

# GET THE KEYS TO YOUR DATA-POWERED ENTERPRISE

Industrialized Data & AI Engineering  
Acceleration by Capgemini



# Reimagine your data powered enterprise

**Data is a competitive and strategic asset** – one that should inform and guide virtually every decision across the enterprise.

The problem? In most organizations, data is actually a scattered asset. Every function has its own distinct way of gathering, storing and governing data, based on application, initiative or, project.

This makes it difficult for organizations to take a holistic view of their business and their customers.

Are you keen to simplify and streamline the way you collect, manage, and govern your most valuable asset? Introducing IDEA by Capgemini:

## Industrialized Data and AI Engineering Acceleration

Industrialized Data & AI Engineering Acceleration (IDEA) by Capgemini is an innovative, and flexible solution to help organizations modernize, democratize and industrialize their data estate journey at speed and scale.

It helps organizations enable new business models, enhance the customer experience, and launch intelligent new products and services.

# 40%

Shorter  
delivery  
time

# 30-50%

Overall reduction  
in the data  
modernization  
process

# Accelerate your potential



IDEA by Capgemini combines our best-in-class data engineering, analytics, and AI capabilities with cutting-edge products and services from leading players within the partner ecosystem.

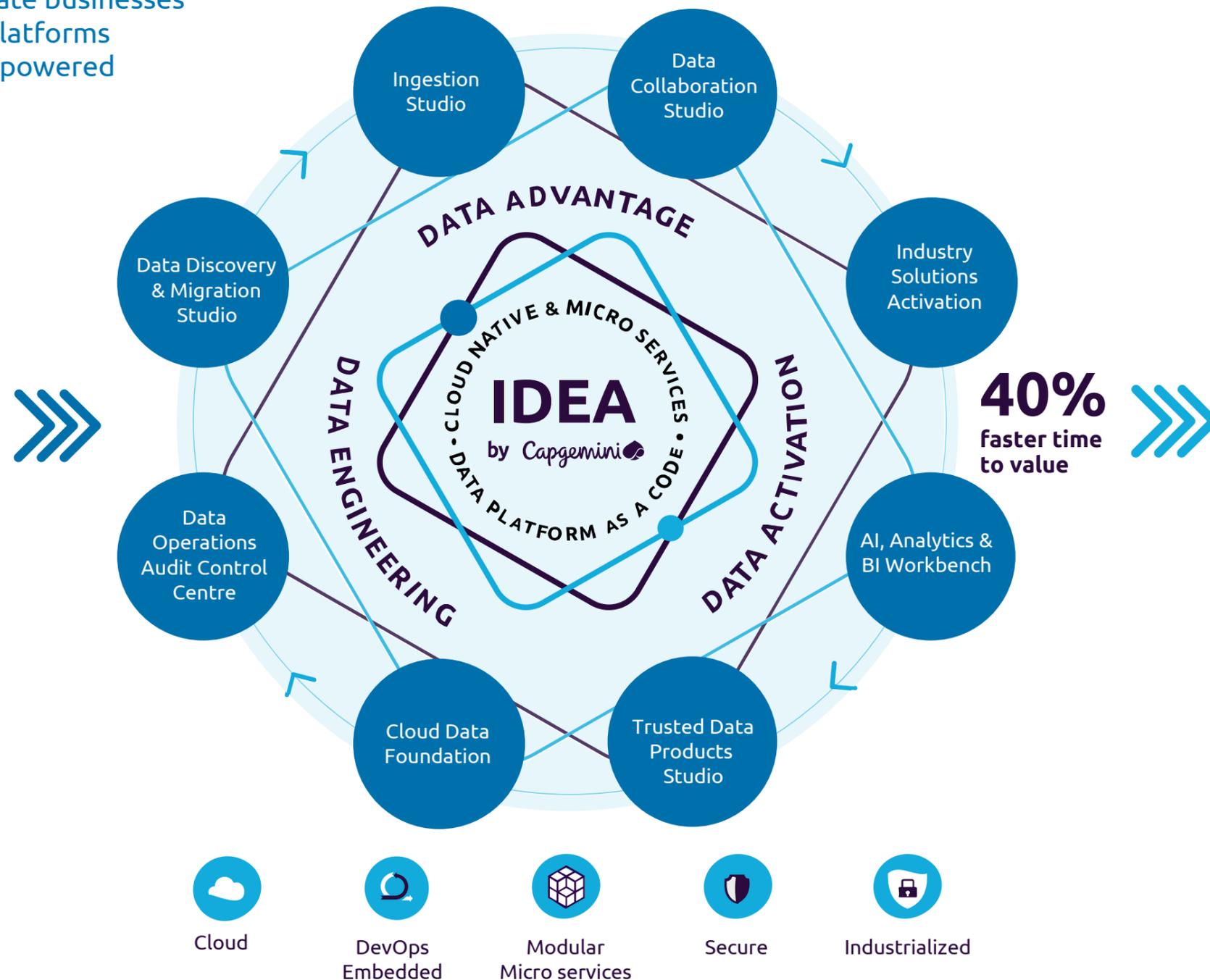
Together, we provide clients with:

