

From time-consuming to time-saving: A government agency's test automation transformation

How MB Test Partners and Tricentis helped a government agency reduce testing time from 3 weeks to 2 hours, while improving quality.

There's an age-old saying that time is money. And when you're a large government agency working on a multimillion-dollar program, you don't have the time to waste on manually testing every single test case.

An Australian State government department had a large number of the same test cases with different combinations, and its manual testers were spending way too many hours regression testing each combination – leading to increasingly long delays, rising costs, and defects.

So, what was the solution? Test automation and AI.

From manual testing to automation: A government agency enables regression testing

MB Test Partners (MBTP) implemented automated regression testing for the government agency's SAP Fiori and SAP GUI. The result was the ability for testers to build a test case once and run it across different combinations and environments with only minimal maintenance changes. By automating test cases, MB Test Partners was able to help the government agency capture defects earlier in the lifecycle so errors could be fixed before going to production.

MB Test Partners used Tricentis Tosca, an AI-driven, end-to-end testing tool, to accelerate the regression testing. Tosca's test case design feature allowed MB Test Partners to quickly generate all the test case combinations and run them a number of times – something manual testers cannot do.

Test automation with the Tosca tool was provided across three of the government agency's critical business areas: finance, procurement, and human capital management (HCM). HCM included four main areas:

- Payroll
- Time and attendance (T and A)
- Leave application and approvals workflow
- Onboarding

From automated regression testing to data validation and UAT

One of the benefits of using Tricentis Tosca is the ability to easily port from one environment to another. To validate the data migration process and how the data permutations worked with the changes to the application functionality, MB Test Partners ported the regression test cases into the UAT environment. This approach enabled thousands of combinations to be tested while ensuring both the new and existing functionality worked with the newly migrated and existing data.

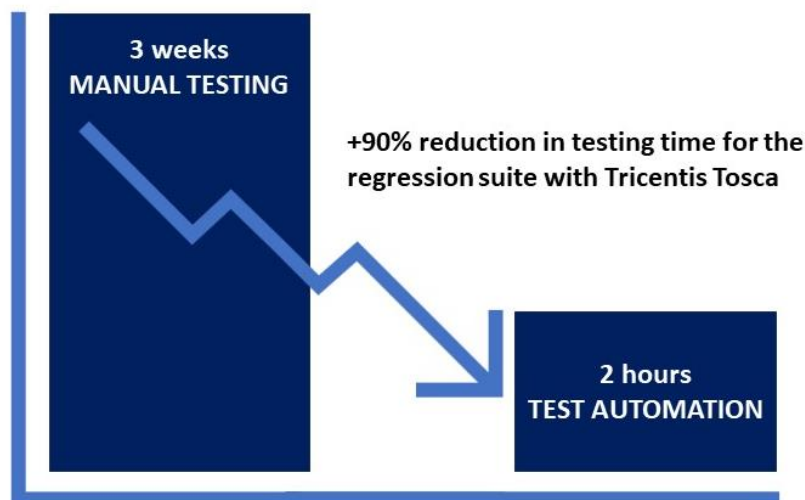
The benefits of test automation: Saving time, reducing costs, improving quality

A group of 200 tests were identified that covered the highest risk areas and most commonly used features in the application. MB Test Partners started by automating test cases that ranged from simple to complex using Tosca. Manually testing the most complex test case would have taken a minimum of an hour. But with automation, Tosca was able to cut the testing time.

Think of the bigger picture here. It takes about three hours to automate a test case, the initial goal of 120 test cases was completed in five weeks.

It now takes two hours to run with automation versus three weeks to manually execute, saving significant time on testing and reducing the program's burn rate by hundreds of thousands of dollars. More test cases are being added daily and as the repository grows, it is projected to reach more than 200 test cases by the time the program finishes.

Besides time and resource savings, there are the bonus Tosca automation benefits of freeing up the agency's senior business users to focus on more essential activities and the increase in quality because of better accuracy and reduced errors.



MB Test Partners + Tricentis: The services and tools for quality test automation

The government agency is just one of many clients working with MB Test Partners. We provide software test management services across industries from State and Federal governments to the infrastructure and property sectors.

We partner with our clients to address their individual challenges and goals so we can best deliver quality outcomes backed by extensive expertise in the test automation space and specialisation with SAP. By partnering with Tricentis, we are able to provide our clients with leading end-to-end test automation tools like Tosca that improve quality and performance and save them significant time, money, and resources.

Tricentis recognised MB Test Partners' achievements in delivering outstanding testing transformation solutions by awarding it the ANZ Breakthrough Partner for 2023.

MB Test Partners are an accredited Tricentis Solutions Partner

