

TOGAF & Co

Microsoft Purviews Metamodel in Context

20.07.2023

Topics

- 1. Purview basics
- 2. Data Governance
- 3. The meta model
- 4. TOGAF & Co
- 5. Wrap Up



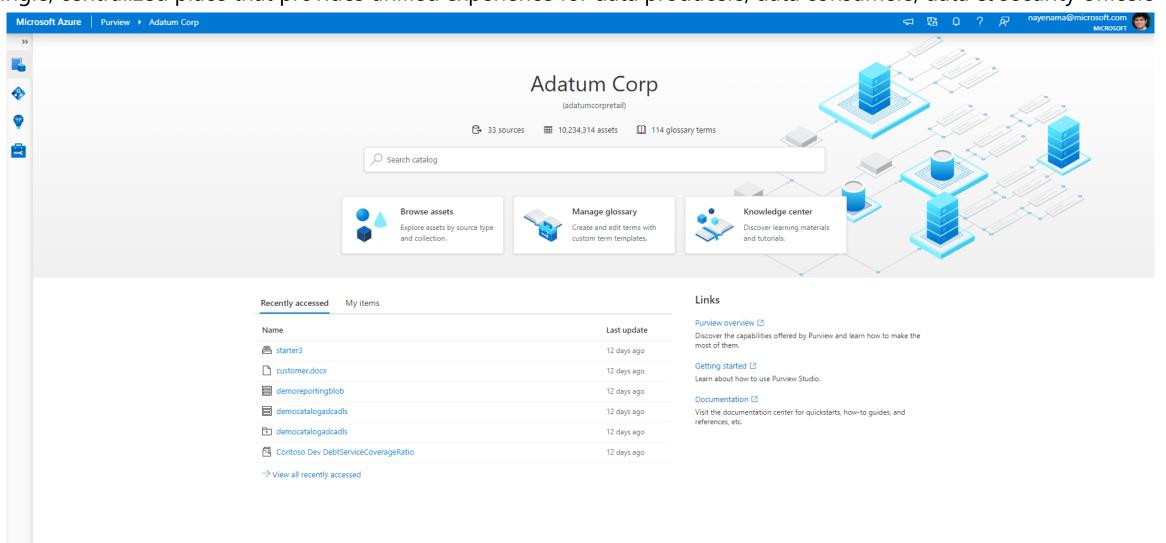
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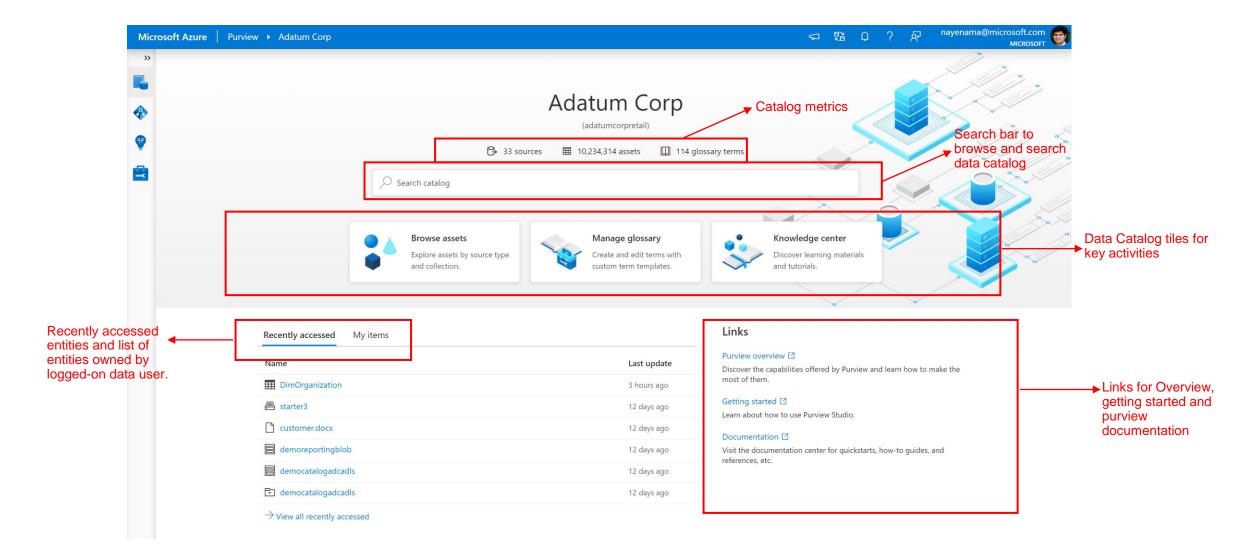
Purview Studio: "Google your data estate"

A single, centralized place that provides unified experience for data producers, data consumers, data & security officers



