

# Transforming Continuous Testing for the Oil and Gas Industry with UiPath Test Suite

**UiPath makes it easier than ever for organizations in the oil and gas industry to fully maximize their enterprise automation capabilities. Building on its status as a leader in process automation, UiPath consistently looks for ways to help customers transform their operations through automation — including automating the testing process with UiPath Test Suite.**

In the oil and gas industry, IT teams allocate a substantial portion of their budgets to manual testing. According to a Business Research Insider report, IT spending in the oil and gas market amounted to 17,540 million in 2021 and is projected to reach 26,990.83 million by 2031. Despite recognizing the advantages of test automation, testing teams, who often work in isolation, frequently face challenges with automating legacy testing solutions, which results in low return on investment (ROI).

Many oil and gas companies encounter difficulties in implementing test automation due to lack of expertise within their testing teams. According to the Business Research Insider report, 70 percent of automation projects struggle to progress beyond the pilot phase, preventing testing from effectively ensuring reliable and efficient processes. Sole reliance on manual testing does not provide adequate coverage to guarantee high quality. Additionally, oil and gas companies face the challenge of preserving data security and complying with regulatory requirements.

## How can UiPath Test Suite support?

UiPath Test Suite supports organizations in achieving stable and reliable operations. Powered by the end-to-end UiPath Business Automation Platform, UiPath Test Suite helps oil and gas companies ensure that their applications follow regulations and accurately process operational and production data to guarantee efficiency and safety of critical operations. UiPath customers have reduced test cycles by as much as 50%, improved automated test coverage by two to three times, and reduced overhead costs by up to 30%. The UiPath Platform is purpose-built for enterprise automation, featuring reusable component libraries that organizations can share across test, IT, and business process automation teams.

Along with this, an easy-to-learn, low-code approach empowers testers to create their own test automations, which frees up application developers for other mission-critical work. UiPath Test Suite also integrates seamlessly with your existing testing tool landscape and can interact with any type of application. These capabilities allow you to test full-scale, end-to-end processes across legacy applications, desktop applications, and modern browser applications. Equipped with UiPath Test Suite, organizations in the oil and gas industry can optimize operations, enhance safety, and meet the stringent demands of regulatory compliance.

## Key figures driving testing needs in the oil and gas industry

**50%**

of global production in the oil and gas industry comes from aging assets

**77%**

of oil and gas companies currently have or have run an operational excellence programs, including SAP S/4HANA migrations

**11%**

yearly decrease in capital efficiency between 2008-2012

# What makes UiPath different?



## A comprehensive and integrated approach for cloud migration

As the oil and gas sector rapidly transitions from on-premises legacy applications to cloud-based solutions, the UiPath Platform provides a seamless migration path for a wide range of applications, including critical enterprise resource planning (ERP) systems. The oil and gas sector leveraging UiPath has experienced reduced migration timelines, minimized downtime, and streamlined workflows while validating the functionality of ERP systems in the cloud environment. UiPath Test Suite enables oil and gas companies to test their ERP systems during migration with a single, incredibly user-friendly workflow designer. This designer requires no programming skills, simplifying the effective testing of systems like SAP, Oracle, Schlumberger, Halliburton, Aveva, Anaplan, Kalibrate, and more. With UiPath Test Suite, oil and gas companies can comprehensively test a wide range of applications, both complex and real-time, by leveraging native integrations, API consumption, and user interface (UI) automation capabilities.



## Guaranteeing compliance with regulations and policies

Oil and gas organizations must ensure compliance with industry regulations and policies, which are highly regulated due to the potential environmental, safety, and economic impacts of its operations. UiPath Test Suite is the perfect solution for automating application testing to ensure compliance and adhere to industry standards. UiPath Test Suite can aid in guaranteeing reliability by enabling the automation of complex end-to-end testing scenarios across various systems and devices, ensuring thorough coverage and early detection of issues. Test Suite also supports integration with CI/CD pipelines, allowing for automated test runs during the development process, and provides detailed analytics and reporting to track test results and provide easier audits. By leveraging UiPath Test Suite for these critical applications, organizations can improve efficiency, reliability, and security, ensuring that organizations maintain high standards and avoid costly penalties.



## 190+ supported technologies: modern and legacy

UiPath offers exceptional versatility in testing various applications used in the oil and gas industry, such as operational technology and Internet of Things (IoT) applications. By combining native integrations with flexible API consumption and industry-leading UI automation capabilities, UiPath Test Suite can test a virtually limitless set of target applications, including exploration and production software, asset management and maintenance applications, drilling and well management software, operational software, and more. This adaptability allows for seamless automation and testing of both modern and legacy systems, ensuring smooth interactions across specialized applications used to support various stages of operations, from exploration to production, transportation, and management.

