





Winner

Accelerating DevOps with DORA

Recognizes successful integration of DORA practices and guidance into their workflow using Google Cloud tools

About

Founded in 1870, <u>Deutsche Bank</u> is Germany's leading bank and a global financial services provider to companies, governments, institutional investors, small- and medium-sized businesses, and individuals.

Challenges

More than 150 years old, Deutsche Bank is a complex business with operations spanning some 58 countries and layers of legacy systems. The company's 30,000-strong technology, data, and innovation organization mirrors the complexity of the bank as a whole. Across its nine divisions there is wide variance of maturity, technology stack, importance to revenue generation, future orientation, and application size.

Leaders decided to introduce Google's <u>DORA</u> <u>framework</u>, a benchmarking process based on data from more than 32,000 participants, to enable cultural change and to drive superior DevOps performance at the bank. This required tailoring the DORA process for individual teams while still capturing divisional insights and developing an approach that met future-use ambitions.

Objectives

The organization's technology, data, and innovation objectives for DORA implementation revolved around cost reduction in multiple ways:

Engineering capability - A previous strategy
of outsourcing to contractors degraded internal
practices and increased costs for the maintenance
of legacy systems.

- Service stability Availability and reliability are
 paramount to revenue generation in the bank's key
 activities such as settling financial trades. Thousands
 of transactions occur every minute, so any period of
 instability or unavailability causes significant
 lost revenue.
- Regulatory compliance System outages can
 prevent the bank from fulfilling its regulatory duties,
 such as reporting transaction data to government
 entities. Regulators have stringent requirements for
 both completeness and timeliness of this reporting
 and have imposed significant fines for lapses.
- Technology The bank has a complex and costly IT estate. Duplicated functionality runs on expensive infrastructure with minimal automation and burdensome governance. The team sought to reduce risk, complexity, and cost while supporting innovation and growth.

Solution

Deutsche Bank's technology organization executed DORA evaluations including 22 assessments across more than 90 teams and 1,700 respondents who collectively represented multiple billions of dollars in revenue generation for the bank.

The themes that emerged from those assessments pointed to the potential for the biggest improvements from adopting loosely coupled architecture, cloud services, and small, frequent code updates.

In partnership with Google Cloud, Deutsche Bank set out to accelerate its technology transformation. A more rapid transition to the cloud would enable the bank to improve resilience, deliver new capabilities to its customers quicker, and reduce cost over time.

DORA provided a common framework for implementing these improvements. The concepts are being rolled out top-down through Deutsche Bank's engineering and architecture manifesto to provide shared vision, and bottom-up through grass-roots initiatives such as enhanced metric reporting and widespread rollout of the DORA capability assessment.

Under this program, the bank will migrate 1,400 core applications to the cloud over five years and is focused on increasing technical self-sufficiency and incorporating core practices such as stronger DevOps and SREs.

Results

Evidence of the impact has been striking. One early-adopting team increased its release frequency by threefold and achieved a 40 percent reduction in incidents over the first three quarters of 2021. Another team sped up deployment by 60 percent and reduced incidents by 9 percent. Adoption of DORA by two lines of business in the risk, finance, and treasury function yielded early cost savings of EUR 500,000.

Deutsche Bank has found that higher DORA performance scores correlate to faster release cycles, and these teams are affected by –and cause – fewer incidents.

Alignment with DORA is enabling the bank to undertake large changes while maintaining technical and compliance controls and achieving consistency and velocity in its DevOps practices. Deutsche Bank targets frictionless development so it can focus resources on innovation and new functionality.

Automation will underpin these efforts. Other benefits include streamlined workflows, reduced staff costs, stronger teamwork, and enhanced shared knowledge.

By 2025, the bank is targeting "high status" for critical applications including:

- · Lead time of less than a day
- Change failure of less than 15 percent
- Cycle time of less than a day
- On-demand deployment frequency
- · MTTR of less than an hour





Working with Google

Deutsche Bank and Google worked together to implement DORA at the bank. Initially, the two organizations created a lightweight version of the DORA assessment to demonstrate utility among a small group of Deutsche Bank participants.

Google then supported the bank on an initial pilot of a full DORA assessment. That produced insights on how to deploy DORA at scale across Deutsche Bank teams including with teams too small for a full assessment. That led to a "quick check" process and a train-the-trainer approach to scale delivery.

To learn more about Deutsche Bank's successful project, check out this video.