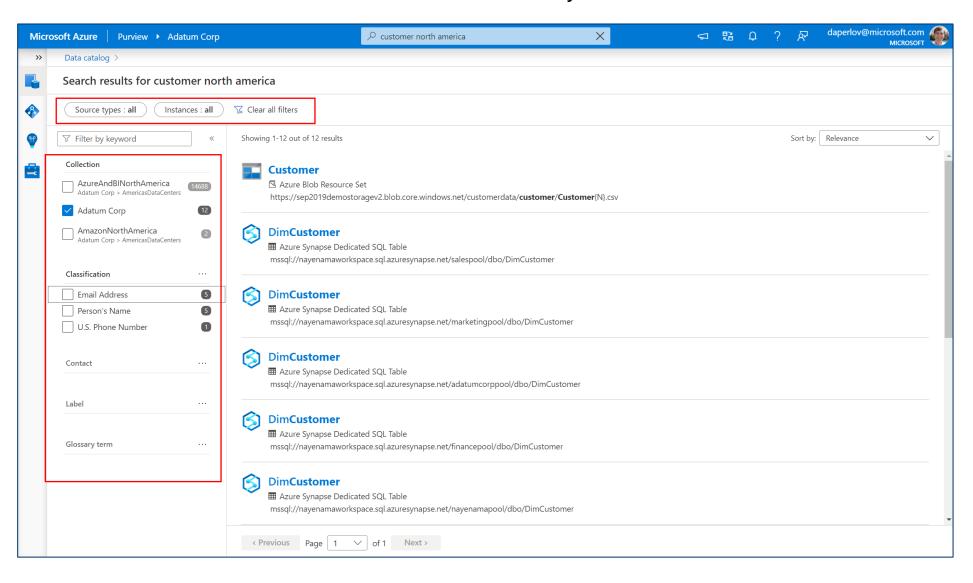
Data Catalog Page

All Data Catalog related activities



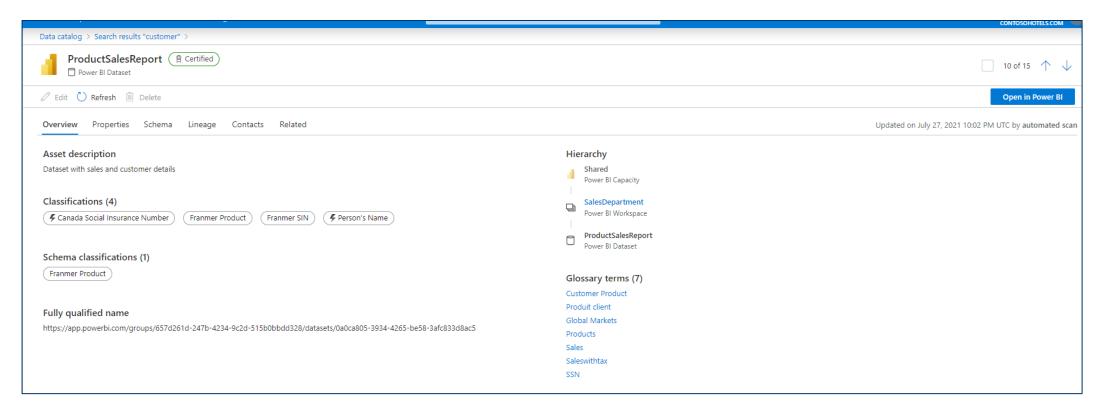
Browse & Search

Use facets and filters based on asset metadata to narrow down your search results



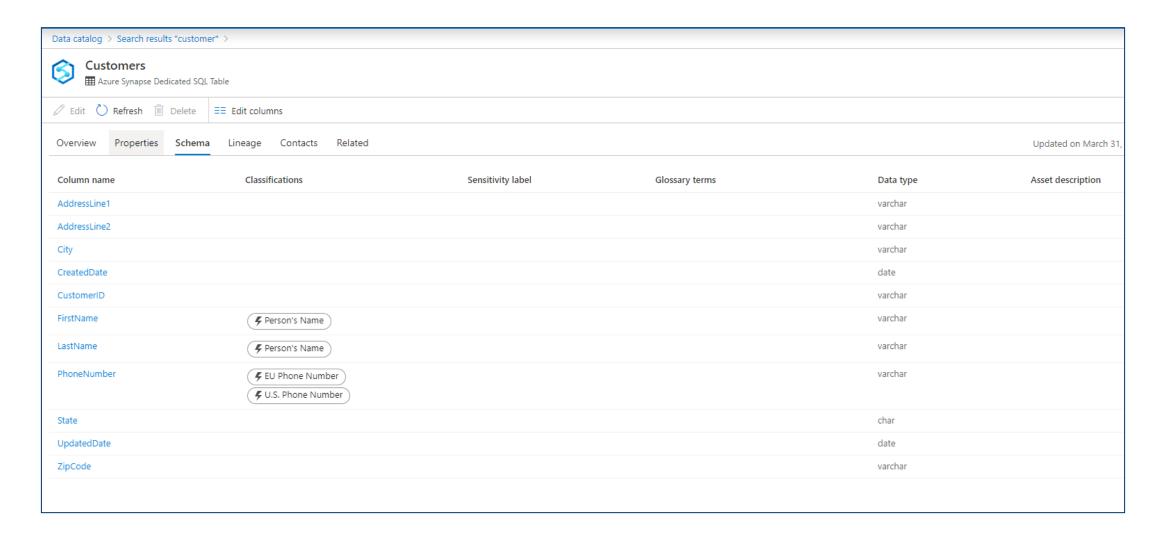
Asset Overview

Discover technical, semantic and business information about an asset including applied classifications, associated glossary terms, sensitivity labels, and endorsement labels



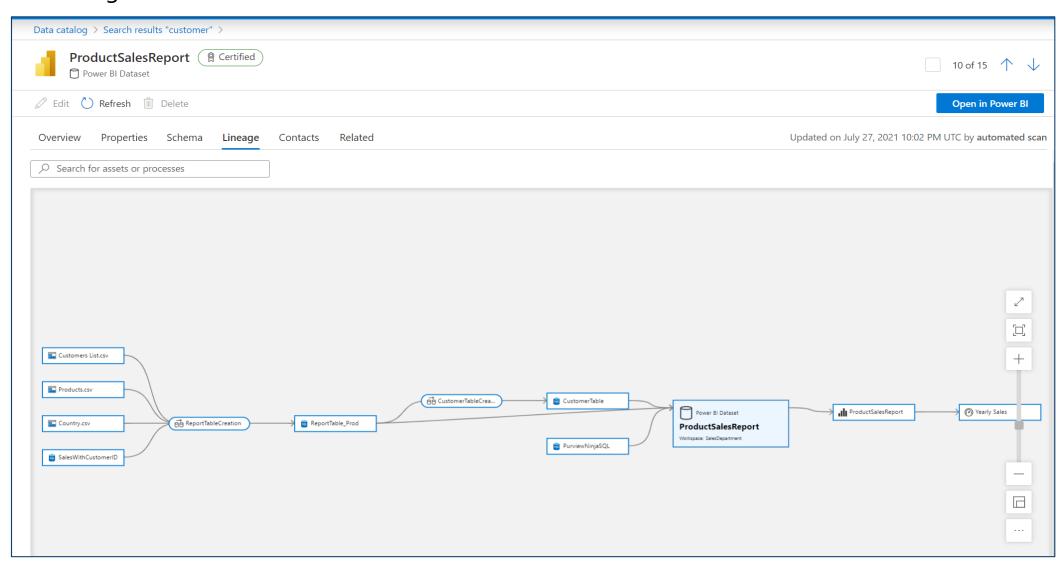
Asset Schema

See an assets schema and the metadata associated with each column



Asset Lineage

Trace lineage of data assets across the data estate

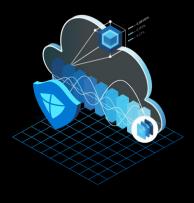


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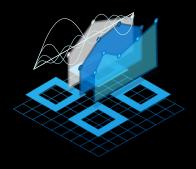
Microsoft Purview enables unified data governance



