



AI IN OIL & GAS:

Forging A Collaborative Future for Smart Energy



The **Evolving Landscape** of Oil & Gas



Traditional Operations



Depleting Reserves



Volatile Prices



Rising Costs



Environmental
Regulations



Digital Transformation



Smart Operations with AI



Enhanced Efficiency



Improved Safety



Agile Decision-making

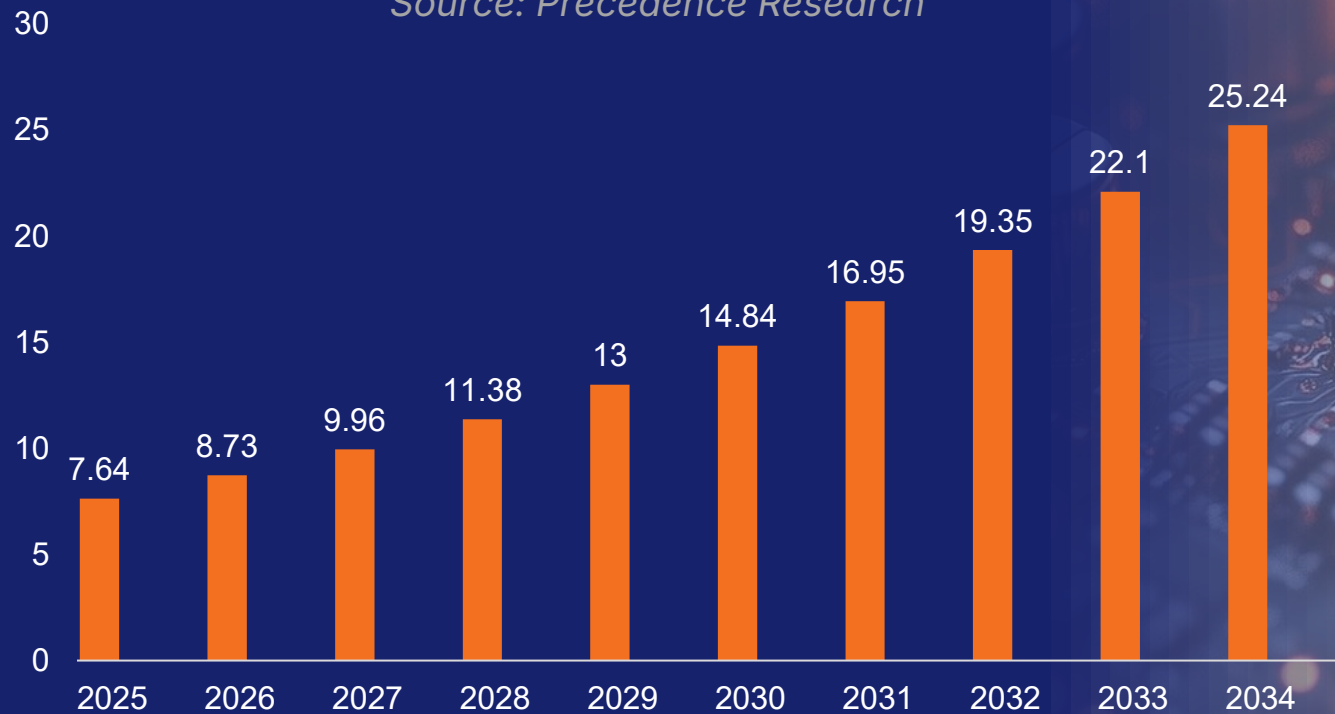


Streamlined
Operations

AI as Catalyst for Transformation

AI in Oil & Gas Market Size 2025 to 2034 (in USD Billion)

Source: Precedence Research



Driving AI Innovation At Scale

AI FACTORIES



Established AI Factories in Vietnam and Japan, leveraging NVIDIA's H100 and H200 GPU technology.

AI FACULTY



Established AI faculty under FPT University, with 2,000 students majoring in AI and Data Engineers per year.

AI VALLEY



FPT AI Valley under development in Quy Nhon, to serve 20,000 AI experts by 2030.

