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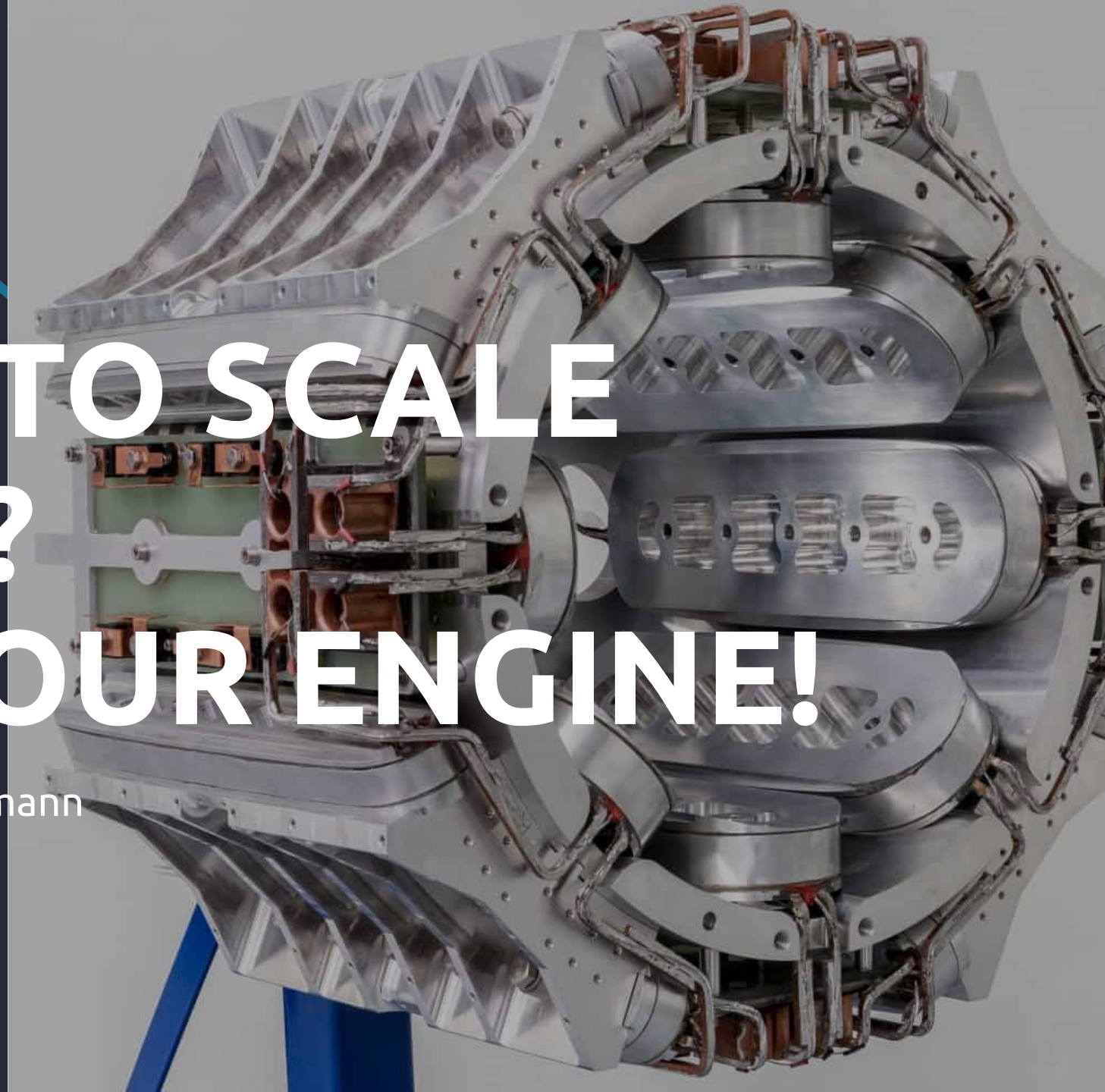
YOU WANT TO SCALE ANALYTICS? IMPROVE YOUR ENGINE!



