

#### CYGNET.ONE



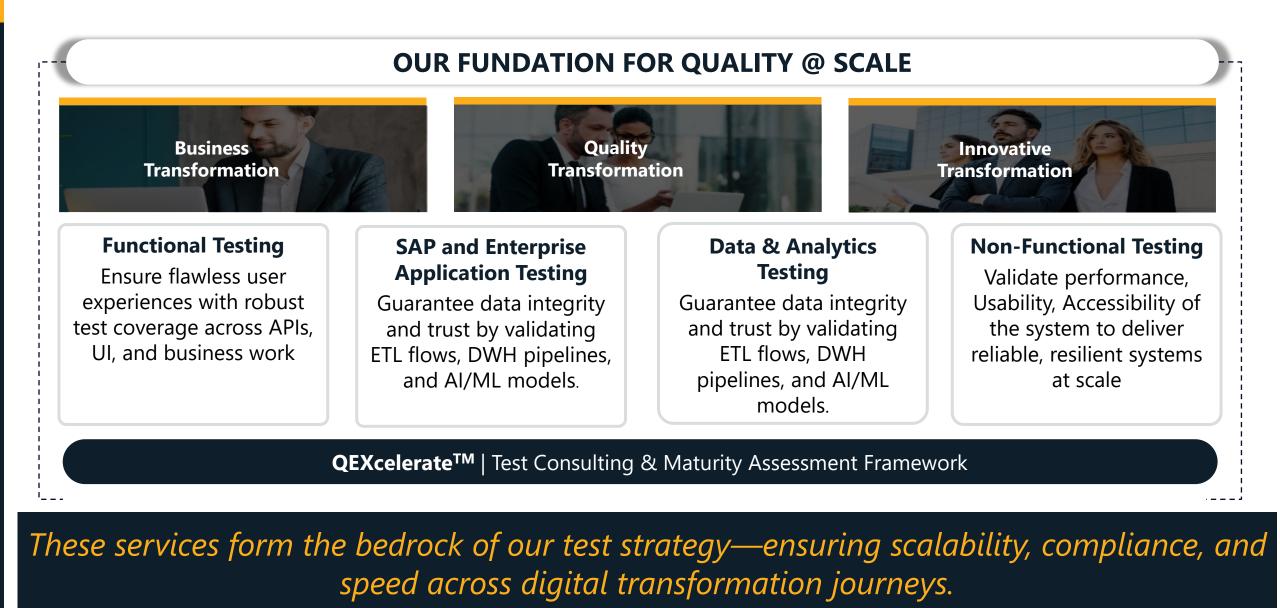
## Al First Quality Engineering @Cygnet.One

May 2025

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# Agenda

#### **Cygnet's Core Quality Engineering Services**



#### AI-First Quality Engineering at Cygnet.One

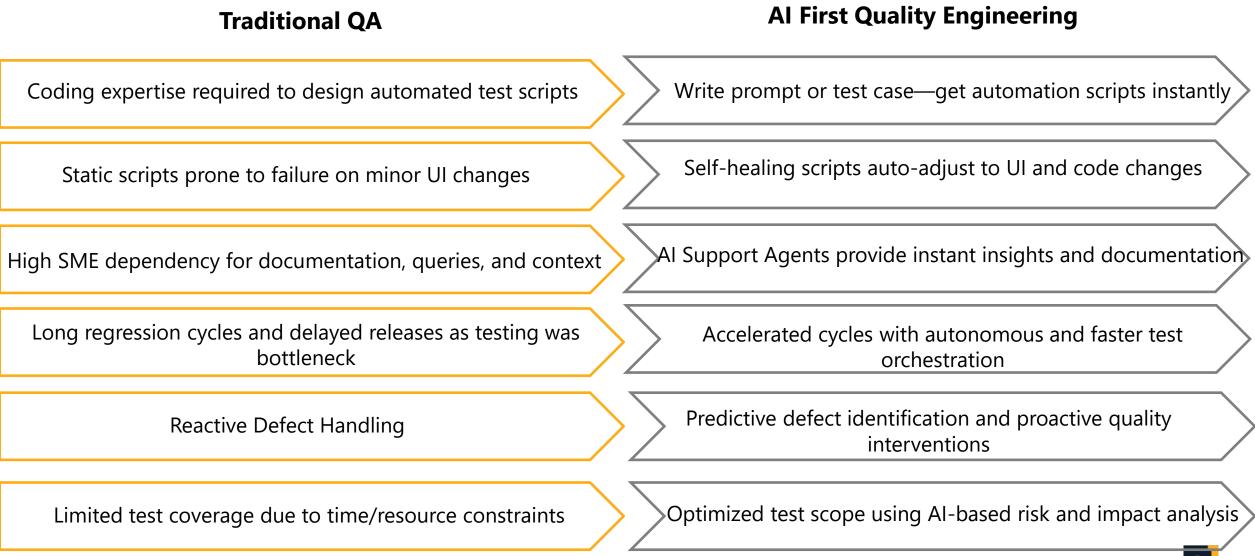
Reimagining Speed, Stability & Support with Intelligent Test Agents



