



# Services Overview



# American-Technology.net



**ATC** specializes in consulting with organizations that are interested in transitioning to **DevOps** and **SAFe** or enhancing the overall software **Quality**.

*ATC differentiates itself from the competition with:*



Certified  
Professionals



DevOps  
Experience



Technology &  
Tools Expertise



End to End  
Automation

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# Agenda

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- 01 **About Us**
  - 02 **Today's Emerging Methodologies**
  - 03 **DevOps**
  - 04 **SAFe**
  - 05 **Quality**
  - 06 **Delivery Model**
  - 07 **Case Study**
-



# 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



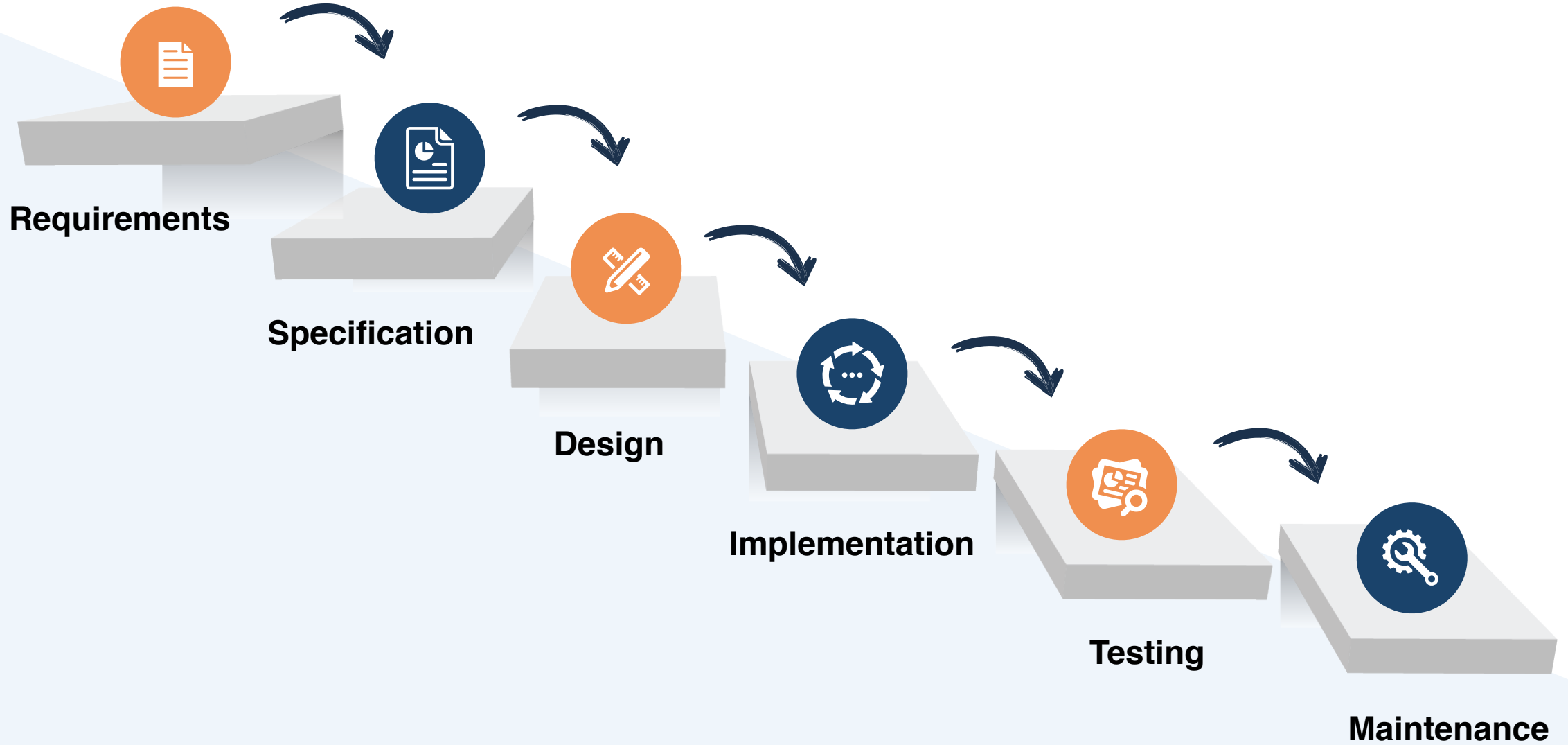
**270**  
Projects



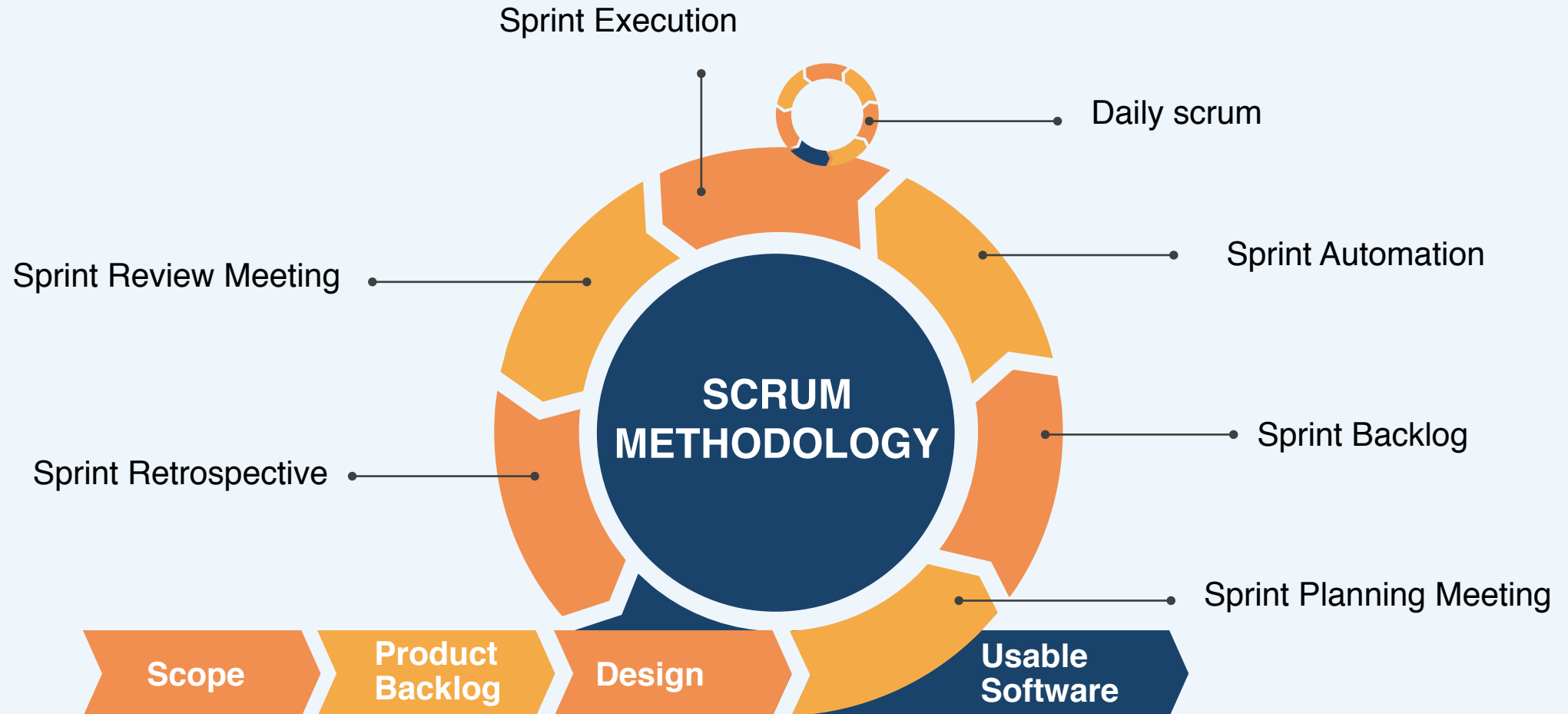
# Where does your organization fall in today's emerging methodologies?



# Waterfall



# Agile



# Agile

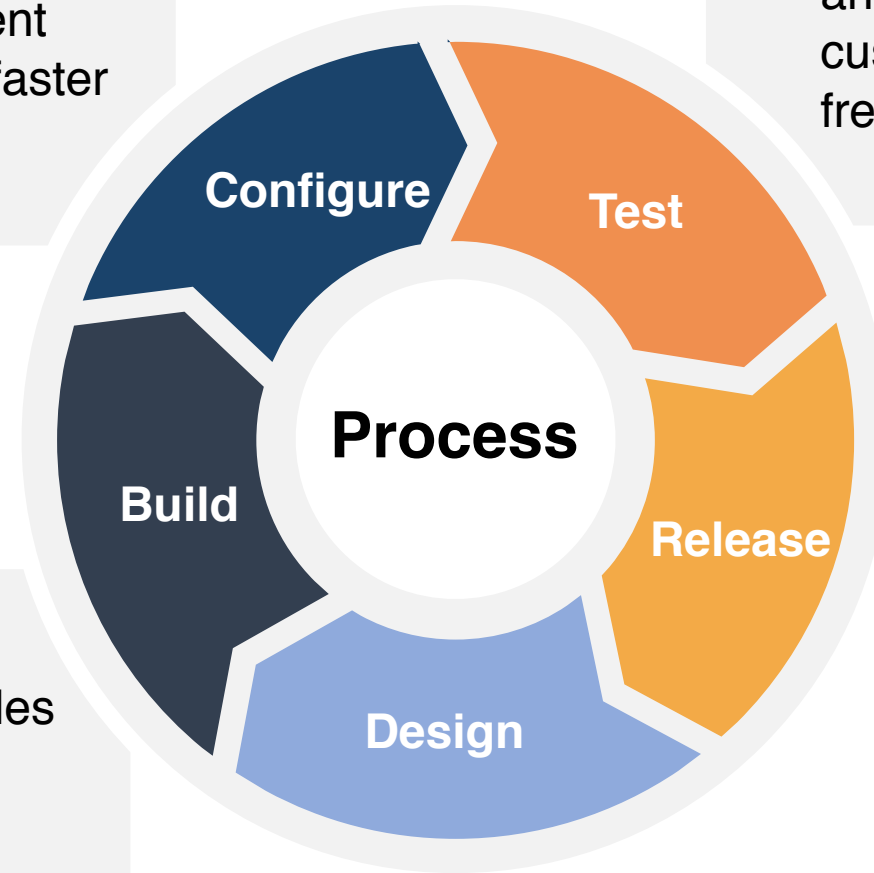
## *Agile Development*

Development follows a continuous improvement cycle, exposing flaws faster and reducing waste