Nordics Architects Days 2023 | Arne Rossmann

:~$ WHOAMI

- 10 years at Capgemini | Germany
- Enterprise Architect with Focus on Data Powered Enterprises and Data Platforms

- Facilitator for DevOps Transformation, BLAC, CACC, …

- Dad of a ~1y old son
- Apart from the desk: be active (running, hiking, cycling, …)
- Love to code (Smart Home, …)

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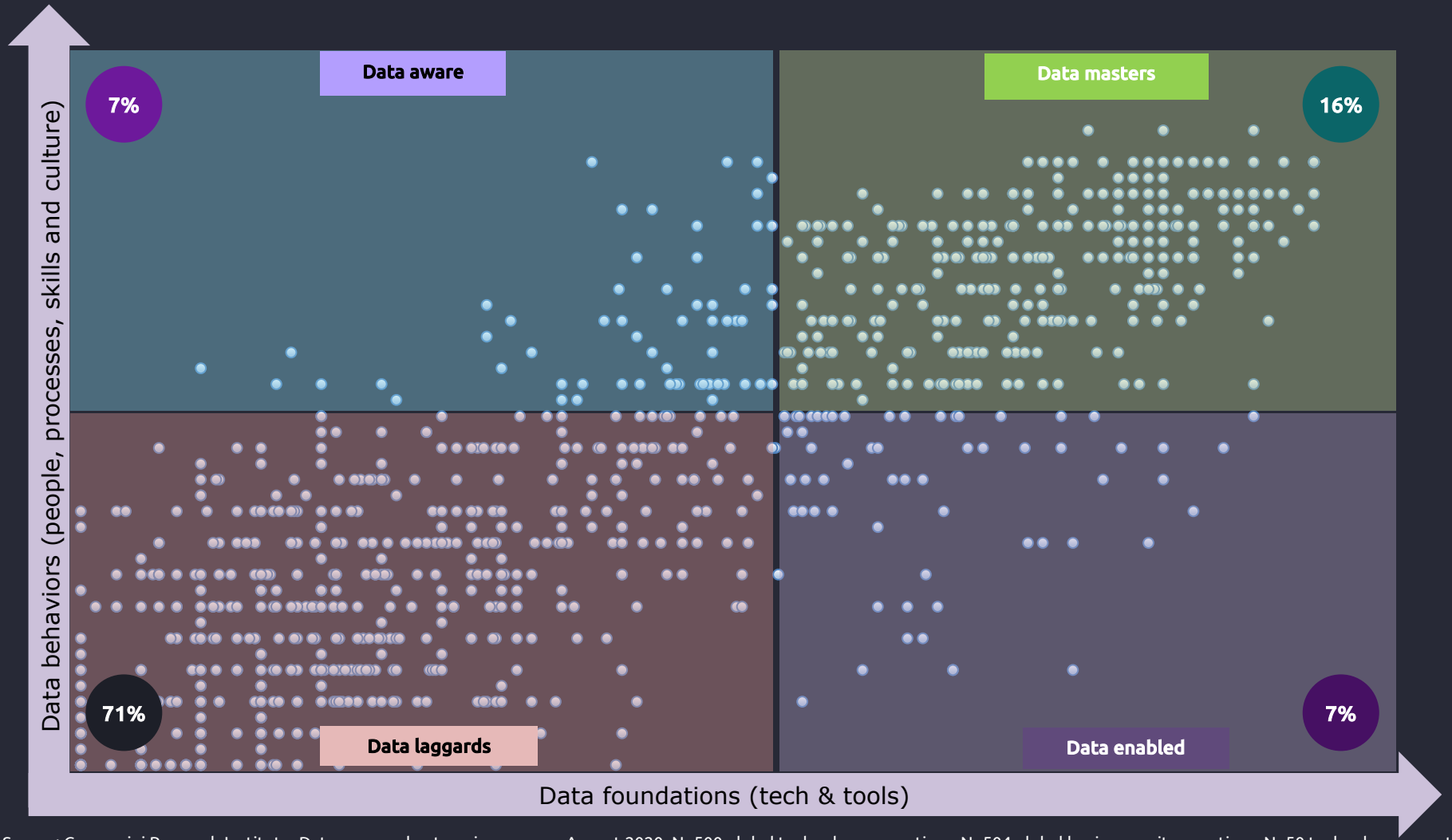
ONLY ABOUT ONE IN SIX ORGANIZATIONS GLOBALLY CAN BE CATEGORIZED AS A DATA MASTER



