

A photograph of an oil and gas storage facility at night. Several large, cylindrical storage tanks are illuminated by warm yellow lights, contrasting with the cool blue tones of the twilight sky and the dark sea. In the background, a body of water stretches towards distant, silhouetted mountains. A few small boats or offshore platforms are visible on the water, also lit up. The overall scene conveys a sense of industrial activity and global energy infrastructure.

# THE FUTURE OF OIL & GAS WITH SAP S/4HANA®

How the digital platform  
enables greater insights,  
enhanced usability, and  
quicker decision making

**protiviti**®  
Global Business Consulting





SAP S/4HANA® stands as a cutting-edge platform, poised to revolutionize the Oil and Gas industry by facilitating the establishment of a dynamic digital supply chain. Moreover, it empowers enterprises with real-time financial insights, a pivotal achievement that numerous companies ardently pursue on their journey to attain world-class status.

This platform allows companies to:

**Utilize real-time data processing** leveraging the in-memory database to facilitate swift decisions by quickly processing large data sets in an industry where timing can be critical.

**Increase operational and financial efficiency** by streamlining operations across the entire value chain, from upstream (exploration and production) to midstream (transportation and storage) to downstream (refining and marketing).

**Provide advanced analytical tools** that help companies in the oil and gas sector forecast demand, optimize supply chain, and manage risks.

**Leverage scalability** in an industry where mergers and acquisitions are common as market dynamics change. SAP S/4HANA can scale accordingly, meeting the growing needs of the business.

**Enhance asset lifecycle management** ensuring better maintenance scheduling, reduced downtime and improved asset performance.

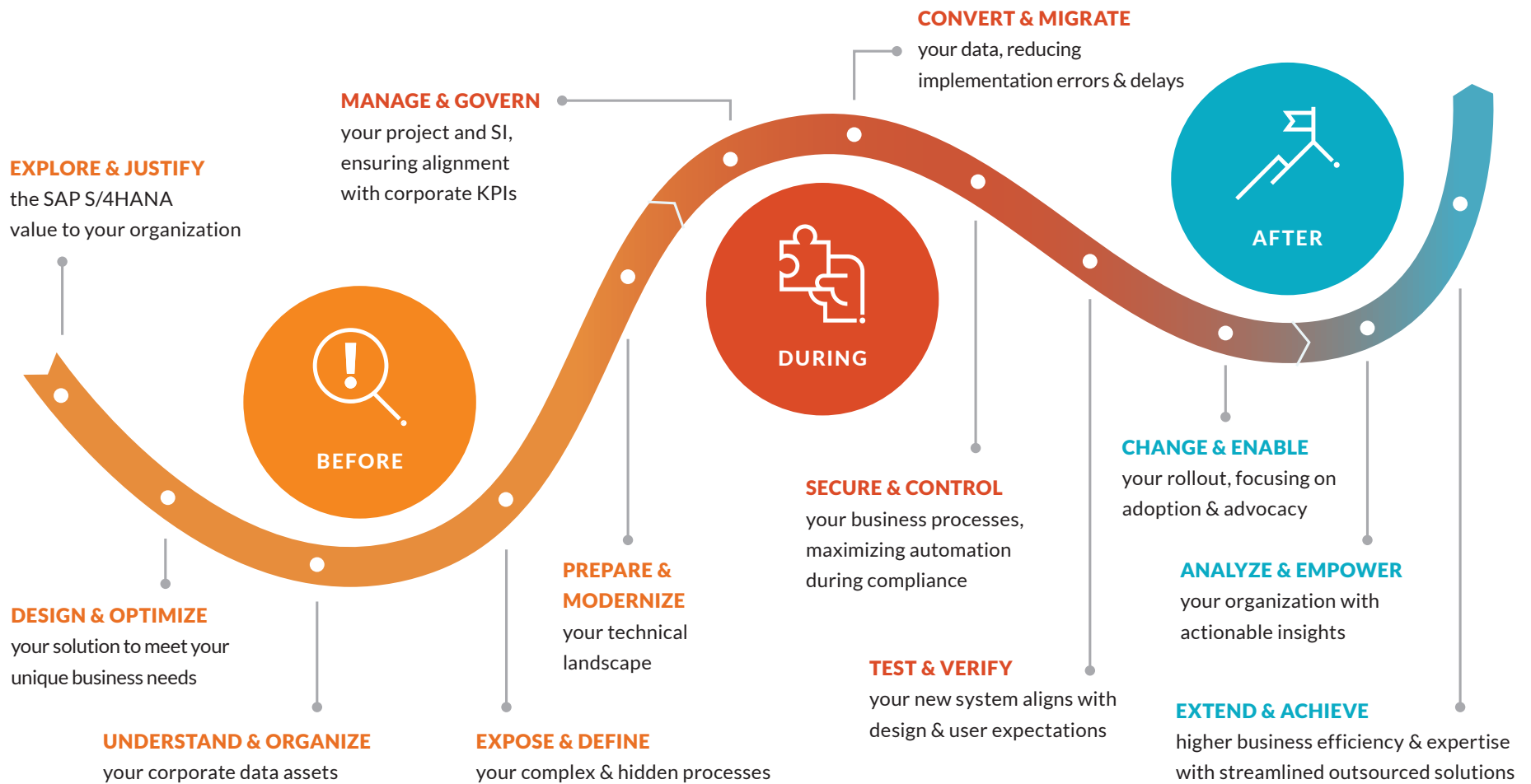
**Adhere to regulatory and financial compliance** reducing the risk of non-compliance penalties or added costs.

