

O&G supermajor upgrades
subsurface applications to
capture data at source





Client background

Client: Integrated oil & gas supermajor

Services: Involved in exploration, production, transportation, storage, processing as well as marketing of high-performance fuels, lubricants and petrochemicals

Geographies: The US, Canada, Asia, Europe

Platform-as-a-Service model transforms business process workflows, improves application performance by 35%

integrated products by using data that covered various domains—wells, seismic and surfaces. In addition, there were hardly any collaborate tools for the users.



Challenge

The O&G supermajor was facing variance in business responsiveness of their subsurface petrotech application. This was partly due to non-standardized business process and ways of working of the subsurface teams across regions, and partly due to the applications being slow. These resulted in longer turnaround time, low stakeholder satisfaction and increased cost of ownership.

Their legacy technology was unable to address the business requirements of cross-functional teams that included geologists, survey and drilling professionals, well delivery teams, etc.

The problem got compounded due to integration of more than 70 regional applications with no visibility into product upgrades and releases. And, associated inter-dependencies on third-party applications further led to outage of systems. Multiple and disparate applications were being used for similar business process.

As a result, the O&G supermajor saw their productivity decline as users were spending considerable time only transferring data across various subsurface applications. It was either very difficult or not possible to produce



Solution

After examining the complexities and gaps in the O&G supermajor's existing applications and processes, Wipro proposed Platform-as-a-Service model to help transform their business process workflows. The aim was to reduce redundancies as well as standardize practices and application stack.

The solution included:

- Business benefit realization, stakeholder mapping and business analysis of workflows
- An upgrade to Petrel, a modern and efficient platform that enables standardized and integrated multi-disciplinary workflows and data capture for exploration and production
- Back office infrastructure refresh with new servers and storage solutions (RHEV, NetApps, etc.)
- Data transformation from OpenWorks in the 'Data Migration Factory' to be Studio compatible (Petrel Studio environment improves productivity by creating a collaborative environment for knowledge sharing)

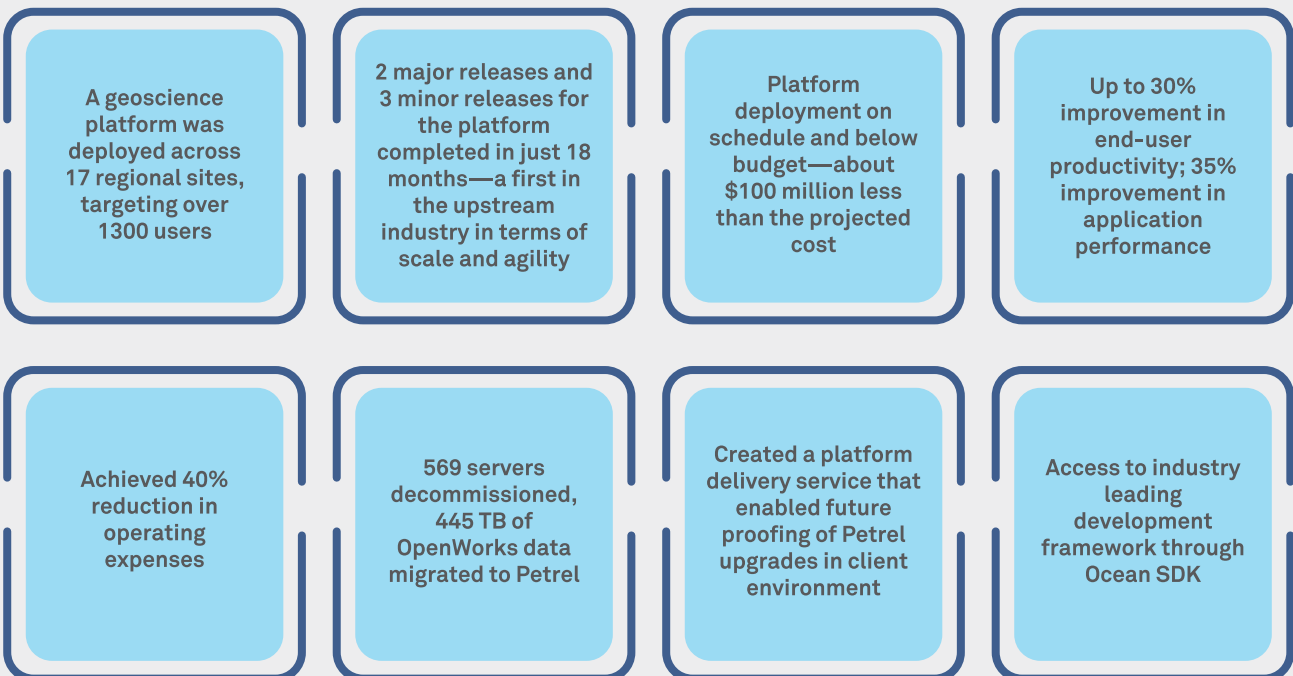
- Secondary data migration
- Handrails, a new tool for standardized business processes
- Innovative plug-ins that allow niche product developers to produce specialist tools or streamline workflows by connecting to any data source
- Seamless/integrated release roadmap across the 70-plus applications, adapters and plugins, involving multiple third-party vendors



Business impact

The Platform-as-a-Service model helped the O&G supermajor reduce costs by 30% over a period of 18 months.

Key benefits delivered:



"Wipro helped the O&G supermajor deliver a geoscience platform to about 1400 users in the subsurface community safely, on time and \$100 million under budget. This resulted in cost savings of around \$100,000 per user per year due to improved functionality in the toolkit and better integration of cross-disciplinary data as new data management standards, processes and procedures came into play."

Siddhartha Kunzru
Practice Director-Energy,
Wipro Limited

● **Wipro Limited**

Doddakannelli, Sarjapur Road,
Bangalore-560 035,
India

Tel: +91 (80) 2844 0011

Fax: +91 (80) 2844 0256

wipro.com

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For more information,
please write to us at
info@wipro.com