Moreover, UiPath excels in end-to-end testing, validating critical process interconnections between ERP systems, supply chain management and safety management software, and other applications. It helps ensure risk mitigation through early issue detection, improved asset management, and increased safety and compliance. Oil and gas companies can confidently navigate complexities, achieve seamless software integration, and maintain high-quality standards and operational efficiency.



## Enabling automation and testing in virtual environments

UiPath automation capabilities empower oil and gas companies to automate processes requiring interaction with virtualized or remote environments, such as Citrix. This includes tasks like data entry and extraction, as well as application testing within these environments, without the need for complex integrations or custom scripts. The UiPath remote runtime extension, certified as Citrix ready, leverages advanced image recognition and machine learning technologies to ensure high accuracy and reliability, even in complex and dynamic Citrix environments. This makes it ideal for the unique challenges faced by the oil and gas sector.

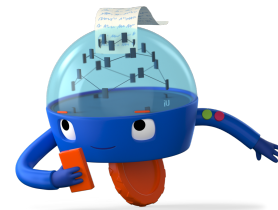


## Maximizing efficiency with minimal resources

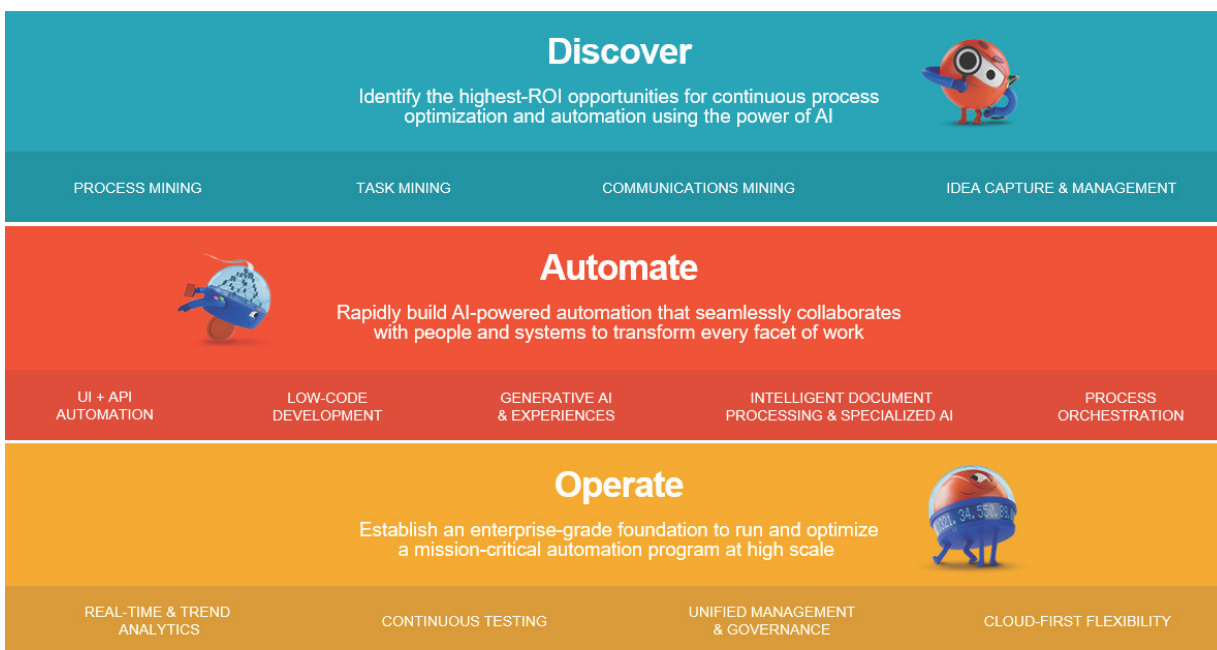
UiPath is optimized for efficiency, providing a user-friendly interface that allows for easy automation and testing of applications. UiPath Academy offers extensive training on the platform, empowering users to leverage its full capabilities with minimal resources. UiPath Community Forum is a thriving hub where users can access support, share ideas, and collaborate on solutions, further maximizing efficiency. Furthermore, UiPath Marketplace provides a vast array of prebuilt automation components that can easily integrate into workflows, streamlining processes and increasing productivity. With its intuitive design, comprehensive training, collaborative community, and robust marketplace, UiPath maximizes efficiency while minimizing resource usage.



# UiPath Test Suite is part of a converged automation platform



## UiPath Business Automation Platform



**Your People**

**Your Applications**

Systems of record | Communications and collaboration | Personal productivity

**Your Processes**

**Schlumberger**

**HALLIBURTON**

Baker Hughes

**IBM**  
maximo

**Kalibrate**

**3-5x**

**Automation Development**

**90%**

**Automation Rates**

**3x**

**Release Speed**

**70%**

**Component Reuse**

**30-40%**

**Cost Reduction**



**For more details, please visit us at:**

<https://www.uipath.com/solutions/department/enterprise-test-suite>

**UiPath** The Foundation of Innovation™