



sqai
suite

Software testing with agentic AI

2025

Table of contents

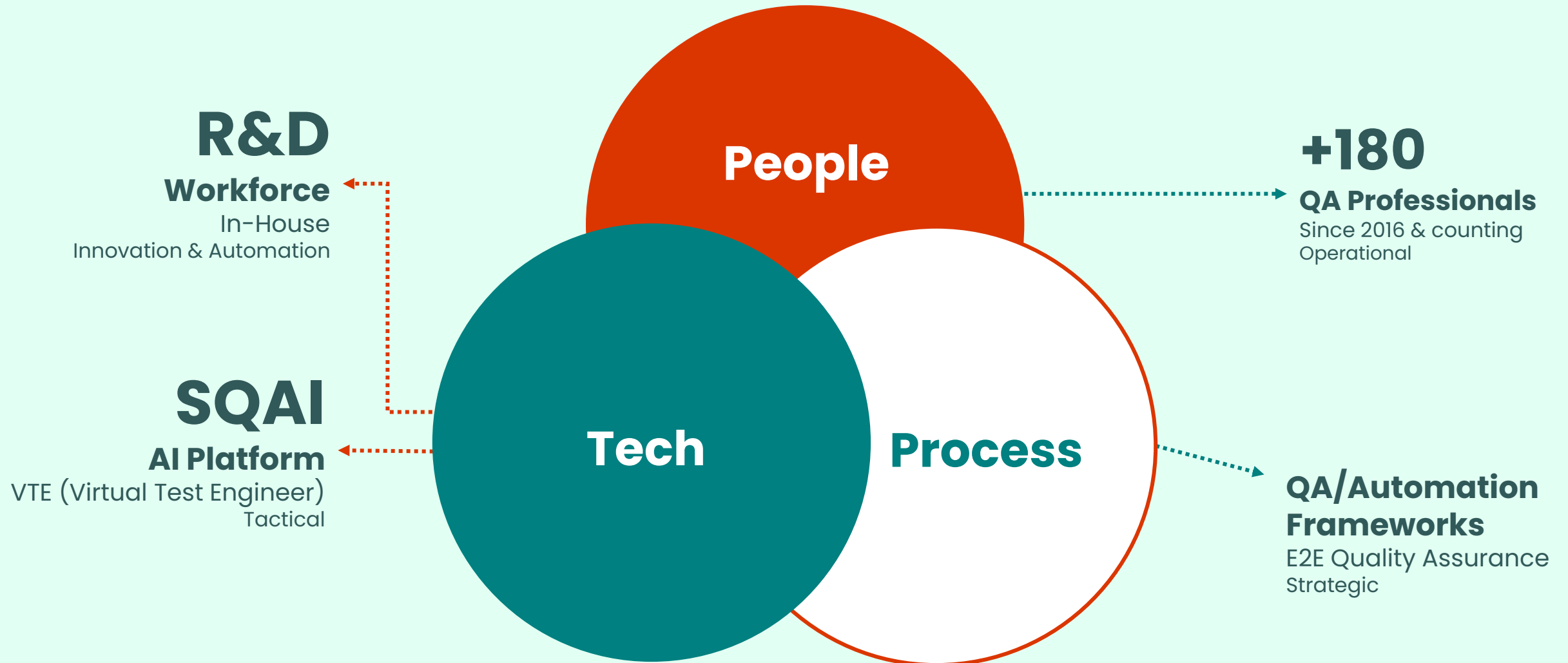
1. About Dean
2. About SQAI Suite
3. QA challenges today
4. Agentic AI
Virtual Test Engineer (VTE)
5. Real-life Case Studies & Demo
6. End

About Dean

- 17 Years in Software Testing & QA
- Studied Information Management
- From Computer Architecture and Infrastructure to Software Development, Testing, Leadership & Coaching.
- **Global Partner & Success Manager** at SQAI Suite



Originated from Brightest, a niche **Software Testing** company





We know the QA pains & gains.



Time & efficiency **Challenges**

- **Manual workload:** on avg. 50% testing effort still manual.
- **Deadlines:** Coverage compromised, releases delayed.
- **Knowledge gaps:** Single source of truth missing.
- **Dependency:** Reliance on colleagues for clarity.
- **Documentation issues:** Sparse or outdated resources.



