

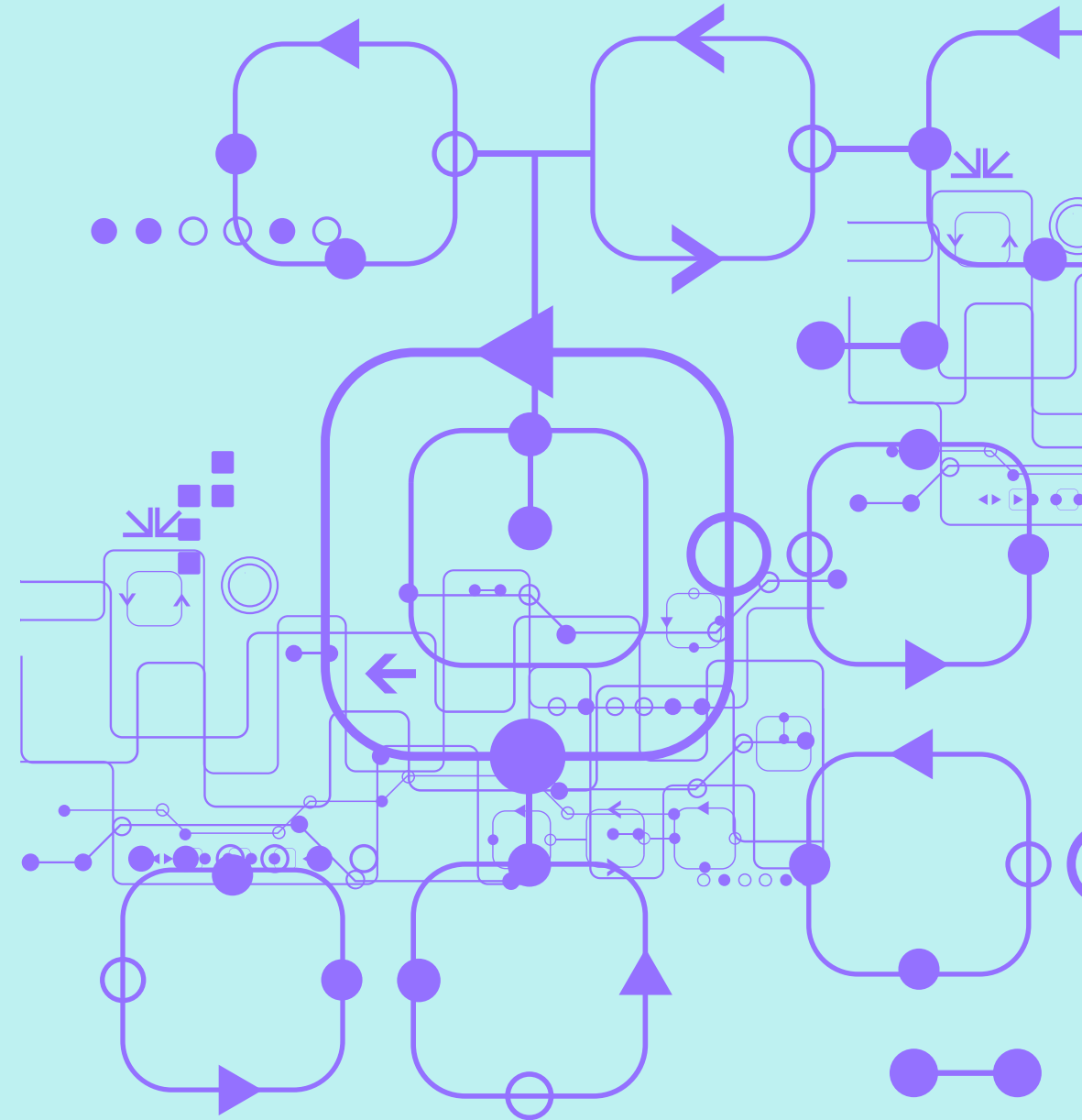


SAS Viya with SingleStore

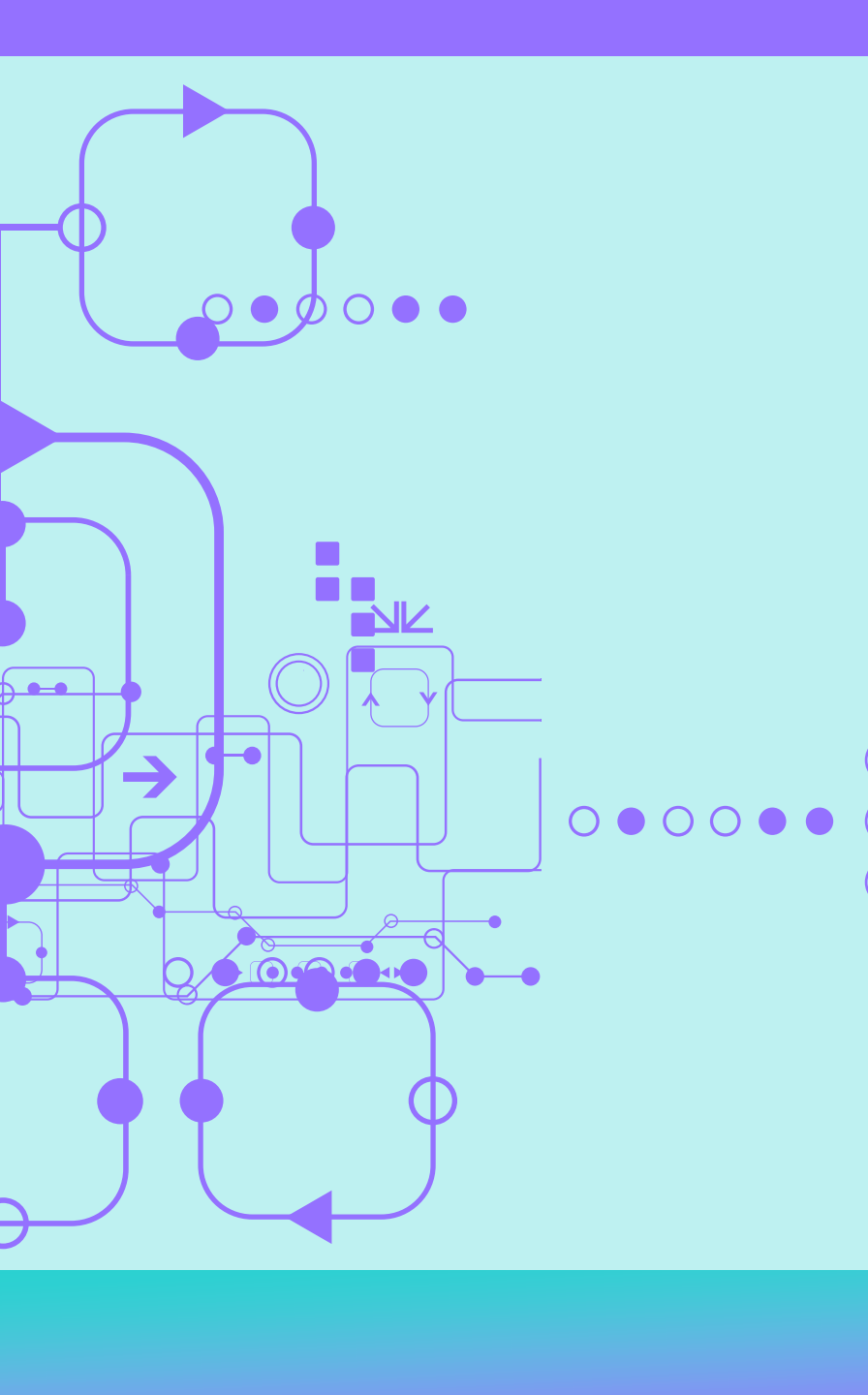
Siddharth (Sid) Singhvi

