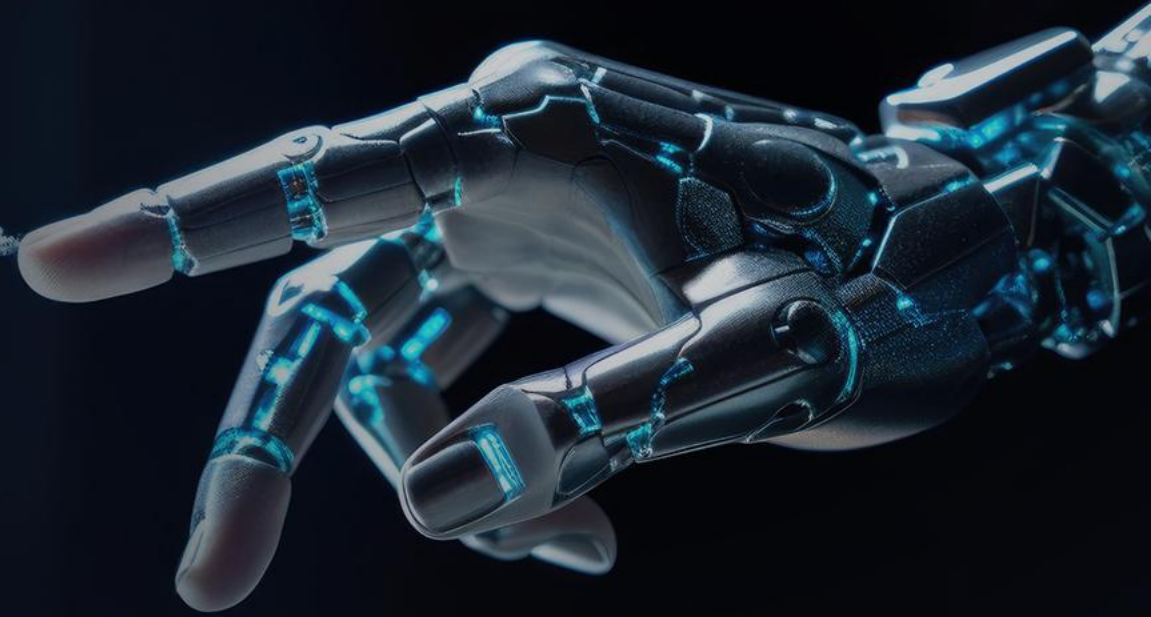




Agentic QE Solution As A Service

WWW.TESTINGXPERTS.COM





AGENDA

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|----------|--|----------|
| 1 | Traditional Quality Engineering is facing Headwinds | Slide 3 |
| 2 | AI Service Portfolio | Slide 4 |
| 3 | The Traditional Testing Organization is Bloat posing as Innovation | Slide 5 |
| 4 | Agentic Quality Engineering Solutions as a Service Delivers Speed and Agility | Slide 7 |
| 5 | Agentic AI A11y Architecture | Slide 8 |
| 6 | Tx Approach to Agentic AI Privacy, Security, and Governance | Slide 9 |
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Speed and Agility

- Features are being delivered faster than teams can test, potentially leading to defects or delaying getting the product to market



Testing New Features and AI

- New features are delivered faster which needs testing. AI also needs to be tested and the skills to do both are not the same



Resource Constraints

- Testing activities are increasing, but budget and headcount are not



Increasing Code Base

- AI, like Co-Pilot, is increasing the code base and introducing more defects



Inefficiency

- Traditional QE is resource-heavy, slow, and costly. Teams may provide non-standardized or inconsistent work which requires intervention or limits execution effectiveness





Advancing QE with AI Automation

- AI Enabled Application Testing Services
- AI Enabled Data Testing Services
- AI Enabled Non-Functional Testing
- Insights Powered by AI
 - Release readiness
 - Defect Prediction
 - Test Impact Analysis



Quality Assurance for AI Systems

- Data Quality Management
- Model Evaluation & Validation
- Model Performance Evaluation & Benchmarking
- Security Compliance & Privacy Assurance
 - QA for AI / GenAI Application
 - Functional Testing
 - API Testing
 - Non-Functional Testing



