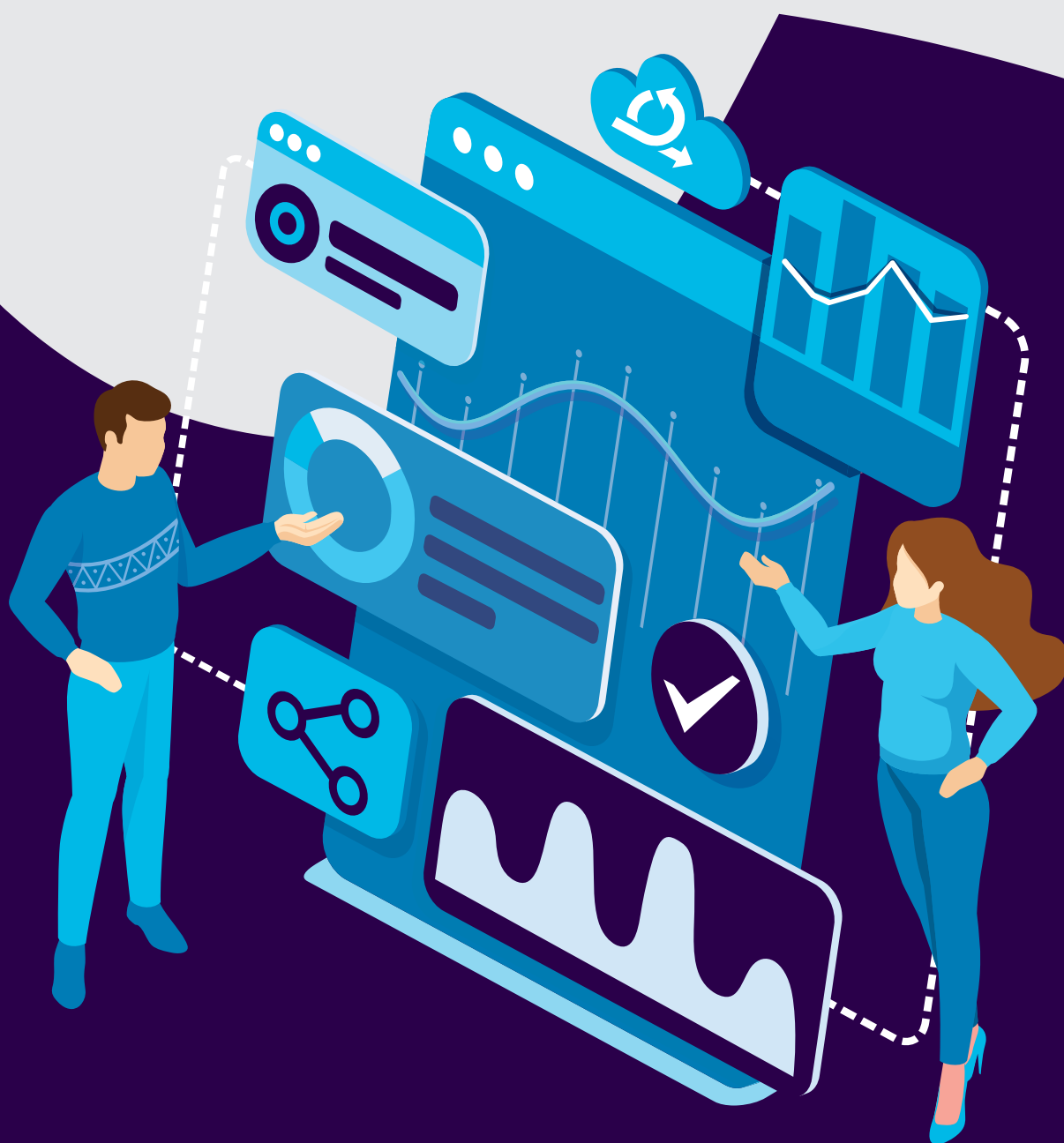




Bring agility to your data warehouse operations

Get away from costly legacy platforms and bring agility, analytics, security, and efficiency back to your data warehousing operations



For banks and capital market firms, instant data access is vital to making smart decisions about issuing loans and credit, pricing risk, and protecting their customers from fraudulent activity. But the exponential growth of data across all industries is making it increasingly difficult to extract meaningful insights from big data, resulting in slower data processes and reaction times. Operating a data warehouse that can store your data doesn't mean you can access it the way you need to. If your stored data is siloed and inconsistent, of poor quality, or in breach of privacy legislation such as GDPR, you're not going to be able to extract the full value from it. And, if your future plans include providing access to more users, this too will generate performance issues in accessing the data. So how can you overcome all of these problems and take control of your data?