Ongoing Battle for **Talent**

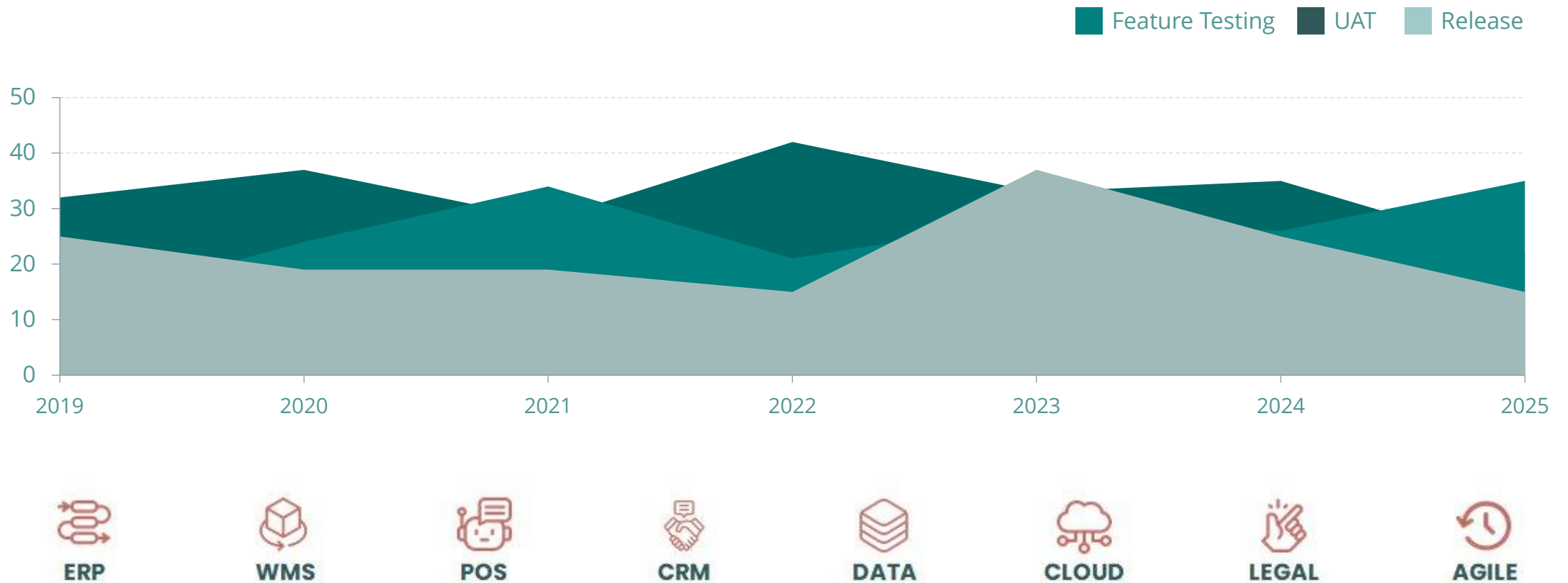
- **Talent shortage:** Limited availability of skilled test engineers.
- **Resource constraints:** Strain on existing teams to cover gaps.
- **Outsourcing costs:** Rising expenses to fill skill gaps externally.
- **Scalability issues:** Difficulty in meeting growing testing demands.



High Cost of Test **Automation**

- **Costly maintenance:** Automation upkeep is resource-heavy.
- **Technical debt:** Outdated scripts add inefficiency.
- **Overhead:** Constant updates strain teams. Resource drain: High effort for fixes and upkeep.
- **Scaling** issues: Complexity grows with coverage.

QA peaks make it tough for organizations to achieve thorough testing, especially with **multiple** goals, **tight** timelines and **limited** resources.



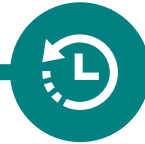
Changing landscape of Quality Assurance (QA)

Traditional



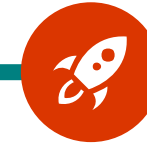
- **Manual, isolated** and reactive process
- Primarily focused on late-stage testing
- Limited scope & coverage

Modern



- Agile, Devops, CI/CD integrated
- Shorter and more frequent releases
- Regression set automation
- QA team stretched between manual effort and automation maintenance

New era



- **AI-driven efficiency:** Accelerates test creation, automation, execution, and maintenance.
- **Scalable coverage:** Seamlessly handles complex systems and frequent releases.
- **Smarter insights:** Predicts issues and adapts through self-healing capabilities.
- **Bridges gaps:** Tackles talent shortages and resource constraints effectively.
- **Manages pressure:** Balances manual and automated testing under tight release cycles.