AI Application Development & Deployment

- AI Powered Applications Development & Maintenance
- Data Collection & Annotation
- Consulting and Implementations
 - MLOps
 - AIOps
- Robotic Process Automation



AI Advisory

- Upskilling Engineering and Quality Engineering Staff for AI/Agentic AI
- Organizational Readiness for AI/Agentic AI
- Organizational Transformation for AI/Multi-Agent work environments
- Agentic AI Platform Evaluation and Planning
- Agentic AI Maturity Assessment for Quality Engineering



Agentic AI Orchestration

- Workflow Management
 - Custom Workflow Design
 - AI Workflow Automation Platform Implementation
 - Performance Monitoring/Optimization
- Resource Allocation
 - Dynamic Resource Allocation
 - Resource Planning & Tracking/Reporting
- Process Automation
 - RPA to Agentic AI Migration



Agentic AI Operations

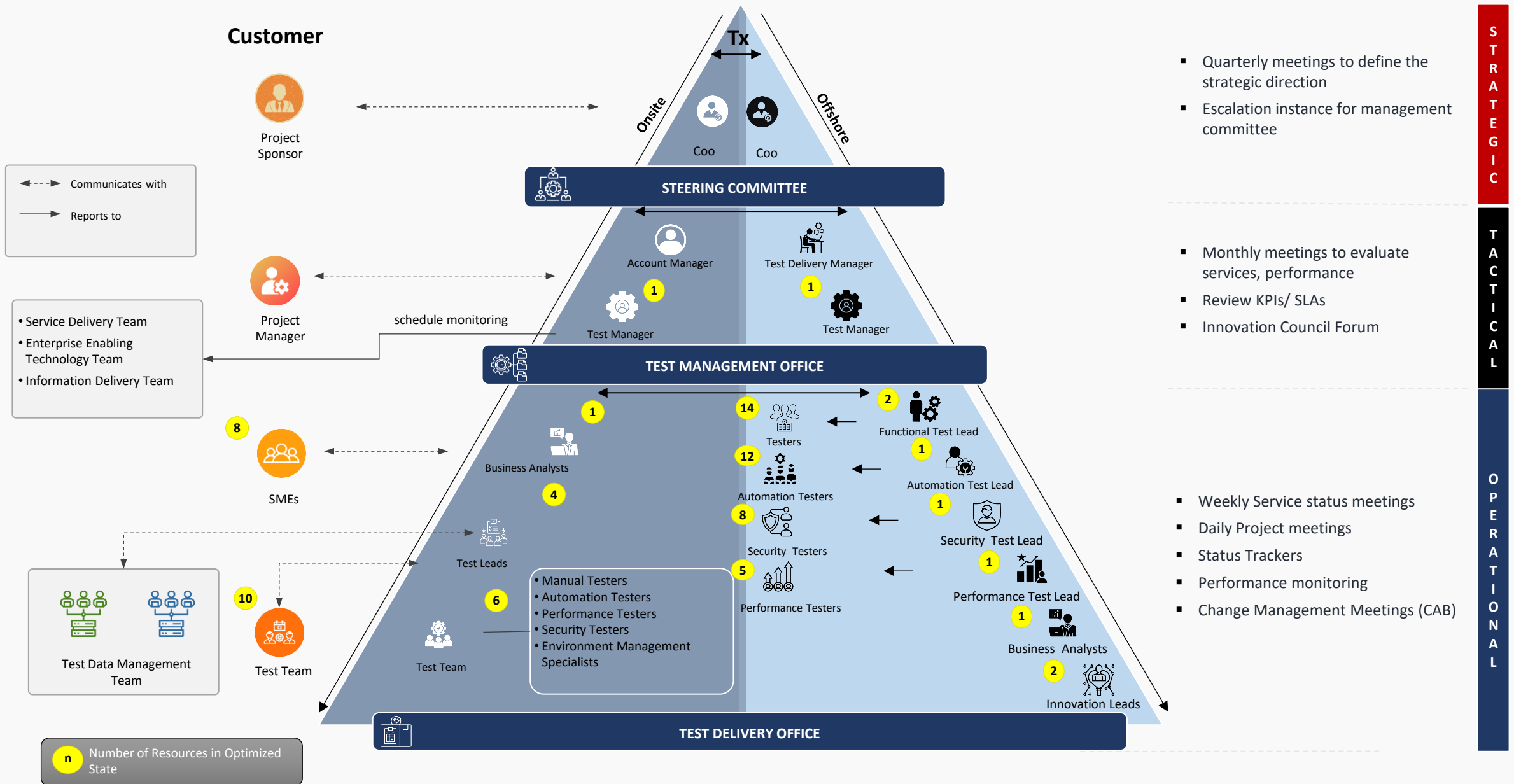
- Real-Time Monitoring and Management
- Performance Optimization
- Incident Management
- Training and Education
- Consulting/Advisory Services
 - Strategic Advisory
 - Risk Assessment
 - Ethical AI Consulting



