



Testing Services Overview



American-Technology.com



ATC specializes in consulting with organizations to transform software quality through best in class testing services.

ATC differentiates itself from the competition with:



Certified Professionals



ISO Quality Standards



Tools Expertise



End to End Automation

Agenda

01

About Us

02

Today's Emerging Methodologies

03

DevOps

04

SAFe

05

Testing

06

Case Study

07

Questions



About Us

Incorporated in 2008
with home office in Des
Moines, IA



Enterprise and small
business consultation
expertise



Remote office in
Chennai, India to provide
offshore cost option



Application Testing –
Performance, Automation,
Security, System



Implementation
Consulting - DevOps
and SAFe



258
Consultants



124
Clients



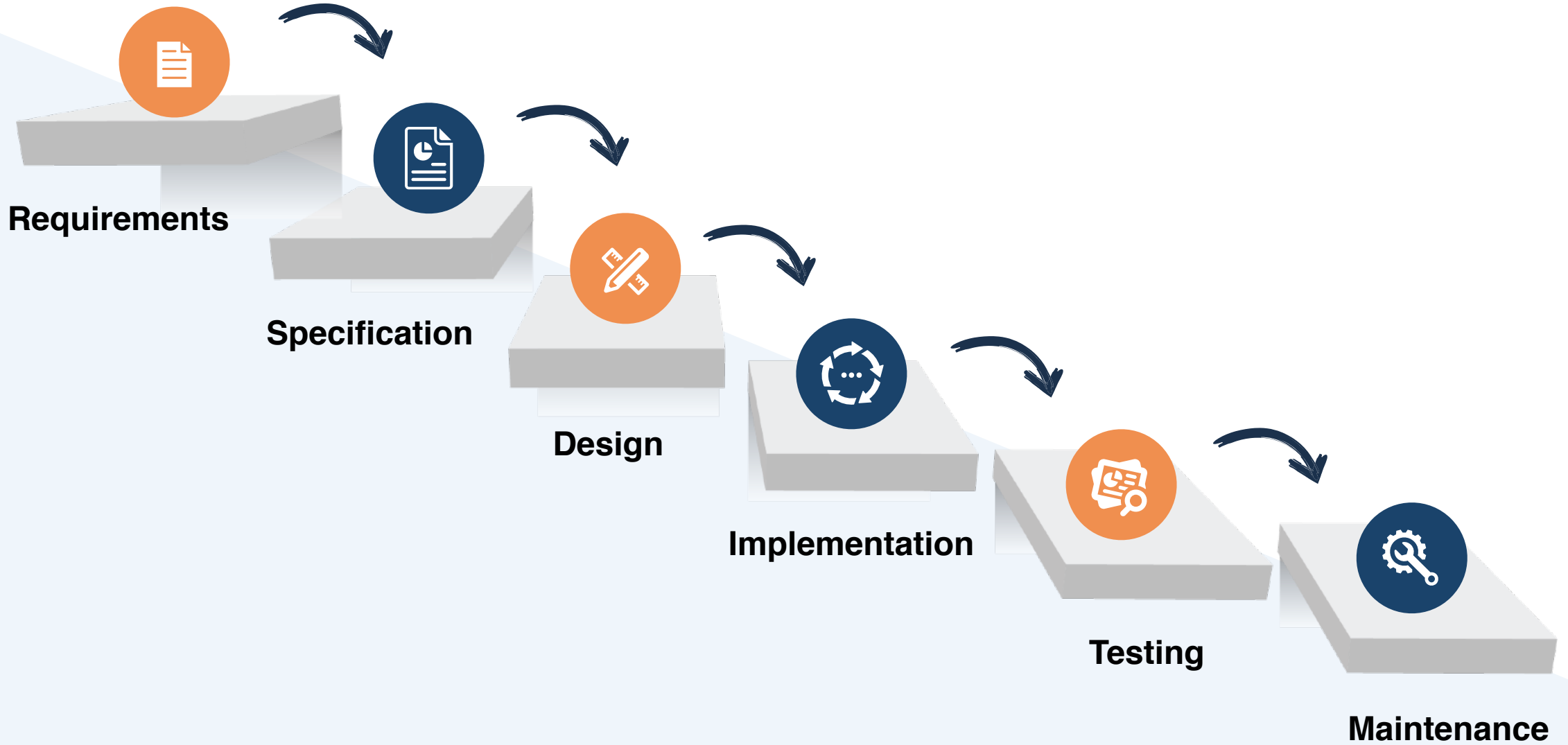
270
Projects



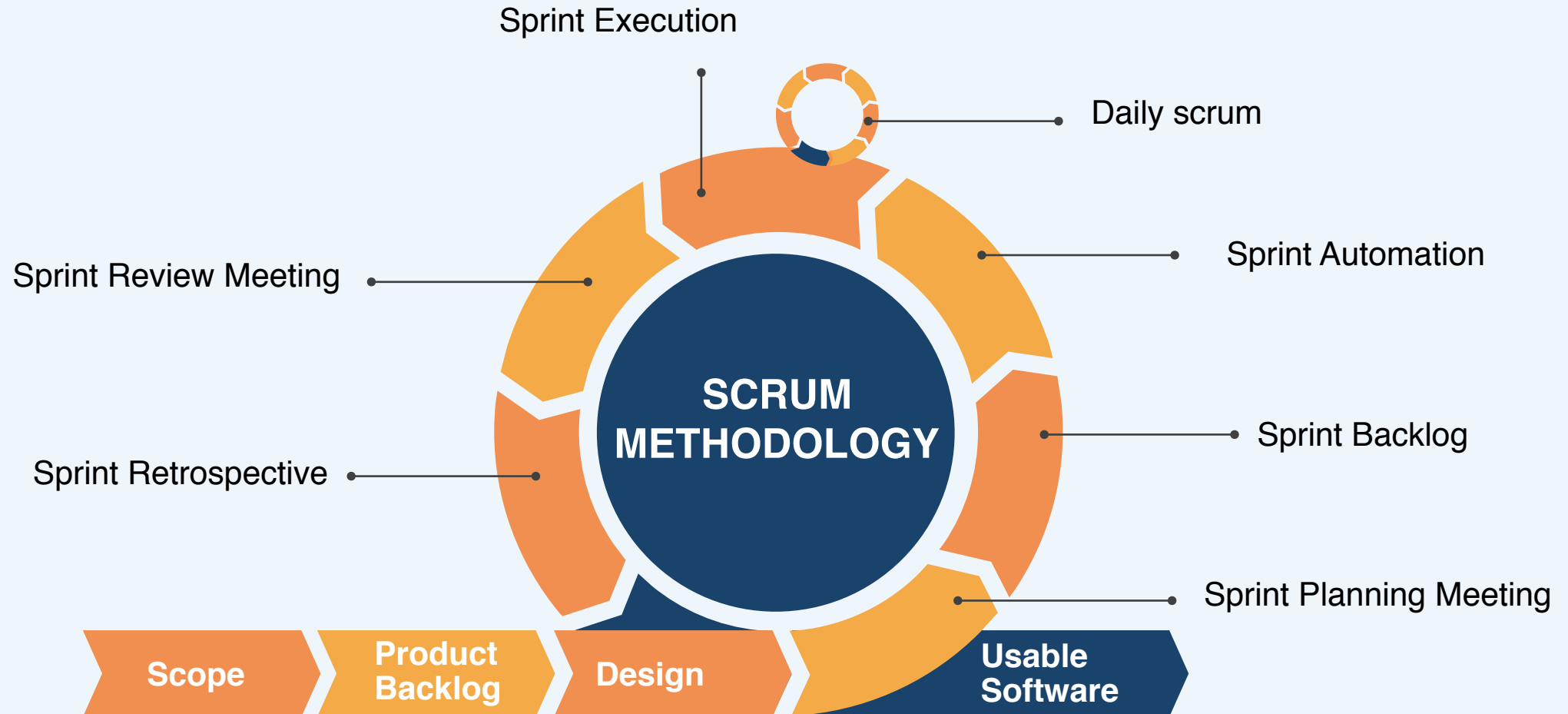
Where does your organization fall in today's emerging methodologies?