The Capgemini data estate modernization services help organizations solve their big data problems. These services will transform your organization's relationship with its data in a way that supports your people, processes, and technology.



The Capgemini data modernization framework

Data estate modernization is the transformation of people, processes, and technology—as well as your organization's relationship with data—to support the level of business innovation and change required to be a market leader in the modern world. Having this framework in place is a critical step toward being able to implement data-driven AI and analytics at scale to support future innovation and industrialization.

Our data modernization framework assists you with retiring your legacy data repositories and migrating to a solution that takes advantage of hybrid models and incorporates Google Cloud Platform (GCP) to help customers design, implement, and manage their modern data platform.

Security is a central element to the framework, as the migration of data systems to cloud environments can expose data security issues and requires data quality checks. Our clients can be certain that our approach to data landscape migration addresses all such performance, data quality, and security parameters.

Data estate modernization process includes:

- Data warehouse migration to GCP targeting Terradata, Netezza, Oracle Exadata, Greenplum, and DB2 workloads
- Hadoop migration to GCP targeting Hortonworks, MAP R, and Cloudera workload
- Mainframe migration to GCP

The process may optionally include architecture and advisory services, as well as native implementation services in GCP.



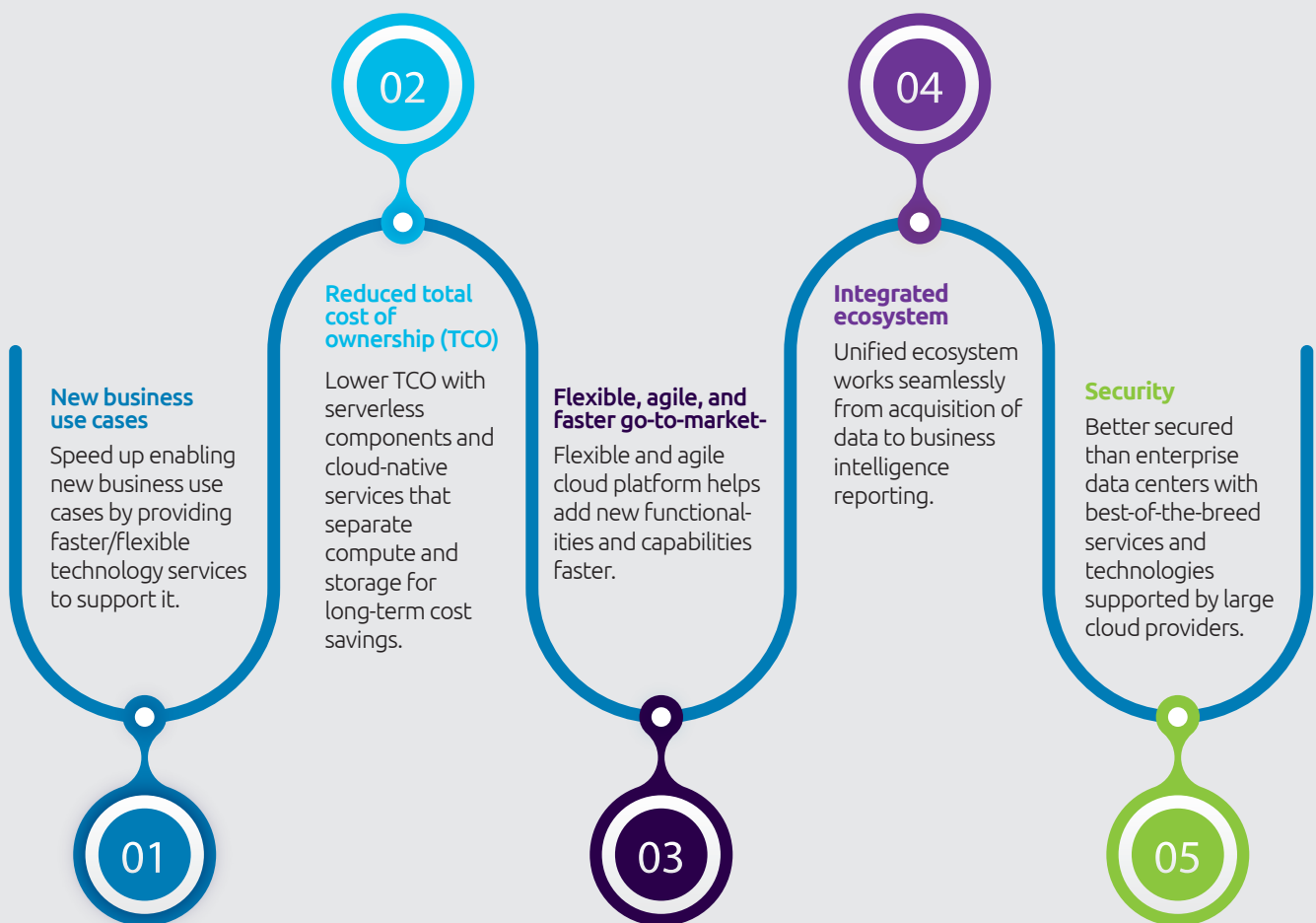
Data transformation roadmap

The data transformation journey begins with the modernization of your current data estate, leading up to the migration of your existing data to a flexible setup such as hybrid cloud or multi-cloud. While the main focus of data transformation is always on developing a long-term future-proof solution that changes the way your organization uses data, there are also use cases that can be delivered quickly so you can see value early on. Our Accelerated Solutions Environment (ASE) workshop brings key stakeholders together with Capgemini experts to develop the bold vision that is needed, typically in three to five days.

Our “start small” principle means that the first use case is delivered quickly, with additional use cases being put into production when you’re ready. The process is facilitated by our accelerators for implementing architecture and infrastructure. These guarantee that innovation and development happen early in the roadmap and expedite execution of the full data transformation.

Business innovation and value

The Capgemini Data Modernization Solution accelerates the way you create business value, consume data, and go to market.



Use case: Data platform modernization for a large payments company

The problem