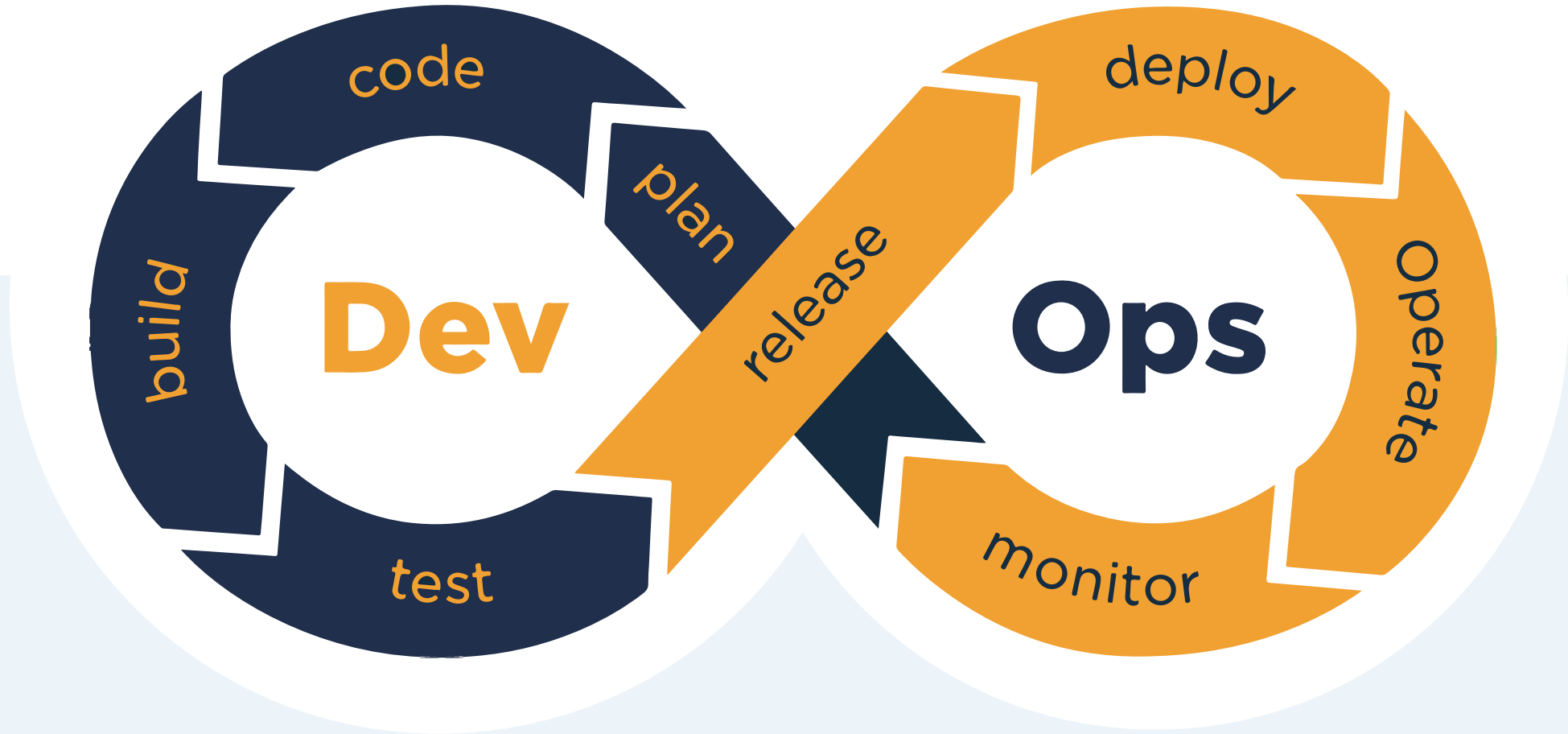
Value is achieved faster as releases arrive to the customer more frequently

### Advantages:

- Shorter development cycles
- Wider market windows
- Early customer feedback
- Continuous improvement