Reimagine data governance in the cloud



Set the foundation for effective data governance

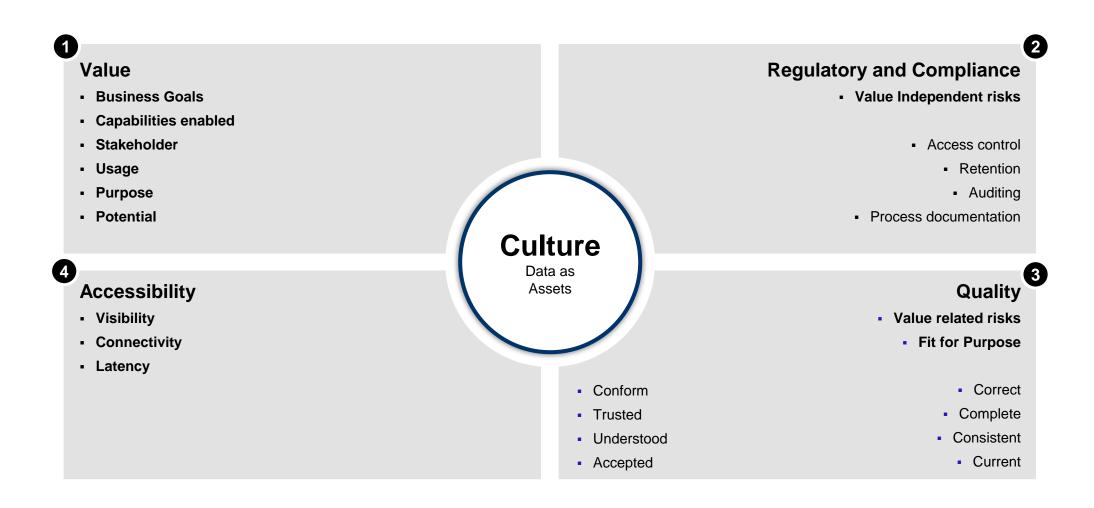


Maximize business value of data for data consumers

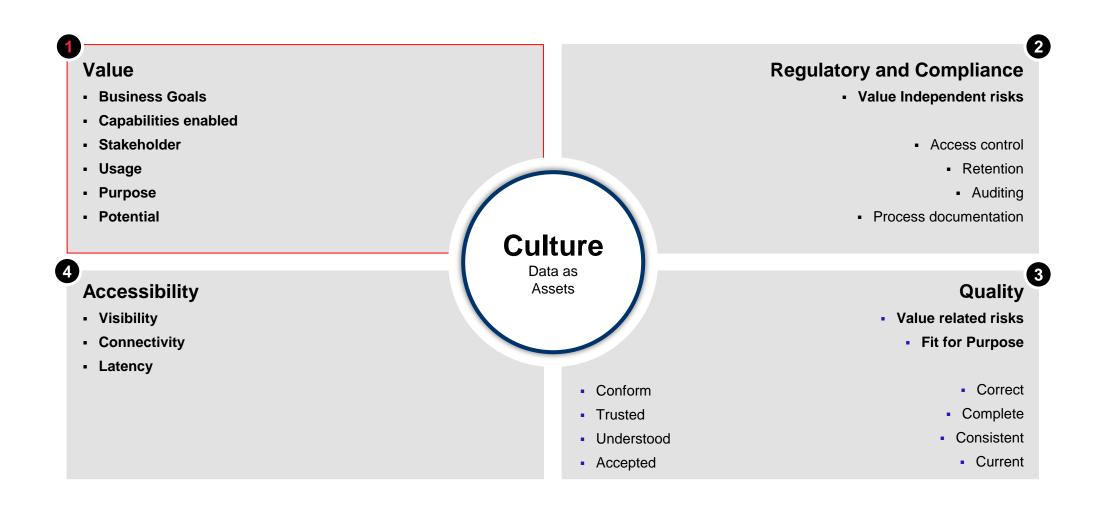


Gain strategic insight into data use across the estate

The core of Data Governance



The core of Data Governance



Capabilities needed

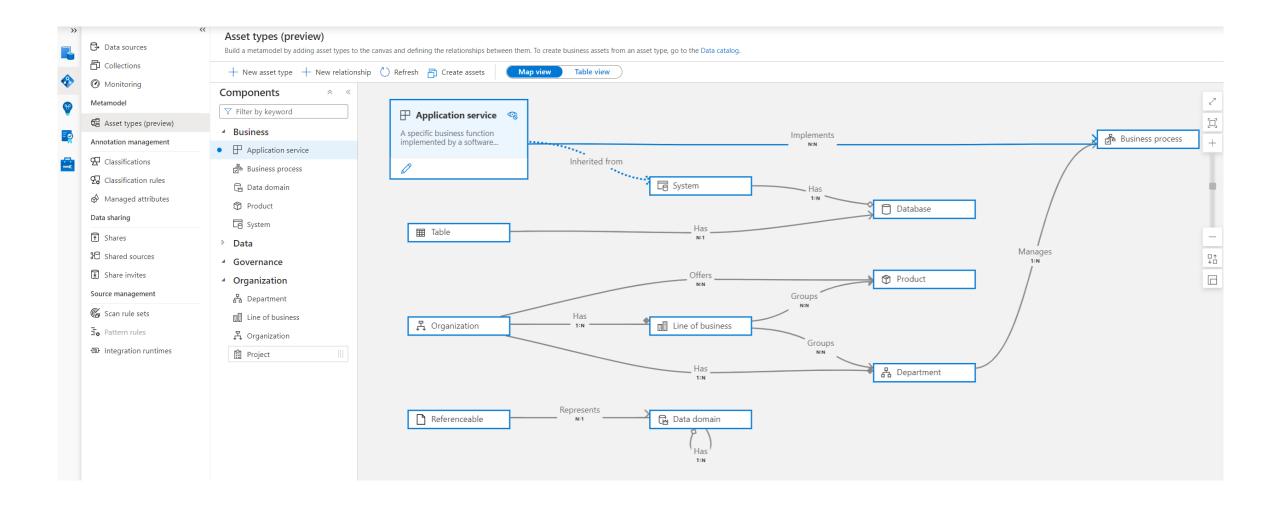
- 1. Map data assets/processes and business entities/processes
- 2. Know your business goals
- 3. Know the business capabilities needed/missing
- 4. Understand how technical capabilities enable business capabilities