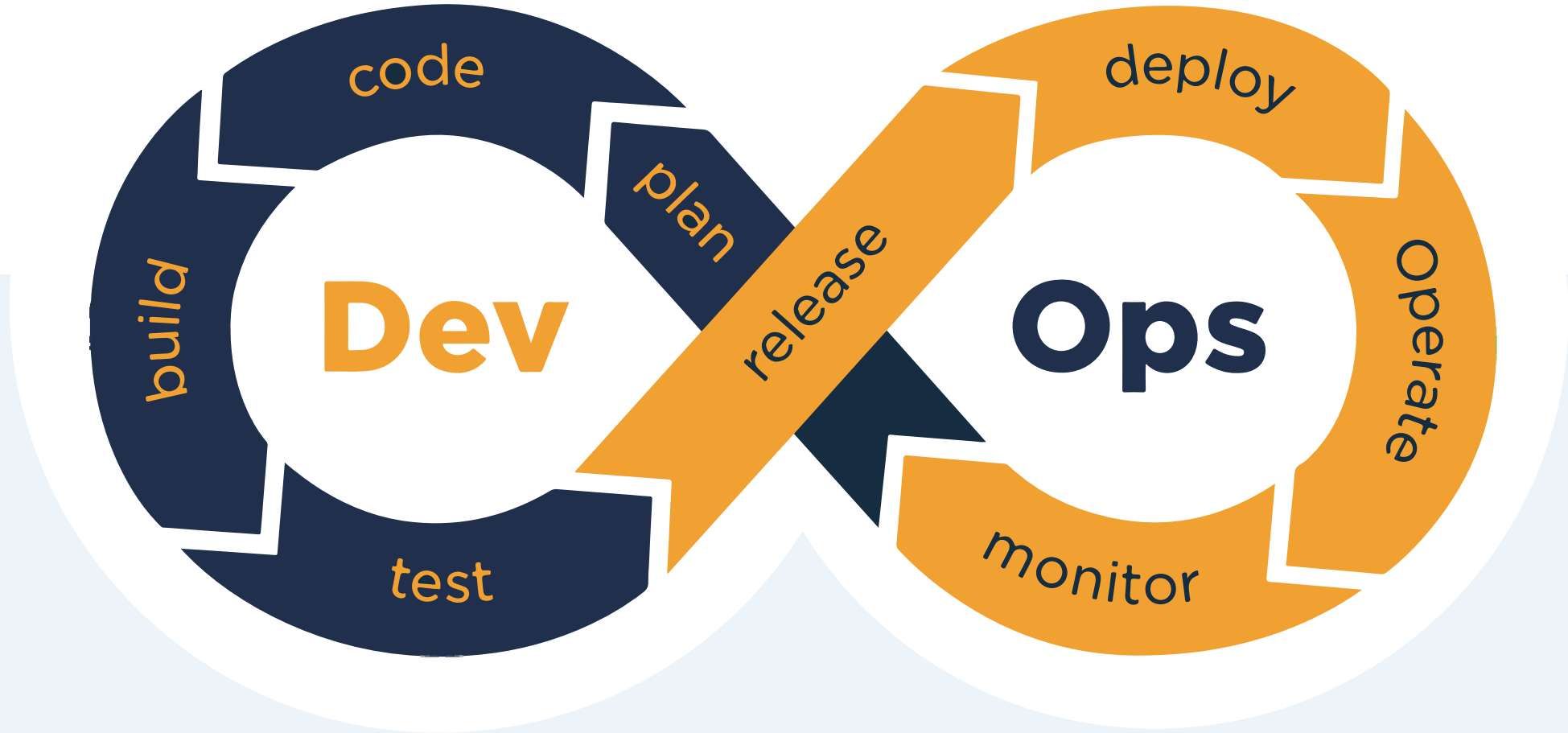
Waterfall



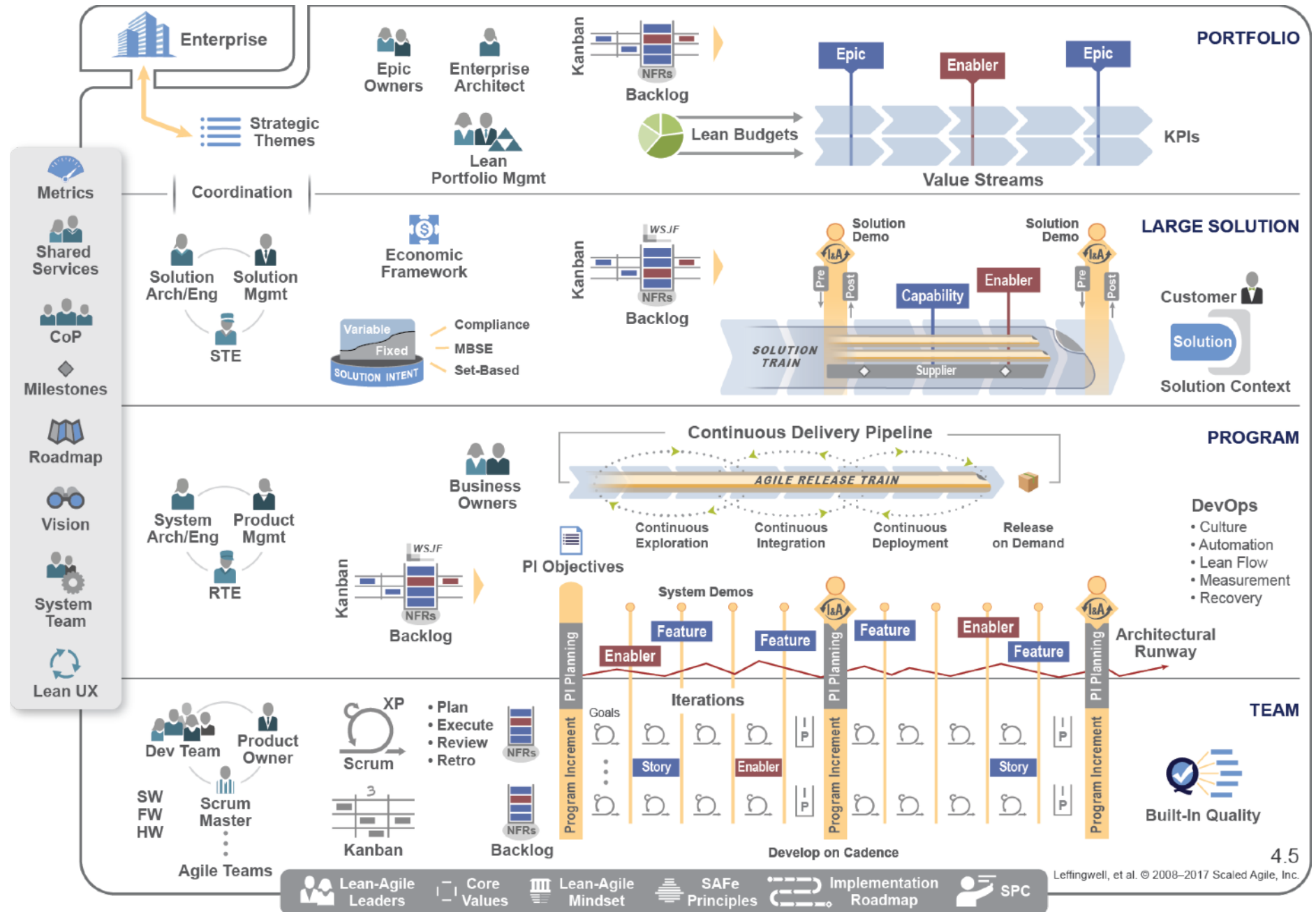
Agile



DevOps



SAFe Framework



New Testing Trends

Fail Fast
Fail Cheap
Fail Forward



Why change?

30 - 75%

Faster
Time-to-Market



25 - 75%

Increase in
Productivity



20 - 50%

Improvements
in Quality



10 - 50%

Reduced cost of
failure



Service Offerings



QA Strategic Transformations

- QA process gap analyses with *standard* assessments
- Test consulting for rightful implementation
- Process improvement planning
- ROI Analysis
- Automated and continuous Quality monitoring



Managed Testing Services

- End to End Test Program Management
- An integral part of or an extended arm of the project team.
- DevOps / CI / CD support
- Functional Testing
- Regression Testing
- Automation Testing and Framework development
- Collaborative working
- Mobility and Security



Turnkey Solution

- For quick release testing.
- Time bound engagement.
- Performance Testing
- Security Testing
- Automation Executions
- Automation Scripting
- User Acceptance Testing
- Digital Experience Testing



Quality Assurance

- Defined processes and quality standards on the lines of ISO and industry best practices
- Metrics for continual measurement and improvement
- Checklist and balance to support decision making
- Disciplined process approach and adaptation

QA Strategic Transformation



Analysis
and
Assessment



Performanc
e Scalability
Consulting



Process
Maturity



Automated
Testing
Analysis



ROI and
Cost of
Quality



Automation
Sustenance

- Powerful insights about your testing process compared to industry's standards.
- Potential areas for improvement in your testing efforts.
- Ideas on how to gain better visibility into your testing outcomes.

