

DATAMATICS

Quality Engineering and Assurance Services



Today's software cannot afford delays or defects; speed, security, stability and quality are non-negotiable. Applications continue to grow complex & release cycle shrink; manual or traditional testing cannot keep up with the pace.

Datamatics' Agentic AI-powered Quality Engineering ensure autonomous and intelligent self-driven testing capabilities. We help reduce testing efforts to deliver continuous Quality Assurance and strengthen the Software Development Lifecycle. Recognized as a trusted partner in Quality Assurance by clients, we leverage proprietary AI-powered testing accelerators and strategic partnerships with leading technology platforms, we deliver scalable Software Testing and Quality Assurance services.

Our experts deliver end-to-end solutions tailored for enterprises help navigate the complexities of Digital Transformation and AI adoption.

The outcomes - 30–50% faster time-to-market via automation, 70% reduction in manual test design effort, 99% defect-free releases for mission-critical applications & 60% improvement in test cycle efficiency.

SERVICE OFFERINGS



Advisory & Consulting

- QE Maturity Assessment Framework
- Build QE Strategy and Roadmap
- SQA and Audit Preparedness
- Process Optimization & Best Practices



Agentic AI powered Functional Testing

- Autonomous Test Generation
- Automation Script Generation
- Self-Healing Test Automation



Non-Functional Testing

- Performance Engineering
- Security & Penetration Testing
- Compliance Testing
- Accessibility Testing
- Embedded Testing
- Compatibility Testing



Test COE/Managed Services

- Centralized Governance and Strategy
- Standardization of Resources, Processes, Methodologies & Tools
- End-to-end management of testing activities from planning to execution

ADVISORY AND CONSULTING – QE MATURITY ASSESSMENT FRAMEWORK

01. Test Approach & Governance

- Requirement Management
- Test Strategy and Planning
- QA Org, R/R and Test Competency
- Test Estimation techniques

02. Test Design and Execution

- Test Design & Test Planning
- Quality Gates
- Requirement Traceability
- Risk Management

03. Tools and Automation

- Test Automation Framework Design
- Automation Tools, Service Virtualization
- Tools in STLC and its integration
- Test Automation Metrics, Measurement and ROI & Maintainability

04. Non-Functional Testing

- Performance & Security Strategy
- Processes & Methodologies
- Tool Landscape
- Test data & Environment Mgmt.

05. Continuous Testing

- Shift Left-Right Approach
- DevSecOps
- Testing in pipeline
- Built in Quality

06. Defect Management

- Defect Management
- Triaging
- RCA
- Defect RT

07. AI in Testing

- GAI in Testing Life cycle
- Shift-Deep testing
- Scriptless Automation
- Self Healing Capabilities

08. Agile

- Agile life Cycle
- In sprint Automation
- Release Management
- Backlog Management

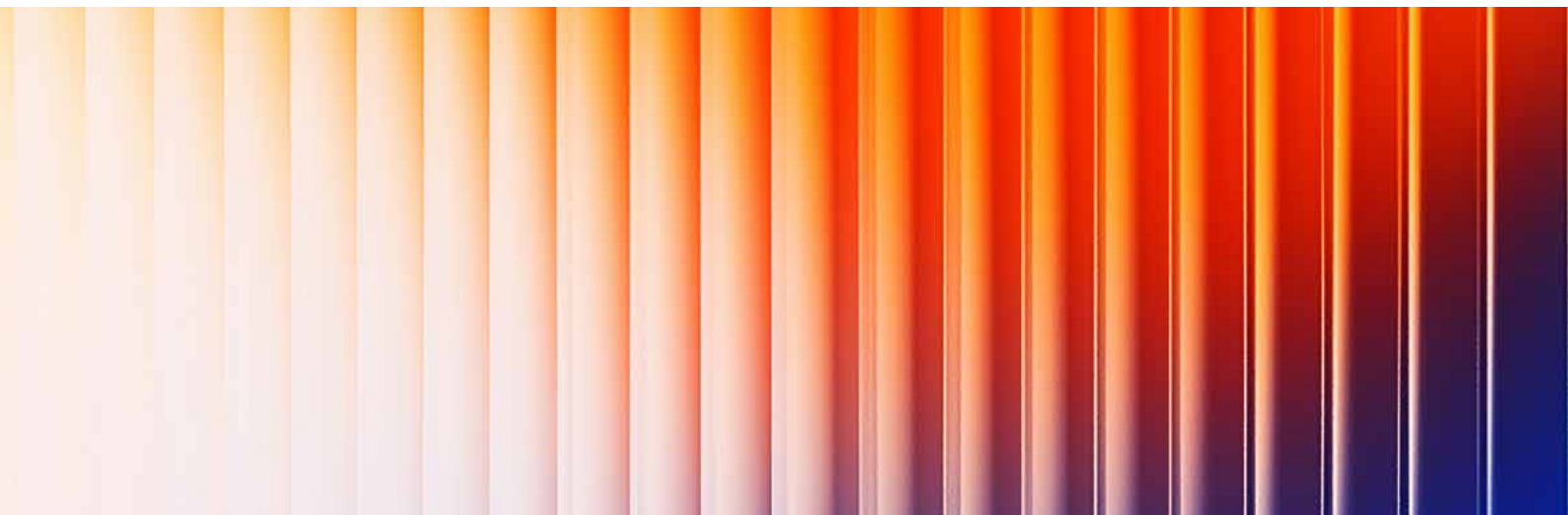
09. Metrics & Measurement

- Metrics Framework
- Baselines
- Dashboard and Reporting
- Analysis and Predictability

