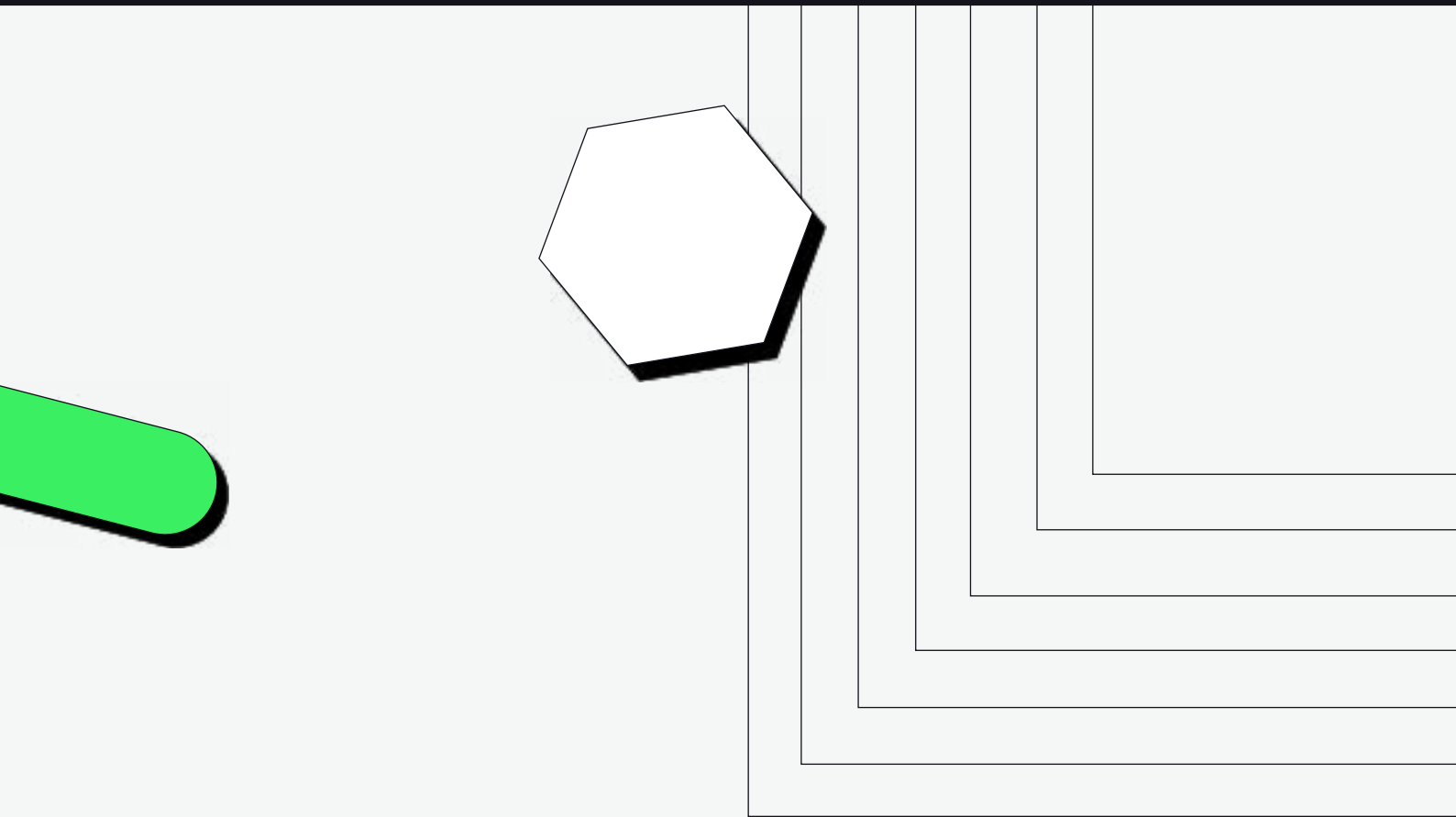


CASE STUDY



Deutsche Bank and Synthesized

Modernizing QA with compliant, scalable test data infrastructure



SYNTHESIZED

Background

In March 2024, Deutsche Bank's Credit Risk Technology team faced a critical challenge: despite tight ESG project deadlines, progress was blocked by the difficulty of generating high-quality, production-like test data. Traditional statistical approaches proved too time-consuming, and internal efforts to build a generative test data solution lacked the necessary technical resources.

