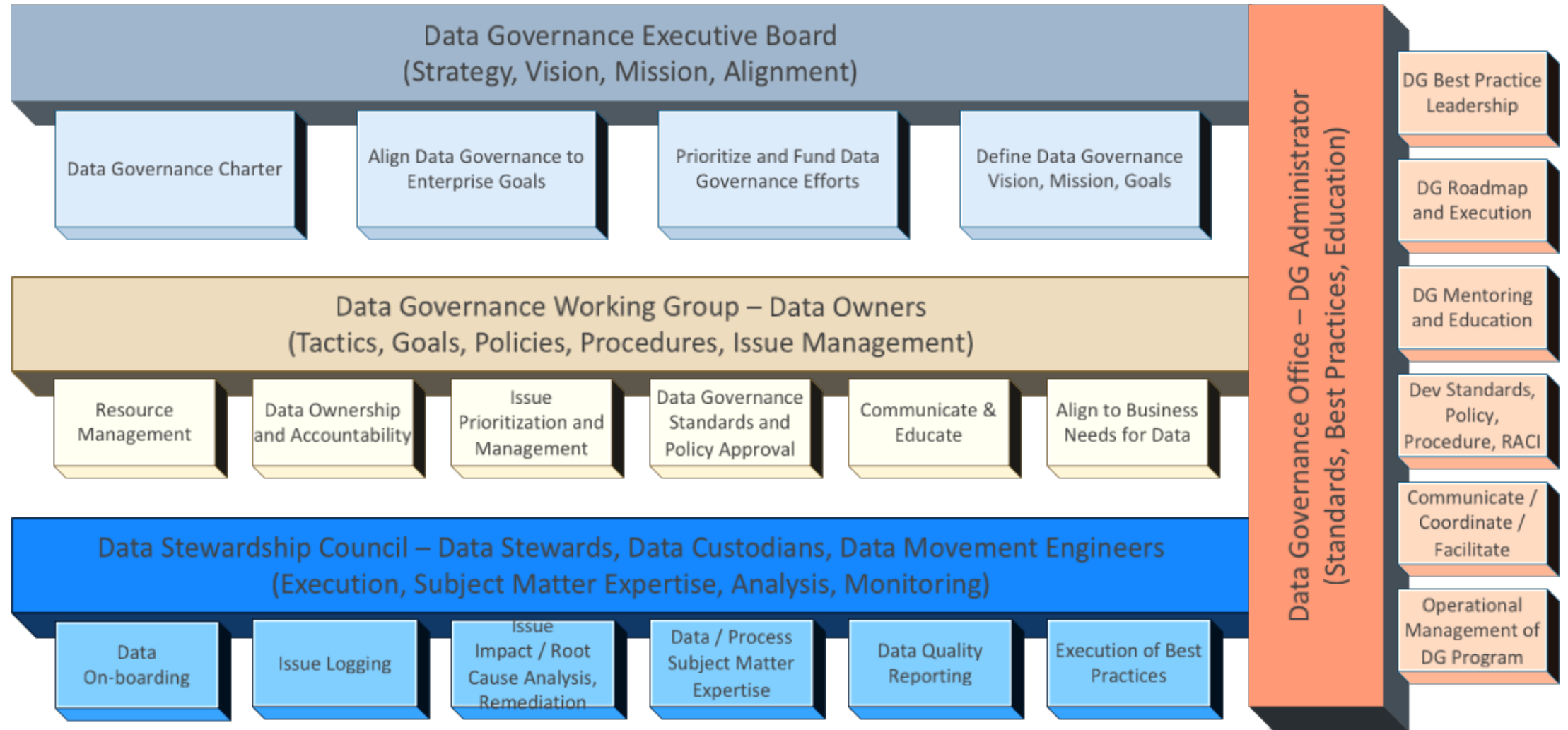
Many in governance, risk and compliance [GRC], data privacy/ and security, and legal roles benefit from data governance providing context of data as they protect and enable the enterprise.