Source: Capgemini Research Institute, Data-powered enterprises survey, August 2020, N=500 global technology executives, N=504 global business unit executives, N=50 technology executives in retail, N=50 business executives in retail.
Percentages are rounded off to the nearest integer and do not sum to 100.

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THE FOCUS IS NOW ON VALUE

CEOs and boards of directors

Have Spent Lots Of Money & Time On D&A

Where is next Repeatable & Sustainable Value

TIME IS RUNNING OUT

By ***2022***, **30%** of CDOs will partner with their CFO to formally value the organization's information assets for improved information management and benefits.

Gartner: Top Priorities for IT : Data & AI Leaders – Leadership Vision 2021

Stage 04	**Data Supply Chain Driver** Organization is a primary participant in a collaborative data ecosystem	Data is the business +$Bs
Stage 03	**Data Marketplace Driver** Organization can drive a data marketplace, combining 3rd party data with internal to drive new assets	Data becomes a business +$00Ms
Stage 02	**Data Monetization** Organization can directly capitalize on data by selling it to external companies as an asset	Data has value +$Ms
Stage 01	**Internal Marketplace** Data is governed across the organization and can be shared and collaborated on across the business	Data increases efficiency +$00's
	Internal Silos Ability to manage data internally only within business & data silos	Data is a business cost -$000s

Maturity

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AB VOLVO HAS A BOLD STRATEGY TO BOTH GROW AND STAY RESILIENT, WHILE LEADING POSITIVE SOCIETAL CHANGE

Growth

- >35% electric vehicle sales by 2030
- Higher life cycle revenue per unit
  - >1.5x for electric vehicles
  - >5x for autonomous solutions

Resilience

- >50% of Group sales from service by 2030

Leading the way to a fossil free society by 2050

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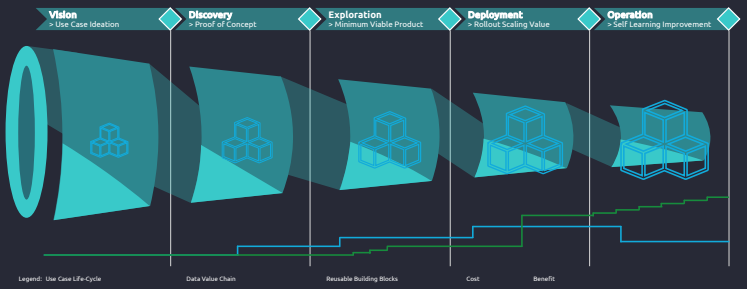
TO ACHIEVE THE GOAL OF > 50% DIGITAL SERVICE , THE ESTABLISHMENT OF A DATA-DRIVEN VALUE CHAIN IS THE KEY

