





EDM Webinar

Extending Data Governance to New Generation Architectures

A conversation with

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Associate Partner - Data & AI
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EDM Council

Moderated 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)

EDMCouncil

Today's panel

Moderator

Mike Meriton
Co-Founder & COO
EDM Council

Goldy Aloysious
Associate Partner - Data & AI
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Kishan Venkat Narasiah
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Poll Question #1

Key challenges that companies face with data management

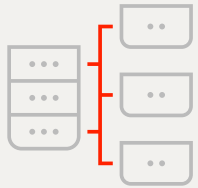
Issues that needs to be analyzed

New generation of data mesh, data fabric architectures and cloud platforms present new challenges in terms of the storage, ingestion, provisioning and consumption of data.

There is a need to ensure consistency in data, proper cataloguing of data, API based data provisioning and ensuring regulatory compliance.

People

- Who has access to what? Who will need to see this information and how will they need to see it?
- Who owns the data? Who is the true authority for modifications?



Process

- Where does the data reside? How is the data distributed across servers or regions or business units?
- Do I have the controls in place to determine policy violations?

Point of view on data governance

Data governance has evolved and changed dramatically, it is more important to adopt a fresh approach that is less rigid and make continuous improvements.

A structured data governance plays a key role in reducing the time spent by data scientists on understanding the data thereby improve the trust in data.

The 3 key imperatives of a successful implementation are:

1. **Demonstrating the business value of a governance program**
2. **Building the right foundation**
3. **Drive adoption and continuous improvement**

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Poll Question #2

Demonstrating the business value of a governance program

The value for any governance program should lead to some tangible benefits that the organization can realize.

1. ***Increase market share*** – Drive revenue growth through accelerated and informed decision making

2. ***Operational effectiveness*** – Minimize data duplication, integration touch points & optimize storage

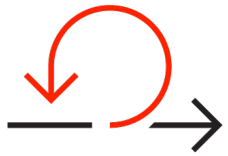
3. ***Manage data privacy & risk*** – Improve compliance, effective management of regulatory, financial, and operational risk

Change the way data governance is perceived – *from **"validation"** to being **"value driven"***

Poll Question #3

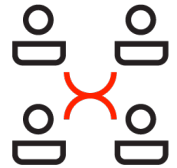
Building the right foundation

The key to designing the right foundation is all about the setting the right approach, process, roles, responsibilities & policies.



Project based approach **–**

- Design & build a business glossary, data catalog, DQ and procedures as a line item that is part of the larger data transformation initiative



Governance as a program –

- Design a full-fledged governance framework including a formal data governance central committee and an enterprise architect consortium supported by individual business units

There is no single “right” way for data governance

Building the right foundation

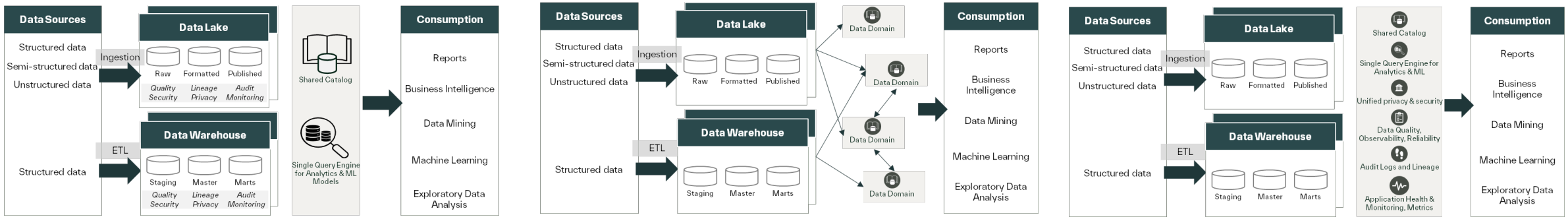
Where should I start a governance programme?