Agentic AI Governance Frameworks

- Ethical AI Frameworks
 - Ethical Guidelines Development
 - Bias Detection and Mitigation
- Regulatory Compliance
 - Compliance Audits
 - Data Privacy and Security Testing
- Governance Policies and Procedures
 - Policy Development
 - Risk Management

The Traditional Testing Organization is Bloat posing as Innovation



The Traditional Testing Organization is Bloat posing as Innovation



All Teams must be carried even when there is no testing to be done



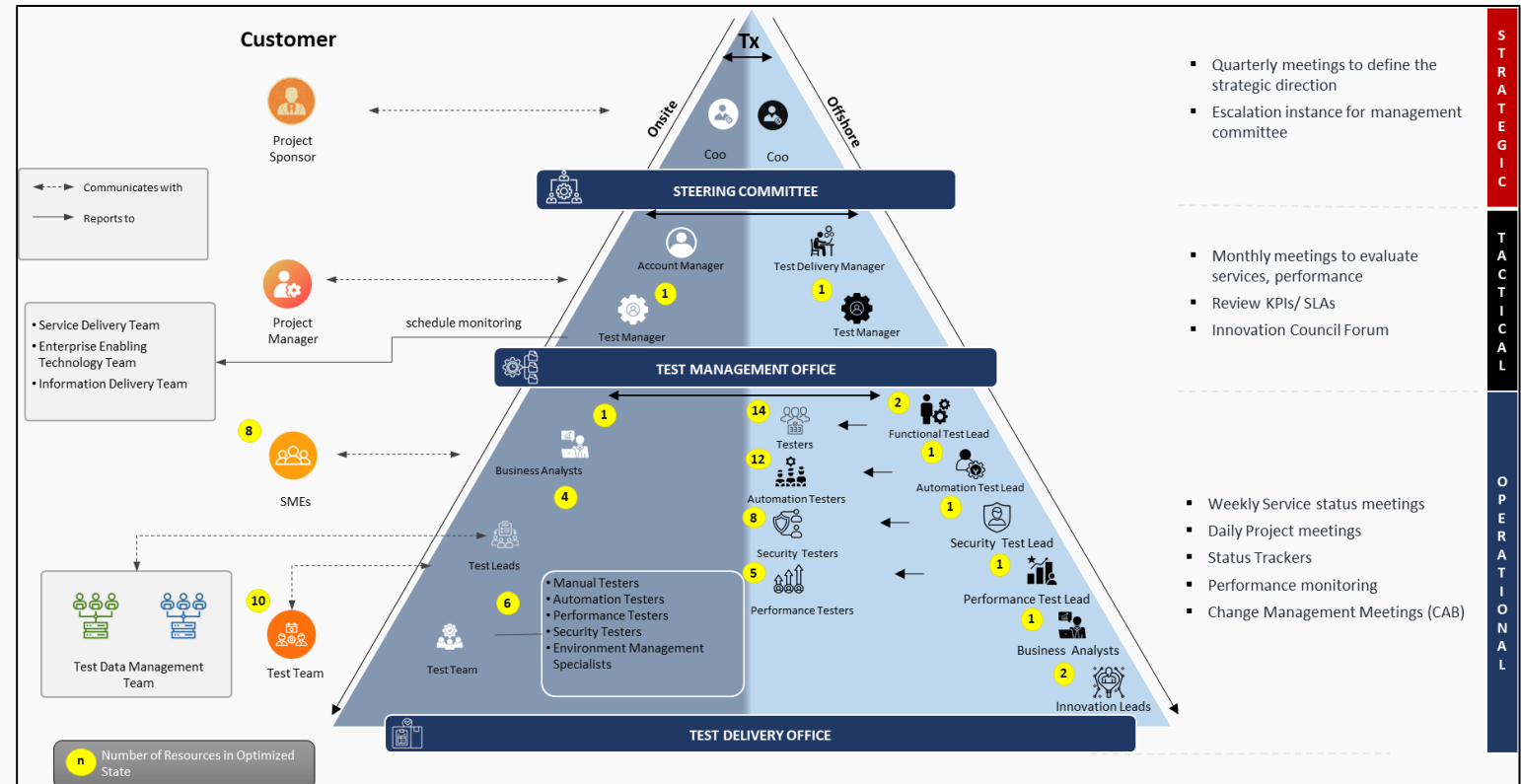
Teams can be flexed up to increase capacity and cost, but never completely removed