>50% of Group sales from **service** by 2030

Operated Data-Driven Use Cases



Fast & Reliable Data Product Delivery to **serve** Use Cases

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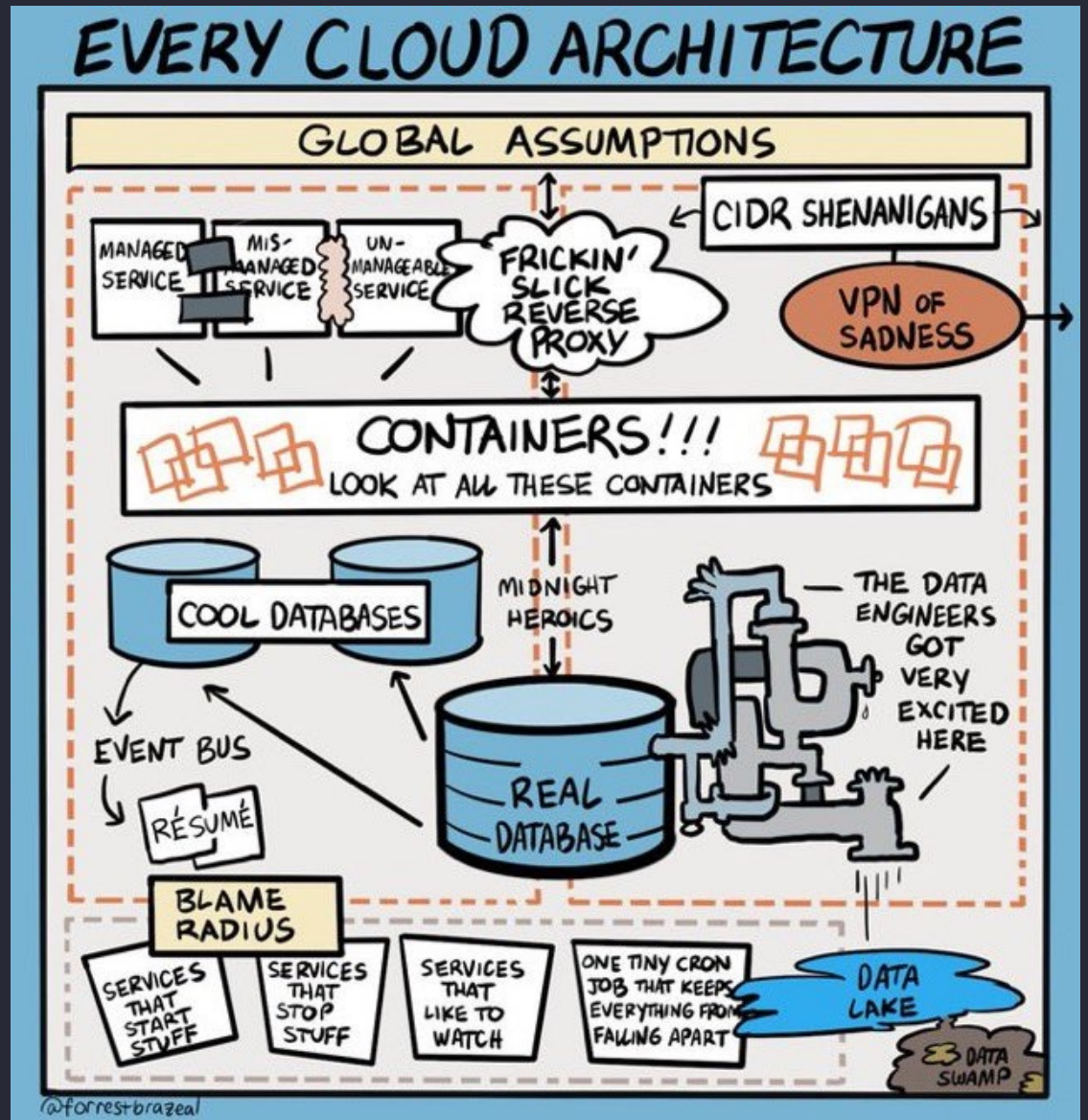
.. BUT THE ARCHITECTURE IS SIMPLE ...