Managed Testing

Testing begins by understanding your organization. We listen to your challenges, explore the solution process together, and interpret the results data.

We clearly define the engagement process for our comprehensive assessment. This is accomplished with detailed KPI's, alternative testing tools, and allocated role responsibilities and accountabilities.

Then the Testing begins. Testing is only as good as the Tester, using the best tools to their fullest functionality. This is what separates us from the competition. If you have the best testing tool, but don't utilize its full functionality in the proper manner, it's inadequate. If you have a good Tester, but that person does not have a full breadth of experience, there will be gaps.

Strategic Partnership that handles all of your testing needs



Industry experts with diverse project experience



Scalable teams that are highly available with a myriad of communication methods

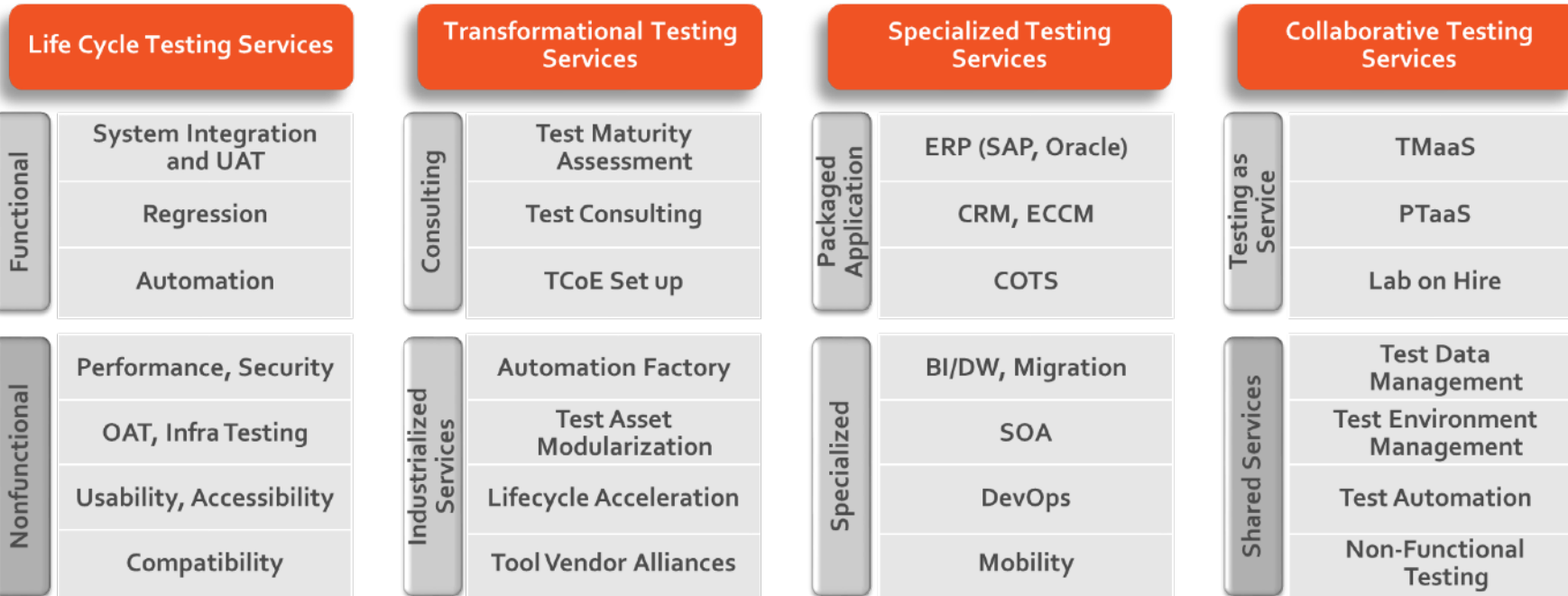


On site, Remote, Offshore, Hybrid Delivery Options



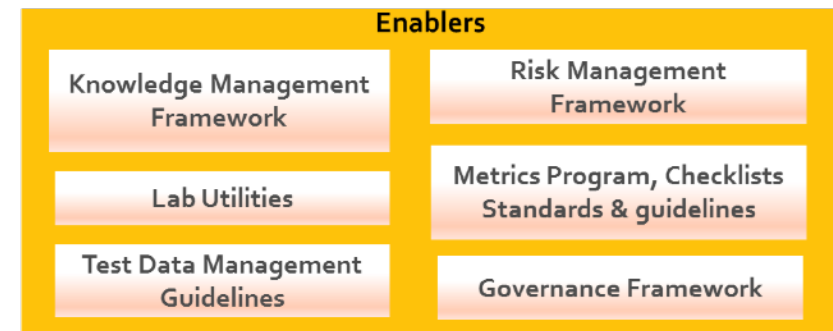
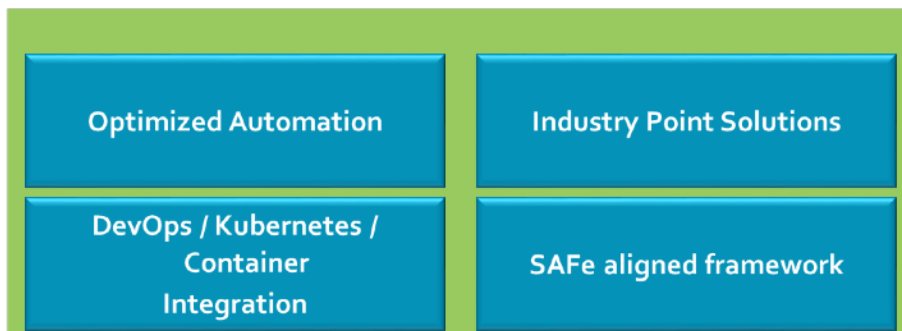
Managed Testing