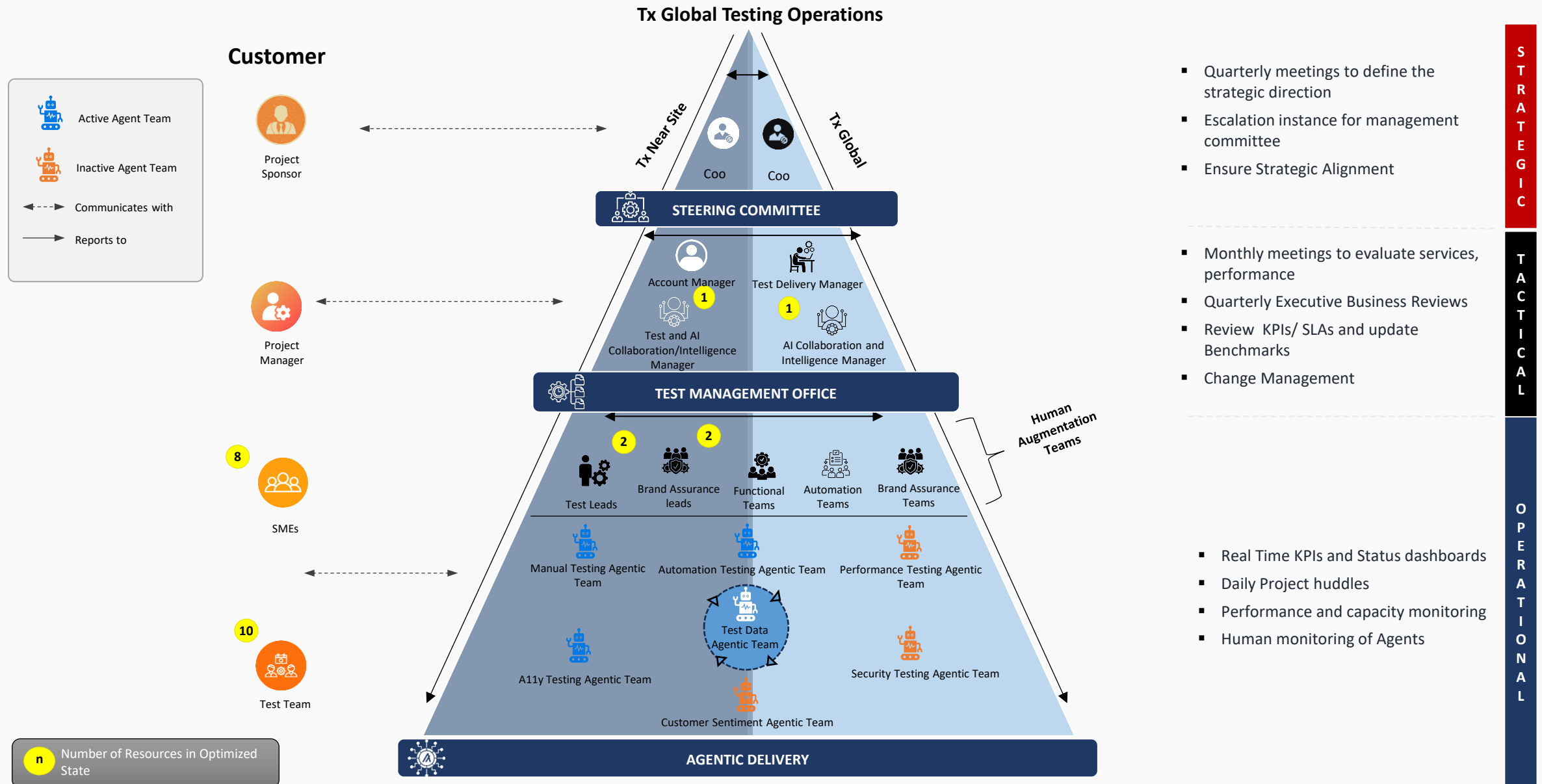
Infrastructure and tooling costs must be carried for all resources