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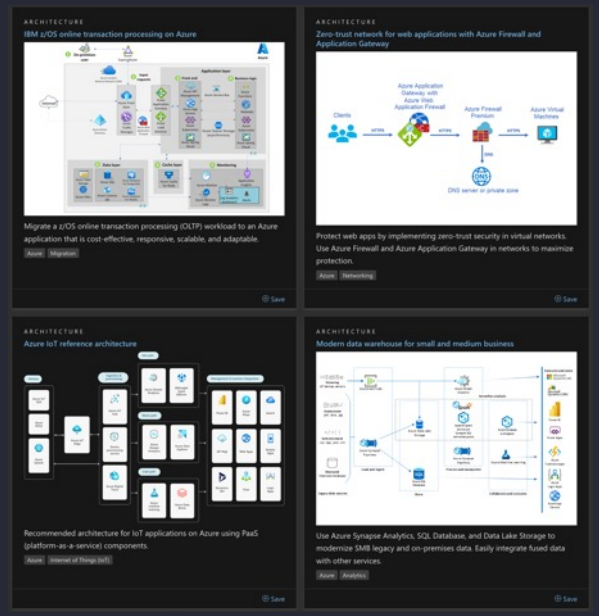
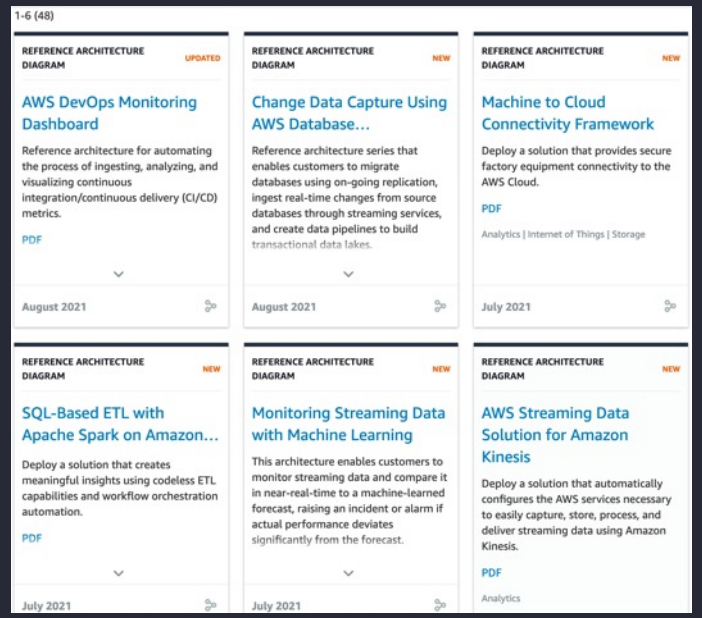
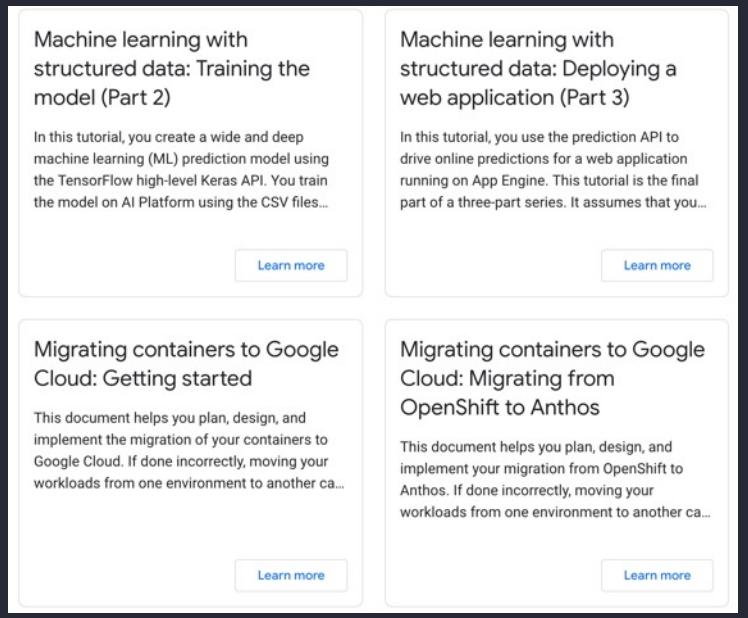
THE READY-TO-USE SOLUTIONS ARCHITECTURES ARE A GOOD BASIS







https://docs.microsoft.com/en-us/azure/architecture/browse/

https://aws.amazon.com/architecture/reference-architecture-diagrams/?achp_addrcs5