MANAGED TESTING SERVICE PRACTICE



- Critical Success Factor
- Tailored Process
- Quantitative Project Management
- Risk Based Approach

- Open Source adaptation
- Domain specialists/SME & components
- Shift Left
- Tools experts



Core Testing

Functional Testing

- Domain focused approach
- Requirement mapping to test cases
- User behavior and journey testing
- Root cause analysis

Regression Testing

- Risk based testing for faster regression cycle
- Flexible ramp up to reduce cost
- Automation of regression suite

Integration Testing

- Integration of various systems and subsystems for workflow
- Web Services testing for integrations
- Result oriented approach

User Acceptance Testing

- Distributed environment tests.
- Expectations based test approach
- Session based test management

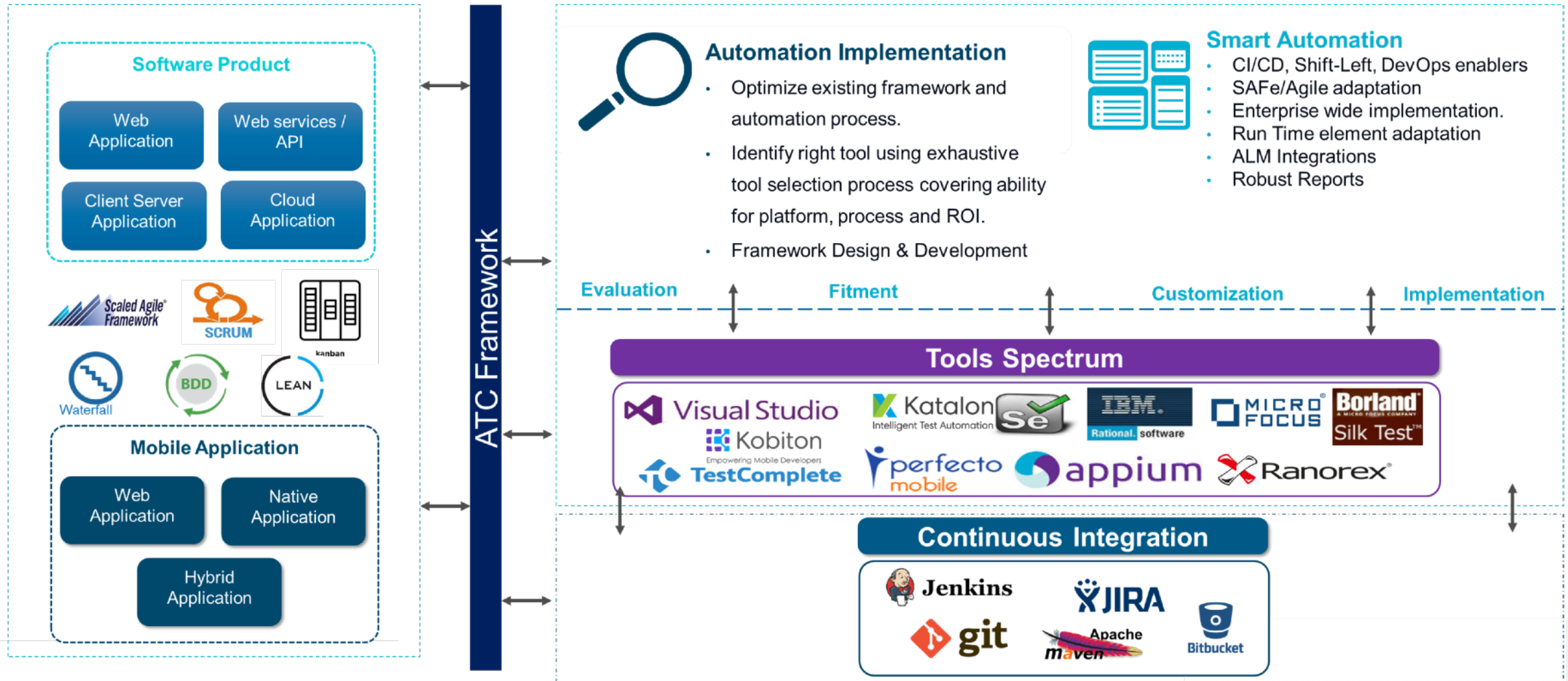


- Applications testing
 - Desktop applications
 - Web based applications
 - Mobile application
- Application interface testing
- SOA – Web services testing
- Database & BI testing
- Packaged enterprise applications testing
- Quantitative Test Management benefiting ISV's and Start ups.