To simulate complex business rules for onboarding nature-related risk client metrics, the team needed a faster, compliant alternative. After exploring options — including an in-house GAN (generative adversarial network) — they connected with the Bucharest Innovation Incubator and discovered Synthesized, an enterprise-grade platform for generating high-fidelity product-like test data.



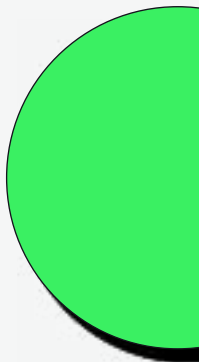
One step further

Deutsche Bank adopted Synthesized's platform as part of its broader initiative to modernize testing infrastructure and accelerate innovation across critical systems. Delivered via a REST API, Synthesized enables the automated generation of compliant, high-fidelity test data from sample files — mimicking production data while preserving privacy.

To increase adoption, the Credit Risk Technology team developed a custom user interface (UI) on top of the Synthesized API. This made it easier for non-technical teams to generate test data and integrated the tool directly into CI/CD pipelines for seamless delivery into testing environments.

Throughout implementation, the team worked closely with Synthesized's engineering and support teams to tailor the solution to their needs. They also collaborated with internal AI/ML experts to extend Synthesized's capabilities to support rule-based data generation and custom formats, ensuring test data aligned with complex ESG onboarding rules.

The result was a reusable, enterprise-ready testing capability that not only met the immediate demands of the ESG project but also established a foundation for future automation and efficiency across test data workflows.



Solution

Synthesized's platform addressed DB's challenges with the following capabilities:

COMPLIANT TEST DATA ACCESS

Synthesized generates synthetic test data that mirrors real production data while eliminating PII — enabling teams to build and test confidently within regulatory guardrails.

ACCELERATED DEVELOPMENT CYCLES

Teams gain immediate access to safe, production-like data — cutting provisioning time by 80% and enabling earlier, faster, and more scalable testing.

STRATEGIC USE CASE ENABLEMENT, SYNTHESIZED ENABLED:

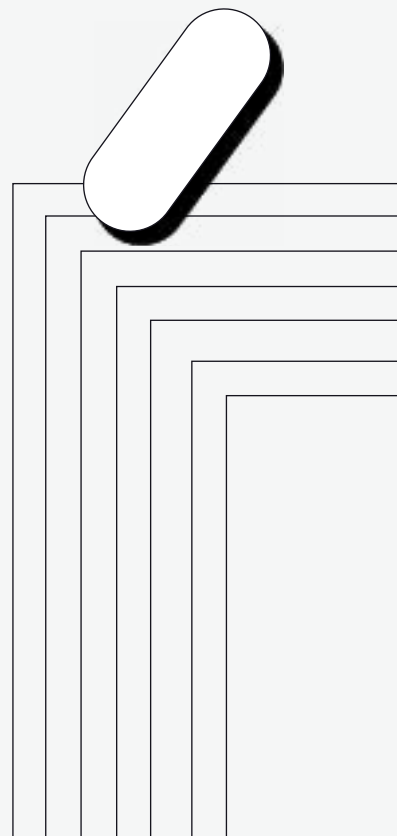
[1] Data mesh compatibility: compliant datasets created and shared securely.

[2] ESG onboarding simulation: mirroring real-world complexity without compliance risks.

[3] Test data pipelines: reusable test data configurations integrated into CI/CD.

EASE OF USE ACROSS TEAMS

The intuitive interface built by DB allowed technical and non-technical users to access, generate, and manage test data securely.