- 1 **Production-ready**, out-of-the-box applications with infinite options for customization—granting organizations both speed and flexibility on their data modernization journey.
- 2 **Capgemini Reference Architecture**, a validated approach that leverages Capgemini’s Next Gen Enterprise Data & AI Platform to enable distributed ML for improved performance, increased accuracy, and enhanced scalability even as the data estate grows.
- 3 **Platform as a code plus** and a microservices architecture to create a scalable and secure high-performance execution environment that is capable of evolving over time.
- 4 **Off-the-shelf PaaS** to simplify and streamline data management and governance.

# What is IDEA by Capgemini in its full capacity?

Helping businesses accelerate their data & AI platforms as a code, to deliver a data-powered organization. Here's how:

Accelerating and facilitating the organization's ability to build a next-gen Data and AI platform



Turbo-charges the discovery & data migration process.

Infuses data security and trust from the start.

Enables industrialized end-to-end data processing to allow organizations to generate trusted real-time insights.

Provides freedom and flexibility—organizations can deploy all modules or select certain ones to meet their unique needs

Establishes a Data & AI Platform to enable data activation and data advantage.

# Defining what matters

With a modular design and platform as a code plus (PaC+) principles provide organizations with a flexible and customizable approach to Data Estate Modernization.

## Data Discovery & Migration Studio

Provides customers with the advanced tooling needed to analyze their existing data estate and create a customized migration plan to a modern, cloud-based platform.

## Ingestion Studio

Establishes an industrialized framework that uses metadata-driven ingestion, orchestration, quality and ABCR to enable the generation of real-time insights from the program outset.

## Cloud Data Foundation

Provides a flexible, scalable architecture that federates data from multiple sources, ingests both stream and batch data, and builds a cloud-based data lake.

## Trusted Data Product Studio

Integrates a wide variety of existing and legacy tooling related to data governance, lineage, quality, and cataloging, ensuring data trust and security is maintained across the entire data estate.

## AI Analytics & BI Workbench

Integrates various data and AI components from the cloud provider, as well as Capgemini assets, to create a collaborative AI Hub that enables Data & AI workloads and solutions at scale.

## Industry Solution Activation

Builds a foundation from which clients can activate insights within IDEA to deliver business-driven solutions and connect to other Capgemini assets, such as Customer Data Hub and Factory of the Future, or our full marketplace solution, 890 by Capgemini.

