

# Automation Services

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## Test and Verification Solutions

*Delivering Tailored Solutions for  
Hardware Verification and Software Testing*



# Why Use Automation Testing?

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- 1.) Traditional testing approaches are at breaking point – slow & inflexible
- 2.) Focus on agile continuous integration development methodology
- 3.) Fast changing environment
- 4.) Regular software releases to meet customer demand

## Benefits

- Increased coverage
- Faster time to market
- Reduced cost
- Refocus manual testing on priority functionality

## Drawbacks

- Extra setup effort
- Skills lost
- Fragile

Let T&VS help you avoid the drawbacks:

- 10years + automation experience
- 1000s of hours automation scripting and IP created
- 2 x Centre-of-excellence with vast knowledge and experience across many deliveries.

# T&VS Automation Framework

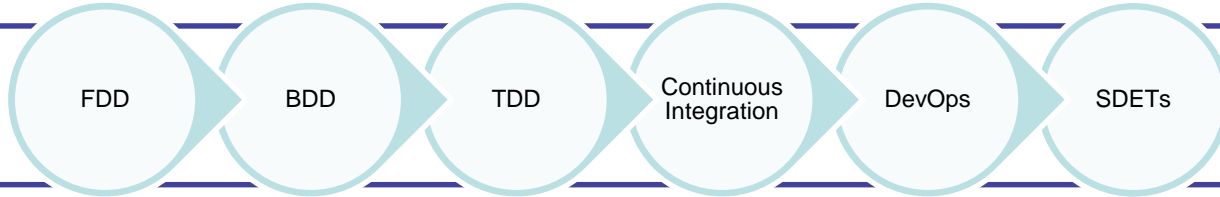
- Focus on ROI
- Business Demands / Objectives



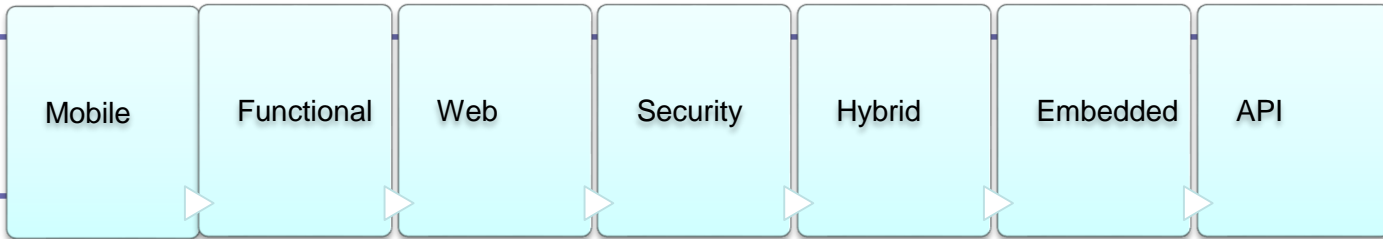
Automation Strategy

- T&VS automation centre of excellence – UK & Bangalore
- Industry best practice – shaping the future of test automation
- Developed inhouse tools: assureSIGN / Run Manager / sureSIGN

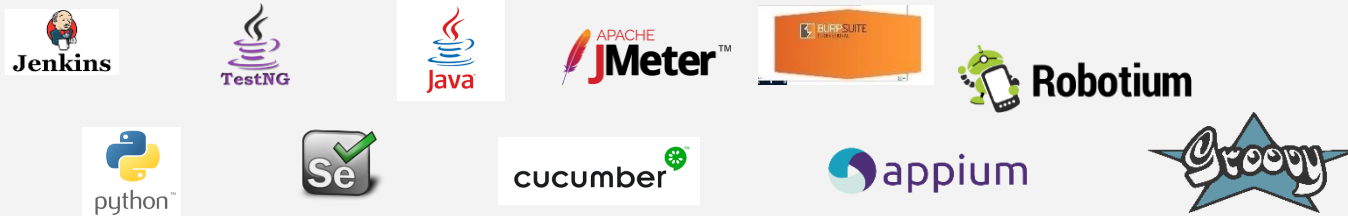
Approach



Type



Tools



Increase Efficiency

Increase Coverage

Increase Effectiveness

# Automation Expertise

## 1.) Domain

Retail



Healthcare



IoT



FinTech



Ecommerce



## 2.) Type

### Web

- Functional testing
- Regression testing
- Smoke & Sanity testing
- Integration testing
- UI testing
- Localization testing
- Cross-browser testing
- Performance testing