# DevOps



# DevOps

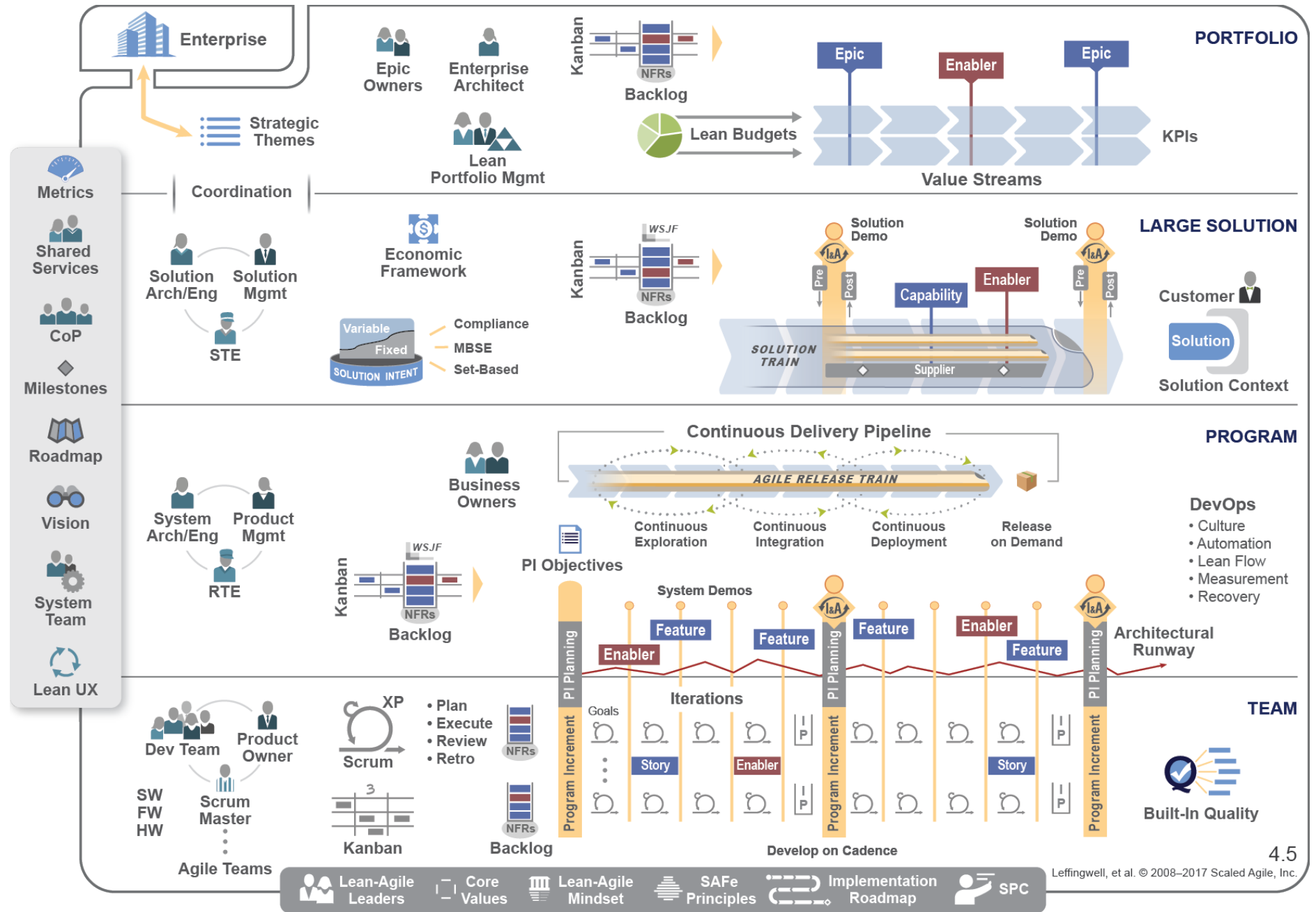
DevOps is a software engineering culture and practice that aims at unifying software development (Dev) and software operation (Ops).







It strongly advocates **automation** and **monitoring** at all steps of **software construction**, from **integration, testing, releasing to deployment and infrastructure management**.

DevOps aims at shorter development cycles, **increased deployment frequency**, and more dependable releases, in close alignment with business objectives.

# SAFe Framework



# Why SAFe?

<p><b>250,000</b> SAFe-trained professionals in 110+ countries</p> 	<p><b>180</b> Scaled Agile Partners in 50 countries</p> 	<p><b>SAFe SUMMIT</b></p>	<p><b>Freely Available</b> SAFe's knowledge base is freely available at <a href="https://scaledagileframework.com">scaledagileframework.com</a></p>
<p><b>70%</b> US Fortune 100 enterprises have SAFe-trained professionals</p> 		<p><b>Training</b> A comprehensive role-based curriculum for successfully implementing SAFe and skills validation through professional certification.</p> 	<p><b>Configurable</b> SAFe is able to accommodate enterprises of all sizes and industries</p>
<p><b>2 million</b> Annual visitors to SAFe and Scaled Agile websites</p>	<p><b>PLEDGE 1%</b> <b>Pledged 1%</b> Scaled Agile stock equity &amp; employee time to Pledge 1% campaign</p>		<p><b>Fastest Growing Method</b> SAFe cited as preferred solution for scaling Agile:</p> <ul style="list-style-type: none"> <li>• 2017 Agile in the Enterprise survey by Gartner Research</li> <li>• 12th Annual State of Agile Report by VersionOne</li> <li>• 2017 Scaling Agile Report by cPrime</li> </ul>

## SAFe CASE STUDIES

<p><b>30 - 75%</b> Faster Time-to-Market</p> 	<p><b>25 - 75%</b> Increase in Productivity</p> 	<p><b>20 - 50%</b> Improvements in Quality</p> 	<p><b>10 - 50%</b> Increased Employee Engagement</p> 
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# Quality Services



