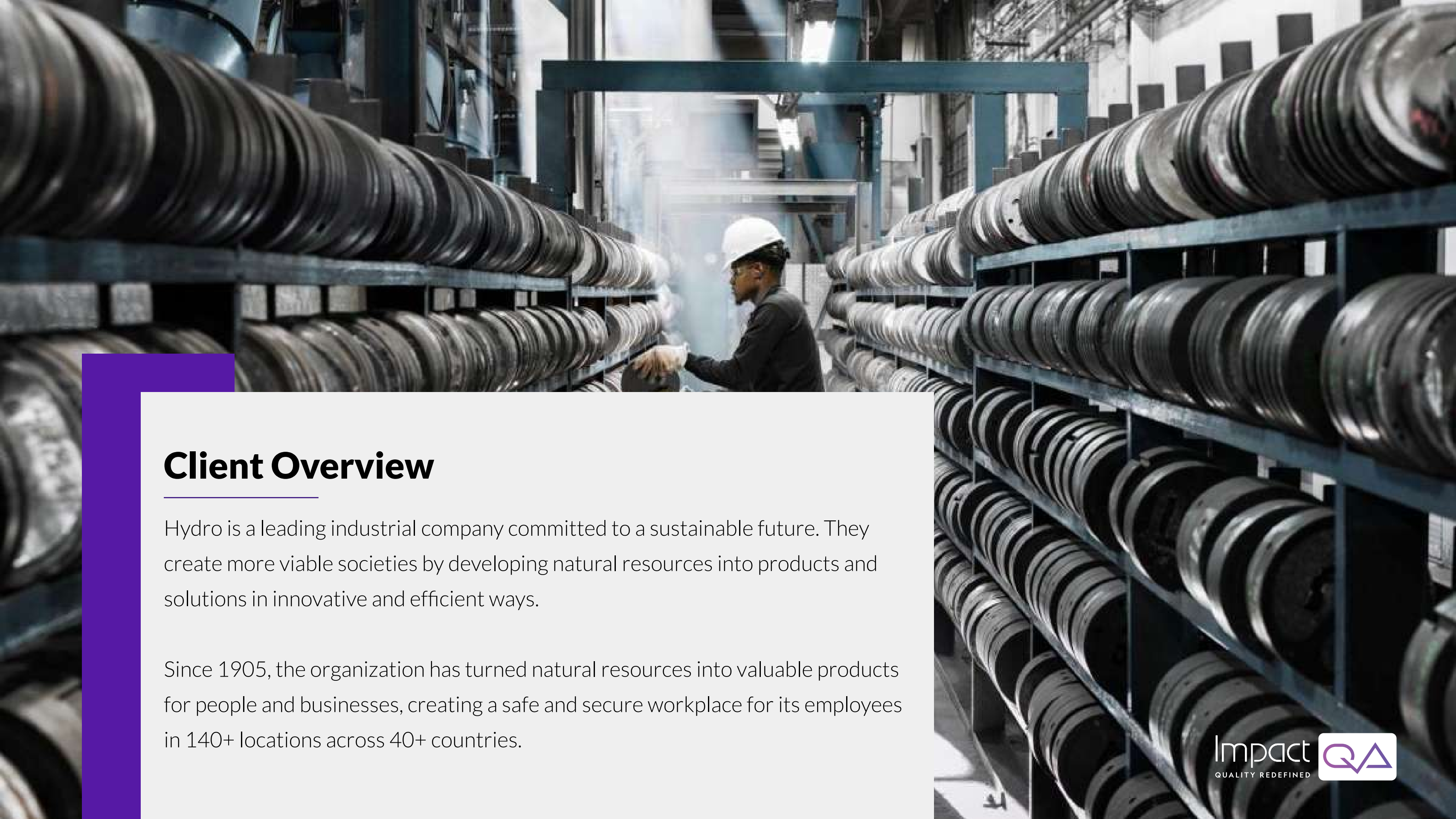




Automated SAP Fiori for a Large Norwegian Aluminum and Renewable Energy Company



Client Overview

Hydro is a leading industrial company committed to a sustainable future. They create more viable societies by developing natural resources into products and solutions in innovative and efficient ways.

Since 1905, the organization has turned natural resources into valuable products for people and businesses, creating a safe and secure workplace for its employees in 140+ locations across 40+ countries.

Key Focus

ImpactQA was responsible for completing end-to-end validation of the SAP Fiori implementation and its interfaces with other in-house applications of MPDV Hydra. In addition, our QA team successfully managed the automation of the regression test suite of the SAP Fiori application.