Features are being delivered faster than humans can test



Agentic Quality Engineering Solutions as a Service Delivers Speed and Agility





Prioritization Agent

- Analyzes factors such as website traffic, user feedback, and known A11y issues
- Assigned priority levels to websites
- Sends the prioritized list to Content Analysis Agent

Content Analysis Agent

- Independently analyzes the web content for readability and proper use of language
- Ensures all non-text content has appropriate text alternatives
- Passes the analyzed content to the Automated Testing Agent

Automated Testing Agent

- Creates and Runs automated tests on the web pages to check for A11y issues
- Sends the test results to the A11y Compliance Agent

A11y Compliance Agent

- Reviews the test results against WCAG 2.1 A/AA guidelines
- Identifies violations and suggests corrections
- Provides feedback to the User Simulation Agent for further testing

User Simulation Agent

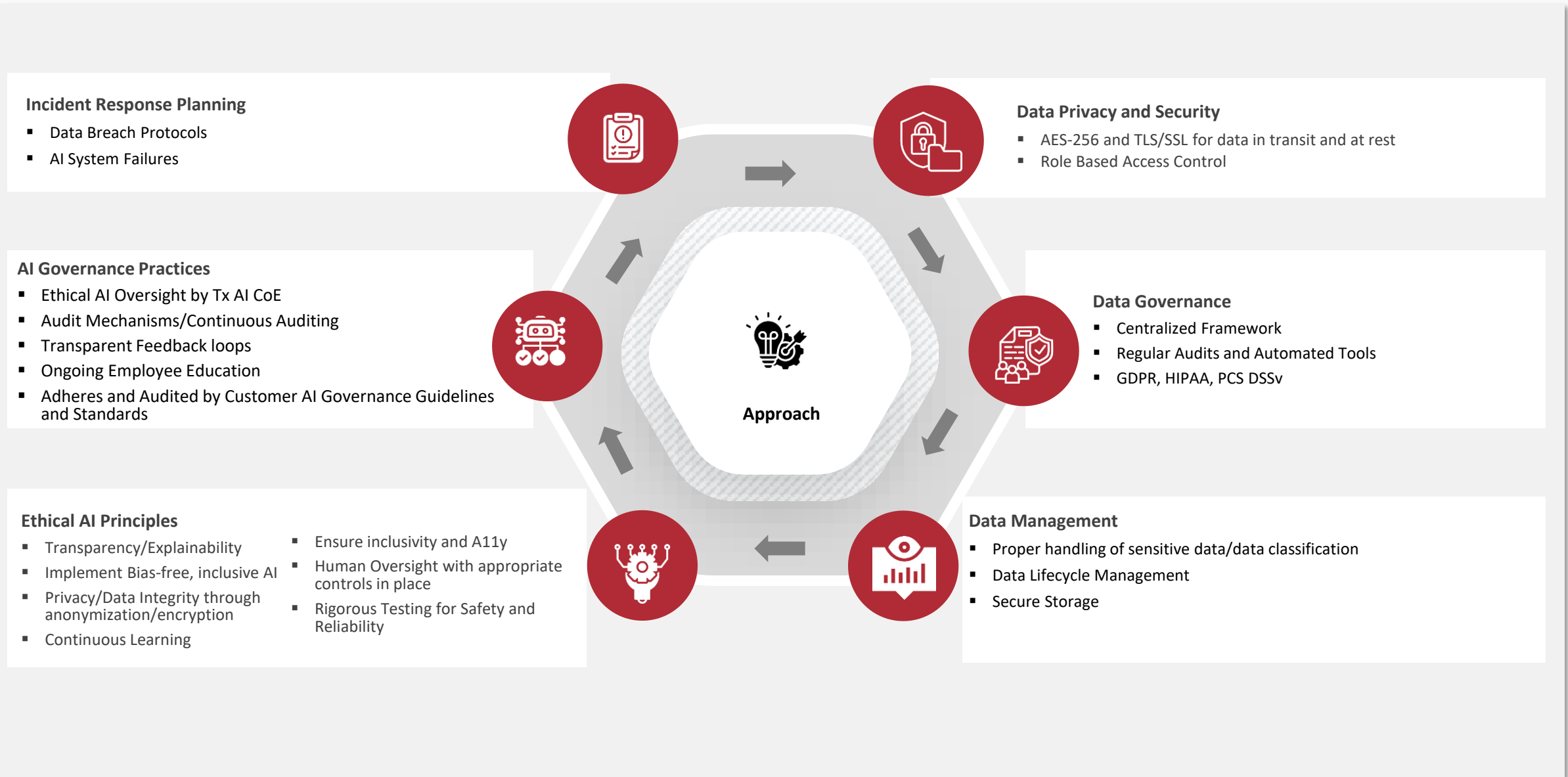
- Simulates interactions of users with different disabilities
- Identifies potential a11y barriers
- Sends the findings to the Report Agent