https://cloud.google.com/architecture

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IMPLEMENTING THE DATAOPS VALUE CHAIN SUPPORTS THE OVERARCHING GOALS

Data Engineers
Data Science Teams
Data analysts/consumers

Self Service Data Ingestion

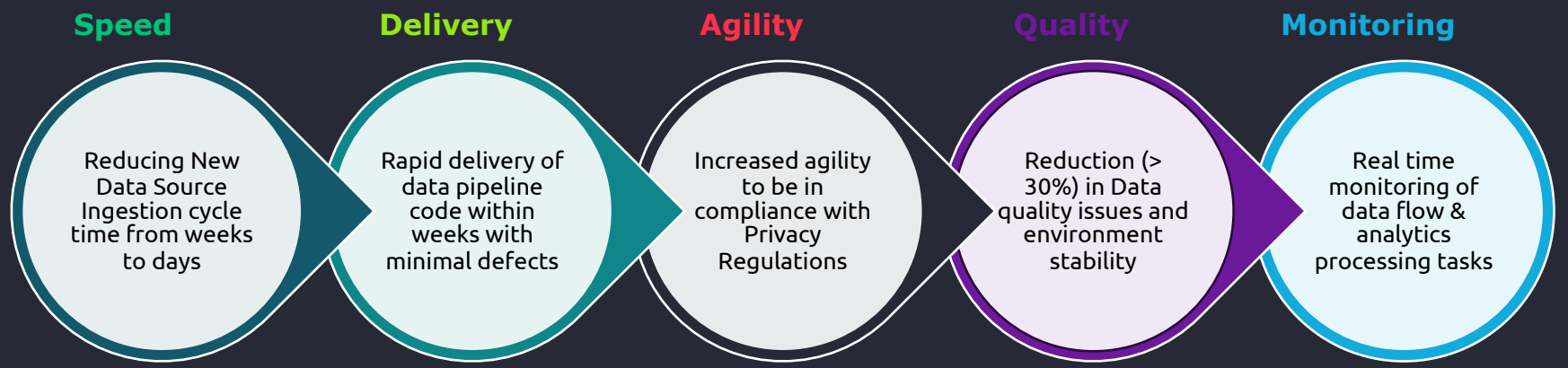
Data Engineers
IT Operations Team

Data Orchestration & Automated Deployment of Data pipelines

Data Analysts

Data Quality and usage Monitoring

Resulting Into



For Business

- Enabling Data Powered Culture
- Improved collaboration to enable quicker availability of data
- Improved quality of data and transparency of defects
- Easier governance and management of data

For IT

- Better agility to adopt changes in data sources
- Quicker releases and improved quality of data pipeline
- Reduced effort to identify data quality defects and issues
- Proactive monitoring and management of data pipelines

