

# Turbocharge your testing landscape with **AI-powered MAGE**

# Accelerating quality engineering in the age of daily deployments and DevOps

As enterprises embark on their next phase of digital transformations, the demand for daily deployments and DevOps practices becomes increasingly inevitable. In this fast-paced environment, accelerating Quality Assurance (QA) at speed and scale, by leveraging advanced Quality Engineering (QE) principles and practices has emerged as a critical competitive advantage. Despite leveraging advanced testing solutions and exploring test automations, organizations often find themselves grappling with significant efforts across various phases of the QA testing cycle.

## MAGE: Your gateway to AI-led quality engineering

Backed by three decades of testing experience and an industry-leading partner ecosystem, we offer end-to-end Quality Engineering services alongside MAGE, our innovative testing accelerator.

With MAGE, powered by cutting-edge AI/ML and predictive analytics, we revolutionize every stage of the testing process, from test case generation to tool management and test data generation. Seamlessly integrating into your existing tech stacks, MAGE propels testing efficiency to unparalleled heights, requiring minimal effort and causing minimal disruptions, all while delivering substantial business benefits.

## Revolutionize Quality Engineering with MAGE's AI-led Accelerator

- Reduce testing costs by **30%-50%** while releasing **4x-8x** faster.
- Shorten test cycle time by over **90%**, reducing overall resource usage.
- Enhance coverage with test optimization, using fewer test cases and cutting maintenance costs by **60%-80%**.
- Decrease application time-to-market by **25%** through early defect detection.
- Reduce production bugs by **20%** on average using test data management.