Goals	Key Interventions	Org. form	Typical Roles
Building data trust	Data quality – audit, profile, cleansing and standardization	***Centralized*** - controlled and managed by IT with the help of business	Data owners, technical architect & quality leads.
Enablement of self service	Business glossary, Data catalog, Data lineage	***Distributed*** - supported, controlled & managed by business units	Business owners, data owners, data stewards (per domain), data architect
Data policies & procedures	Data policy definition, data standards and principles	***Centralized*** - central data management team to define business & regulatory rules	Senior stakeholders, data owner, data steward, risk & compliance manager, technical architect
Architecture enhancement & scalability	Architecture enhancement, scalability	***Centralized*** - controlled & managed by the IT	Enterprise architect, data architect, cloud architect
Full fledged DG program	Policies, procedure, automation, data management, security, data quality, master data	***Hybrid*** - central data governance organization supported by Enterprise architect consortium, business units	Senior stakeholders, data owners, business owners, data steward, risk & compliance manager, technical architect

Architectural Patterns

Choosing the data platform architecture depends on business needs, technology solutions in place and organizational maturity

Lakehouse Architecture	Data Mesh Architecture	Data Fabric Architecture



Characteristics

- Multiple data stores are created based on need
- A serving layer is created on top of all data stores and serves as the medium to consume any data

- Domain based models are created based on Product need
- A serving layer is created using microservices architecture into distributed service layer built around business domain capabilities.

- Multiple data stores are created based on need
- A fabric is created on top of all data stores
- The fabric acts as the medium for consumption as well as to manage and govern all data stores

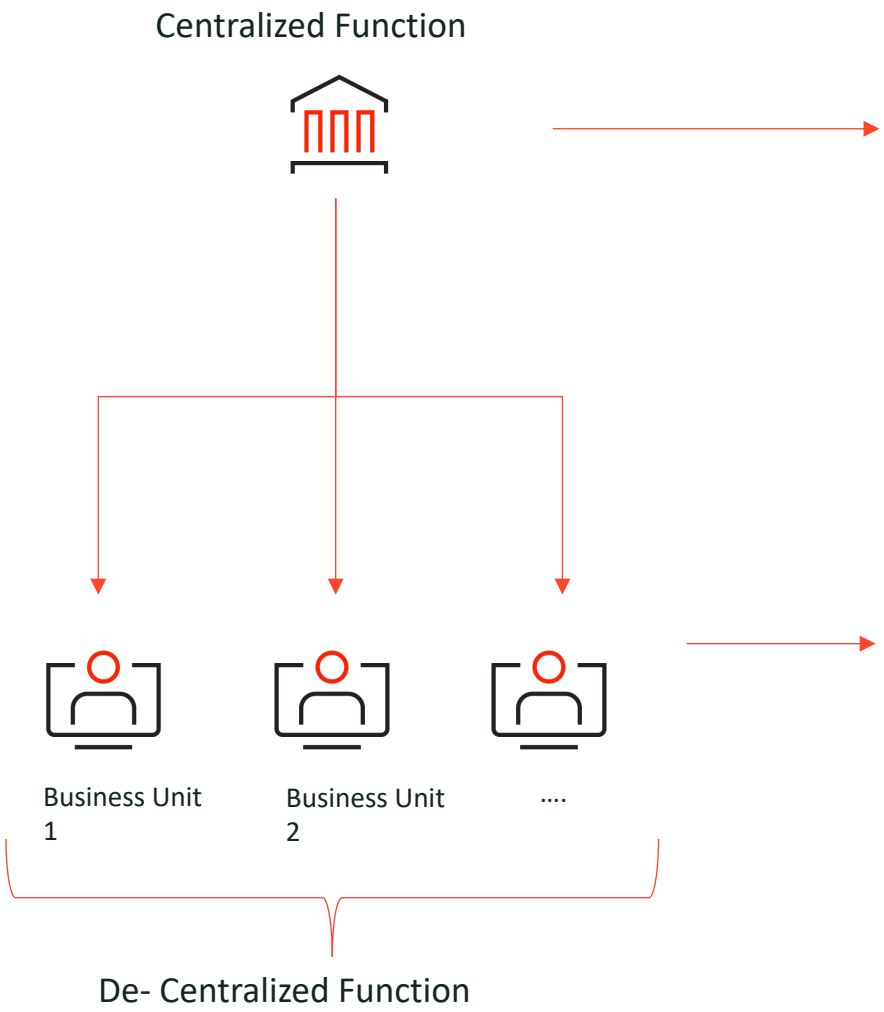
Building the right foundation

Governance approach across various architecture

Key Activities	Data Lakehouse	Data Mesh	Data Fabric
Data governance approach	• Bottom up	• Top down	• Bottom up
Management	• Centralized	• Hybrid	• Centralized
Responsibility	• Unified analytics	• Centralized policies • Domains responsible for quality, lineage	• Complete governance managed by central governance team
Capability	• Process based	• Domain based	• Tool based
Pros	• Centrally governed & controlled • Risk & compliance driven	• Autonomy • Data trust • Data privacy management	• Automate governance, data protection, and security • Self service integration
Cons	• Adaptability to change • Disconnected between IT & business	• Needs a culture change • Interoperability between business units	• Depended on AI • Need proper metadata

Building the right foundation

Some of the key activities that are expected in a Hybrid model



1. **Approves** budget, vision & supports the data governance steering committee
2. **Sponsoring & overseeing** strategic initiatives towards step-by-step management of enterprise business data
3. **Defining** & communicating best practices across the organization regarding the policies & procedures**,** tracking the usage of the defined policies
4. **Design global standards,** template for interoperability, domain API specifications, schemas, member, permissions etc.