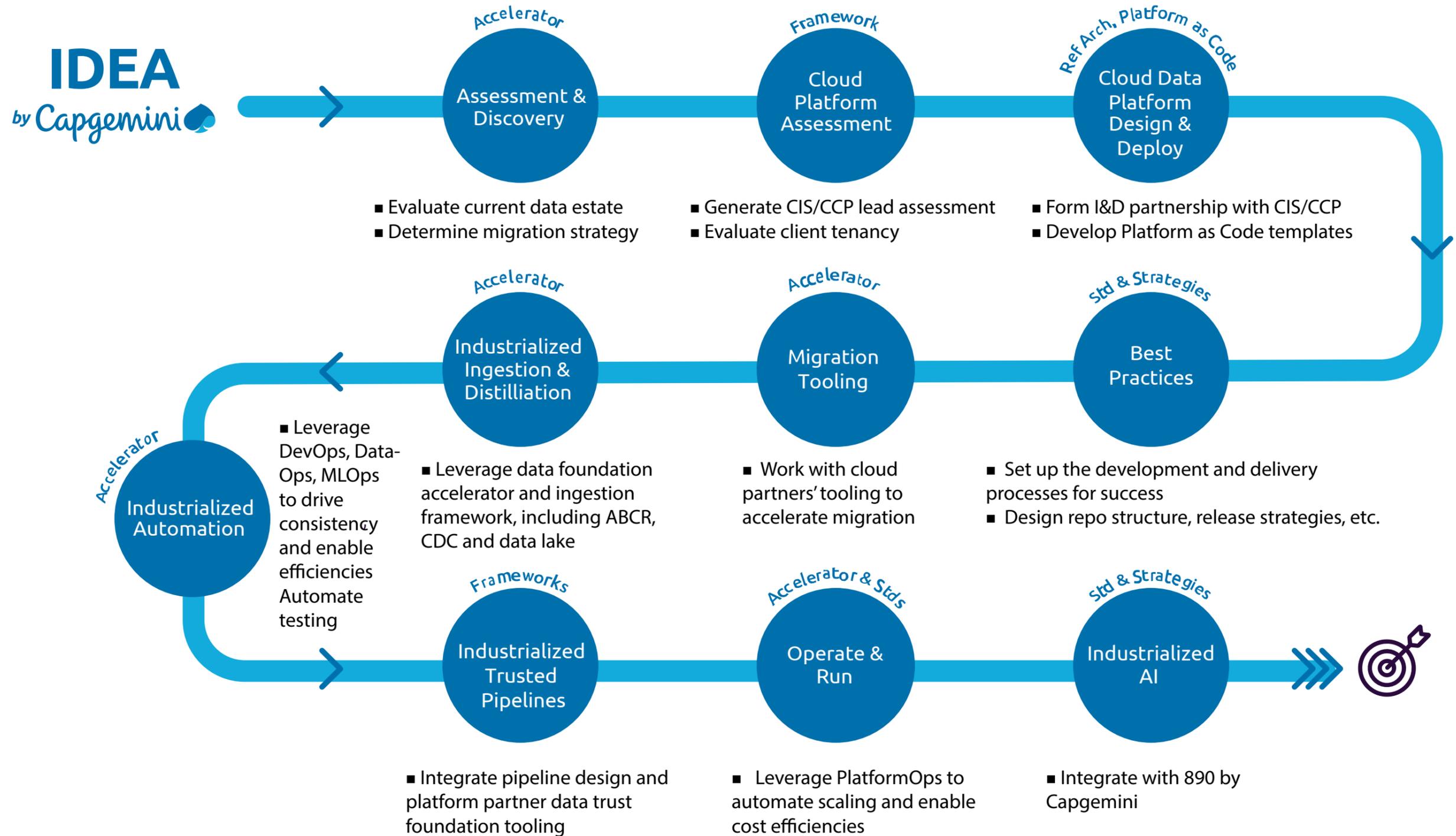
## Data Collaboration Studio

Establishes a framework for AI and data mesh to help clients enable new revenue streams through advanced data sharing capabilities and new technologies from hyperscalers.

## Data Operation Audit and Control Center

Monitors data pipelines, audits the services and oversees all aspects of data trust and security across the enterprise, ensuring the organization maintains standards for cleanliness, compliance, privacy and ethicality.

# What is its full capacity?



# Reduce your data journey by up to **6 months**

IDEA by Capgemini provides a clear, fast, and scalable path from innovation to industrialization, shrinking the data estate modernization timetable – all while maintaining the highest levels of security, compliance, ethicality, and trust.

1 Turbo-charges the data migration process, helping organization shift from a legacy solution to a modern, cloud-based platform (i.e., Teradata to Azure/Snowflake).

2 Infuses data security and trust from the outset, ensuring data cleanliness, compliance and ethicality.

3 Establishes an industrialized data ingestion framework that uses metadata-driven ingestion, orchestration, quality and ABCR to allow organizations to generate real-time insights.

4 Automates data quality, lineage, classification, standardization, and MDM to accelerate solution migration and delivery.

5 Connects data pipelines and models to ease ML operations, expediting model build, training, and deployment.

6 Grants organizations freedom and flexibility via a robust microservices architecture and Kubernetes' portable, extensible, open-source platform.

## Think big

Design for industrialization  
**Start small, Scale fast**

# Accelerate your potential

Powering an agile cloud environment and enables enterprise-wide AI & analytics adoption to drive data industrialization and accelerate business value.

## Scenario 1: Fast Industrialized MVP

	 1 Day	 1 Week	 4 Weeks	 6 to 12 Weeks
<b>Capabilities</b>	IDEA cloud services provisioning	IDEA tools including AI workbench	Industrialized Ingestion	AI and analytics first use case fully in production
<b>Benefits</b>	Platform and data engineers begin to develop use case. Data scientists deploy existing solutions	Data scientists start developing new use cases with non-industrialized data sets	Data ingested, secured and trusted Ready for full usage in production	Business benefits in production in client's IT ecosystem

## Scenario 2: Turbo-Charged Data Discovery & Migration

- 1 Accelerate the transition from a legacy solution to any modern, cloud-based platform
- 2 Reduce the migration process from +1 year to just 5 months

### Elements

- Design & Approach
- Environment Set Up
- Schema Migration
- Data Migration
- Code Migration
- Integration
- Data Test | System Integration Testing | User Acceptance Testing

## Scenario 3: Industrialization with Data Platform as a Code

- 1 Create a scalable, secure, trusted, and resilient environment that enables Data & AI workloads and solutions at scale
- 2 Accelerate time to value by six months

### Elements

- Design & Approach
- Data Trust Foundation
- Industrialized Data
- Ingestion
- Federated Data Lake
- AI/ML Execution & ML Ops