Tools



Automation Testing

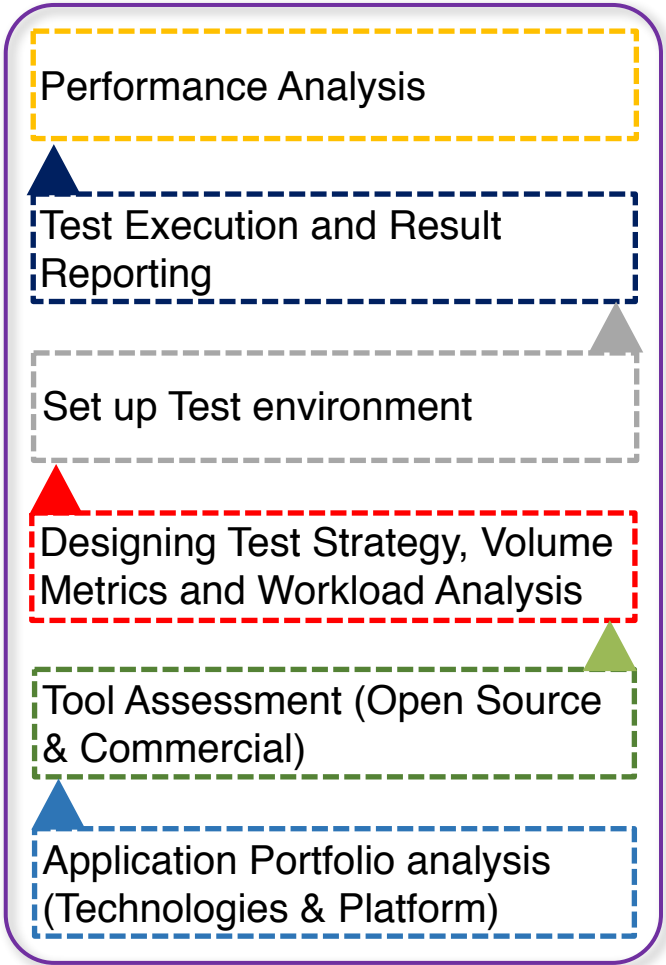


Performance Testing

Suite

- Enterprise Applications
- Enterprise Software
- Cloud Applications
- ISV
- Independent Software Vendor
- Web Application

Approach



Key Objective

- Assess the performance and identify critical bottlenecks to improve the scalability
- Conduct extensive performance testing under staging environments
- Analyze and compare the performance in every build ensuring its stability
- Exhaustive testing of the database back-ups / restoration of the system
- Load, Stress, Endurance, Spike, Volume, Compatibility Testing

Value Proposition

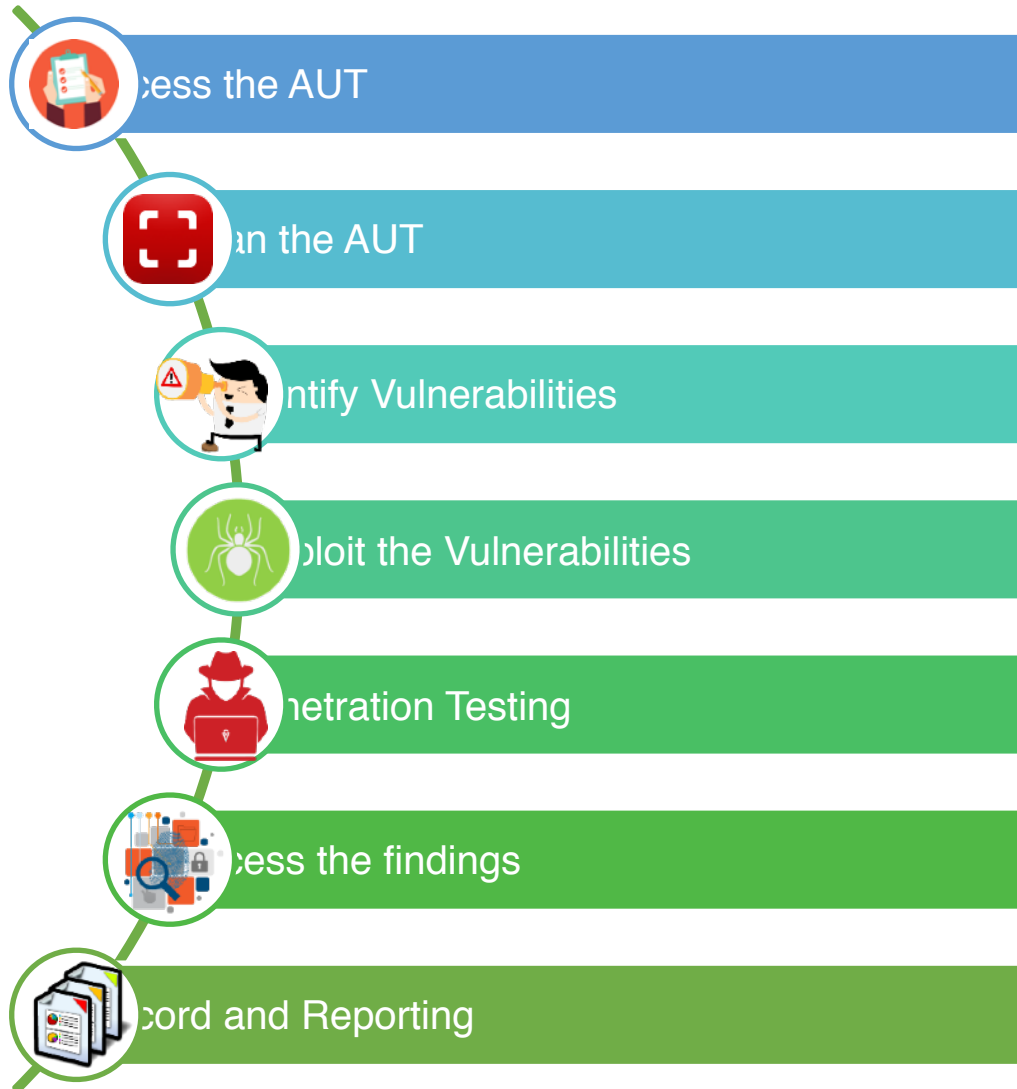
- Improved quality and efficiency at reduced cost
- Quicker Time- to-Market
- Engineer performance optimization in the application/ product lifecycle

Tools

- NeoLoad
- BlazeMeter
- APACHE JMeter™
- SP 18.0
- LoadComplete
- WEBLOAD
- dynatrace
- New Relic

Security Testing

Approach



Key Objective

- Assess the vulnerabilities of the application
- Evaluate all vulnerabilities against top 10 OWASP parameters
- Check for any information disclosure including passwords and personal details.
- Check for authenticity of the application and protection against hijack
- Check for ACL for access privilege.
- Check for potential hacking of the system and environment.