Data Scientists, Business and BI Analysts, etc.

Data consumers across the enterprise that all benefit from greater visibility and access to data, with contextual meaning and usage guidance attached.

DG Operating Model - Organizational Perspective



What is the role of technology?

- Ingestion Automation
 - Data at Rest (databases, flat files, other structured data)
 - Data in Motion (ETL, Python, SQL)
 - Data Models
 - Business Concepts (Business Terms, Business Rules, Policies, Standards)
 - Metadata Enhancement (associations, classifications, accountabilities)
- Lineage / Impact Analysis (source-to-target mapping, transformations, SOR / SOT, Change Management)
- Data Quality (measurement, publication, visualization, trend analysis)
- Search by Characteristic (type, classification, domain, associations)
- Workflow Management (accountability, checks and balances)
- Audit Support

What are the best practices which will lead to a successful implementation?

- Start small – Don't boil the ocean
- Solve problems – Get the win
- Share results
- Learn and mature
- Expand data and metadata scope
- Trust, Transparency, and Discipline

Thank you!



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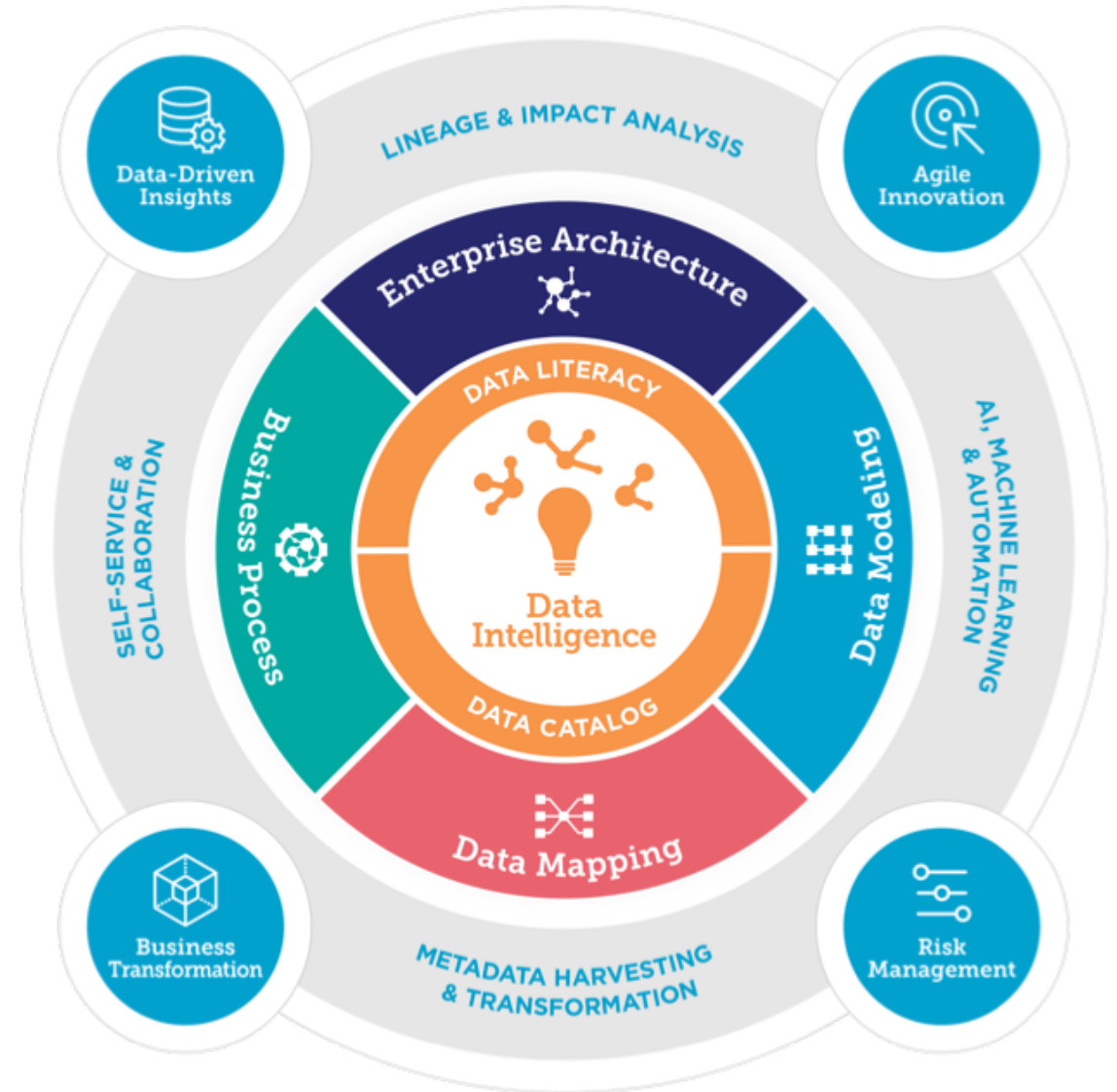
Questions?

