

Why Synthetic Data Is Essential for Your Organization's AI-Driven Future



What is synthetic data and why do you need it?

Organizations use synthetic data generated by AI when real data is unavailable, inadequate or inappropriate because of:

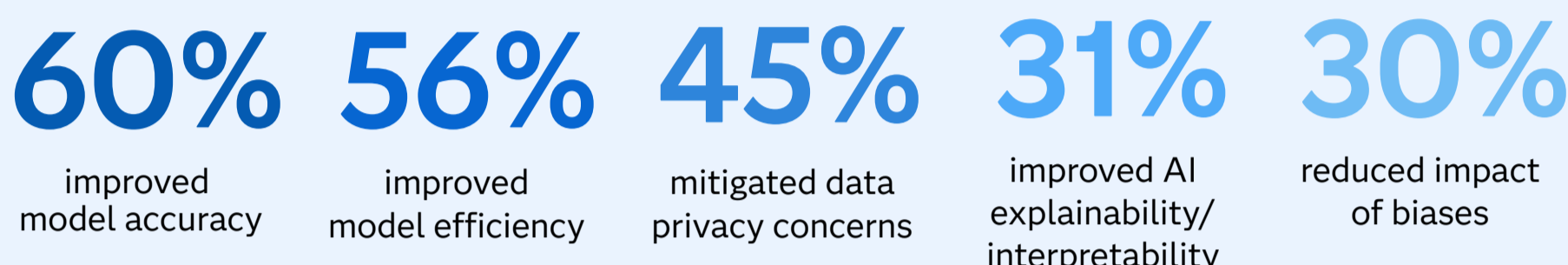
- Sensitive or private information
- Prohibitive cost
- Hand-labeling inefficiency
- Bias or imbalance
- Rare-scenario data shortages

By 2026,
75% of businesses will use generative AI to create synthetic customer data, up from less than 5% in 2023.

Source: *Gartner®, Predicts 2024: The Future of Generative AI Technologies, 28 February 2024.*

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Benefits of synthetic data for organizations



Source: *Gartner Peer Community™, Generative AI for Synthetic Data, 2023*

Research shows mixed feelings about the use of synthetic data



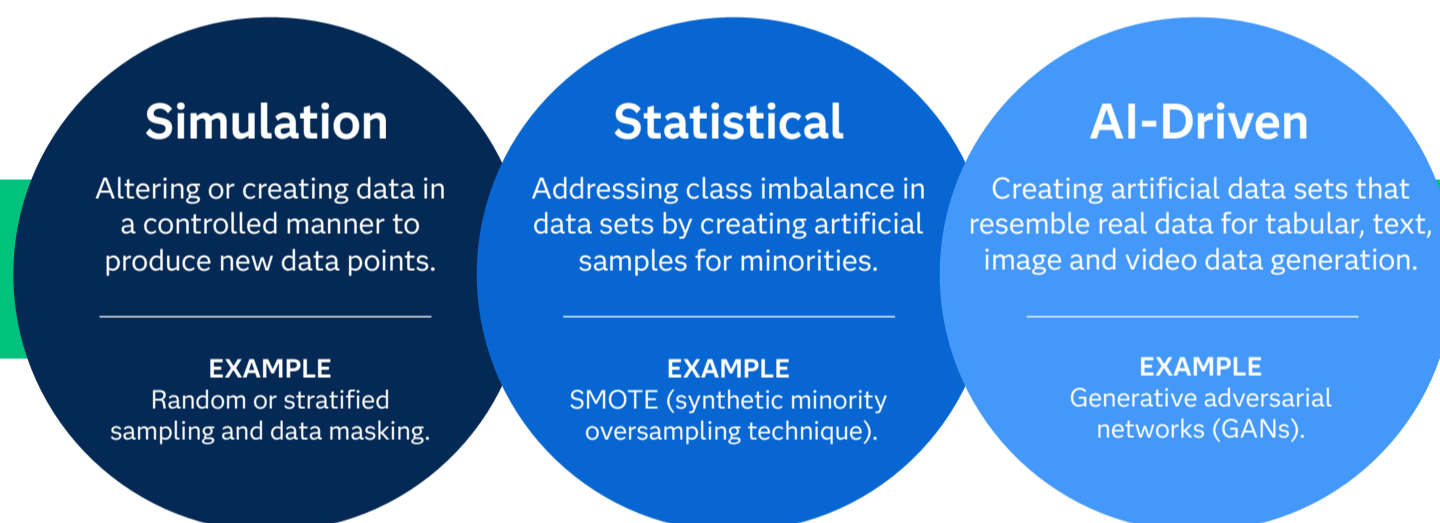
75% are concerned about data privacy and security when generative AI is used in their organizations.