## Quality 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

# Quality 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



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



Industry experts with diverse project experience



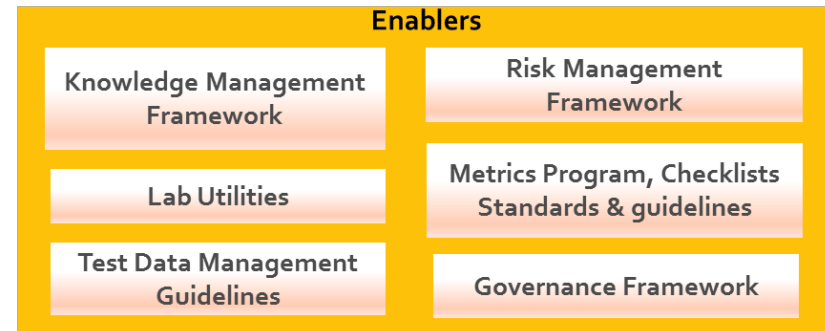
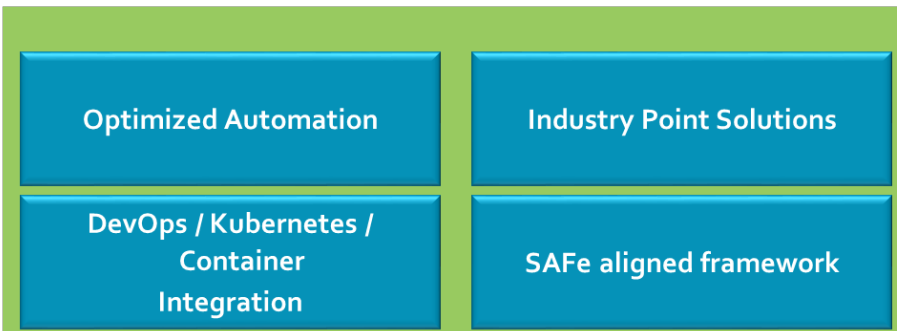
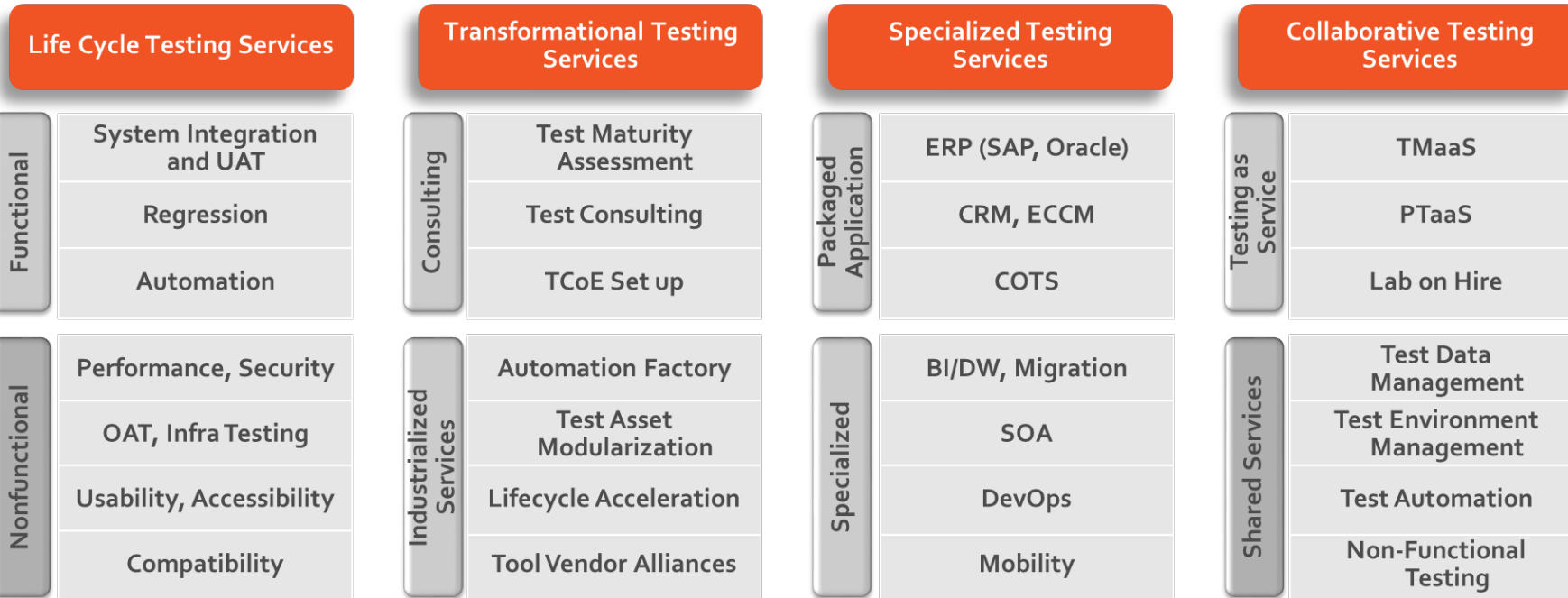
On site, Remote, Offshore, Hybrid Delivery Options