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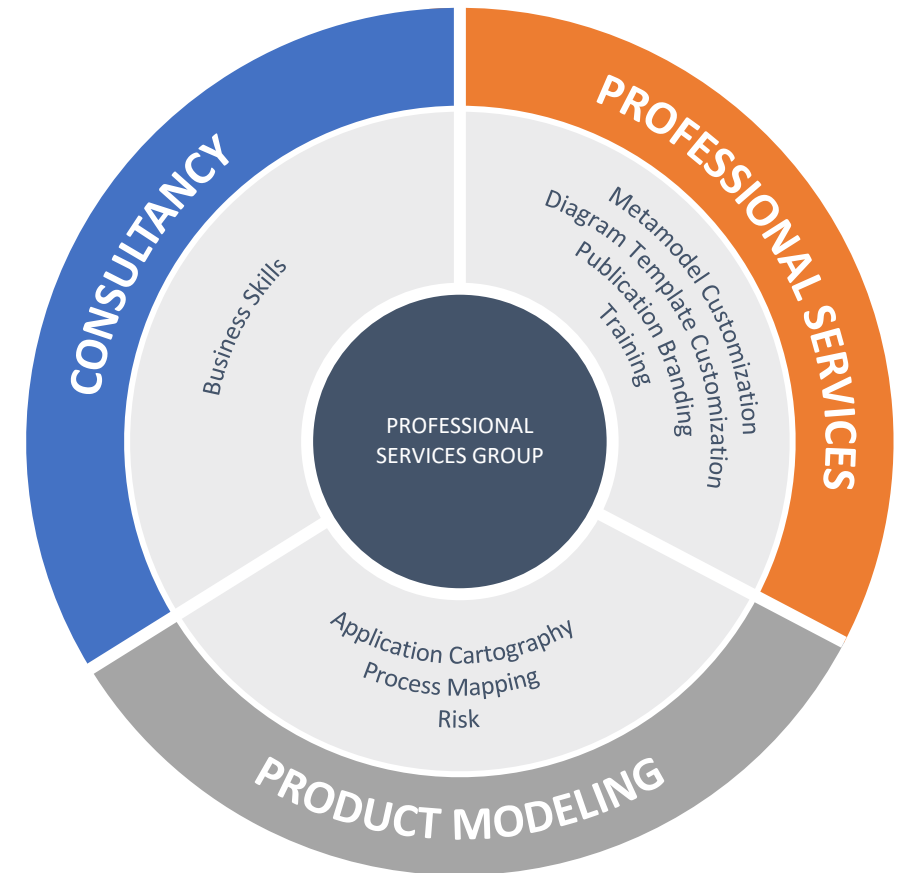
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Engagement Models

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FOR MORE INFORMATION:



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