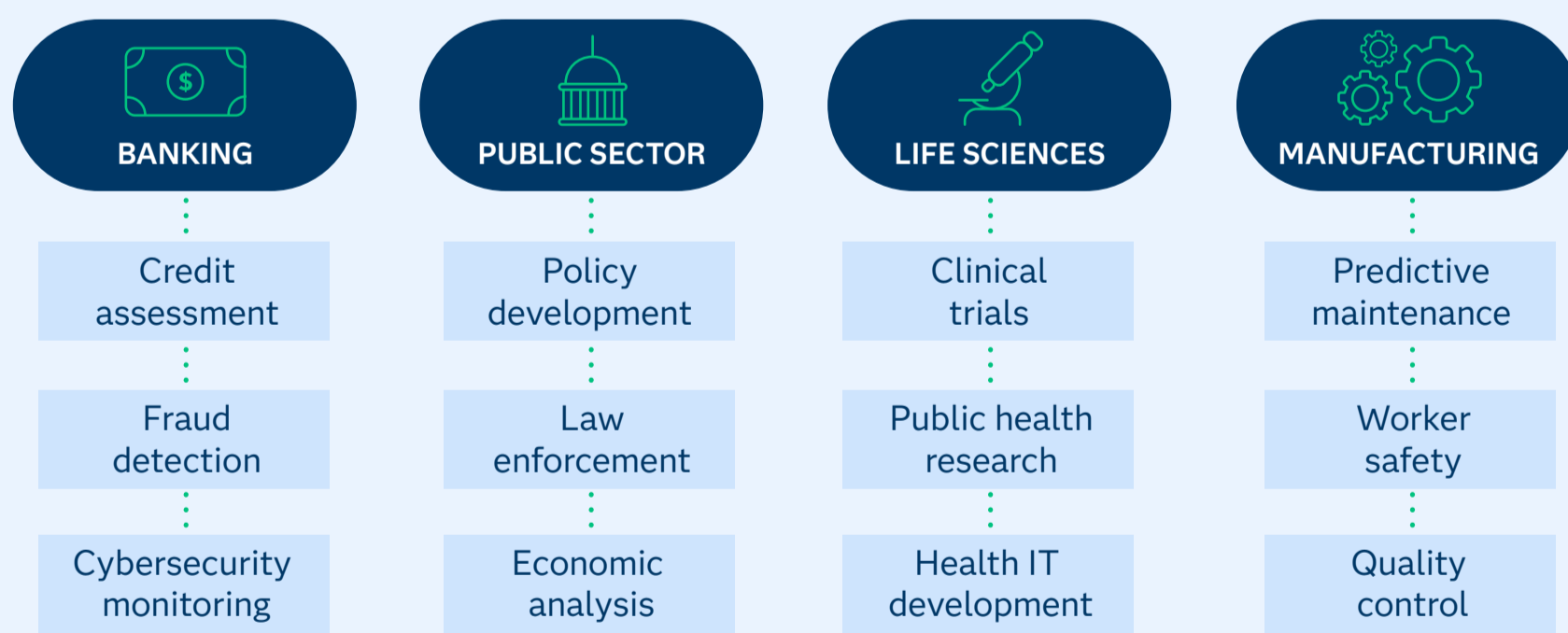
80% show strong interest in using synthetic data to address data challenges to support generative AI initiatives.

Source: *Research Report: Get in the Know on Generative AI*

Methods for generating synthetic data



Synthetic data uses



Best practices for ensuring quality of synthetic data

- Select right data generation technique
- Address privacy requirements upfront
- Validate generated synthetic data
- Combine data augmentation and data generation techniques
- Leverage approaches that scale for your enterprise

“Synthetic data that is accurately generated and rigorously validated is an indispensable resource for robust and trustworthy AI models.”

BRETT WUJEK, HEAD OF PRODUCT STRATEGY FOR GENERATIVE AI, SAS



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