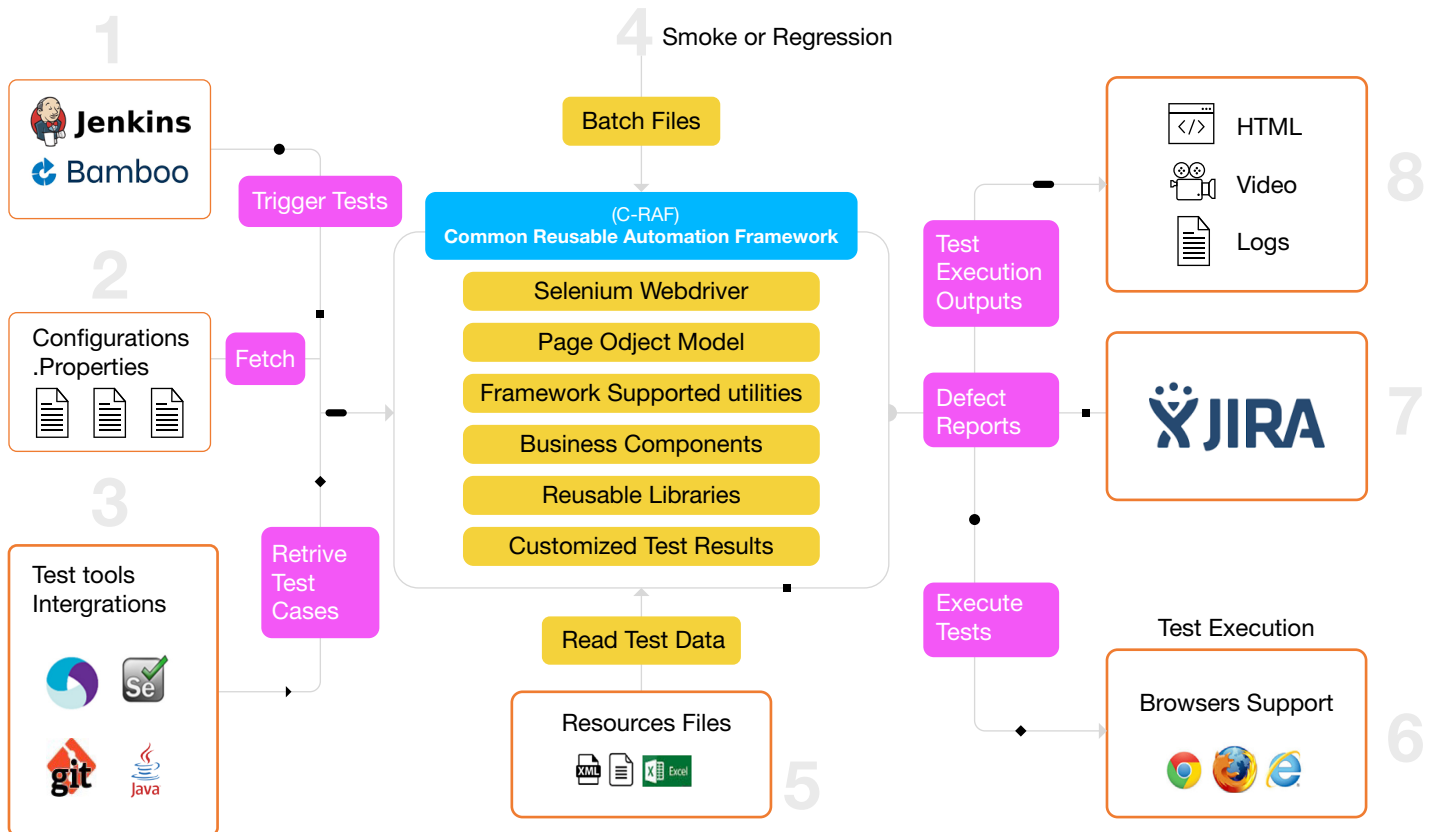
# MAGE-led quality engineering

## Test script generation



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## Execution Automation



# Transform Testing Dynamics with MAGE

## Test Case Generation

*Cover a wide range of scenarios and automatically generate test cases based on requirements and code*

Transform the test case generation process with MAGE for unmatched efficiency and precision. Slash testing costs **30% to 50%** with MAGE powered accelerator that:

Harnesses LLM engines to analyze natural language requirements and developer code and extract valuable insights for test case creation.



Generates test cases covering positive and negative scenarios, boundary conditions, and error handling.



Ensures robust test cases that include structured inputs, test data, expected outcomes, preconditions, and execution steps.



## Test Data Generation

*Generate secure, compliant, production mirrored, scaled data for testing*

Accelerate test data generation with MAGE and achieve software releases **4x-8x** faster! MAGE provides enterprise-scale capabilities and a marketplace approach, enabling your teams to use a single infrastructure for efficient data generation. The accelerator:

Adheres to data security principles and regulatory requirements like HIPAA and PCI.

Ensures data quality and consistency through tracking lineage, maintaining referential integrity, and version control.

Provides both real-time and batch access to data via APIs and supports AI model development with data up-sampling and feature discrimination.

Accommodates emerging medallion architecture to develop Raw, Curated, and Analytical data.

## Tools Management

*Bring augmented consistency and efficiency in using testing tools across different environments*

Leveraging AI, our MAGE framework streamlines the selection, configuration, and use of testing tools across various test environments. By analyzing each testing scenario, it identifies suitable tools and configurations, optimizing the testing process for efficiency. MAGE also promotes consistent tool usage and collaboration among testing teams, ensuring standardized practices and streamlined workflows.

## Defect Prediction

*Proactively identify and mitigate potential vulnerabilities within software applications.*

By analyzing historical test data, code repositories, and defect patterns, MAGE allows organizations to anticipate and address defects before they become critical, reducing the risk of software failures and improving overall product quality. With MAGE's predictive analytics, organizations can proactively manage defects, driving continuous improvement and innovation in their software development processes.

## The features that power MAGE-powered testing accelerator

- Robust and Extensible Framework (web applications across Chrome, Firefox, and Edge)
- Powered by industry-leading tools (Selenium, Katalon, etc.)
- Data-Driven Testing (DDT) and Reusable Functions
- Versatile Testing Capabilities (functional, acceptance, and compatibility testing)
- Cloud-Compatible
- Customizable Test Results
- Mobile App Compatibility
- Integration Ready

## Unlock Efficiency, Seamlessness, and Long-Term Value

- Harness our plug-and-play framework for effortless automation of web, mobile, and REST API applications.
- Enjoy a seamless, intuitive testing framework designed for web applications.
- Maximize efficiency with reusable scripts and minimized development efforts.
- Streamline testing cycles and reduce maintenance costs for greater efficiency.
- Expand regression coverage to ensure comprehensive testing and product stability.
- Customize reports for informed decision-making and tailored insights.
- Achieve long-term ROI with sustainable cost-effectiveness and tangible value.