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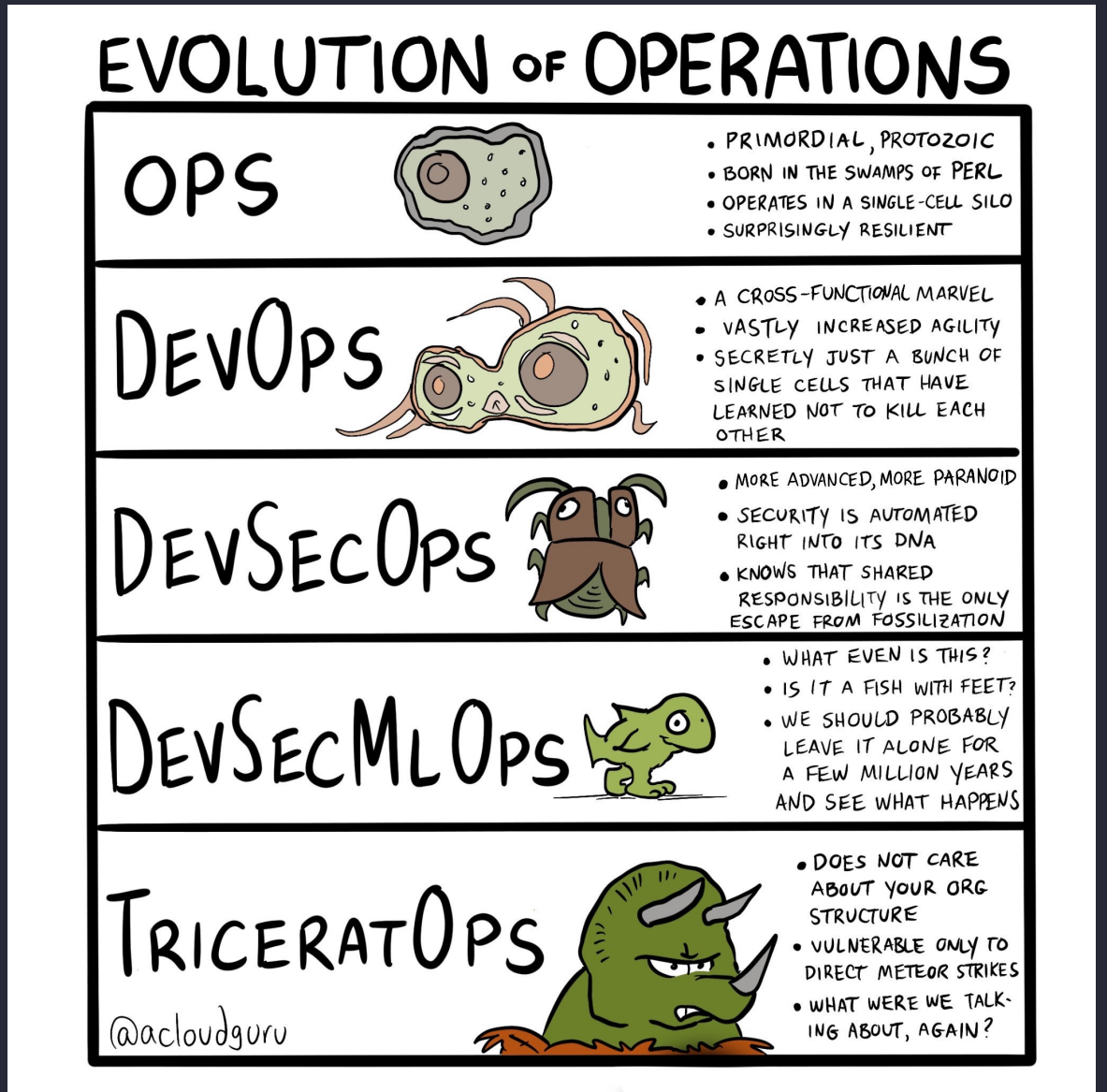
... BUT ~~DEVOPS~~ DATAOPS WILL HELP US



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THE FOUR DORA METRICS AND THE BENEFITS OF IMPLEMENTING THEM

Four Key Metrics of DORA

- Deployment Frequency
- Mean Lead Time for Changes
- Change Failure Rate
- Time to Restore Services