# Managed Testing

## MANAGED TESTING SERVICE PRACTICE



# 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

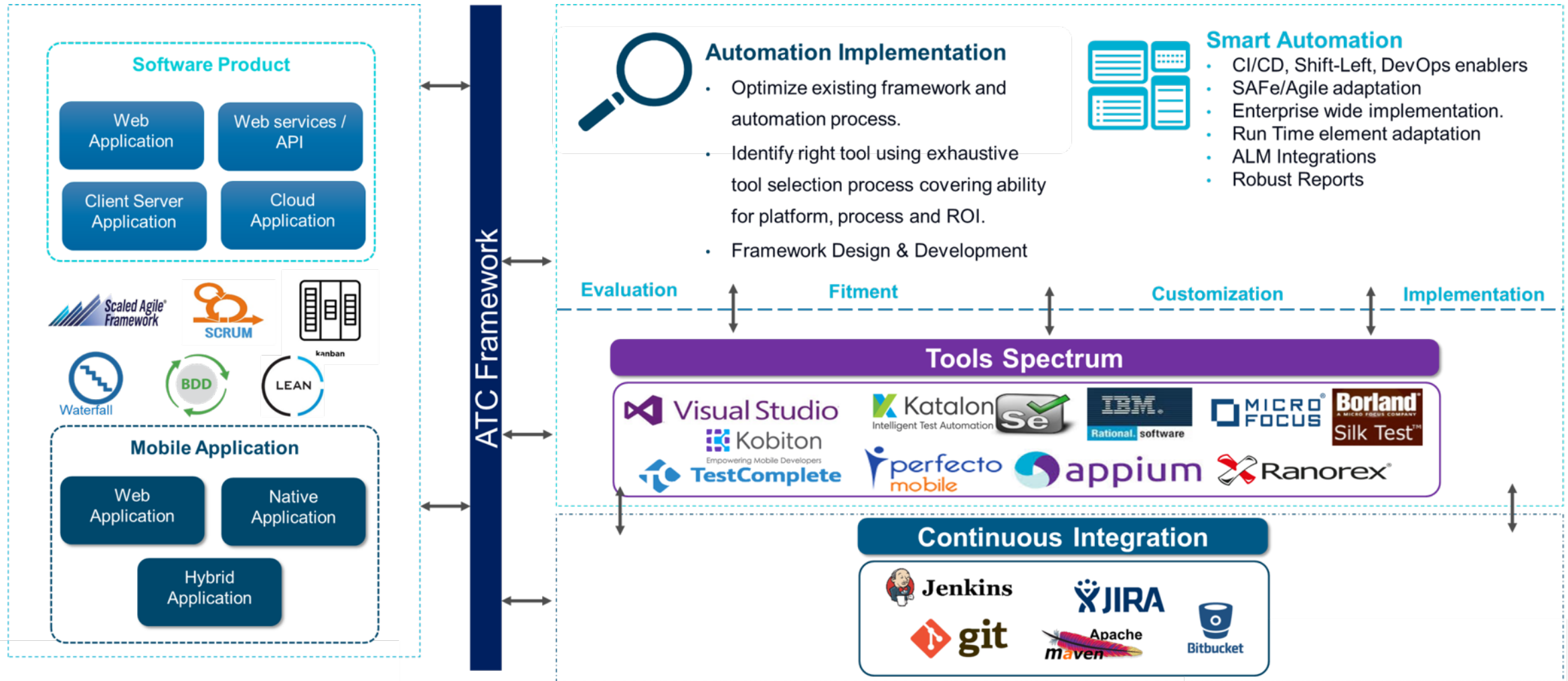


- Applications testing
  - Desktop applications
  - Web based applications
  - Mobile application
- Application interface testing
- SOA – Web services testing
- Database & BI testing
- Packaged enterprise applications testing
- Quantitative Test Management benefiting ISV's and Start ups.

## Tools



# Automation Testing



# Performance Testing

## Suite

Enterprise Applications



Enterprise Software



Cloud Applications



Independent Software Vendor



Web Application

## Approach

Performance Analysis

Test Execution and Result Reporting

Set up Test environment

Designing Test Strategy, Volume Metrics and Workload Analysis

Tool Assessment (Open Source & Commercial)

Application Portfolio analysis (Technologies & Platform)

## 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



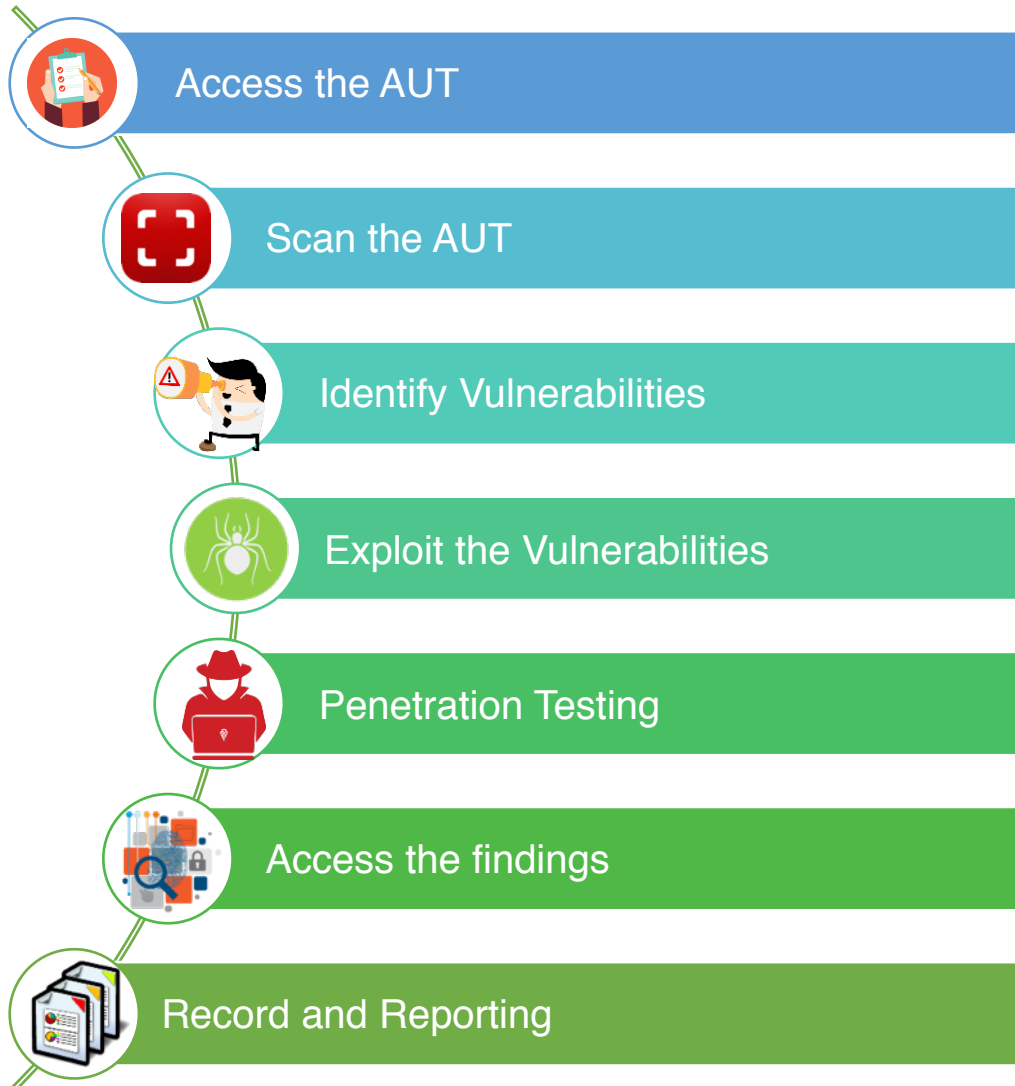
Engineer performance optimization in the application/ product lifecycle