#### Test Faster | Fix Smarter | Support Effortlessly

#### The Shift | We moved to AI First QE

We reimagined QE not just as a support function, but as a value driver—powered by GenAI and Agentic AI

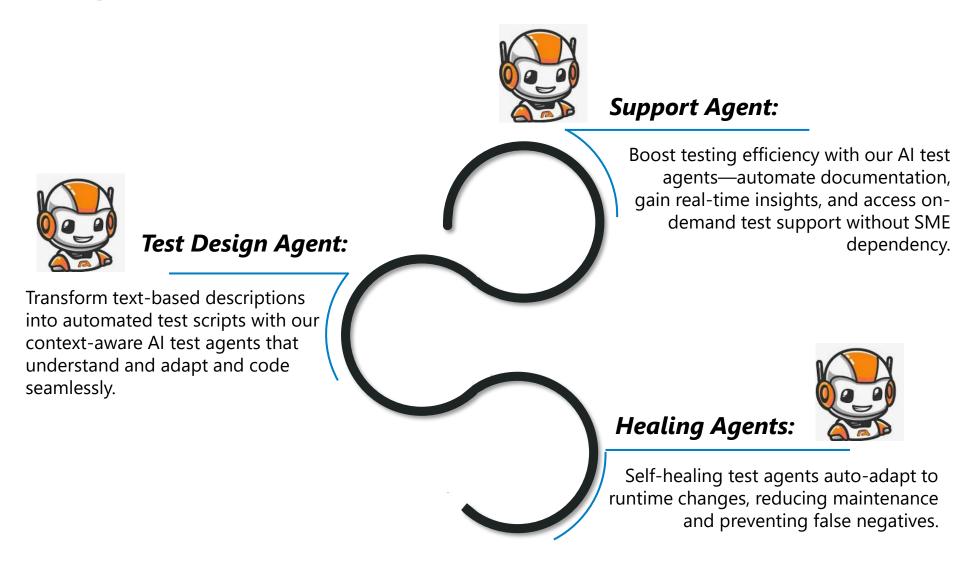




# **Our Al Agents in Action**

Integrates seamlessly with our core QE services, reducing effort and boosting precision

#### **Our AI Agents in Action**



#### Test Design Agent: Text-to-Test Automation at Scale

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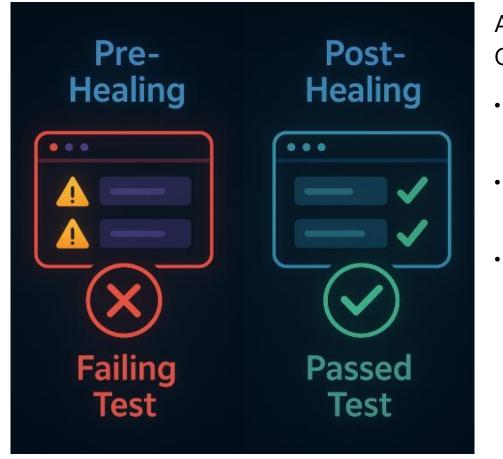


Traditional test design is slow, manual, and knowledge-heavy. Our Al-powered Test Design Agent transforms this process by:

- **Understanding Natural Language:** Converts user stories, acceptance criteria, or requirement docs into automated test cases using context-aware GenAI.
- **Context-Aware Quick Scripting:** Understands the application under test and generates the automated test script in seconds. The scripts are TestingWhiz Compatible and can be immediately used for execution.
- **Accelerated Test Authoring:** Reduces design time by more than **90%**, letting teams build automation earlier in the lifecycle

Faster go-to-market, reduced reliance on SMEs, and improved test coverage from day one

### Healing Agent: Self-Healing Tests for Stable CI/CD Pipelines



Automation failures due to minor UI changes are a thing of the past. Our Healing Agent ensures:

- Self-Healing Scripts: Identifies runtime object/property changes and adapts automatically.
  - **Zero False Negatives:** Keeps pipelines green and trustworthy without human intervention.
  - **Maintenance-Free Automation:** Reduces script flakiness and effort by more than **70%**, making regression suites reliable.

Increased automation ROI, stabilized DevOps pipelines, and proactive quality assurance.