**Provide a modern user experience** with the Fiori interface ensuring a consistent, intuitive, and mobile-ready experience across all modules.

These advantages, coupled with the looming 2027 deadline impacting companies currently using SAP ECC, has spurred a significant surge in clients opting to migrate their SAP landscapes and transition to SAP S/4HANA.

## Navigate your SAP S/4HANA journey with confidence

The journey to a successful migration starts with justifying the value, creating a strong business case and developing a sound strategy. This will be a multi-year journey to realize that value, with ups and downs that must be continually monitored to keep the journey on track. Having good people, processes and technology to make sure the focus is not only on the end-point of the migration, but on the long-term digital transformation of the organization. This provides oil and gas providers with the opportunity to strategically enhance profitability, elevate product and service quality, all the while adeptly navigating intricate sustainability and financial regulations. Protiviti works with customers in every phase of this journey, which is outlined below:



## Product and Solution Offerings

### RISE TO SAP S/4HANA®

#### Common issues addressed:

Implementation and data migration strategies that focus on business processes, solution design, data, and the deployment of SAP S/4HANA.

#### Our focus areas include:

- Digital Roadmap
- Solution Design
- Project Management & Governance
- Testing Strategy & Automation
- Organizational Change Enablement
- Cloud Strategy and Optimization
- SAP S/4HANA Data Migration

#### Key SAP Products:

- SAP S/4HANA
- SAP Fiori
- SAP Business Technology Platform

### DATA, ANALYTICS & AI

#### Common issues addressed:

Improve data quality, integration, and migration to SAP S/4HANA, streamlining data governance with proven strategies.

#### Our focus areas include:

- Data Quality & Governance
- Master Data Management
- Data Strategy & Warehousing
- Predictive & Business Analytics
- Machine Learning & IoT

#### Key SAP Products:

- SAP Data Services
- SAP BW/4HANA
- SAP Datasphere
- SAP HANA
- SAP MDG
- SAP Analytics Cloud
- SAP BusinessObjects PCE

### SECURITY & COMPLIANCE

#### Common issues addressed:

Streamline user and role management, identify and remove security risks (such as segregation of duties) and provide assistance to meet regulatory compliance requirements.

#### Our focus areas include:

- Governance, Risk & Compliance
- SAP S/4HANA Risk Management
- Identity & Access Management
- Data Privacy & Cybersecurity
- Internal Audit
- Intelligent Automation

#### Key SAP Products:

- SAP GRC (AC,PC,RM)
- SAP IAG
- SAP IDM
- SAP ETD
- SAP AVM by Pathlock
- SAP Sustainability Control Tower

### FINANCE TRANSFORMATION & PROCESS OPTIMIZATION

#### Common issues addressed:

Provide SAP S/4HANA Implementation support, drive finance and procure-to-pay optimization, develop SAP Analytics Cloud/ BPC/IBP/Group reporting strategy and implementation.

#### Our focus areas include:

- Business Process Optimization
- Financial Close
- Process Mining & Analysis
- Financial Planning & Analysis
- End-to-End Process Implementation and integration

#### Key SAP Products:

- SAC Cloud & Planning
- SAP Central Finance
- SAP BPC
- SAP Signavio
- SAP IBP
- SAP HANA Cloud



## Customer Success Stories



### Enabled a midstream company's secure and controlled transformation

A large US-based midstream company with operations supporting natural gas, crude oil, and disposed water embarked on a multi-faceted business transformation with a greenfield SAP S/4HANA implementation at its core. Protiviti led a series of interlinked projects to ensure a secure and controlled transition alongside the primary system integrator.

- Designed end user security for SAP S/4HANA, Business Warehouse (BW), Ariba, and SuccessFactors
- Implemented SAP Access Control (GRC)
- Designed and assessed automated controls in SAP S/4HANA and Ariba
- Successfully navigated external auditor scrutiny



### Improved an upstream giant's SAP data and analytics

An upstream oil and gas company was having multiple issues with their SAP BusinessObjects and Power BI applications. Protiviti led a support program to address and remediate these issues including developing their SAP HANA security models for corporate analytics, training their IT team on leading practices and providing ongoing support for SAP BusinessObjects and Power BI.

- Trained the IT team on SAP HANA modeling and leading practices on calculation view development
- Designed and deployed new SAP HANA end user security model
- Provided user technical support for multiple SAP BusinessObjects and Power BI environments, alongside annual upgrades
- Assessed and resized the SAP BusinessObjects infrastructure which resulted in significant hardware cost savings
- Mentored on combining SAP and Non-SAP data



### Provided specialized staffing and resource backfill for a leading oilfield services provider

One of the largest multinational oilfield services companies in the world was planning their multi-year journey to SAP S/4HANA and recognized the need for both specialized technical resources as well as backfill resources for employees they planned to dedicate to the implementation project. Protiviti worked with the company's leadership to develop a resource plan and source specialized staffing.

- Confirmed an optimal resource backfill strategy
- Sourced, screened, and provided optimal candidates to business stakeholders needing to fill gaps in their teams
- Provided specialized technical resources around Data Conversion, Material Master Data and Vendor/Customer Master Data

## Partners

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