Benefits of DORA Metrics

Better Decision Making

Greater Value

Continuous Improvements

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… IF WE WOULDN’T HAVE TO DEAL WITH TECHNICAL DEBTS

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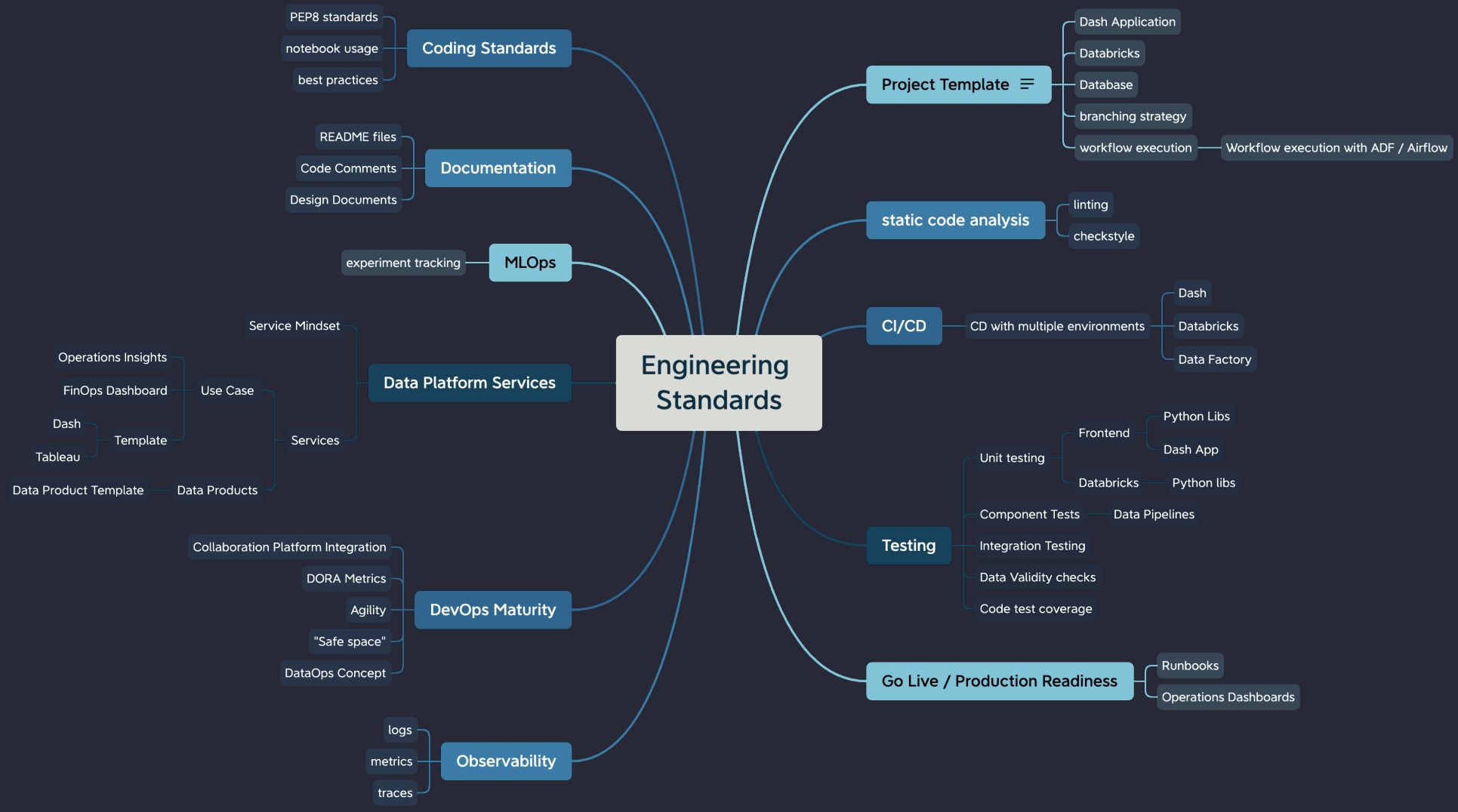
… WE NEED ENGINEERING STANDARDS



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SUMMARY

YOU WANT TO SCALE? IMPROVE YOUR ENGINE!

To achieve Data Mastery and leverage the Value from Data

Operated Data-Driven Use Cases

Fast & Reliable Data Product Delivery to **serve** Use Cases

requires

Cloud native, semantic enriched Data Platform with focus on acceleration of data provisioning & operations

Well-educated Architects, Engineers, a proper Target Operating Model &

Data & Service Mindset

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About Capgemini

Capgemini is a global leader in partnering with companies to transform and manage their business by harnessing the power of technology. The Group is guided everyday by its purpose of unleashing human energy through technology for an inclusive and sustainable future. It is a responsible and diverse organization of over 360,000 team members more than 50 countries. With its strong 55-year heritage and deep industry expertise, Capgemini is trusted by its clients to address the entire breadth of their business needs, from strategy and design to operations, fueled by the fast evolving and innovative world of cloud, data, AI, connectivity, software, digital engineering and platforms. The Group reported in 2022 global revenues of €22 billion.

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