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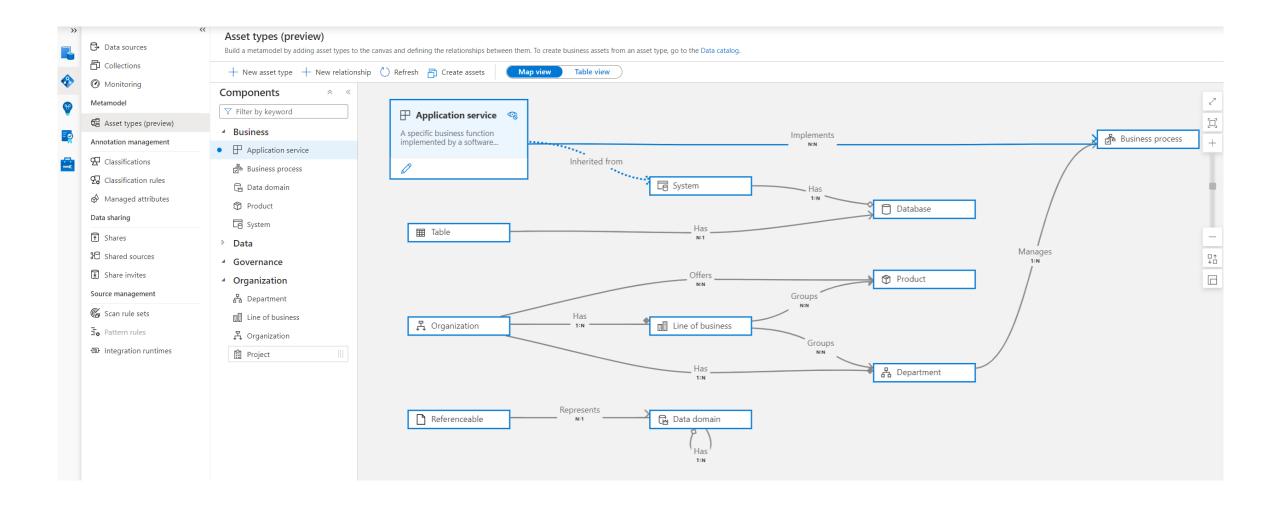
New Asset Types



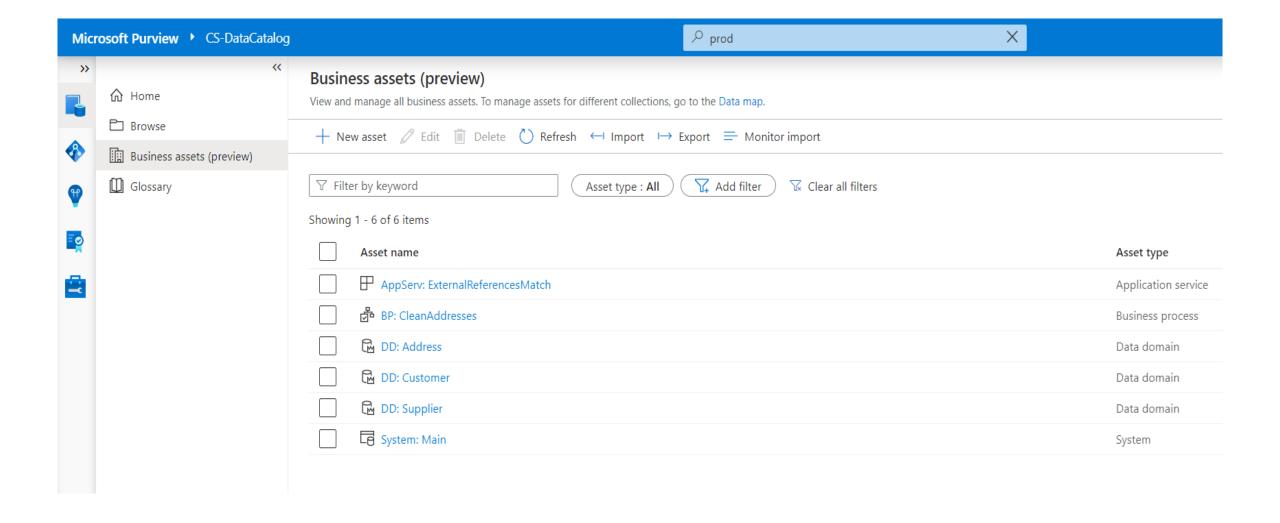
New Asset Types

Asset Type	Description
Application service	A well-defined software component, especially one that implements a specific business function such as on-boarding a new customer, taking an order, or sending an invoice.
Business process	A set of activities that are performed in coordination in an organizational or technical environment that jointly realizes a business goal.
Data Domain	A category of data that is governed or explicitly managed for master data management.
Department	An organizational subunit that only has full recognition within the context of that organization. A department wouldn't be regarded as a legal entity in its own right.
Line of business	An organization subdivision focused on a single product or family of products.
Organization	A collection of people organized together into a community or other social, commercial or political structure. The group has some common purpose or reason for existence that goes beyond the set of people belonging to it and can act as a unit. Organizations are often decomposable into hierarchical structures.
Product	Any offered product or service.
Project	A specific activity used to control the use of resources and associated costs so they're used appropriately in order to successfully achieve the project's goals, such as building a new capability or improving an existing capability.
System	An IT system including hardware and software.