1. **Responsible** for daily data related activities, security, business rules, data quality etc.
2. **Represents** functional areas used within the data systems
3. **Data accountability**-- responsible for correcting data entry errors
4. **Identification** of new business practices to data management council prior to implementation

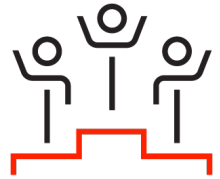
Poll Question #4

Drive adoption and continuous improvement

One important factor for any governance program is adoption of the program across the organization and to measure the business value of data governance.

Data governance guild:

- The guilds facilitate sharing of best practices & skills, support data-driven innovation, drive data literacy and promote data-driven culture across the group



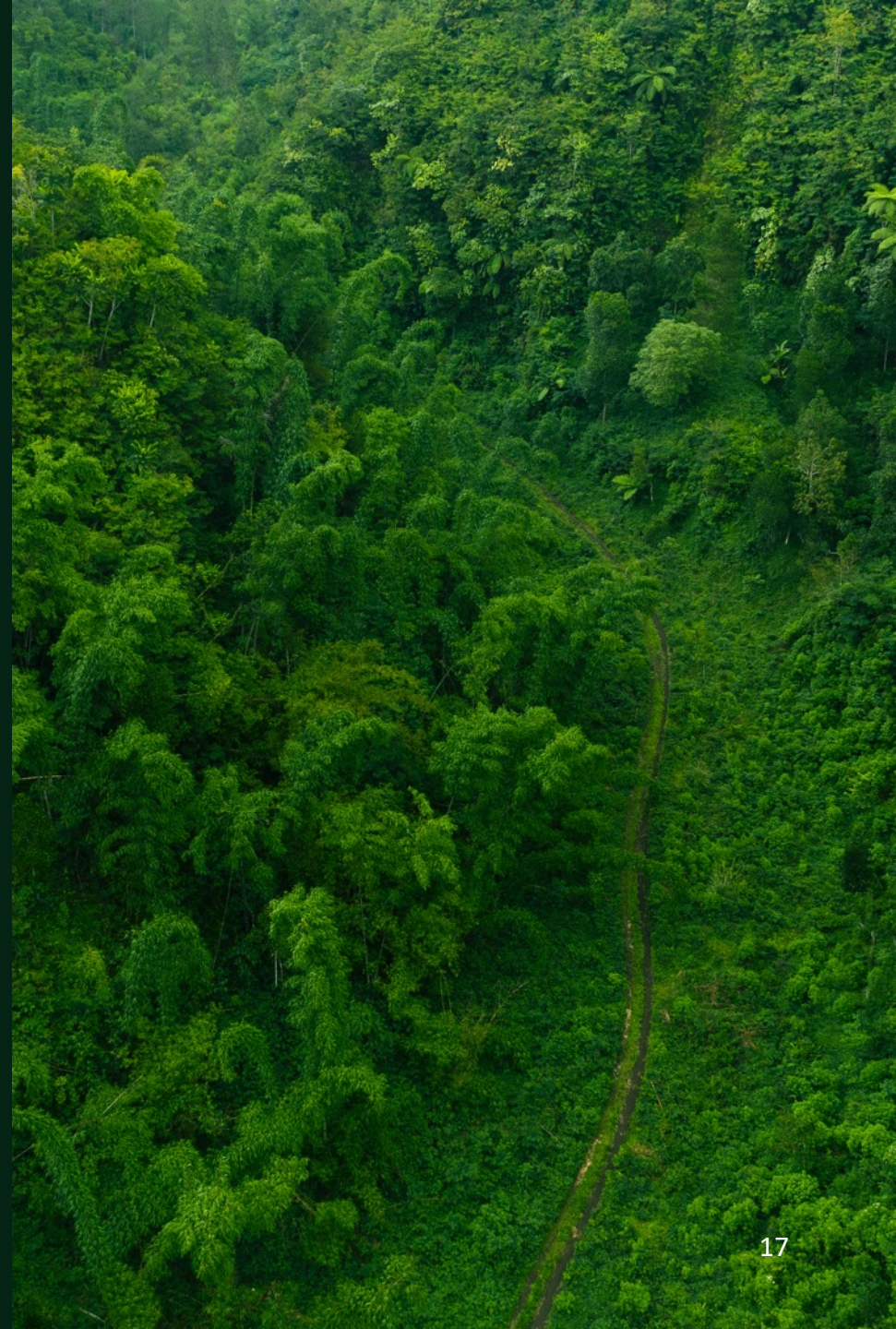
Metrics:

- Monitor and review data governance implementations refine and re-align the processes based on the results
  - Reduction in person-hours spent on data analysis
  - Time to market
  - Data governance adoption rate
  - Financial impact of data sources due to data quality

Continuous monitoring & measurement is key to drive value from a governance program

Summary

1. Demonstrating the business value of a governance program
2. Building the right foundation
    1. Identify the data governance scenarios
    2. Establish global hybrid data governance guidelines that encourage teams to produce and deliver high-quality data in a standardized and reliable format
    3. Automate the process using the right set of tools
3. Drive adoption and continuous improvement
    1. Increasing agility with decentralized data operations and a self-service



Questions?

Kyndryl at-a-glance

Recognized Industry Leader

Leader: MarketScape: Worldwide Datacenter Transformation Consulting and Integration Services for Applications and Infrastructure Vendor Assessment

2Q 2020

Winner: Top 10: Hyperscaler Cloud Service Providers

Q1 2021

Leader: 2021 Aware (Intelligent) IT Infrastructure Services Automation PEAK Matrix Assessment

Q4 2020

Our Services

Cloud
Delivering seamless, integrated, multicloud management in a hybrid model

Core Enterprise & zCloud
Providing secure, unified and fault-tolerant mainframe services for our customers' core infrastructure

Digital Workplace
Enhances user experience and work location flexibility by providing a consumer experience to employees

Application, Data & AI
Providing full application platform hosting and expert assistance for application modernization

Network & Edge
Provides unified Network Services for cloud and data center connectivity

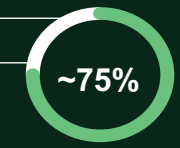
Security & Resiliency
Providing full application platform hosting and expert assistance for application modernization

Our Customers

We work in partnership with thousands of customers, dedicated to ensuring that each achieves its peak digital performance

>4,000 global customers

Including



of the Fortune 100; more than half of the Fortune 500

We manage vital environments in critical industries

45% of passenger cars made by our customers

61% of assets under management at top 50 banks managed by our customers

50% of the total industry's hypermarket sales

49% of mobile connections managed by our customers

Kyndryl advances the vital systems that power progress

kyndryl

30+ years of designing, building and managing mission-critical IT environments for our customers

Our people:

90,000
Skilled professionals

247,000
Skills badges earned, including:

- 61,000 in cloud
- 43,000 in agile
- 43,000 in analytics
- 42,000 in AI
- 38,000 in Design Thinking

31,000
Vendor-recognized certifications in Microsoft Azure, VMware, Cisco, Red Hat, AWS and more

2.9M
Hours of training in first half 2021

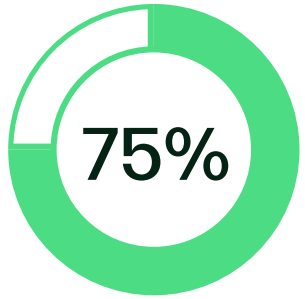
Powering mission-critical technology systems across essential industries

- **5/5** top airlines by revenue passenger miles (RPM)
- **45%** of passenger cars made by our customers
- **61%** of assets under management by the top 50 banks managed by our customers
- **4/5** largest retailers
- **49%** of mobile connections managed by our customers

*2019 numbers

Empowering thousands of customers

4,000
Global customers, including:



…of the Fortune 100 and more than half of the Fortune 500

Providing undisputed leadership

- **6.1M** mainframe installed MIPS
- **270K** network devices managed
- **5,200+** WAN devices managed
- **3.5M** LAN ports managed
- **67K+** VMware systems managed
- **14K+** SAP instances managed
- **3.5+** exabytes of customer data backed up annually

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What's Next?

Schedule a consultation with our experts

- Connect with our experts for a consultation
- Visit our website
- Visit our solution brief
- Reach out to:

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