## Closing the data gap: AI-driven quality control with synthetic data

**Curf** has developed **Synigen**, an end-to-end solution that leverages synthetic data to train computer-vision models for quality control faster, cheaper and with higher accuracy. It tackles challenges such as defect- and tolerance-detection in manufacturing as well as object recognition— especially in settings where expensive hardware, limited labelled/annotated data and rare defects often cause projects to fail.

With a library of realistically rendered defects, fully automatic labeling and annotation free of human bias or GDPR concerns, plus "batch-in-no-time" generation of data, Synigen dramatically shortens the time to a working AI model while driving down costs.

Beyond the data pipeline, Curf delivers complete integration—from hardware through ERP/PLM connectivity, robotization and cloud infrastructure (Azure)—so customers can start performing object and anomaly detection from day one.