## Why HTC for AI-led Testing

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Years of Testing practice



Strategic partnership with market-leading vendors in testing ecosystem

550+

QA Consultants working across the globe



Specialized in executing complex projects

110+

Clients with Testing Engagements



Proven ability to manage end-to-end testing through HTC's Testing Center of Excellence

Tricentis

Selenium

MICRO FOCUS

AVO

Katalon

SMARTBEAR ReadyAPI

ALUTOMATION ANYWHERE

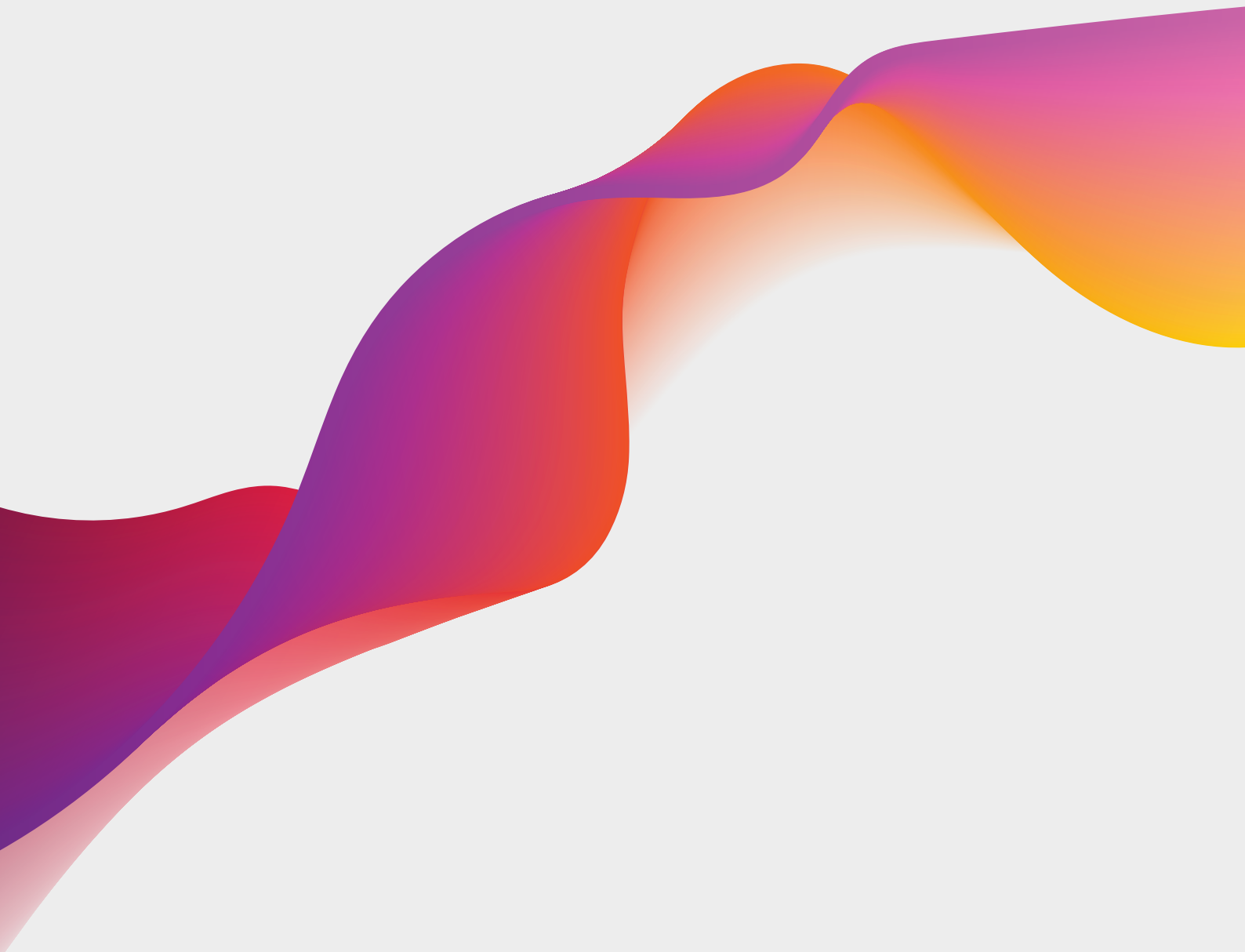
appium

Cucumber  
Supported by SMARTBEAR

cycle labs

Playwright

cypress



HTCNXT is an Enterprise AI solutions division reimagining customer experience and outcomes. We combine disruptive technologies, deep domain expertise, and our built-to-purpose platform to accelerate AI-led transformations for enterprises.

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