Sr. Product Manager, Cloud and Platform Technologies

Email: Siddharth.Singhvi@sas.com



Agenda

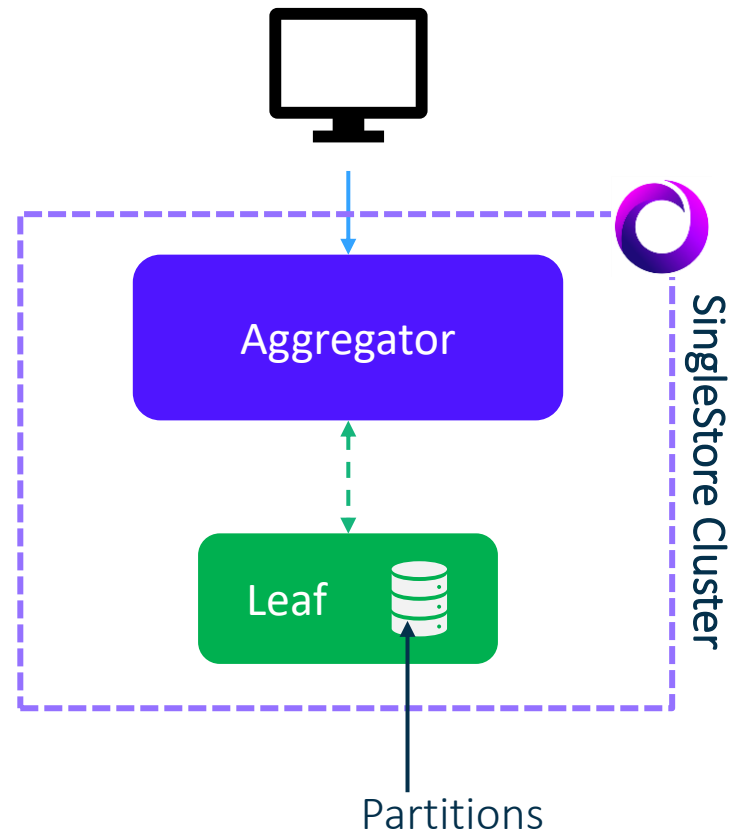
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- What is SingleStore ?
 - ❖ SingleStore Architecture
 - SAS Viya with SingleStore
 - ❖ Combined Architecture
 - Case Study