The Idea

Test Automation

Frameworks
(Cucumber,
Playwright,
Selenium...)

Applications

(SAP, MS Dynamics,
Salesforce, Manhattan
WMS, ERP, MRP,
Ecomm...)

+100
Years
Of Testing
Knowledge



Software Testing Frameworks
(ISTQB, T-Map, BDD, Model
Based Testing...)



Multi_LLM Class

LLM, model 1



response.json

Convert to yaml object



response.json



response.json

Ranking LLM



Ground Truth
Best Result



Natural
Language Input



Interpretation &
Reasoning



Workflow
Generation



Workflow
Execution



Output/
Outcome

Learning & course correction
(eg. through reinforcement learning)

YOUR TESTING APPS

Test Management
Tools, Productivity,
Codebases....

Virtual Test Engineer (VTE), built for the evolving needs of QA teams.



Efficiency

→ Let the AI do the heavy lifting for you and shift from creator to validator.



Coverage

→ Increase total test coverage. Think VTE instead of extra FTE.



Time to market

→ Integrate with CI/CD for faster releases without sacrificing quality



Adaptability

→ SQAI connects and adapts to your tech stacks, keeping your tests reliable



Strategic focus

→ Frees up human time for critical testing areas



Cost & scalability

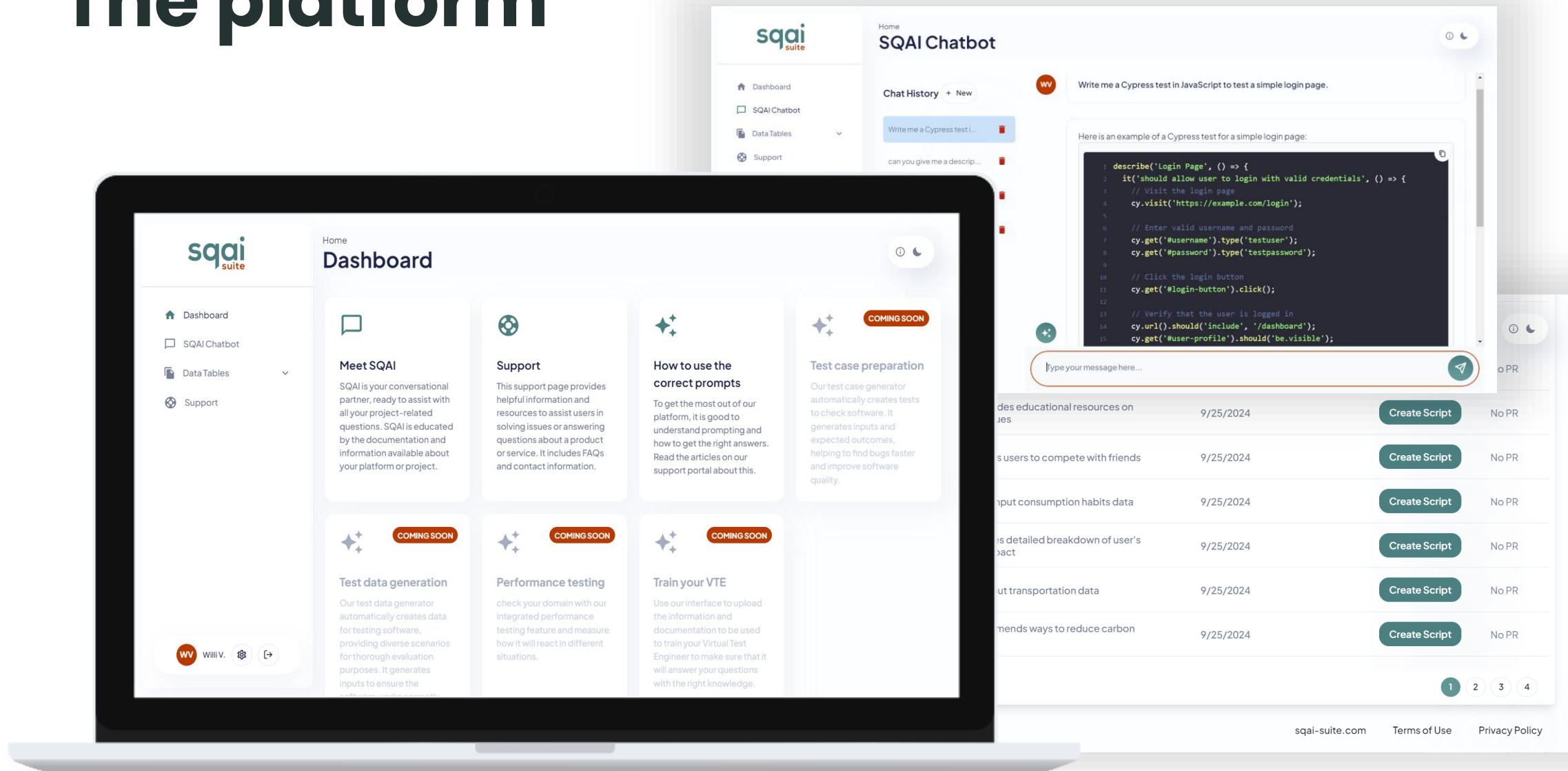
→ Automates up to 60% of all testing activities, minimizing new hires