Our Oil & Gas Journey

15+

YEARS IN OPERATION

500+

PROJECTS

100+

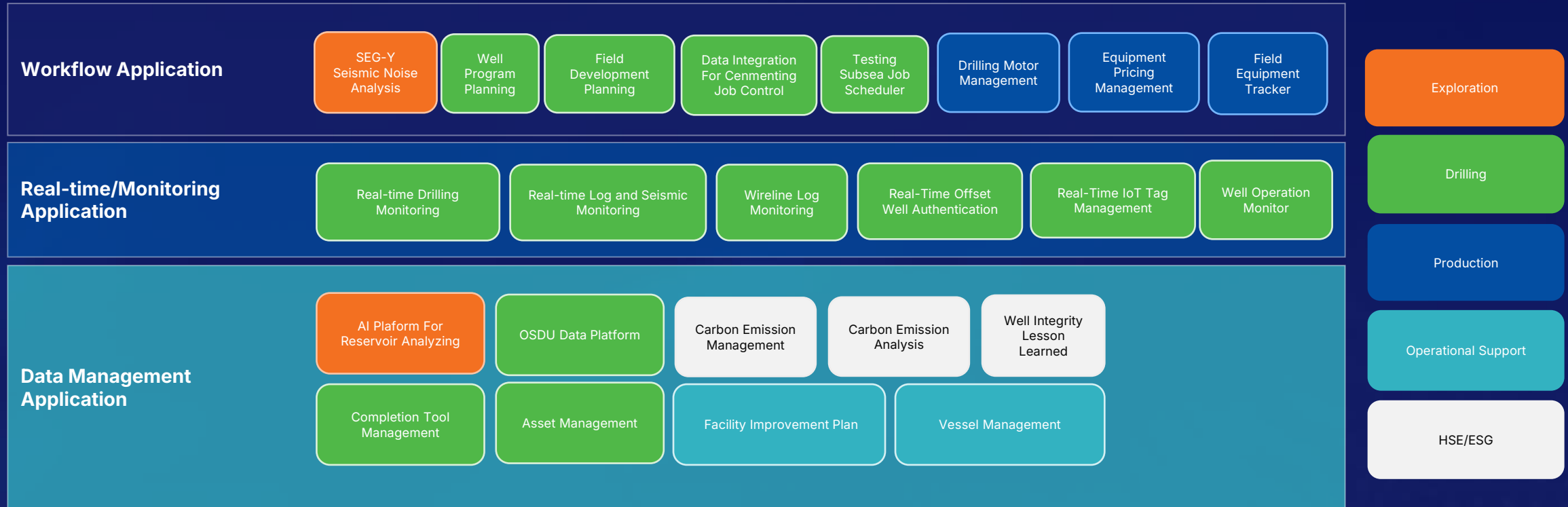
SMES

1,300+

ENGINEERS WITH
DOMAIN KNOWLEDGE



Our Footprint in Exploration & Production



Technology Stack



Our Footprint in Midstream & Downstream

Value Chain and Trading

- Real-time pricing calculation and trading platform
- Advanced analysis and prediction of prices and trading signals using machine learning and data analysis
- Market fundamentals including market commentary, price movements, weather, trades and terminal data

Equipment Management and Analysis

- Centralized dashboard to manage equipment
- Lab equipment reliability
- Equipment surveillance
- Maintenance Scheduling
- Equipment document processing and management

Predictive Maintenance

- Gas compressor and pipeline conditional monitoring.
- Prognostic system with AI/ML
- Static equipment analytic library
- Remote monitoring
- Visualization and reporting system
- Early alert and notification about potential issues

Storage

- Real-time inventory tracking and management
- Monitor the levels, temperature, and pressure within storage tanks
- Environmental monitoring for tank inspection and maintenance

Oil & Gas Distribution

- Real-time inventory tracking and management
- Order and financial management (retail and wholesome sale)
- Logistic tracking integration
- Demand forecasting
- CRM
- Dashboard and reporting

Transportation

- Real-time tracking for goods and cargos with geofencing
- Managing and making plan for tracking goods, cargo
- Terminal management



Turning AI Vision into **Success Stories**



Develop **AI-powered solutions** for asset inspection and maintenance:



Offshore Asset Integrity: Drone data analysis for anomaly/leak detection on PHE OSES platforms.



Workplace Safety: AI-powered PPE compliance monitoring at PDSI drilling sites.



Build the **HPC** and **AI Factory** for **upstream AI initiatives**:



Fiber Optics



Seismic Processing



AI platform

Deeper Collaboration Accelerates Innovation



Natural Synergy

- FPT's problem understanding + NVIDIA's enabling technology = powerful real-world solutions
- From vendor-client to co-creation and shared ecosystem.

Joint Development

Establish dedicated High-Performance Computing (HPC) infrastructure for O&G industry support complex AI-driven applications.

Workforce Skilling

Develop AI talent specifically for the oil & gas sector.



“AI isn't just a technology—it's the foundation of the Oil & Gas industry's future: **intelligent, interconnected,** and driven by **strategic collaboration.**”

Unlock the Full Potential of **AI in Energy**

FPT + NVIDIA = Transformative shift



Strategic Preparation



Data-Driven Culture



Pragmatic Pilot Projects





THANK YOU !