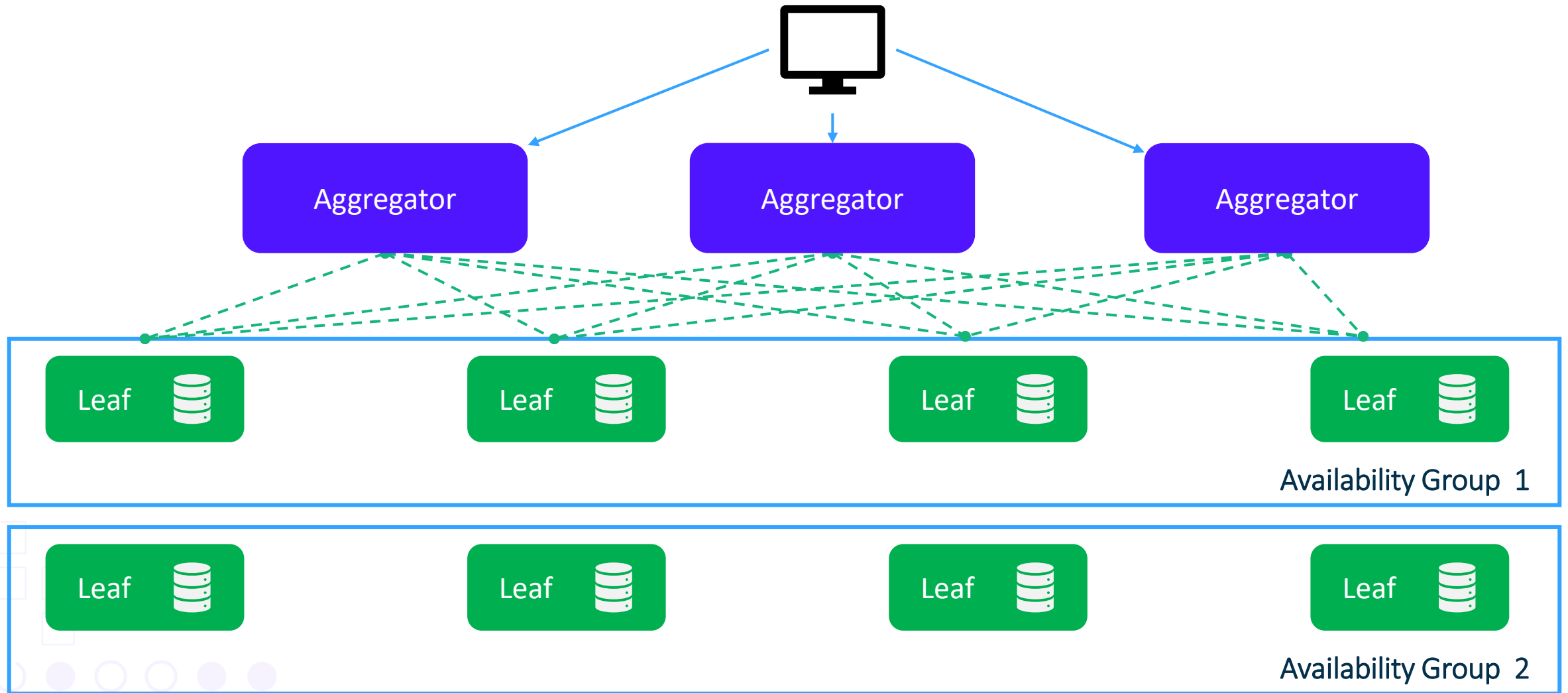
What is SingleStore ?

SingleStore is a highly scalable, fast, distributed, SQL database management system designed to power modern data-intensive applications to deliver maximum performance for both transactional (OLTP) and analytical (OLAP) workloads in a single unified engine.