New Asset Types



New Assets creation



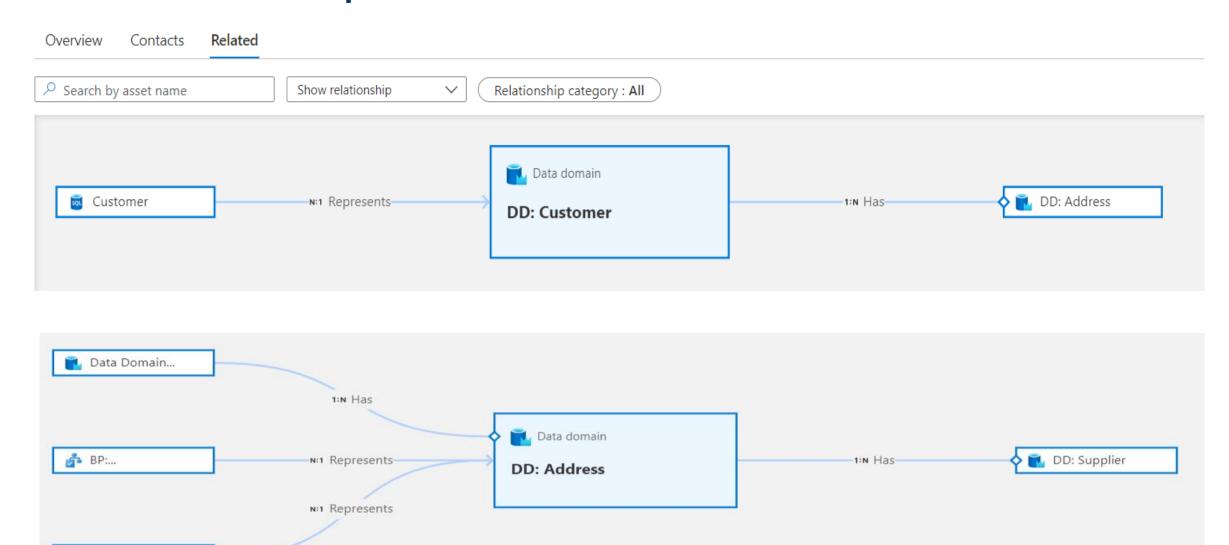


Limitations

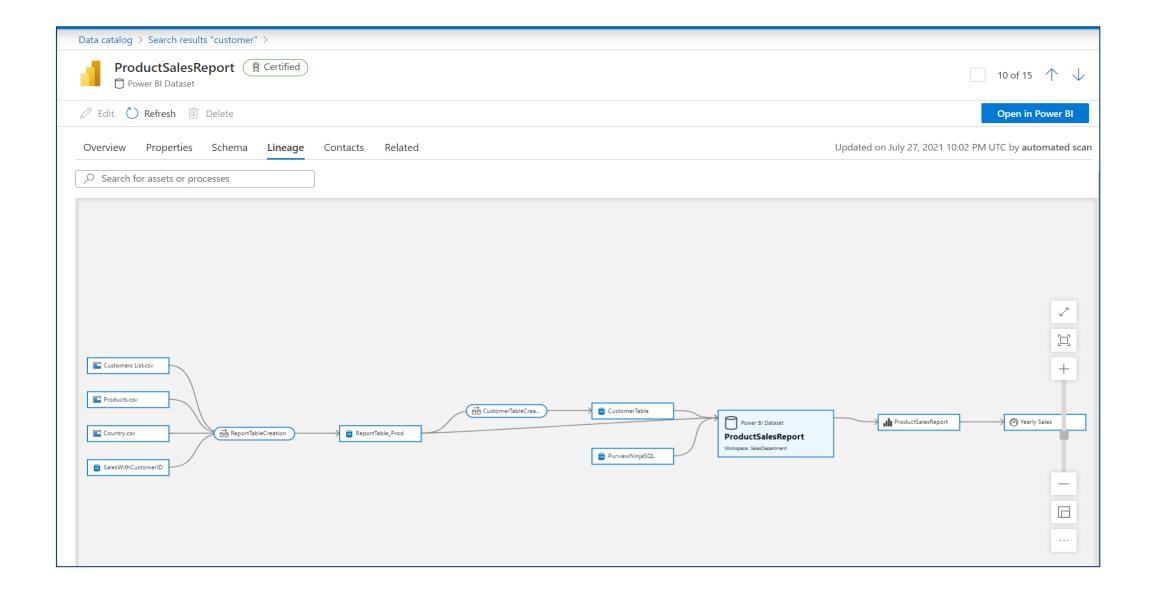


Chains: Just one hop

Address



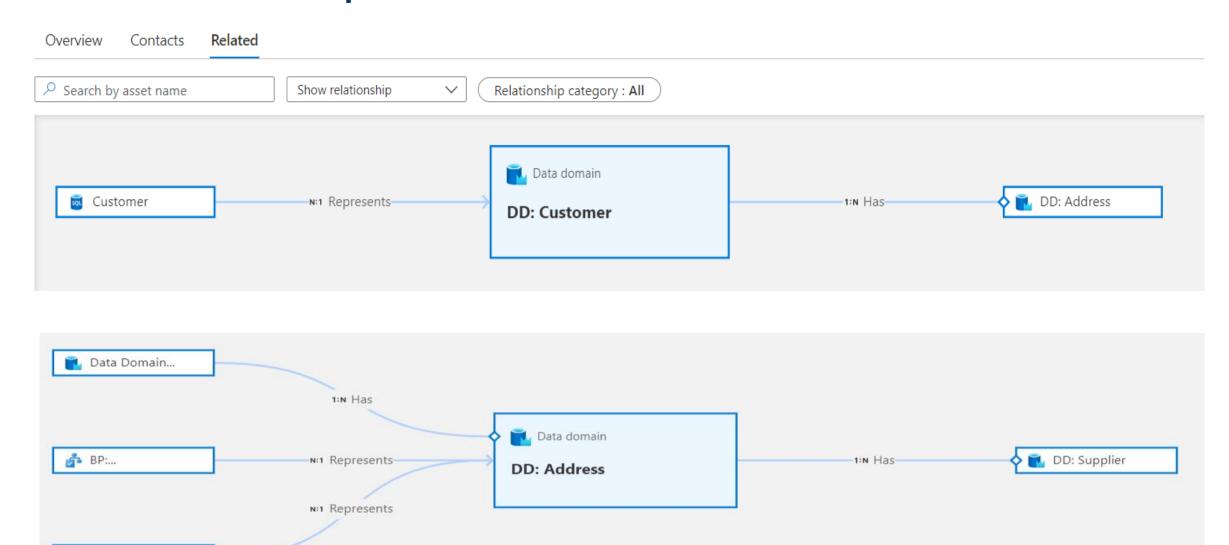
Remember: Asset Lineage





Chains: Just one hop

Address



Chains: Not for data assets





Address

■ Azure SQL Table

+ Add Tag

Overview		Properties	Schema	Lineage						
٥		st-sql.database SQL Server	.windows.net							
		ntureWorks SQL Database								
品	Sales Azure	LT SOL Schema								