Tools



Zed Attack Proxy



Burp Suite



Kali Linux



Metasploit



Wireshark



sonarqube



AppScan



IBM Security



FORTIFY

Turnkey Testing

Fast paced and independent test cycles to supplement your product delivery

- Performance
- Security
- Automation
- System/Functional/User



Turnkey testing solutions afford your organization rapid deployment in a scalable scope. We use our tools and infrastructure to provide you quantifiable results. This supplements your existing processes and uncovers what you didn't know was missing.

Turnkey Testing



Benefits



“Alignment” - Turnkey testing cycle can be aligned with your sprint cycle to allow maximum efficiency and synchronization.



“No Lead Time” – Your innovation, your idea, your hard work gets quicker to market.



“Competitive Pricing” - Take advantage of our existing operation at competitive pricing.



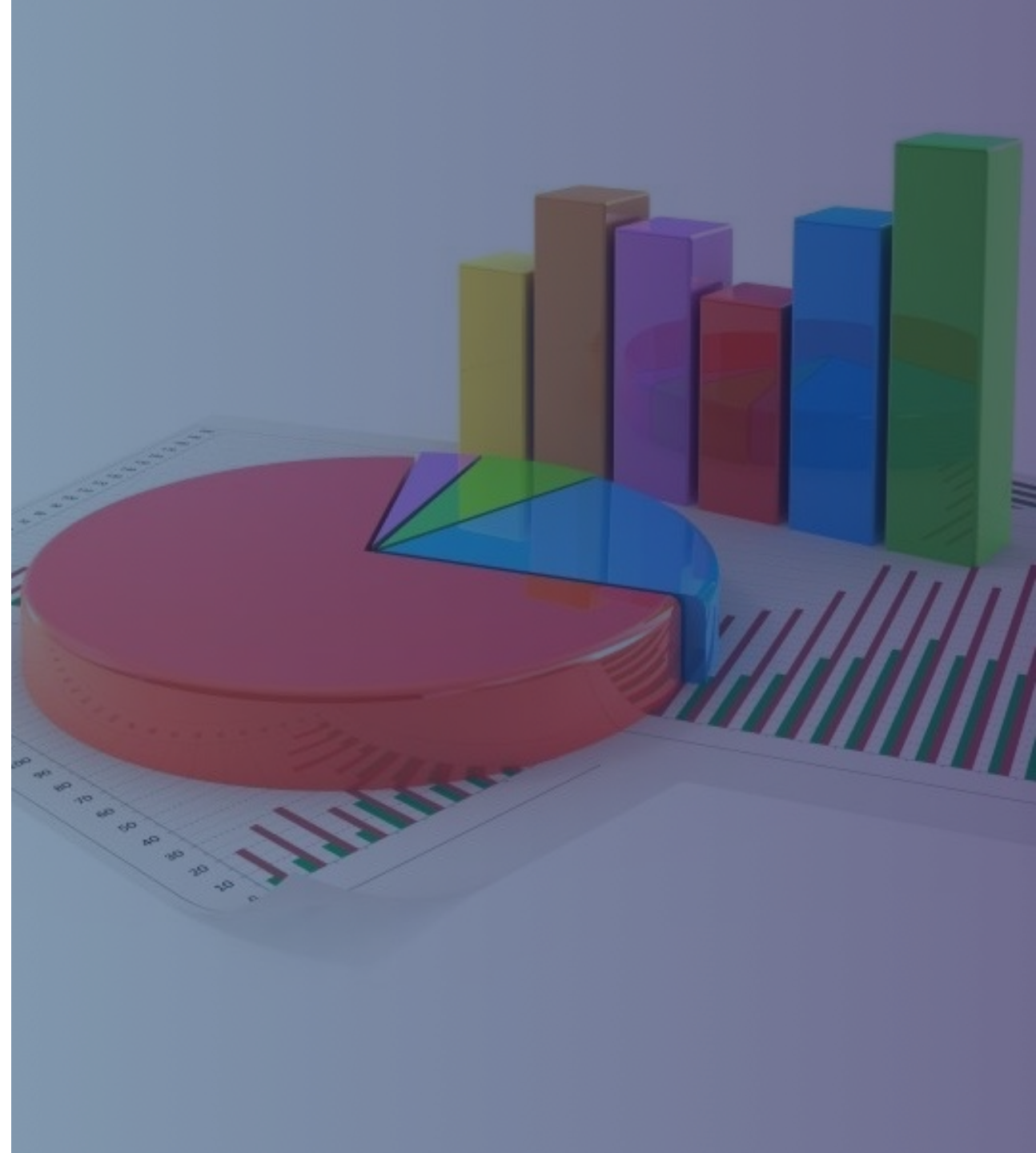
“Quality Improvement” - Our experienced testing engineers can increase your testing coverage and assure new quality standards.

Quality Assurance

Defining of processes that are aimed to prevent mistakes or defects that could potentially increase the cost of quality. Our defined processes in the lines of ISO 9001 standards is focused in providing confidence that quality requirements are fulfilled.

ATC continuously measure monitor and improve the processes to make the system work towards quality through every step. Quantitative measurements through metrics are collected to isolate causes to failure and serve as a foundation to continual improvement.

We bring a process driven approach to verifying whether a product meets required specifications and customer expectations defined under critical success factors.