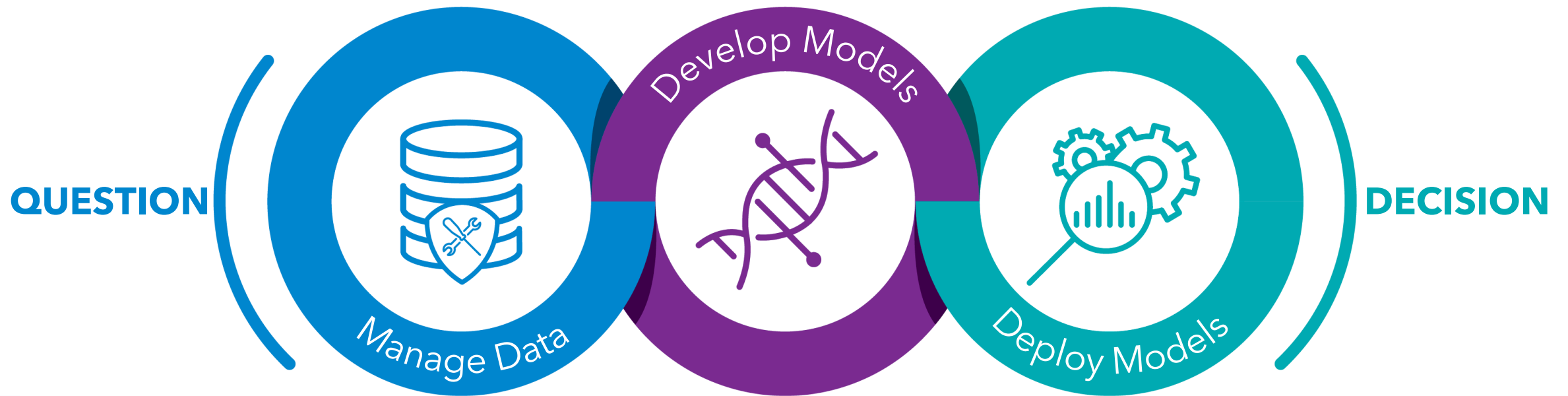
SingleStore Architecture



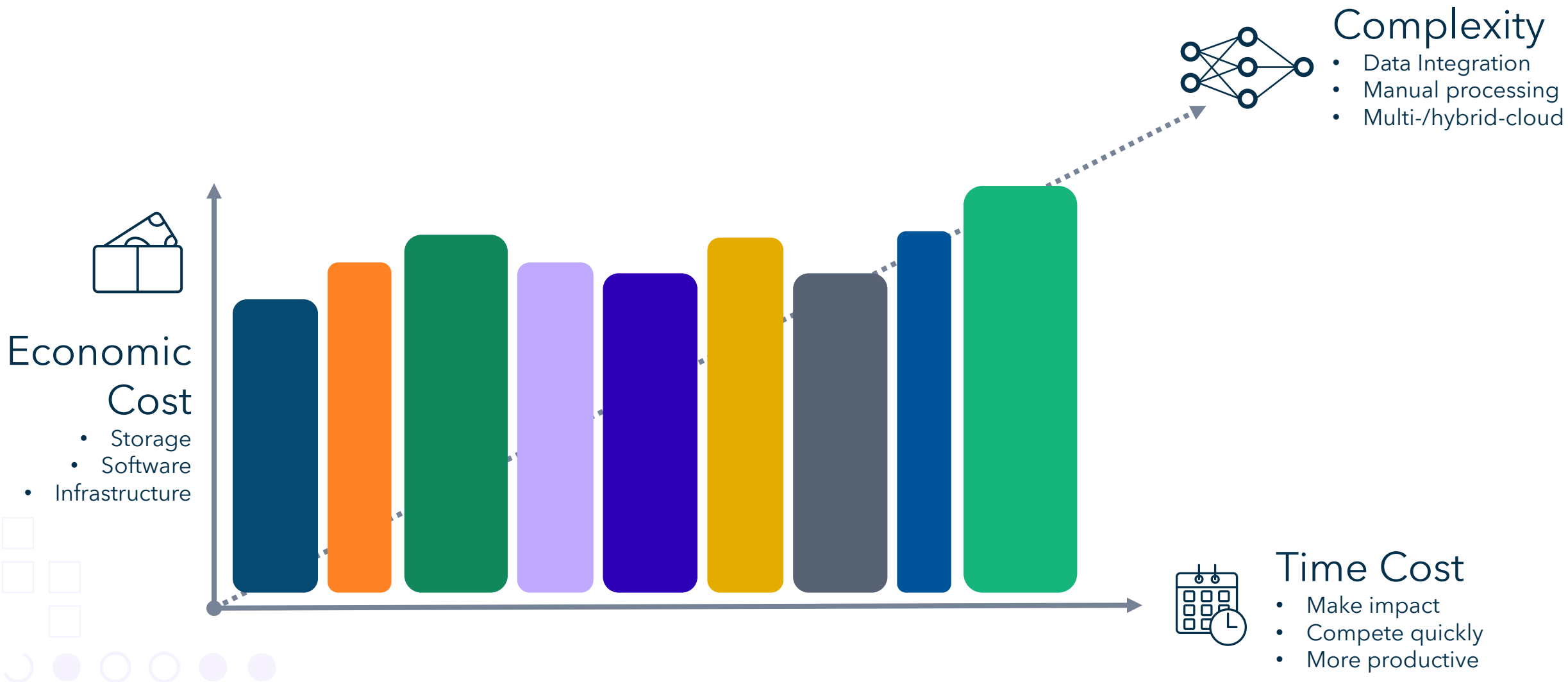
SingleStore Distributed Architecture

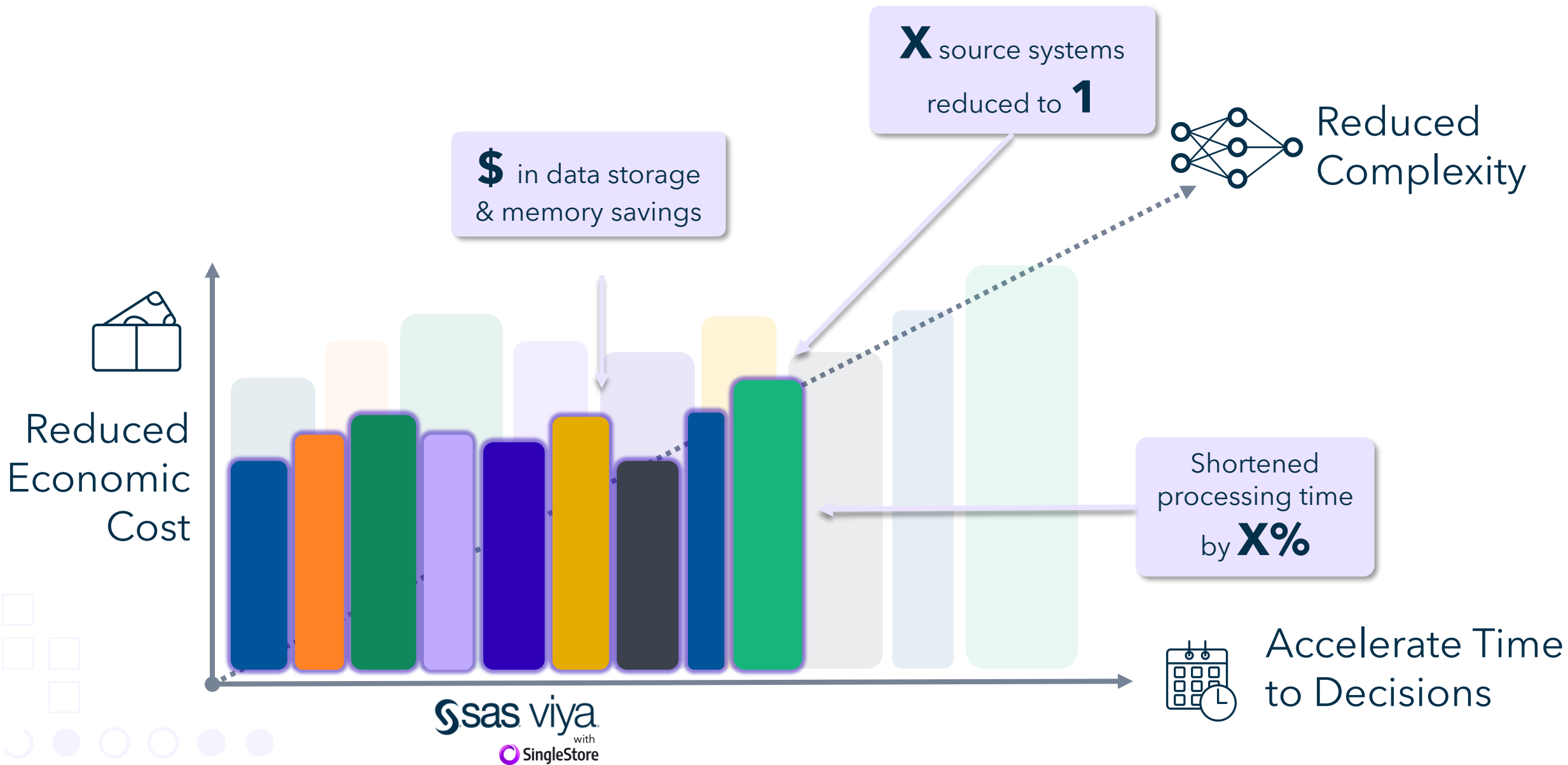


Analytics Life Cycle



Constraints





Key Benefits



Reduce Total Cost of Ownership

- Combine multiple data sources into a single database.
- High compression of data reduces overall infrastructure costs.
- Eliminate complex data management processes



Scalability

- Scale database without compromising on performance.
- Support for high availability.



