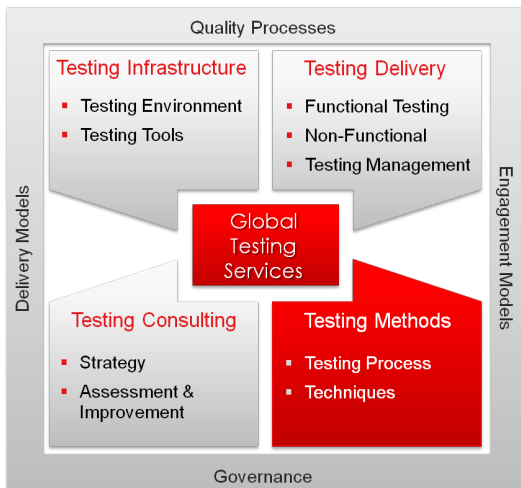


Testing Methods



Summary:

- Flexible framework of methods that are pragmatic, context driven and effective
- Industry leading approaches to risk based and performance testing
- Reduces the risk of inefficient or ineffective testing through stronger, and earlier, defect detection
- Provides a powerful 'tool box' for both test managers and test analysts that can be used in a variety of ways
- Increases value of testing to the business by improving the ability to deliver quality systems on time and budget

At the core of our delivery capability is an industrialised test process and set of associated techniques that provide a flexible framework which is pragmatic, context driven and effective.

Test Process

Our core testing process is broadly aligned with ISTQB / ISEB and upcoming ISO 29119 standards. While maintaining compliance to these industry benchmarks we are committed to a flexible, value driven approach that moves the quality focus back up the development life cycle.

This is further enhanced by innovative, proven and pragmatic approaches to both risk-based testing and requirements traceability.

All too often the non-functional side of testing is poorly planned, executed or evaluated. Our industry leading performance testing approach is proven and is the reason why many of our clients in this area have seen significant benefits and risk reduction - delivering applications that are first

class in terms of performance and reliability.

Techniques

For testing to be effective, deliver cost savings and better defect detection, appropriate use of techniques is essential.

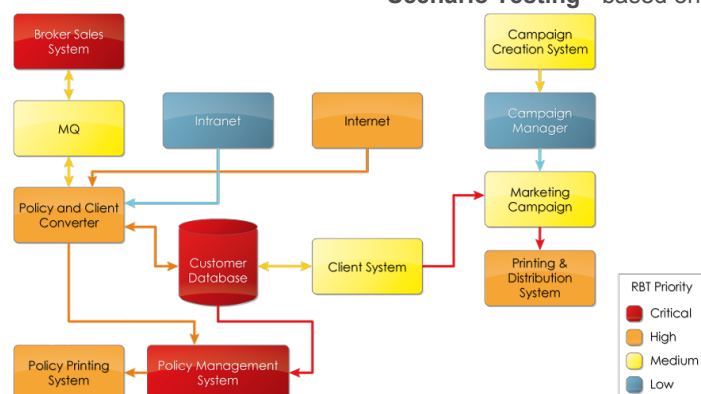
It's not just a case of applying text book techniques and standards but applying techniques and approaches that make a real difference.

We are foremost in the implementation of techniques such as:

- Reviews and Static Testing
- Requirements testing using our '10 point' rules

- **Exploratory testing / Rapid testing** - high value and powerful set of methods and heuristics including use of Session Based Test Management (SBTM). We can provide both education and advice to your own staff or completely manage your exploratory test sessions.
- **Heatmaps** - award-winning, highly visual and descriptive approach to risk based testing, recognised in the industry as being both innovative and pragmatic. We will work with you to ensure that both business and technical risks are fully and properly assessed and that these views are merged against a common view of the systems structure or architecture

- **Scenario Testing** - based on the



work of Cem Kaner and using his '12 ways' as a starting point our designers and consultants can work with you to ensure real world scenarios are understood, tested and evaluated.

Why Are They Needed?

There has always been a need for testing within organisations to operate both efficiently and effectively. In the current climate this is heightened and there is a sharp focus on maximising and measuring the return that businesses receive from their testing investment.

Are you facing any of these key challenges? :

- The need to reduce your testing time and cost while at the same time maintaining or improving quality levels
- Your testing is being carried out by people with limited or no formal training or background
- You recognise that your testing can be improved but are not clear on how best to resolve
- You've attempted performance testing but your applications continue to lack robustness and are not scalable with slow in live performance
- You are looking for inspiration and innovation in terms of good practices you can implement that will make a real difference and counter the 'let's test the same as last time' syndrome
- Your processes for vendor acceptance are inefficient and unclear, resulting in unnecessary test repetition following supplier delivery.

Key Features

Fundamental Test Process

Whether you need an overall test strategy or the specific approach for a particular programme or project we will work with you to define and

agree the right 'blend(s)' to match your needs.

Risk based Testing (RBT)

We have experience of successfully applying multiple styles and flavours or RBT across a wide range of clients and verticals. From simple but effective prioritisation through to full blown risk registers and workshops we have the experience to deliver.

Requirements Traceability

Our approach to this doesn't just set in place the mechanisms to support bi-direction traceability of requirements between origin <-> realisation <-> testing but also ensuring that these mechanisms themselves are subject to rigorous testing.

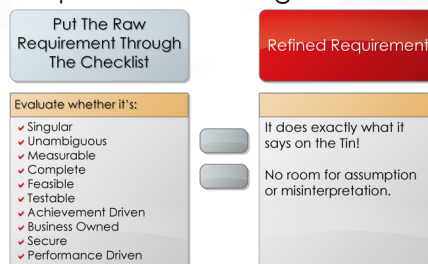
Reviews and Static Testing

Although the move to agile and collaborative methodologies is re-establishing the value of reviews they are often still under utilised, under valued or poorly carried out. We can perform appropriate reviews and static testing that will deliver benefits early in the lifecycle for both functional and non-functional requirements.

Requirements testing

Our '10 point' ruleset and the procedures developed around it's use are a specific example of the massive power of reviews applied to the requirements - commonly one of the most difficult work products to manage across the whole lifecycle. We'll show you why huge long term savings have been achieved by reducing requirements churn and unnecessary rework.

Requirements Testing



Performance Test Process

Our proven Performance test process will ensure your requirements for performance testing fully satisfy the following criteria:

- Realistic
- Testable
- Measurable
- Business Driven

How Will It Be Delivered?

We will work with you to establish current testing and review methods, practices from the very beginning of a project lifecycle. We will recommend where and how these need to be defined, enhanced or replaced and provide ongoing coaching and mentoring to ensure successful take up.

Key Benefits

- Cost Savings through increased efficiency and effectiveness and early defect detection. Enable cost savings of up to 40% to be achieved against your current testing spend
- You get the process which best fits your context whether we supply it or collaborate with you to proactively and selectively optimise your existing processes
- The right performance testing, planned and designed effectively with the appropriate use of relevant performance tools
- Lower defect rates for both functional, integration and non functional aspects of systems leading to increased customer satisfaction
- Stronger vendor leverage enabling full clarity and control of the testing activities of your suppliers, resulting in increased confidence in deliverables, and reduction of timely and costly retesting.

For further information please see <http://www.sopragroup.co.uk/services/core/testing/index.htm> or contact info@sopragroup.co.uk