# Transforming SAP Fiori Automation with SOAIS and Tricentis Tosca: Stability, Speed, and Cost Efficiency

## INTRODUCTION

The materials science industry Incorporated, a global leader in glass, ceramics, and related materials, has driven innovation for over 160 years. Serving industries such as telecommunications, automotive, electronics, and life sciences, the materials science industry relies on advanced enterprise systems like SAP to streamline its complex business operations. As part of its digital transformation, the materials science industry adopted SAP Fiori to enhance productivity with a modern, user-friendly interface. However, automating Fiori workflows presented significant challenges. the materials science industry partnered with SOAIS to stabilize automation, streamline workflows, and ensure efficiency using Tricentis Tosca. This partnership transformed their testing process, delivering speed, reliability, and cost savings.

## Business Challenges

### Instability in Automated Test Objects

SAP Fiori's dynamic UI elements, such as buttons and fields, posed challenges for automation. Automated scripts frequently failed with minor UI changes, requiring extensive maintenance. This instability consumed resources and delayed testing cycles, forcing IT teams to troubleshoot instead of focusing on strategic priorities.

### Complex Workflows in Fiori Applications

the materials science industry's critical workflows, including order management, procurement, and inventory, involved multi-step procedures with interactions across various screens. Automating these processes was labor-intensive, and even minor changes disrupted the test scripts, leading to rework and extended timelines.

### Lack of Consistent Automation Across Applications

Inconsistencies in automation strategies led to unreliable tests. Some workflows required manual intervention, increasing

testing cycles and validation efforts. the materials science industry needed a robust solution to maintain reliability and speed across all Fiori modules.

### Business Functional Users Overburdened

Business users struggled to find time for testing. They repeatedly explained processes to IT and QA teams, causing inefficiencies. SOAIS' deep expertise in SAP systems and industry-specific workflows eliminated this burden. The team's ability to handle manual testing and automation streamlined efforts, saving significant time for business users.

## Soais Solution

SOAIS addressed these challenges by integrating Tricentis Tosca into the materials science industry's SAP Fiori environment. The solution ensured stable automation, improved efficiency, and delivered consistent results.

### Tricentis Tosca Integration

SOAIS integrated Tricentis Tosca to create

robust, reusable test objects adaptable to UI changes. This reduced failures and maintenance, ensuring smooth test execution even after updates. The integration maintained consistency across workflows and modules.

### Automating Complex Fiori Workflows

SOAIS automated critical workflows like procurement and inventory management by breaking down complex processes into manageable steps. Automation scripts mimicked user interactions, validating workflows end-to-end and detecting issues early.

### Stabilizing Test Objects and Process

**Flows** Test objects were designed for flexibility, adapting to SAP Fiori's dynamic UI. SOAIS ensured scripts could handle changes seamlessly, reducing downtime and eliminating frequent troubleshooting.

### Reducing Business User Involvement

With expertise in SAP and industry-specific workflows, SOAIS conducted automation and manual testing independently. This eliminated the need for repetitive input from business users, saving 30% of their time for strategic tasks.

## Key Benefits

### 50% Reduction in Testing Effort

Automated workflows halved testing effort. Teams redirected resources to innovation instead of manual rework.

### 40% Cost Savings

Efficient automation reduced testing costs, freeing budget for high-value initiatives.

### 30% Time Savings for Business Users

By minimizing user involvement, SOAIS saved

business users significant time, enhancing productivity.

### Higher Stability and Accuracy

Robust test objects improved reliability, achieving 99% accuracy and reducing errors in workflows.

### Accelerated Release Cycles

Streamlined processes reduced testing time by 70%, enabling faster deployments and updates.

## CONCLUSION

SOAIS' integration of Tricentis Tosca transformed the materials science industry's SAP Fiori testing processes. By stabilizing automation, reducing business user involvement, and accelerating release cycles, the materials science industry achieved operational excellence and agility. This partnership highlights how intelligent automation can drive efficiency and innovation, positioning the materials science industry for continued success.