



Unifying Global Oilfield Operations Through SharePoint Intranet Modernization

Enhancing global productivity and business process automation for a FTSE 250 energy services leader through a collaborative, multi-portal SharePoint ecosystem.

Overview

We transformed the client's digital workplace by developing a suite of interconnected portals-Petrowall, HR, and Construction-using SharePoint Server 2010.

- Engineered a custom Invoice Processing System (IPS) with a bi-directional ERP integration, automating complex approval workflows for vendor management.
- Reduced operational costs and IT dependency by implementing centralized administrative controls and metadata-driven security across a massive document repository.



Client Profile

As a global enterprise in the energy sector, the client operates in high-stakes environments where project data and compliance are critical. Their services span from initial exploration to decommissioning, requiring a unified platform that can support diverse teams and high-concurrency data access across international locations.

Fragmented Workflows and Information Silos

The client's existing infrastructure hindered efficient global delivery:

- **Operational Bottlenecks:** Manual invoice processing and ad-hoc reporting requests were labor-intensive and slow.
- **Lack of Collaborative Space:** No unified environment existed for project-specific collaboration, leading to document versioning issues and lost productivity.
- **Underutilized Technology:** The client required strategic consultancy to maximize their SharePoint ROI and modernize existing applications.

- **System Disconnect:** Essential Line-of-Business (LOB) applications were isolated from the communication layer, preventing seamless data flow.

Solution: A Multi-Portal Ecosystem with LOB Integration

We redesigned the SharePoint environment as a collection of specialized portals, each tailored to specific business functions. The architecture utilizes custom-developed web parts, timer jobs, and event receivers to deliver functionalities far beyond "out-of-the-box" SharePoint.

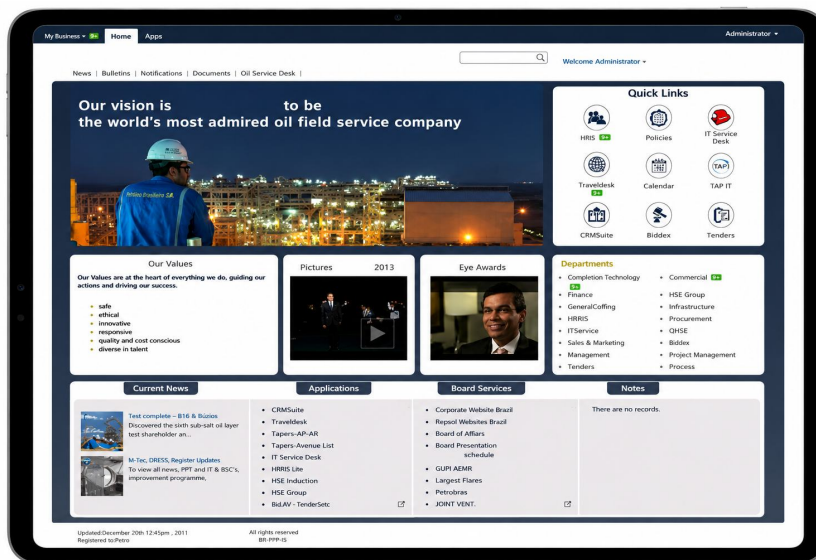
The technical framework consists of several high-impact pillars:

- **Collaborative Portals:**
 - Petrowall: A centralized social hub for company-wide content sharing.
 - Construction Portal: A project-centric environment hosting sites for current projects with dedicated libraries for plans, reports, and task monitoring.
 - Project Management Central: A dedicated hub for tracking milestones and resource allocation.
- **The Invoice Processing System (IPS):** We developed a custom collaborative workflow that interfaces with the client's LOB ERP system. Invoices are ingested from the ERP, passed through a multi-level SharePoint approval cycle, and the final status is synchronized back to the ERP for payment.
- **Governance & Search:** Implemented a large-scale document repository with Enterprise Search capabilities and metadata-driven security to ensure the right people access the right data.

Key Features

- **Custom Workflow Engine:** Features task escalation, delegation, and periodic reminders to ensure no process stalls.
- **LOB Bi-directional Integration:** Seamless data exchange between SharePoint and enterprise ERP systems via Web Services.
- **Rich UI Components:** Utilized Silverlight, jQuery, and JSOM to create a highly responsive and intuitive user interface.

- **Administrative Command Center:** A centralized UI for admins to manage security and content without deep technical expertise.
- **Automated Audit & Tracking:** Introduced an Exception Tracker and Auditing System to maintain high compliance standards across all energy projects.



Enterprise Portal

Impact

- **Streamlined Financial Ops:** The IPS significantly reduced the turnaround time for vendor payments and improved financial transparency.
- **Improved Decision-Speed:** The response time for ad-hoc report requests was drastically reduced through automated data aggregation.
- **Enhanced Collaboration:** Centralized logistics and project information entry reduced operational bottlenecks across global construction sites.
- **Lower Operational Costs:** By maximizing the potential of the existing SharePoint platform, the client reduced their reliance on expensive third-party tools and custom IT support.
- **Zero-Gaps Security:** Metadata-driven security ensured that sensitive project and HR data remained protected across the global enterprise.