### Mobile

- Native app - iOS and Android
- Hybrid app
- Testing on real devices, simulators / emulators and cloud platforms
- Parallel tests run for speed
- Cross-platform support

### API

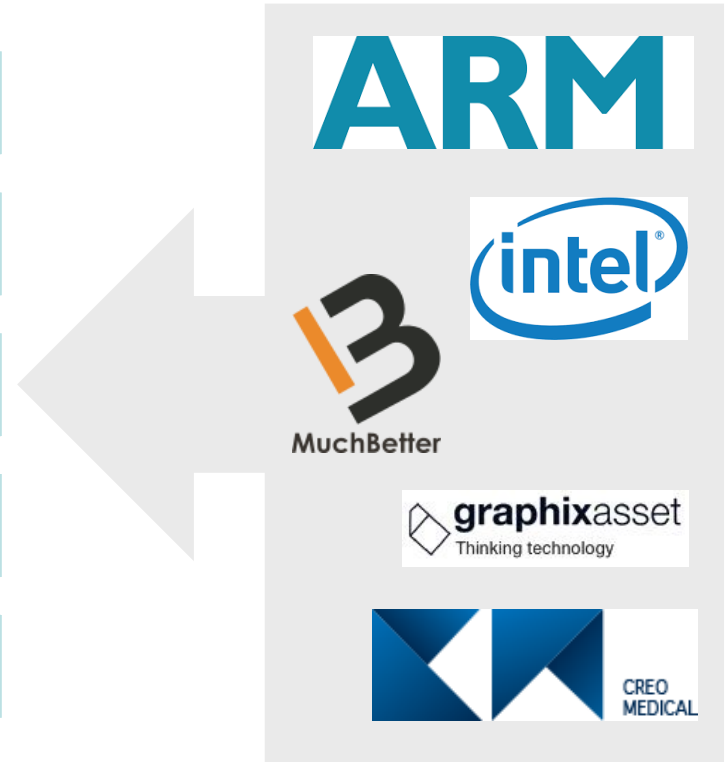
- Testing of RESTful APIs
- SOAP web services.
- Support for industry standard data formats (JSON, XML, plain text, etc.)
- Integration testing
- Non-UI functional testing

### Security

- Web application
- APIs
- Mobile apps

# Why T&VS Automation?

- Automation experts
- Reusable IP
- Trusted Partner
- ROI focus
- Faster time to market



## ✓ Lower development costs and faster time-to-market

- *“T&VS engineers saved 2 months on our 12 month schedule, and reduced our costs by 20%”*

Steve Neill, Managing Director of Infineon UK

# Client Case Studies



**Company:** mobile platform-based for managing workforce tasks using location intelligence.

**Scope:** automated test suite for the TaskEase mobile app.

**Approach:** delivered Robotium test automation framework

**Benefits:**

Automated >90% of functional testing

Reduced maintenance costs with automated regression packs



**Company:** innovative virtual reality

**Scope:** implement an automation framework

**Approach:** FDD automated regression using python

**Benefits:**

Reduced test management overhead by 70%+

Enabled continuous integration



**Company:** FinTech mobile banking payment app

**Scope:** provide test expertise and automation

**Approach:** BDD automation of API using java & appium

**Benefits:**

60+ cost saving compared to UK

Measurably improved software quality

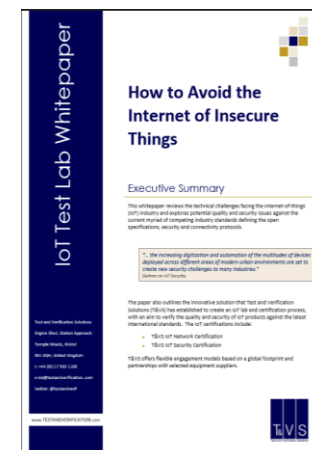


# Engagement Models & Why T&VS?

Engagement Models	Why T&VS?
<ul style="list-style-type: none"><li>Onsite</li></ul>	<ul style="list-style-type: none"><li>Cost for internal test capability is high</li></ul>
<ul style="list-style-type: none"><li>Offshore</li></ul>	<ul style="list-style-type: none"><li>Flexible resourcing models</li></ul>
<ul style="list-style-type: none"><li>Access to our facility</li></ul>	<ul style="list-style-type: none"><li>Testing experts</li></ul>
<ul style="list-style-type: none"><li>Nearshore</li></ul>	<ul style="list-style-type: none"><li>Global offices</li></ul>

Thought leaders:

- Verification Conferences and Clubs
- GDPR workshop
- NMI IoT Security Foundation



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**THANK YOU**

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