Showing 1 to 10 of 10 items

Related

Refresh

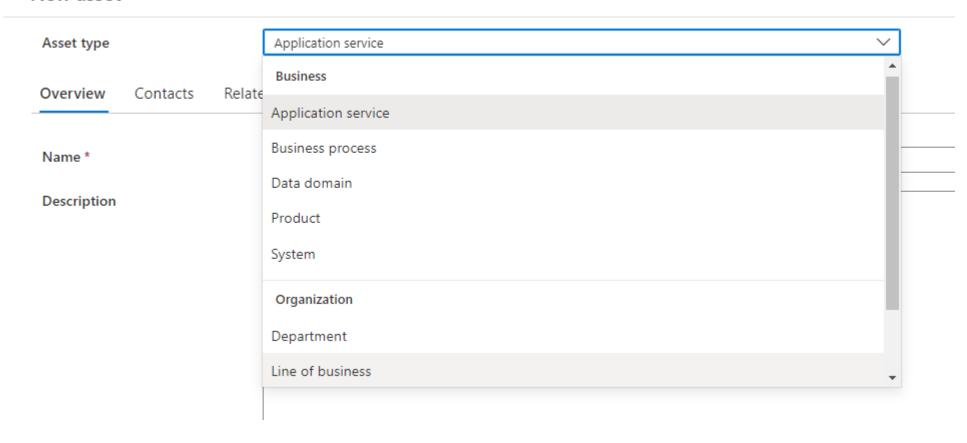
Contacts

Name	Туре
## Address	Azure SQL Table
## Customer	Azure SQL Table
## CustomerAddress	Azure SQL Table
## Product	Azure SQL Table
## ProductCategory	Azure SQL Table
## ProductDescription	Azure SQL Table
## ProductModel	Azure SQL Table
## ProductModelProductDescription	Azure SQL Table
## SalesOrderDetail	Azure SQL Table
## SalesOrderHeader	Azure SQL Table



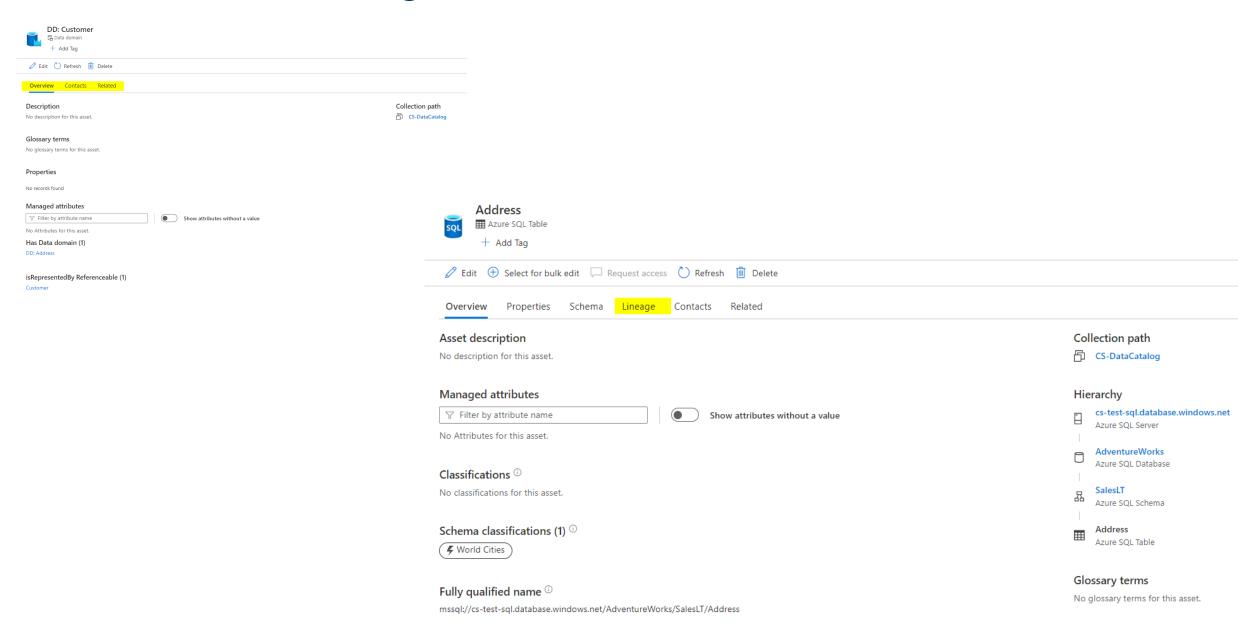


New asset



No "business level" lineage





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4. TOGAF & Co

- 1. Frameworks (the "Co")
- 2. TOGAF
- 3. Architecture Domains
- 4. Architecture Development Method

4.1 Architecture Frameworks

- The Open Group Architectural Framework (TOGAF)
- The Zachman Framework for Enterprise Architecture
- Federal Enterprise Architecture Framework (FEAF)
- Gartner
- ..

