

EY Data Mesh

Unifying business areas to empower self-service and data connectivity at scale



Business drivers

- ▶ Organizations today need data to meet the needs of specific business domains while linking it together through data sharing and governance capabilities.
- ▶ However, as data becomes ever more ubiquitous, traditional architectures of data warehouses and data lakes become overwhelmed and are unable to scale efficiently.
- ▶ Current data challenges within the market include difficulty sharing, discovering, trusting and managing data within the organization, leading to a need for improved data management.
- ▶ Businesses are facing operating budget losses due to poor data quality, duplicated data and lost data reported. Additionally, employees are unable to communicate effectively on analytics and this causes siloed data from being utilized.

Solution overview

- ▶ EY Data Mesh is a dynamic technological solution that seeks to connect data throughout an enterprise to allow businesses to better exploit the data they already have, all while facilitating it at scale.
- ▶ Increased data availability and flexibility helps businesses operate smoothly in the fashion they see fit.
- ▶ EY Data Mesh is flexible and adaptable such that it can be implemented in any industry and for any data quantity and type.

Solution benefits

- ▶ Helps drive enhanced insight creation due to the availability of data products as all organizational areas are now able to leverage the data.
- ▶ Facilitates maintaining data quality and organizational data access with federated data governance.
- ▶ Allows scaling capabilities, making it easier to maintain and build data products that require dynamic technical considerations.
- ▶ Prepares and serves data for specialized business purposes using an expansive tech selection both within domains and across the organization.

Data governance plane

- ▶ Addresses security policies, data quality, and discovery capabilities for the organization.
- ▶ Helps find data that is reliable, secure and easily searchable for all business use cases.

Data domain plane

- ▶ Helps business units operate autonomously while taking advantage of the organizational standards in the governance and infrastructure planes.
- ▶ Drives fit-for-experience use cases, data product creation and sharing across the organization, and customizes tech selection to each business unit's needs.

Addressing data centricity challenges with EY Data Mesh

Data infrastructure plane

- ▶ Houses responsibility for polyglot storage, networking, CI/CD, access control through technical services and standardized deployments for domains.

Data sharing and user experience

- ▶ Facilitates novel data use cases and user experiences across enterprise.

Joint value proposition

Joining together Microsoft's seamlessly integrated cloud capabilities with the business transformation experience of EY:

- ▶ Helps deliver client-tailored solutions that are designed specifically for each individual client's use cases and users
- ▶ Delivers industry-best solutions with the most current and technologically advanced capabilities Microsoft has to offer

Solution differentiators

- ▶ Easy access to all data throughout the organization.
- ▶ Data is organized into domains that are aligned to business areas with owners in those areas who know it best.
- ▶ Centralized governance capabilities applied across the domains to uphold data quality, trust in data and reliability across the business.
- ▶ Domain-owned architectures support teams to scale at their own pace rather than relying on centralized IT teams.
- ▶ Fit-for-purpose serving of data both within a domain and to share data across domains, which enriches user experiences and expands data usage.
- ▶ Focus on data availability, discoverability and sharing drives new use cases and new value for the organization.

Case study

The client, a Big-Four Australian bank that undertook data management benchmarking with a leading international body.

Client challenge	Engagement summary	Value delivered
<p>The results uncovered the need to uplift the client's data architecture, specifically about how data is collected, connected, used and reused. This was essential to achieve strategic aspirations and deliver better customer experiences and financial returns. Additionally, the client was also struggling with:</p> <ul style="list-style-type: none">▶ Inability to cope with intense regulatory pressure▶ Limited data lineage and poor data quality▶ Low trust and lack of complete process ownership▶ Incapacity to resolve point problems with point solutions	<p>The EY team, together with the client's enterprise data and technology teams, developed a plan for a modern data architecture that leverages existing assets and frameworks, and incorporates a domain-based operating model. The data architecture focuses on four key areas:</p> <ul style="list-style-type: none">▶ Giving business domains responsibility for producing data sets/products such as a customer profile▶ Making these data products automatically shareable via a self-service data marketplace▶ Using existing data assets for sharing, accessing and visualizing data to improve efficiency and reduce costs▶ Governing the execution of this new data architecture with a dedicated transformation office to help only high-business-value projects proceed further	<ul style="list-style-type: none">▶ Providing competitive advantage over industry peers▶ Allowing simplification of the application landscape to resolve system siloes and reduce operational costs▶ Helping with defined ownership of data to drive greater consistency and management▶ Facilitating cost-cutting by 20% while highly reducing the complexity of work▶ Bringing data and technology to business users with easy-to-use-and-share capabilities▶ Improving customer experience through accessible data▶ Facilitating faster end-to-end automation with a single source of data that is interoperable across all applications▶ Allowing teams to focus solely on producing insights and outcomes

Contacts

EY



Luke Pritchard
Executive Director,
Ernst & Young LLP
Phone: +1 704 331 0301
luke.pritchard@ey.com

Microsoft



Jodi Lustgarten
Microsoft Alliance Director
Microsoft Corporation
jodise@microsoft.com

EY and Microsoft: Work Better. Achieve More.

Every day, throughout the world, businesses, governments and capital markets rely on EY business ingenuity and the power of Microsoft technology to solve the most challenging global issues.

EY and Microsoft bring a compelling formula to spark the potential of the cloud and unlock the power of data. We solve our clients' most challenging issues by blending trusted industry expertise with innovative cloud technology. Our strategic relationship draws on decades of success in developing visionary solutions that provide lasting value.

Together, we empower organizations to create exceptional experiences that help the world work better and achieve more.

For more information, visit: ey.com/Microsoft.

EY | Building a better working world

EY exists to build a better working world, helping to create long-term value for clients, people and society, and build trust in the capital markets.

Enabled by data and technology, diverse EY teams in over 150 countries provide trust through assurance and help clients grow, transform and operate.

Working across assurance, consulting, law, strategy, tax and transactions, EY teams ask better questions to find new answers for the complex issues facing our world today.



EY refers to the global organization, and may refer to one or more, of the member firms of Ernst & Young Global Limited, each of which is a separate legal entity. Ernst & Young Global Limited, a UK company limited by guarantee, does not provide services to clients. Information about how EY collects and uses personal data, and a description of the rights individuals have under data protection legislation are available via ey.com/privacy. EY member firms do not practice law where prohibited by local laws. For more information about our organization, please visit ey.com.

© 2023 EYGM Limited.

All Rights Reserved.

EYG no. 010193-23Gbl

ED None.

This material has been prepared for general informational purposes only and is not intended to be relied upon as accounting, tax, legal or other professional advice. Please refer to your advisors for specific advice.

ey.com