Productivity

- Ultra-fast ingestion of any type of data
- High Concurrency, low latency queries
- Eliminate data movement
- Built-in encryption
- Easy access to clear data insights

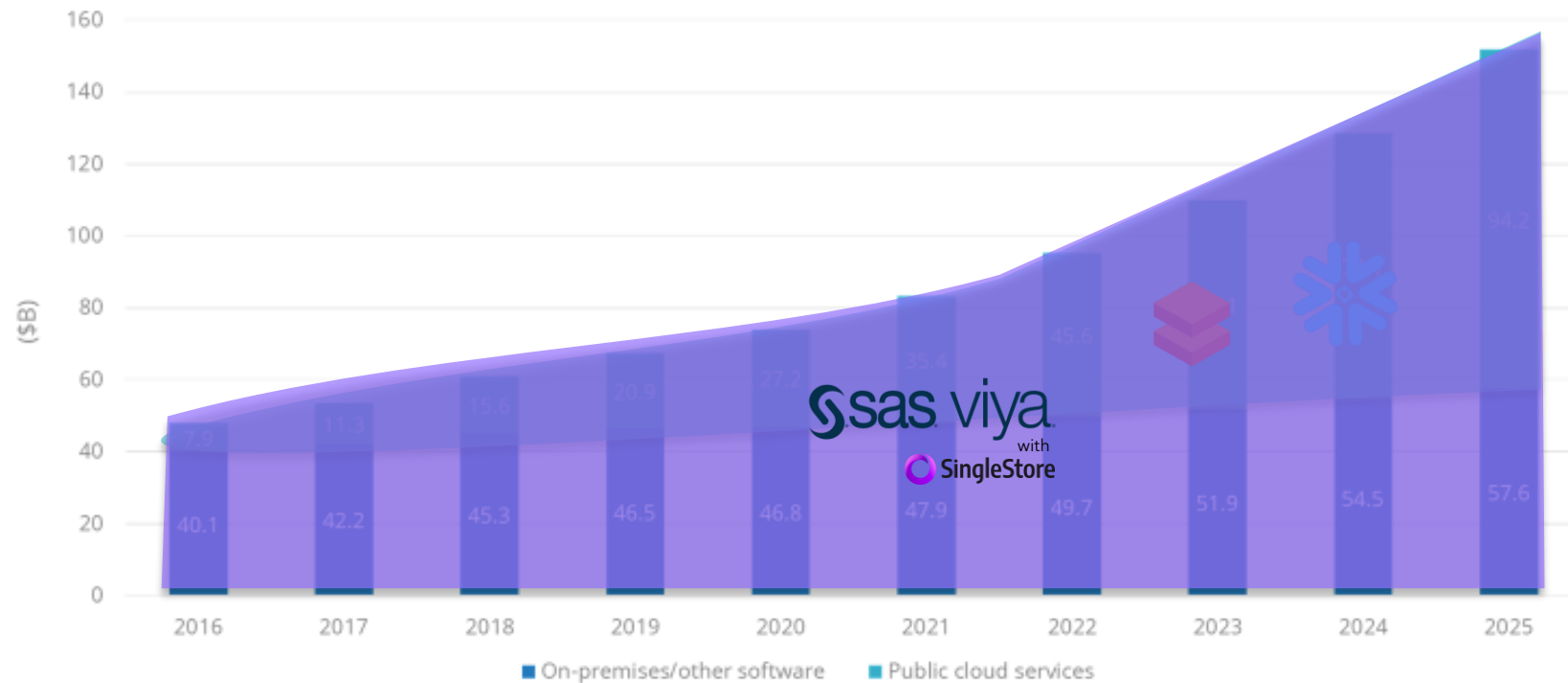


Multi Cloud

- Modern cloud architecture
- Support the customer's cloud journey not matter where they are!
- Supports public cloud, hybrid cloud and on-premises deployments.