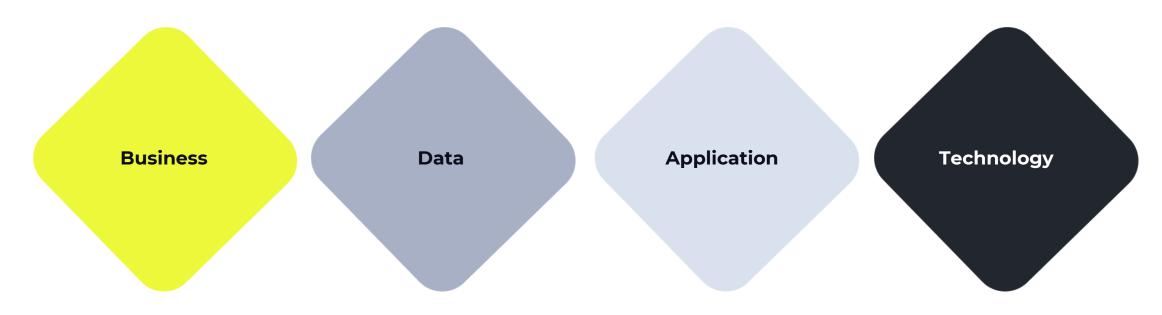


Attribution: Bundesarchiv, Bild 183-R0526-0028 / CC-BY-SA 3.0

4.2 TOGAF

Basically: "ADM" - Method for integrating Architectur Domains

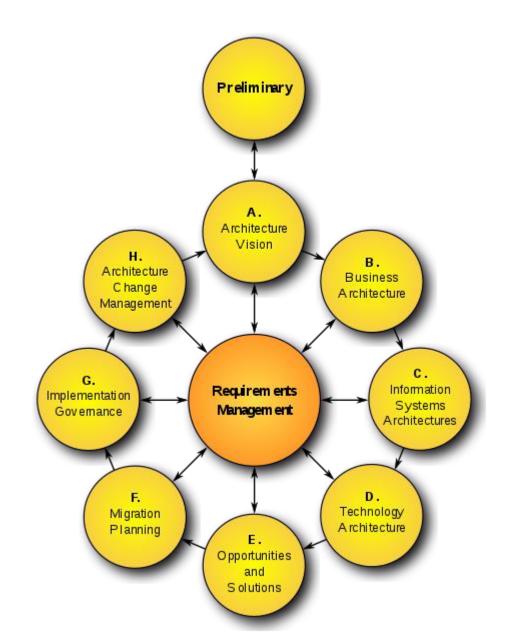
4.3 Architecture Domains



- Business strategy
- Organization
- Key business processes
- Regulations

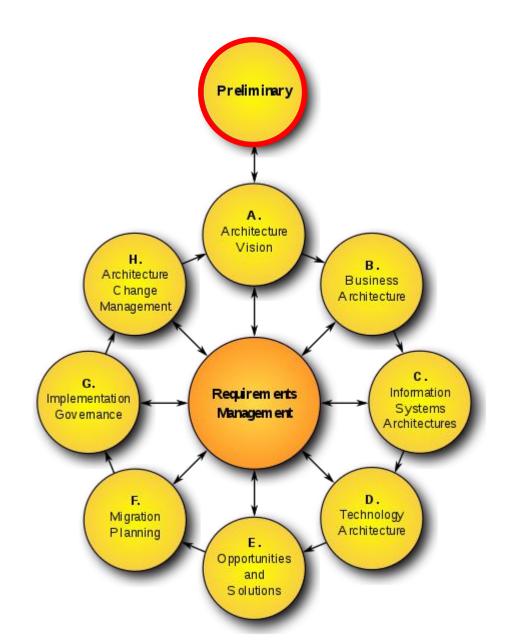
Infrastructure and related standards

4.4 Architecture Development Method ("ADM")



4.4 ADM Preliminary

- 1. Organisation
- 2. Architecture capabilities desired and enablement
- 3. Architecture principles
- 4. Link to business principles & goals
- 5. Governance



4.4 ADM Excurse: Architecture principles



1. Should have:

- 1. Name
- 2. Statement
- 3. Rational
- 4. Implications: "How does this affect me?" (ressources, costs, tesks etc.)

2. Should be:

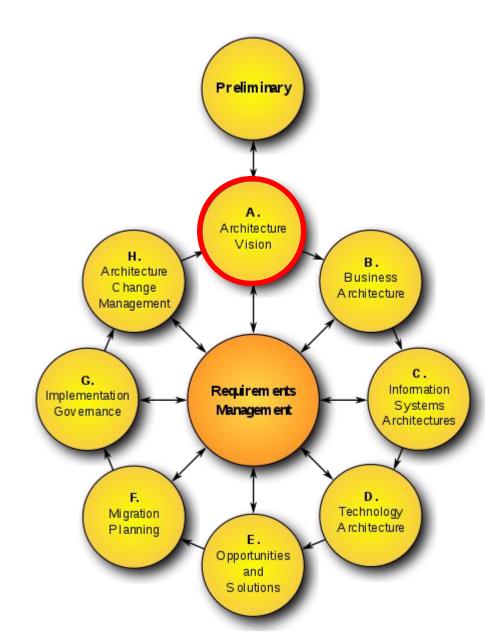
- 1. Understandable
- 2. Robust
- 3. Complete
- 4. Consistent
- 5. Stable

-> Samples in TOGAF® Standard — ADM Techniques

4.4 ADM

A. Vision

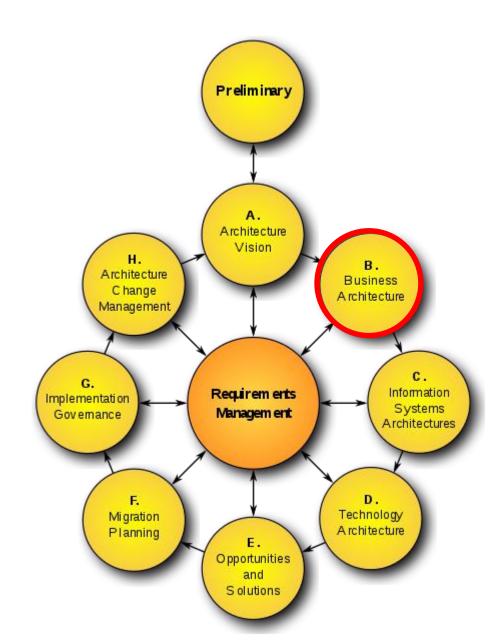
- 1. Vision of the capabilities and business value
- 2. Scope & buy in



4.4. ADM

B. Business Architecture

- 1. Business principles
- 2. Business goals
- 3. Business drivers
- 4. Business processes
- 5. Map capabilities to value stream

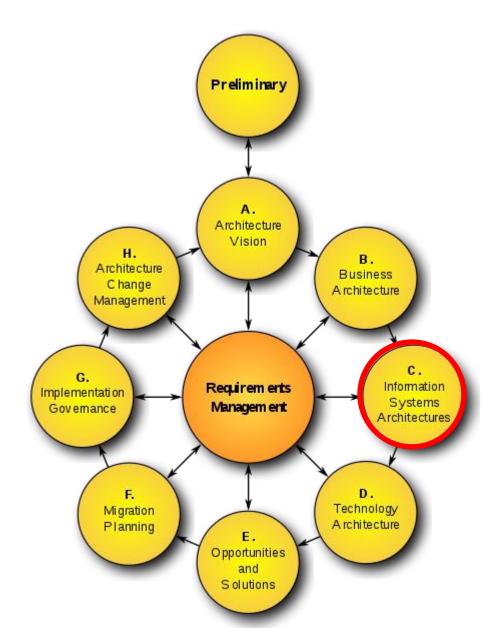


4.4. ADM

C. Information Systems Architecture

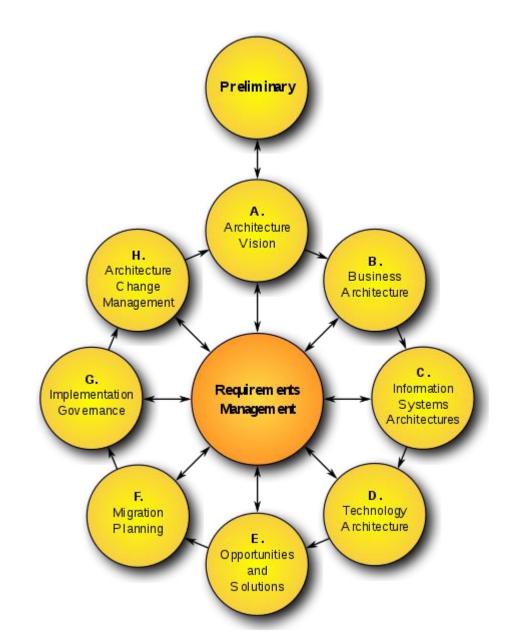
- 1. Data Architecture
- 2. Application Architecture