### Support Agent: Instant Test Assistance, Minus the Manual Chase



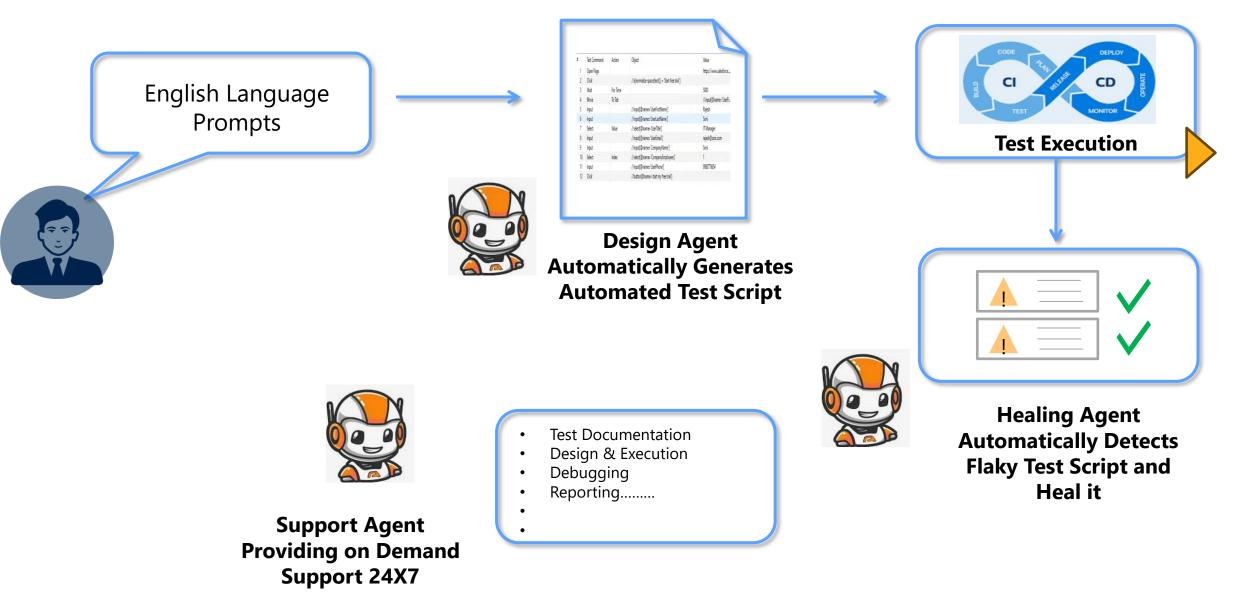
Say goodbye to static documentation and support bottlenecks. The Support Agent empowers your testers by:

- **Conversational Interface:** Ask questions, get updates, raise issues—just chat.
- On-Demand Expertise: Replace SME dependency with an intelligent assistant trained on test artifacts, past runs, and issue logs.
- Effortless Documentation: Auto-captures key decisions, results, and learnings—generating test evidence and audit trails on the fly.

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Faster issue resolution, lower onboarding effort, and consistent QA support 24/7

### A Day in the life of a QA in Cygnet.One



### **Measurable Benefits of AI-First QE**

We've transformed testing into a continuous, intelligent layer aligned with the pace of modern engineering

A UK-based BFSI customer used AI agents for test design and healing, cutting testing time by ~65% and speeding up releases by more than 30%.

A US manufacturing client deployed a Support Agent across all testing projects , reducing issue resolution time by  $\sim$ 44% and manual effort by  $\sim$ 60%.

A US-based customer leveraged TestingWhiz with Design, Healing, and Support Agents, improving test speed by 35% and reduction in maintenance time by more than 50%

### **Roadmap to AI-First Quality Engineering**

We've transformed testing into a continuous, intelligent layer aligned with the pace of modern engineering

#### Establish

Assess readiness and set the AI-First foundation

•Use **QEXcelerate** for AI readiness & test maturity assessment

•Launch GenAl-led PoCs via **SmartQE hub** (Test Design, Support, Healing)

•Deploy tools like **TestingWhiz** for lowcode automation pilots

•Integrate AI Agents into a pilot project for auto test case generation

**Outcome:** AI-First baseline defined with measurable pilot results

#### Expand

Scale AI across functional & non-functional testing

•Use **TestingWhiz** for regression, API, UI & ERP automation

•Leverage **Smart QE Hub** for centralized assets & AI agent synergy

•Deploy **Healing Agents**, enable RBT & defect prediction

•Drive Dev-QA-Ops collaboration via Al dashboards

**Outcome:** Al scaled across units; faster cycles, reduced effort

#### Transform

Build a future-ready, self-evolving test ecosystem

•Implement **AI TestOps** to integrate AIdriven automation and continuous learning loops within test operations

•Create **Smart QE Hub** as intelligent command center for all QE functions

#### •Unified AI-First QE Strategy:

- Integrate AI in traditional and AI system validation
- Use QEXcelerate for strategy realignment

**Outcome:** Autonomous testing, faster releases, and enhanced QA value delivery

# THANK YOU