## Scenario 4: End-to-end Data Estate & BI Modernization

- 1 Leverage all IDEA modules to rapidly complete data assessment and migration, as well as solution deployment and operation
- 2 Launch operations in as little as 5 months

### Elements

- Data Estate Inventory
- Full Data Migration
- Full Data Industrialization
- Infrastructure and Operation Integration
- Helpdesk & AM Capability
- Platform Engineering & Production Support

Learn how IDEA by Capgemini can help your organization modernize, democratize, and industrialize your data estate:

[Schedule a demo](#)

NOW IT'S TIME TO ASK

**How can we help  
make data your  
competitive edge?**

## Contact

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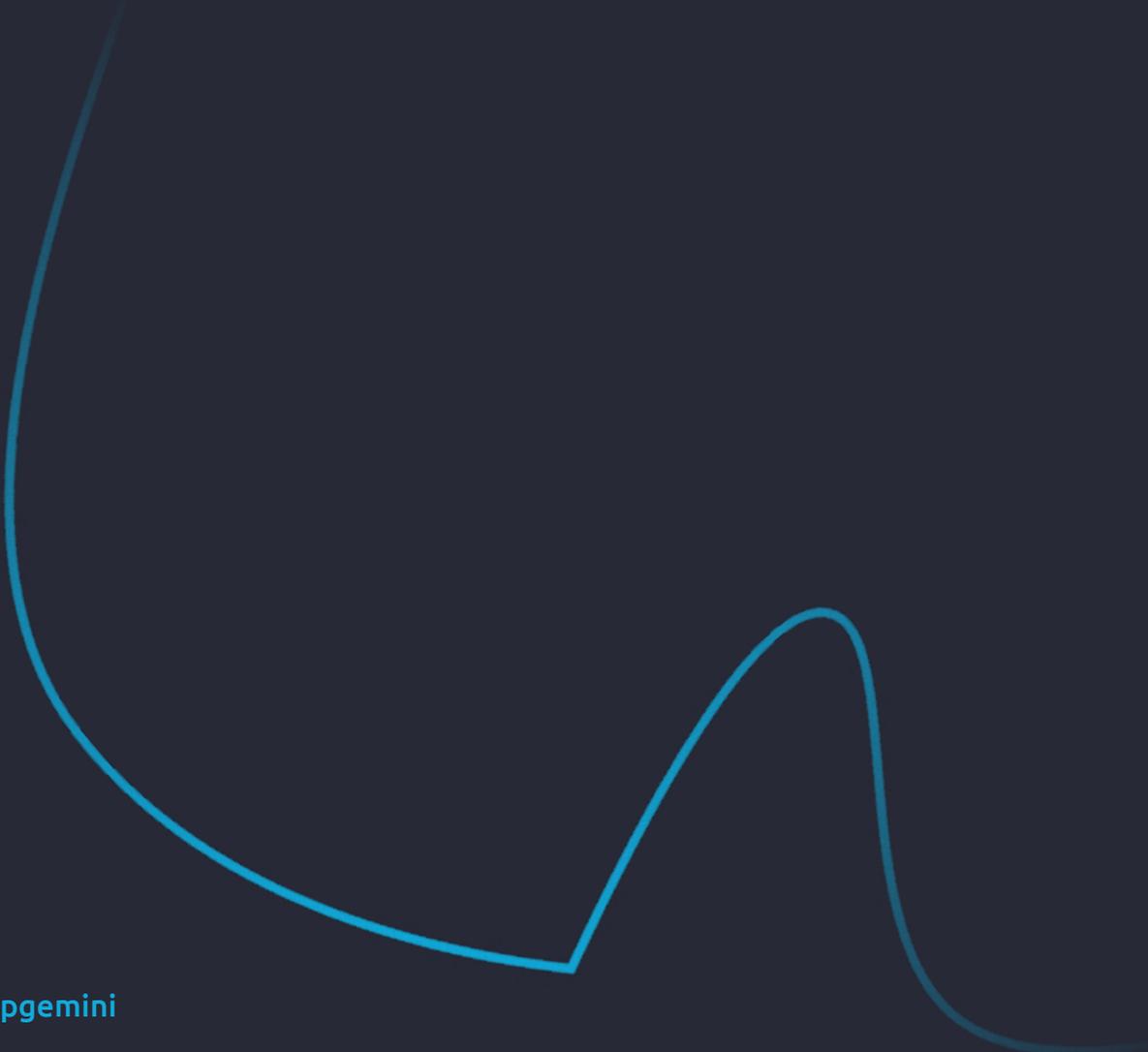
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**Learn more about us at**

[www.capgemini.com/ideabycapgemini](http://www.capgemini.com/ideabycapgemini)



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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 270,000 team members in nearly 50 countries. With its strong 50 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 2020 global revenues of €16 billion.

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