Learning and Adaption Agent

- Continuous learning from new data and feedback
- Improves accuracy and efficiency of other agents
- Updates workflows and processes based on new insights

Reporting Agent

- Compiles findings from all agents into comprehensive reports
- Highlights areas of non-compliance and suggests improvements
- Highlights areas of the website that a PWD should test
- Produces the report for the Human A11y Manager
- Shares the report with the Learning and Adaption Agent

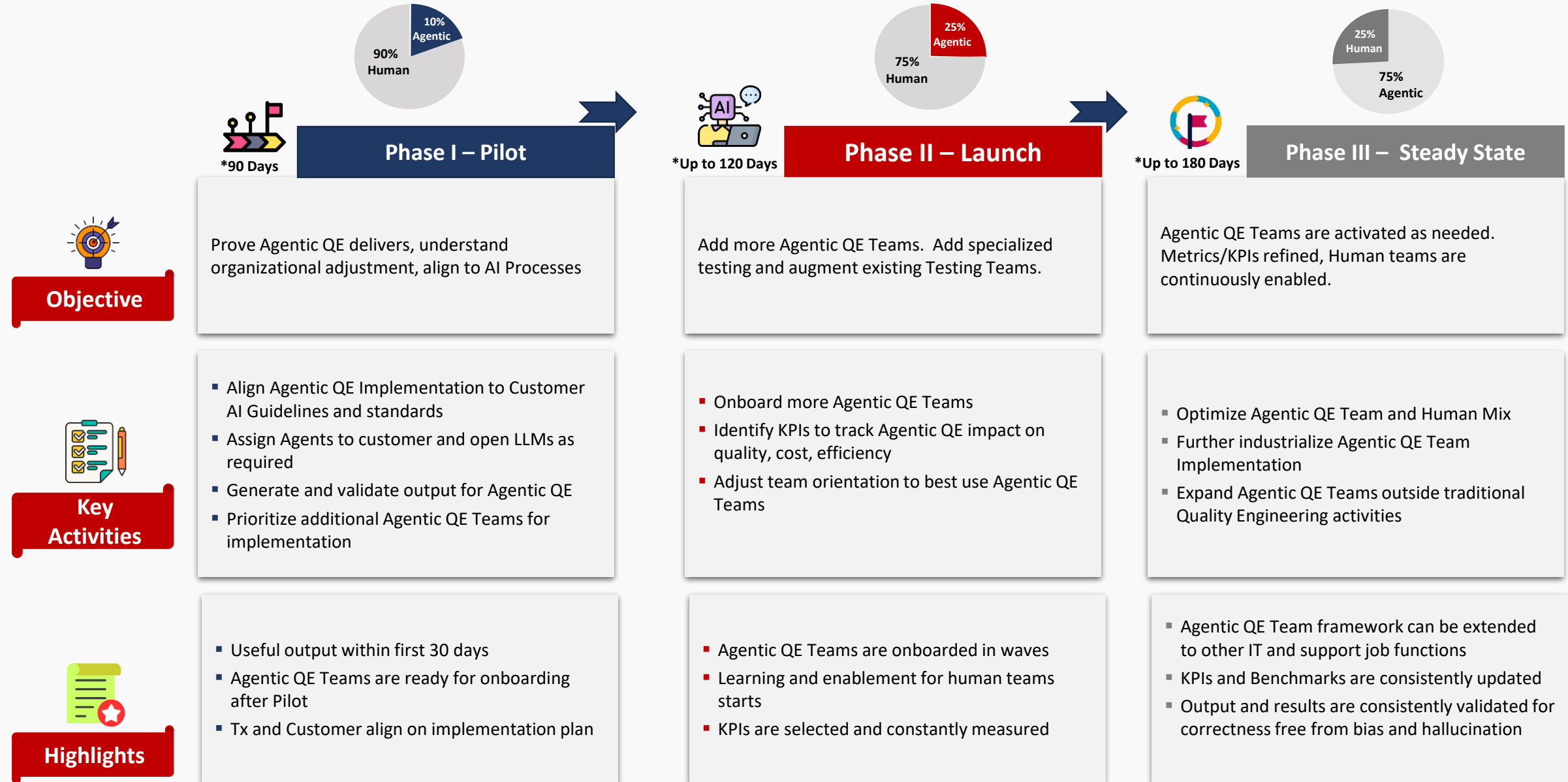


Agentic QE Solutions as a Service Future Proofs your Applications



Feature	Traditional QA Organizations	Agentic AI QE
Testing Services	High focus on manual and automated testing limits capacity for other testing types	Can include all testing specializations without sacrificing capacity
Automation	Limited Automation with extensive maintenance and human intervention	Reduces maintenance cost and automates tests within minutes
Scalability	Scales proportional to headcount	Scales automatically to keep pace of development without increasing costs
Cost Efficiency	High operational costs, large teams	Reduced costs for people resources, active Agentic QE Ops controls costs
Speed and Agility	Humans are dependent to create all tests	Creates tests with quality reviews done by human SMEs
Future-proofing	Limited adaptability to the pace of engineering change and AI adoption	Trained continuously and can handle diverse application types
Reporting	Reporting is manual and not consistent	KPIs are calculated, visualized, and updated close to real-time
Resource Allocation	Additional headcount requires special approval or quickly reduces budget	Can be activated and deactivated based on need