"In either order"



4.4. What I like ...

- 1. Integrating Tech & Business goals
- 2. Focus on capabilities
- 3. Tons of templates (but tempting ...)
- 4. Principles may discipline the hordes of geniuses/alchemists



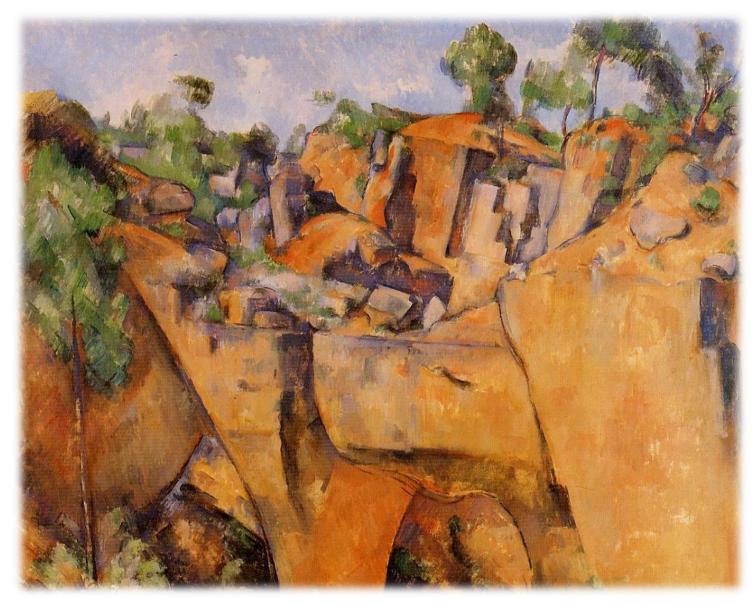
Beyond the promises

Zachman	FEAF	DoDAF	TOGAF
			P A B G R C F E D
Taxonomy for architectural descriptions, or 'ontology' for enterprise architecture	Rather comprehensive EA guidance outlining the overall approach to architecture	Steps, views and products necessary to develop and document architecture	End-to-end EA guidance defining steps, deliverables and many other practical aspects, industry standard
Conceived as a complement to BSP, based on sheer speculations and inappropriate analogies	Replica of EAP, which in turn cloned BSP from the 1970s that proved ineffective decades ago	Replica of C4ISR, which itself was inspired by earlier naive ideas that proved flawed long ago	Replica of TAFIM, which in turn imitated ancient methodologies that consistently proved impractical
Information systems can be planned similarly to buildings or airplanes using detailed drawings	The desired state of complex organisations can be defined rather minutely by architects	The key challenge is to design proper architecture and fully describe it, then the rest will naturally follow	Practicing enterprise architecture implies following a sequential, step- wise process
No reliable estimations, but anecdotal evidence suggests considerable sums of money globally	Up to one billion dollars spent in the attempts to implement the framework in the U.S. Government	Up to 400 million dollars consumed by the framework in the U.S. Department of Defense	Inestimable global expenditures on implementation efforts, various trainings, courses and certifications
No value at all, the taxonomy is purely notional and inapplicable to real EA artifacts useful in practice	No value whatsoever, only obscure pictures and arcane reference models	At best, a loose catalogue of models that might be helpful only to experienced architects	An unsystematic 'trash can' where veteran architects can find certain useful ideas that they already know
	Taxonomy for architectural descriptions, or 'ontology' for enterprise architecture Conceived as a complement to BSP, based on sheer speculations and inappropriate analogies Information systems can be planned similarly to buildings or airplanes using detailed drawings No reliable estimations, but anecdotal evidence suggests considerable sums of money globally No value at all, the taxonomy is purely notional and inapplicable to real EA artifacts useful in practice	Taxonomy for architectural descriptions, or 'ontology' for enterprise architecture Conceived as a complement to BSP, based on sheer speculations and inappropriate analogies Information systems can be planned similarly to buildings or airplanes using detailed drawings No reliable estimations, but anecdotal evidence suggests considerable sums of money globally No value at all, the taxonomy is purely notional and inapplicable to real EA artifacts useful in practice Replica of EAP, which in turn cloned BSP from the 1970s that proved ineffective decades ago The desired state of complex organisations can be defined rather minutely by architects Up to one billion dollars spent in the attempts to implement the framework in the U.S. Government No value whatsoever, only obscure pictures and arcane reference models	Taxonomy for architectural descriptions, or 'ontology' for enterprise architecture Conceived as a complement to BSP, based on sheer speculations and inappropriate analogies Information systems can be planned similarly to buildings or airplanes using detailed drawings No reliable estimations, but anecdotal evidence suggests considerable sums of money globally No value at all, the taxonomy is purely notional and inapplicable to real EA artifacts Rather comprehensive EA guidance outlining the overall approach to architecture Replica of EAP, which in turn cloned BSP from the 1970s that proved ineffective decades ago The desired state of complex organisations can be defined rather minutely by architects The key challenge is to design proper architecture and fully describe it, then the rest will naturally follow Up to one billion dollars consumed by the framework in the U.S. Department of Defense

Svyatoslav Kotusev (http://kotusev.com) for the British Computer Society (BCS)

Quoted from: https://www.bcs.org/articles-opinion-and-research/a-comparison-of-the-top-four-enterprise-architecture-frameworks/

Common usage ...



Source: https://commons.wikimedia.org/wiki/File:Paul_Cezanne_Bibemus_Quarry_1.jpg

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5. Wrap Up

- Nice lineage graphs do not give you a business case (and thus funding)
- No data strategy without business strategy
- Focus on value, risks and capabilities
- Priorize & start small (as usual)
- Align on principles where necessary
- Beware of the weight
- Purview still needs some time ...