## Tools



# 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.*



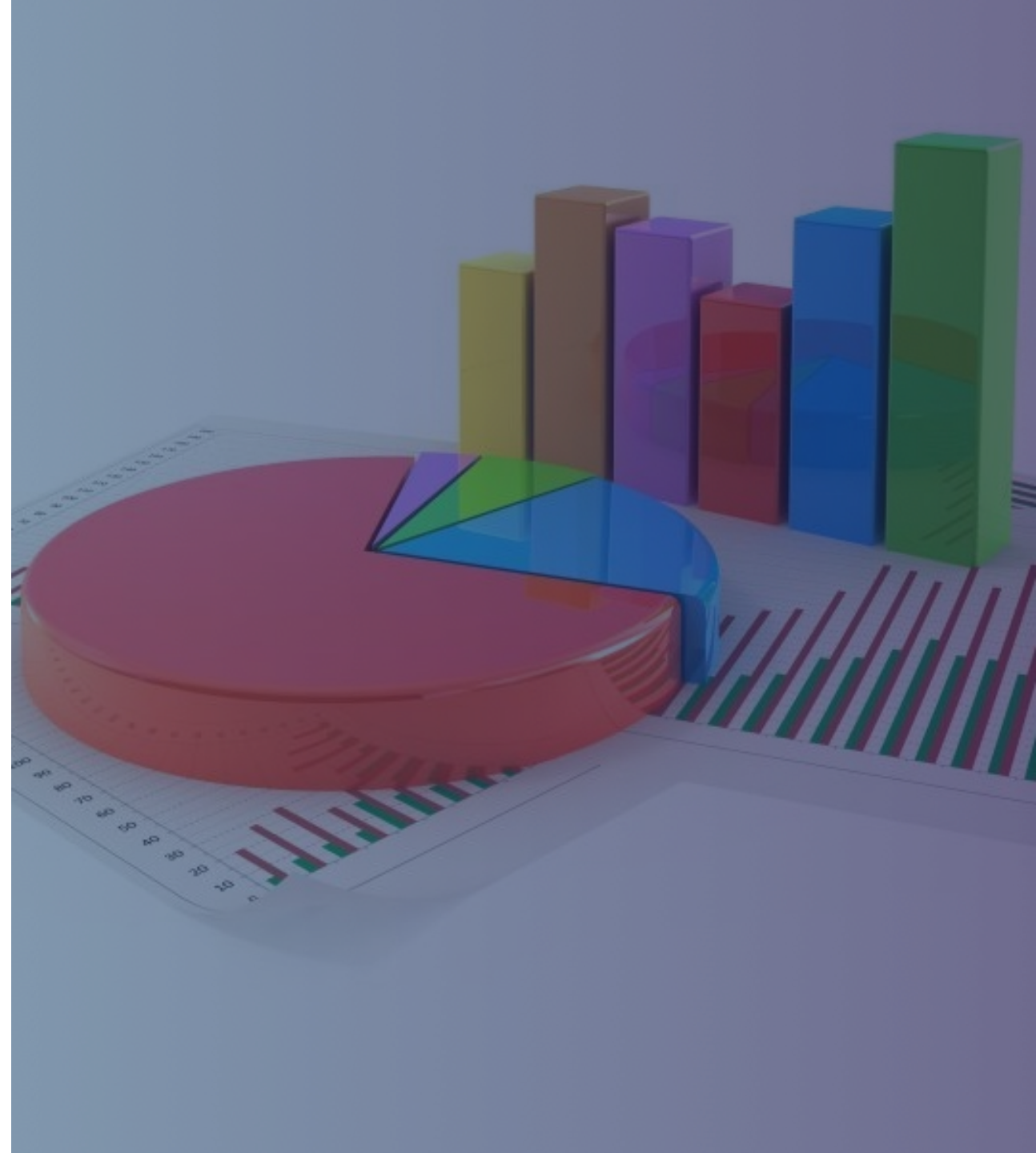
*“Quality Improvement” - Our experienced testing engineers can increase your testing coverage and assure new quality standards.*