10. Test Data Management

- TDM Tools & framework
- Data Consulting, Data masking, Data Creation
- Data Management

*Benchmark: Process Maturity Rating – CMMi/TMMi 2.0 standards



CONTINUOUS TESTING @ SCALE – “DATAMATICS WAY”

SHIFT-UP

Use AI/ML on data generated during testing for Continuous Improvement

- Ensuring that software meets customer expectations and delivers business value.
- Use testing data and AI to drive testing
- Test Early and Often
- Focus on Defect Prevention and Smart Testing

SHIFT -LEFT

Moving Testing Closer to Engineering

- Embed testing right from the sprint planning phase and continuous collaboration with Dev, OPS, and product owners in defining test requirements
- Establish quality driven development culture (TDD/BDD)
- Setup test labs with required environment configurations, test data, tools, and frameworks
- Setup test pipelines to run automated tests at code level (unit, SAST) and scale through releases

SHIFT-RIGHT

Continue Monitoring on Production

- Continuously Monitoring the applications and infrastructure performance and availability
- Validate the security weaknesses in applications and infrastructure by periodic security scans
- Gather issues and feedback from user transactions, and perform RCA and provide recommendations to the business teams

KEY ACCELERATORS

Agentic AI Powered KaiTest:

An Agentic AI Powered Testing Platform autonomously generates test case & automation scripts saving upto 50% efforts.

QMetrics360:

Real-time dashboards for test coverage, execution, and risk identification

AutoGen QA Suite:

Modular framework for data-driven, keyword, and hybrid test automation

NLQ to SQL:

Seamless test data retrieval from structured databases using natural language

Automated Data Migration Testing:

Enables precise one-to-one comparison between source and target data

ROI & BENEFITS:



Cycle Time:

30–50% reduction in testing effort and headcount



Cost Reduction:

20–40% reduction in TCO



Effort Saving:

70% reduction in manual test design effort



Improved Quality & Coverage:

99% defect-free releases, greater test coverage, fewer escaped defects and higher customer satisfaction.



Democratization & Collaboration:

Natural language test creation enables cross functional participation in QA.



Future proof & Scalable:

Aligns with emerging trends – Agentic AI as the top technology trend; modular design scales across the enterprise.

KEY PARTNERS:



SUCCESS STORIES:

- >> **30% Reduction in Testing Efforts** for a Leading Organization in Indirect Procurement using **KaiTest**
- >> **Improved turn-around time by ~40%** with end-to-end automation across Web, Mobile, API, D365 for a UK based Insurer
- >> Leading North American Logistics company consolidates & standardizes Test Management & Automation, **leading to 2X TAT on Test Results**
- >> Enhancing UX For Healthcare Applications with automated Visual Testing leading to **20% Reduction** in manual efforts
- >> **Reduced Regression Time by 50%** with Automated Regression Testing for a Banking Client
- >> A leading cloud solutions firm **accelerates regression testing by 30%** with integrated test automation solution
- >> Automated In-Sprint Testing For UK Insurer leading to **50% reduction in in-sprint testing cycle time; 80% effort savings** in test data creation and **70% reduction** in regression testing efforts



ABOUT DATAMATICS

Datamatics enables enterprises to go Deep in Digital to boost their productivity, customer experience, and competitive advantage. Datamatics' portfolio spans across three pillars of Digital Technologies, Digital Operations, and Digital Experiences. It has established products in Intelligent Document Processing, Robotic Process Automation, AI/ML models, Smart Workflows, Business Intelligence, and Automatic Fare Collection.

Datamatics caters to a diverse global clientele across Banking, Financial Services, Insurance, Healthcare, Manufacturing, International Organizations, and Media & Publishing. The Company has a presence across four continents with significant delivery centers in the USA, India, and the Philippines. To learn more about Datamatics, visit www.datamatics.com

FOLLOW US ON



© Copyright 2025 Datamatics Global Services Limited and its subsidiaries (hereinafter jointly referred as Datamatics). All rights reserved. Datamatics is a registered trademark of Datamatics Global Services Limited in several countries all over the world. Contents in this document are proprietary to Datamatics. No part of this document should be reproduced, published, transmitted or distributed in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, nor should be disclosed to third parties without prior written approval from the marketing team at Datamatics.

092025

website: datamatics.com

USA | UK | UAE | India | Philippines