Cloud is Growing Fast! But On-Prem is Not Going Away!

Worldwide Big Data and Analytics Software Market Size and Forecast by Deployment Type (2016-2025)



"Everybody is moving to the cloud!"

How to address the **other 38% of your data management and analytics on premises?**

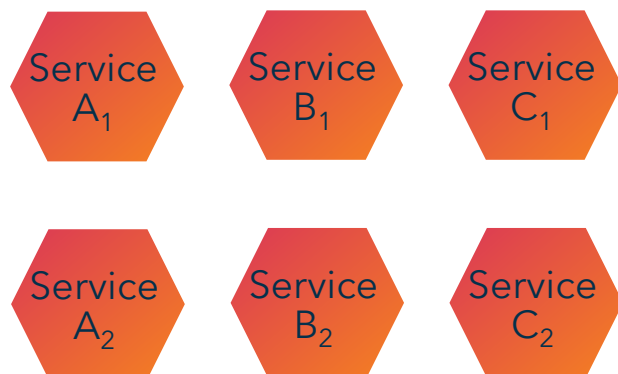


Source: Worldwide Big Data and Analytics Software Forecast, 2021-2025 (IDC #US47402321, July 2021)

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Microservices and Web Apps



STATELESS NODE POOL

Commodity Services

Postgres Consul RabbitMQ

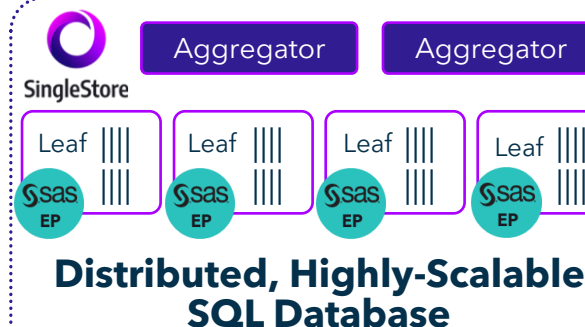
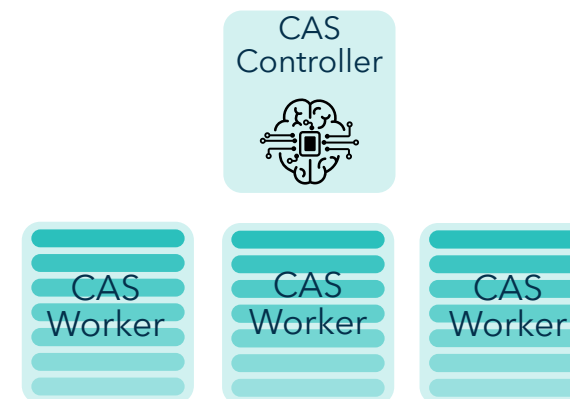
STATEFUL NODE POOL

SAS Compute Services



COMPUTE NODE POOL

Cloud Analytic Services (CAS)



Ingress

Monitoring + Logs



\$8M

saved on data storage

PROBLEM

This bank wanted to modernize its grid workloads while managing the cost of storing and protecting massive volumes of data.

SOLUTION

Migrating grid workloads to SAS Viya allowed them to continue benefiting from their SAS 9 investments while gaining improved performance and governance on Viya. SingleStore was used to compress and encrypt all the data, enabling the bank to **reduce storage infrastructure by 50%.**

Large Multinational Bank Big data. Lighter footprint.



 **sas viya**

Confident decisions just got better.



Lower cost
of analytic
decisions

Manage data
complexities at
scale and
improve
productivity

Easy and
simplified
access to data
and usage

Built from the
ground-up for
your cloud
journey



Thank You!

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