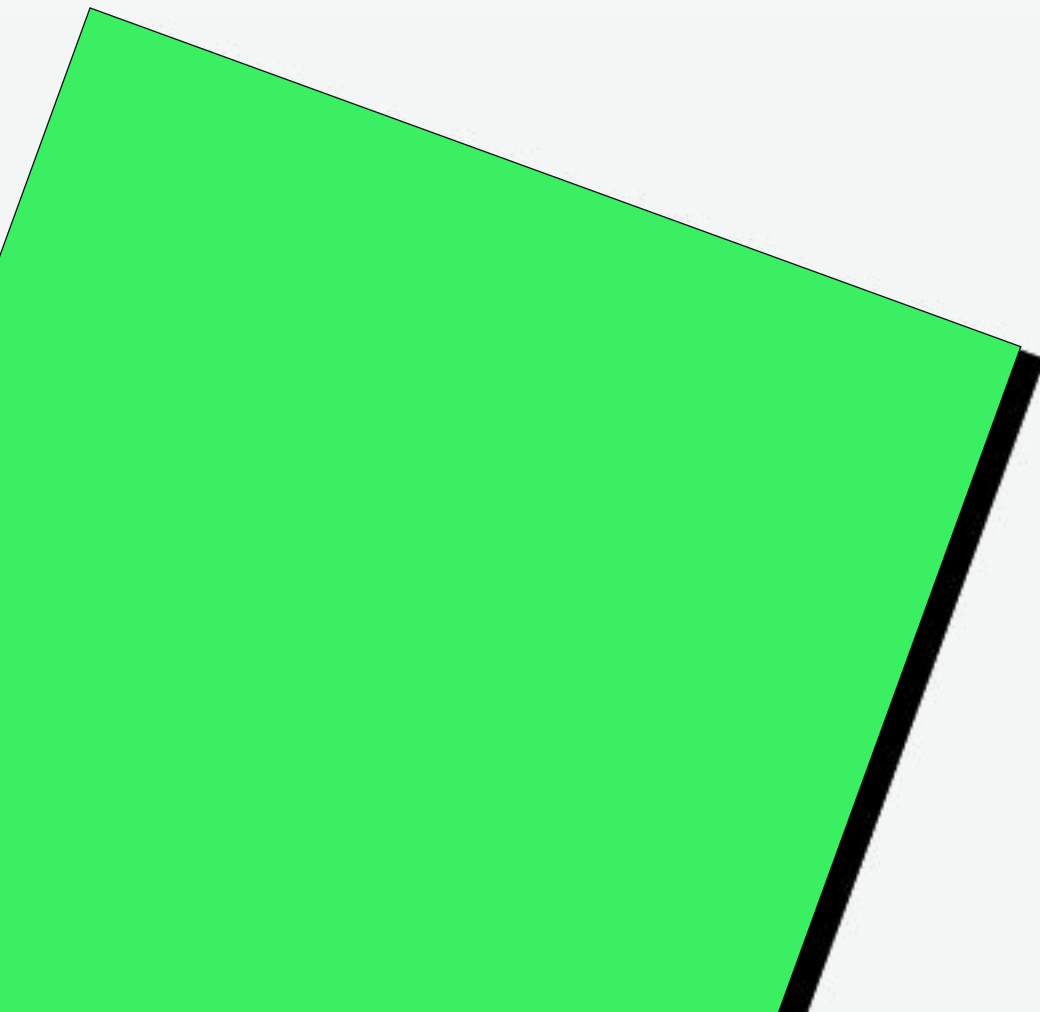


Results

- ✓ Compliance without compromise: Synthesized eliminated test data risk by generating secure, production-like datasets with built-in privacy.
- ✓ Faster testing cycles: Deutsche Bank significantly reduced data access delays and testing bottlenecks, accelerating key initiatives like ESG.
- ✓ Operational efficiency: Manual provisioning time dropped dramatically, reducing overhead and increasing development bandwidth.
- ✓ Platform for innovation: The new test data infrastructure supported new experimentation, faster feature delivery, and reusability across teams.

Conclusion

The partnership between Deutsche Bank and Synthesized illustrates how modern test data infrastructure can accelerate transformation in financial services. By eliminating test data bottlenecks and embedding compliant, intelligent test data generation into development workflows, DB was able to move faster, test more securely, and unlock innovation in ESG and beyond. This collaboration is a model for how enterprises can future-proof their software testing and gain a strategic edge.



With Synthesized, automate the provisioning of your test data while maintaining compliance. Securely generate, subset, mask, and anonymize data, enabling shift-left testing and ultimately delivering a better product.