Capgemini was approached by a large payments company to consolidate multiple disparate data platforms to a singular platform on Google Cloud. The client tasked us with eliminating the following issues:

- Inefficiencies from redundant data solutions and applications
- Latency when viewing/extracting data in the reporting application
- Poor performance while processing daily incremental data (requires resolution)
- Latency experienced by internal users and reporting applications

Beyond performance, the client also wanted to establish defined business processes for data governance, security, and privacy and to reduce their TCO.

The solution

Capgemini partnered with the client to deliver a centralized data strategy solution that included end-to-end architecture design and definition to meet their strategic objectives and future needs. This solution included:

- A future-proof design using industry-leading technologies with flexibility to support streaming data
- A simplified architecture that contributed directly to reduced TCO
- A massively parallel data warehouse (BigQuery) with the ease of use of PaaS to increase performance and scalability
- Framework/template jobs that significantly reduced future development efforts
- Ability to process data without heavy IT support, allowing users to extract value from data unassisted

The results

Through a strategic partnership, Capgemini provided the leadership, subject-matter expertise, and execution capabilities to help this payment client launch a new strategic initiative. They now have a future-proof design and architecture and are building a centralized data lake for analytics and reporting.

Capgemini facilitated the migration of more than two years of historical data from Netezza/Oracle to BigQuery and created and deployed dataflow pipelines for incremental loads to cloud. Security is provided via identity and access management for user authentication and authorization, including Stackdriver monitoring, logging, and dashboard for cloud applications.

Ultimately, the client was able to meet its short-term goals (MP launch) and establish people, process, and technology initiatives to meet its future goals.

Big data isn't going to wait for you

The era of big data is just getting started. But the Capgemini big data solutions bring together the right technology, processes, and culture to help organizations of every size take control of their warehoused data by leveraging the efficiency and agility of cloud. We offer a portfolio of cloud and data services and accelerators in a single cloud management platform to help enterprises build and achieve a sustainable competitive advantage in a fast-paced digital world. Together, we can build a strong foundation for the transformation of your data estate to a modernized cloud platform with the power of Google Cloud Platform.







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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People matter, results count.

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