# 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



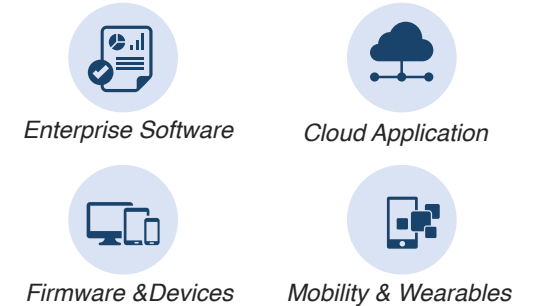
## Security Testing Tools Expertise



## DevOps and CI



## Products

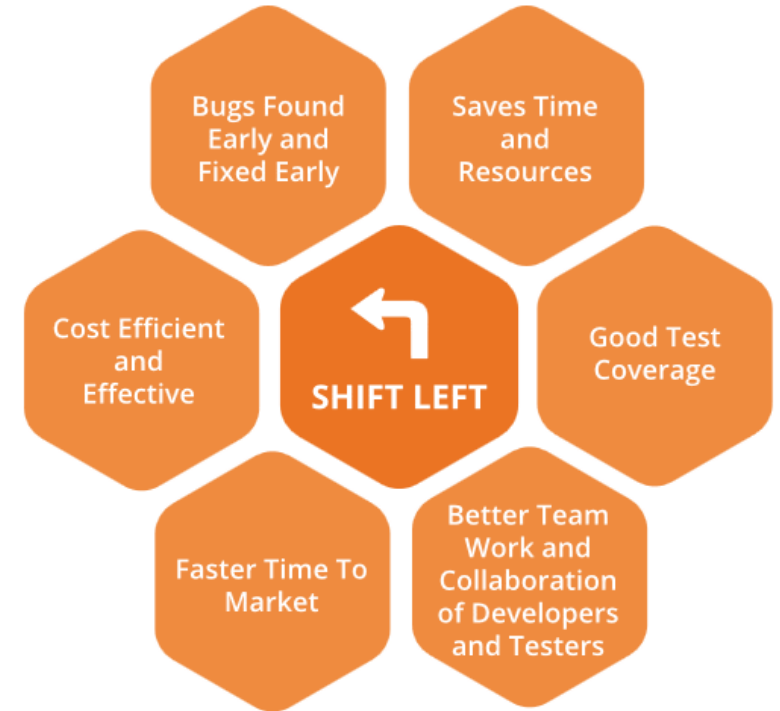


## Domain



# Our Quality Practices

**Fail Fast**  
**Fail Cheap**  
**Fail Forward**



## Why work with ATC?

**100%**

On-time Delivery from Rightshore



**25 - 75%**

Increase in Test Coverage



**70 - 100%**

More Defect Detected

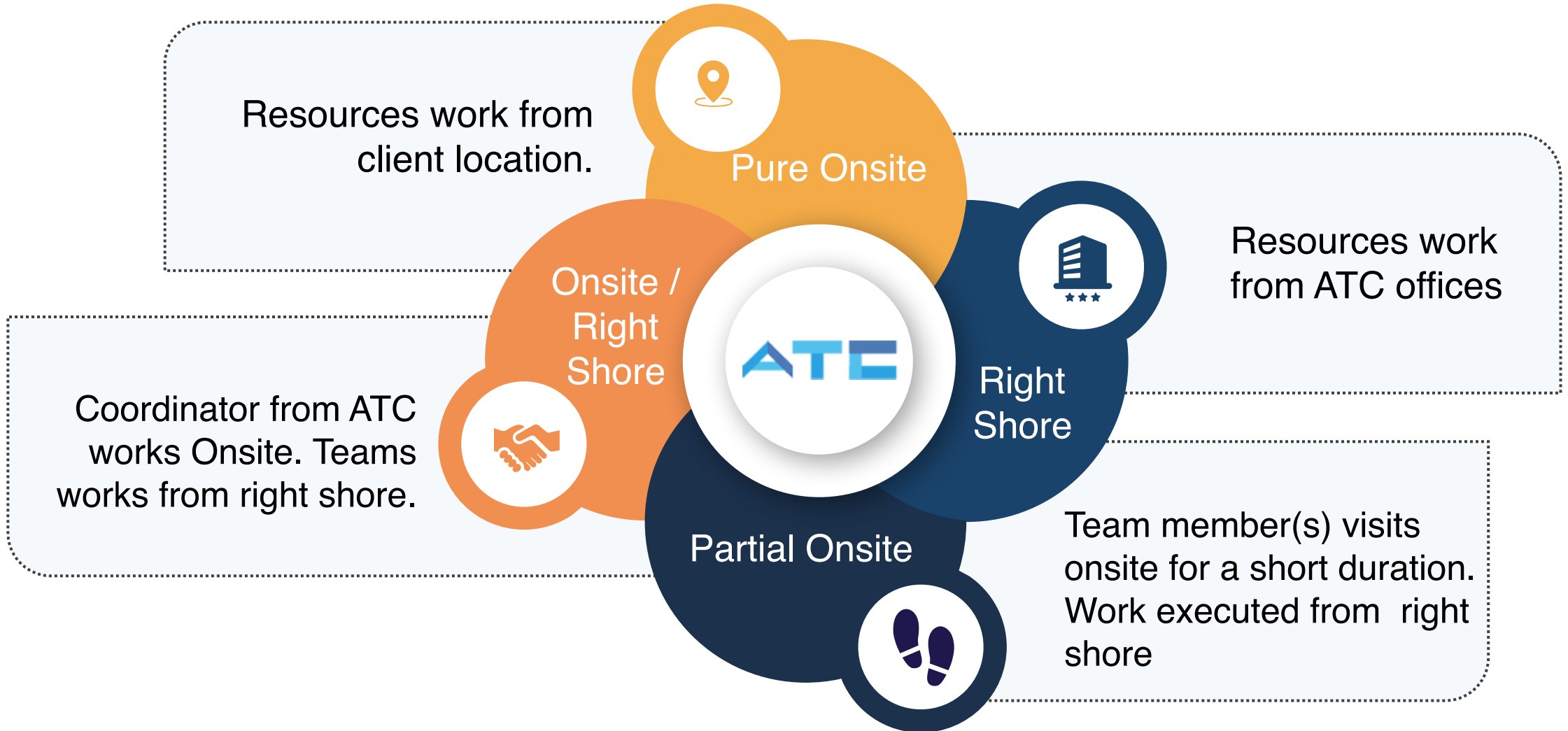


**50 - 70%**

Reduced Cost for Fixing Issues



# 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.



# Get in touch with us:

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