At the start of the engagement, ImpactQA thoroughly analyzed the current state of the client's SAP S/4 Fiori applications/-modules, SAP Concur, SAP S/4 HANA and their interaction with existing systems like payroll, ESS, etc.

The key focus of the application landscape and testing needs identified were:

- Complex integration between 14 applications of varied sizes within Hydra MPDV
- Key data communication across the Hydro software systems
- Stability of order management system and customer support system
- Very high manual testing effort for any new changes
- Compatibility of the application on different browsers
- Setting up test management process and project artefacts repository

Solution Provided

- Created reusable application-based regression test pack, sanity test pack
- Created system-based, end-to-end testing regression test pack

ImpactQA leveraged its partnership with MF UFT to conduct SAP Fiori Mobile Test Automation which helped with the following:

- Model-based testing by scanning UI screens for SAP Fiori tests
- Distributed execution of the same test cases on a plethora of mobile devices, desktops, and browsers
- Automated the execution across multiple countries on distributed mobile systems, which helped accelerate test execution speed
- Conducted the spinning of test environments on SauceLabs for various mobile versions

Technology Stack

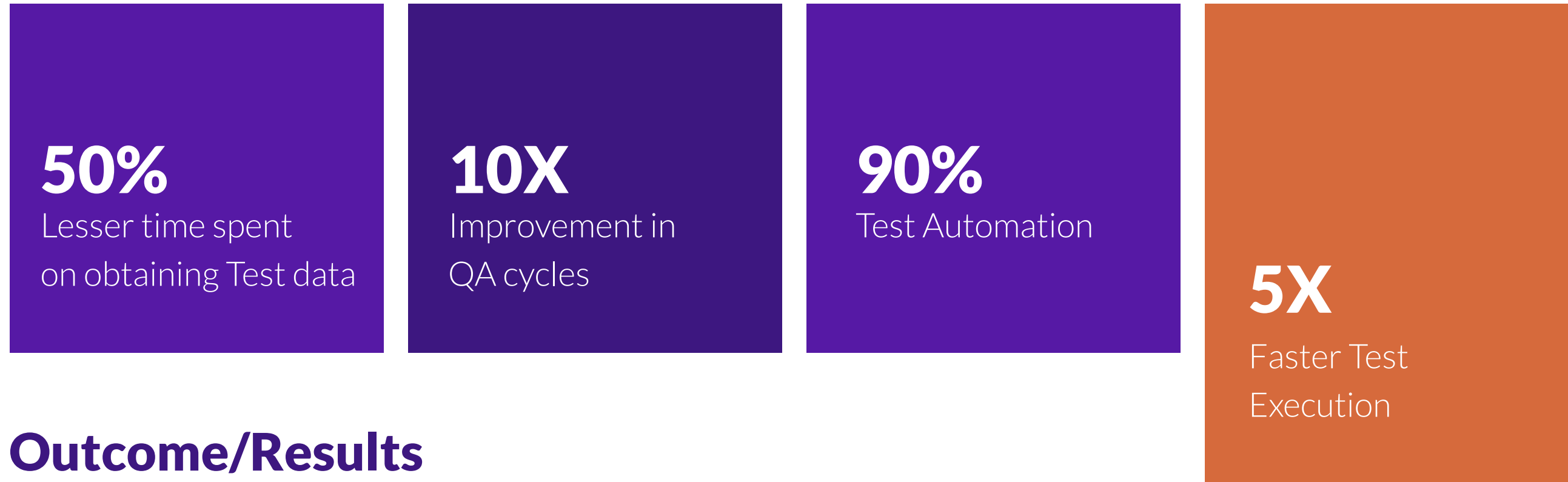


What ImpactQA Did?

Our experts started using the SAP system, which had numerous country-specific customizations for timesheets and expenses and was included in the mobile test automation. All internal employees later used this across the globe.

- We used one of MF UFT main features, the test data service. It allowed the team to run a single usable test case in 40+ countries with their respective data and receive corresponding reports. It resulted in less maintenance effort
- Re-scanned UI elements to automatically find changed or new elements and dynamically update modules and test cases
- User guide and tutorials were created for the automation pack to enable a new person to be able to maintain and run tests in future
- Used reusable test packs (manual & automation) to support future testing needs. It ensured future testing is not people dependent instead process dependent

Unlock New Potentials with Faster Test Reports



Outcome/Results

- Distributed Execution enabled reduction in Testing time within a Sprint
- Reduction in operational cost Introduced on-demand Test environments using SauceLabs
- Reusability of scripts enabled multiple Test Cycles within the Sprint
- Achieved faster feedback, improved time to market, re-usability of automated test cases and accelerated results