Quality Assurance

Process

- Define/Adapt to processes and standards

Plan – Do – Check - Act

- Control and continual improvement of processes and products

Measure

- Quantitative project management defined by critical success factors
- Reduce waste

Governance

- Management reviews for adaptation of methodologies.
- Compliance to processes and standards



Technology Offering

Technology



Automation Testing Tools Expertise



Performance Testing Tools Expertise



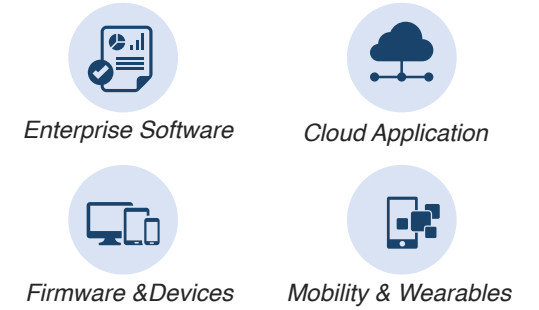
Security Testing Tools Expertise



DevOps and CI



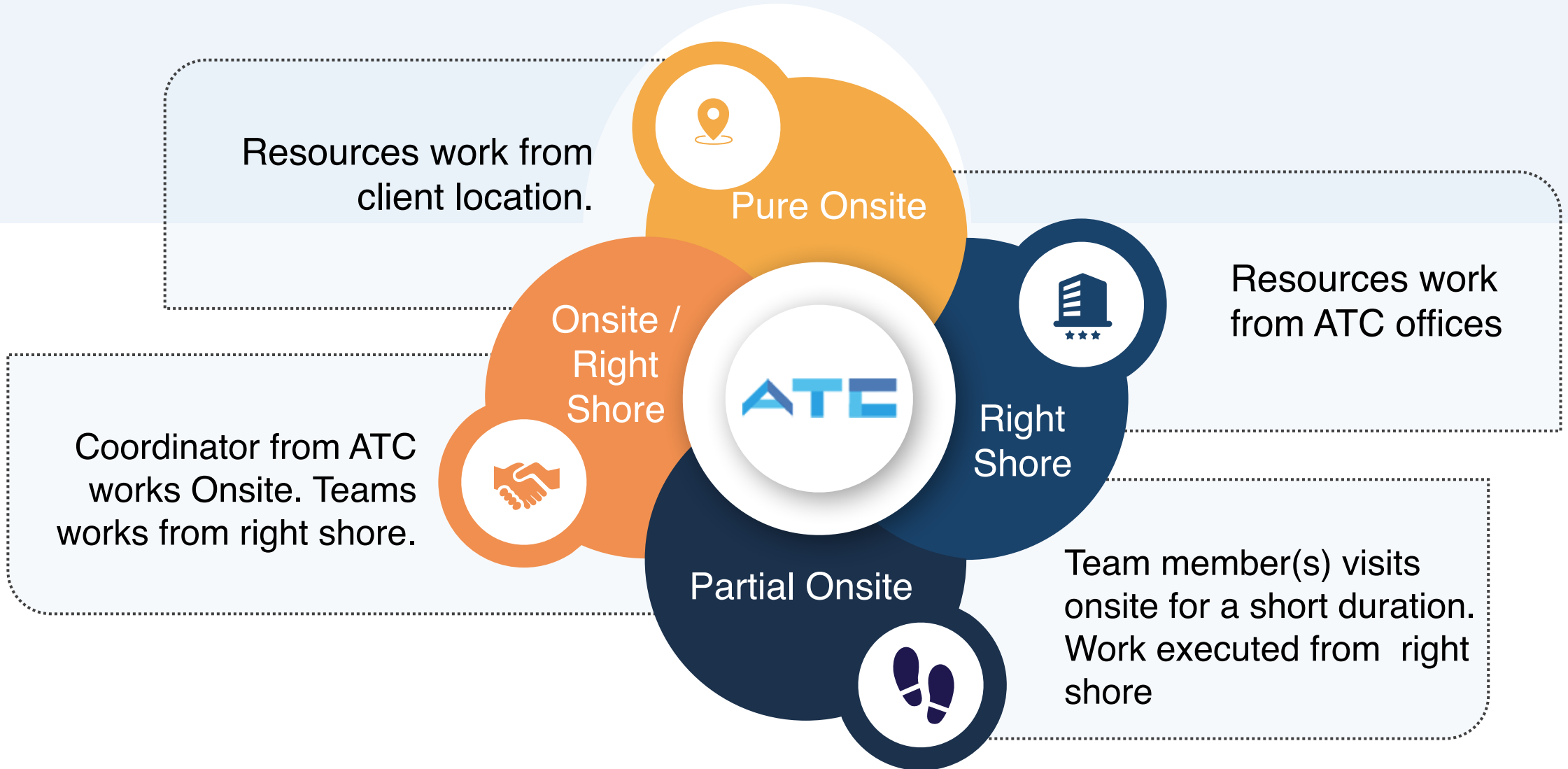
Products



Domain



Delivery Models





CHALLENGE

- A HRIS service provider on the cloud wanted to roll out a new product to managed complete applicants life cycle for jobs posted.
- Turnkey system testing was offered for a period of two weeks.
- Product was under continual development and the environment was unstable.



SOLUTION

- User journey was charted out and risks were identified.
- Session Based Test Management Model of exploratory testing was used to provide feedback.
- Actors were identified as product sliced to test the flow of these actors.
- Integrations were tested from the flow of these actors due to rapid changing environment



OUTCOME

- Unique defects were unearthed that weren't caught by internal team.
- Security vulnerability assessment was provided as a value add.
- User experience and recommendations were highlighted to customer along with defects.
- Two sprints were tested in 2 weeks, enabling the customer to improve quality.

The logo for ATE, consisting of the letters 'A', 'T', and 'E' in a stylized, blue, sans-serif font. The 'A' is formed by two blue triangles meeting at a point. The 'T' and 'E' are solid blue. The logo is positioned on a white, rounded rectangular background.

ATE

The word 'Questions.' in a white, sans-serif font, positioned on a dark blue background. The background features a close-up, slightly blurred image of a blue printed circuit board (PCB) with various components and traces.

Questions.

A large, white, 3D question mark is the central focus of the right side of the image. It is surrounded by a field of smaller, semi-transparent question marks in shades of blue and orange, creating a sense of depth and repetition. The background is a mix of dark blue and orange tones.