Privacy & security

→ Specific data storage locations to keep data private from LLM providers

The platform



In a nutshell



Agent-driven RAG Model

Access a **senior QA engineer** for functional and non-functional testing via a chat interface (ISTQB, BDD, Clean code, ..)



Domain/business-driven

Access a **(business) expert** that understands your application landscape or domain.



Best of breed LLM's

GPT, Llama, Claude, Codestral, Gemini, ...



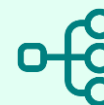
Code Repositories

Access a senior developer that generates test automation scripts in your chosen framework.



Smart Prompt Menu

Tips and tricks for optimized testing workflows and quick tasks



Smart Orchestrator

Predict and preempt failures by adapting to SDLC changes.



VTE or FTE

A teammate that works 24/7, never tires, and remains complaint-free.



Privacy by design, Secure by default

Your data will be available within the regional environment according to your regulations. We don't train on your data !

Seamless integration with your QA landscape

SQAI integrates effortlessly with your existing tools, letting you continue using trusted platforms and tools. Designed & build from testers for testers, our tool-agnostic platform offers numerous out-of-the-box integrations across three key categories:

- **Business Apps**
Confluence, Jira, Teams, Notion, Azure DevOps,...
- **QA landscape**
TestRail, Xray, Zephyr, Azure Test Plans, Test Monitor, Selenium, Cypress, Katalon, Playwright,...
- **Code Repos (CI/CD)**
Bitbucket, GitHub, GitLab, Jenkins,...



Real Life Use Cases + Live Demo

Test Coverage

Saves up to **35% of review effort** on coverage analysis by auto-suggesting weakly covered paths

Boundary Value Analysis

Cuts boundary test case generation time by **over 60%**, and improves defect detection rates at boundaries

Scenario-based Testing

Cuts manual effort by **65%-75%** for generating business process test cases.
For a medium-sized project, saving up to **120 hours** across the full SDLC.

Equivalence Partitioning

Reduces manual test design time by **up to 70%**, meaning that what would take a tester **5 hours** manually, can now be completed **in 1.5 hours** using SQAi suggestions.

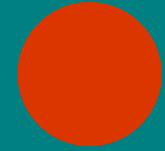
Decision Tables / States

Reduces error rate in complex decision-making paths by **up to 30%** (human testers tend to miss edge case combinations, AI scales better).

Test Automation

Reducing scripting and maintenance effort by up to **70%**, doubling release speed, and increasing automation coverage **from 40% to over 80%.**"





**Augment and
embrace, not
replace.**

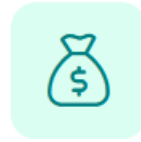


A solid and measurable ROI for organizations that use SQAI



Quality Improvement

Enhance test coverage and reliability, ensuring fewer bugs and higher quality software.



Cost Reduction

Reduce QA costs by up to 60% through AI-powered automation, minimizing the need for additional hires.



Time Efficiency

Accelerate your release cycles by 50-70% with automated test generation and execution.



Human in the loop

Focus on strategic, high-value tasks while SQAI handles the initial analysis.



Privacy & Security by design

Your data will be available within the regional environment according to your regulations.



Happy engineers

Empower your QA engineers to work on innovative projects, boosting job satisfaction and retention.



Resource Reallocation

Free up resources to focus on more strategic and complex scenarios.



Faster Go-to market

Accelerate your processes without compromising on quality.



Enhanced Coverage

Ensure thorough testing across all aspects of your software.

sqai suite



Dean Bodart

Global Partner &
Success Manager

Thank you.

Dean would love hearing from you!

+32 477 99 97 25

dean.bodart@sqai-suite.com