Governance and Compliance	Pace of work and individual human knowledge creates standards drift	Provides standardized output while adhering to your AI ethical standards and frameworks

Agentic QE Solutions as a Service Future Proofs your Applications



* Indicates duration of the phase

Agentic QE Team is measured on QE KPIs and Metrics



Team/Agent Measured	KPI	KPI Description	KPI Type
Manual Testing	Test Case Execution Rate	Number of test cases executed over a period	Efficiency
	Defect Detection Rate	Number of defects found during manual testing	Quality
	Test Coverage	Percentage of requirements covered by test cases	Risk
	Defect Severity Index	Evaluates the severity of defects found	Quality
	Test Case Effectiveness	Effectiveness of test cases in finding defects	Efficiency
	Test Case Efficiency	Efficiency of test cases in terms of time	Efficiency
	Defect Rejection Rate	Percentage of rejected defects	Quality
	Test Execution Time	Average time taken to execute test cases	Efficiency
	Defect Leakage	Defects found post-release	Risk
	Test Case Preparation Time	Time taken to prepare test cases	Efficiency
Test Automation	Test Automation Coverage	Percentage of test cases automated	Risk
	Execution Time	Time taken to execute automated test cases	Efficiency
	Pass/Fail Rate	Ratio of passed to failed automated tests	Quality
	Maintenance Effort	Time spent maintaining automated test scripts	Efficiency

A background image showing a close-up of two hands shaking in a firm grip, symbolizing a business deal or agreement. The image is dark and moody, with a large, solid red diagonal shape overlaying the right side. The text 'Thank you' is centered in a white box on the left side.

Thank you