



AIRDIT Intelligent Project & Asset Management (AIPA)

Asset and Project Management with SAP BTP

Designed for Various Industries

Oil and Gas, Utility and Energy, Telecommunications,
Water Utilities.



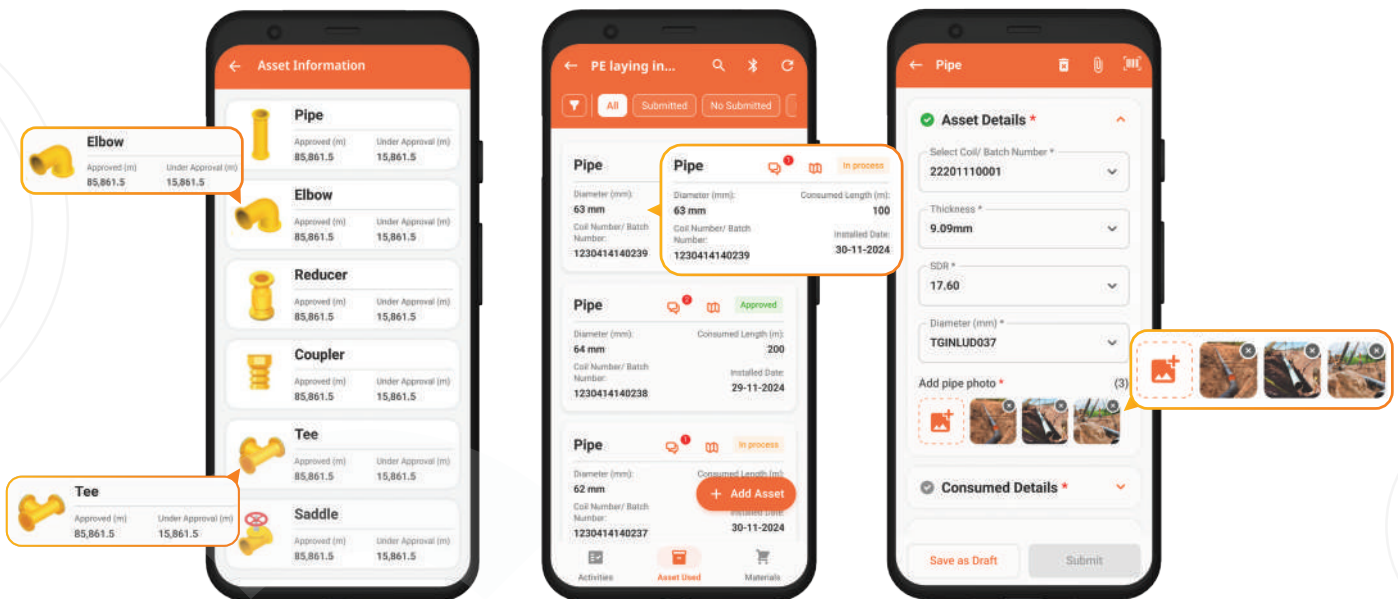
Introduction

AIRDIT is a distinguished **SAP partner** offering an **end-to-end** business case for one of the **Oil & Gas** leaders, with a **groundbreaking** solution built on **SAP BTP**. This solution covers all aspects of Project Asset Management, Project Tracking, and User Management, delivering efficient tools for both Mobile Field and Corporate Web users.

Key Features

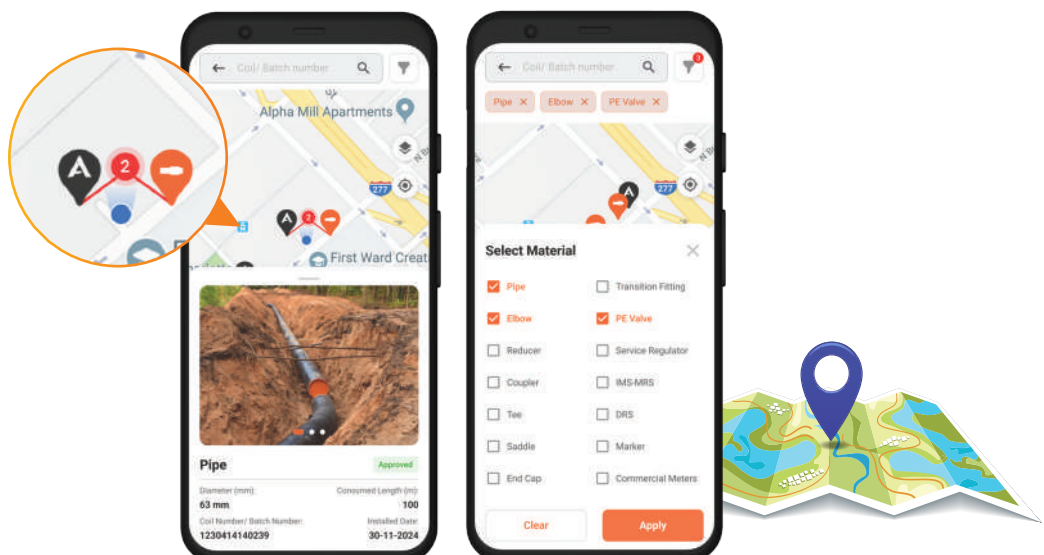
● Comprehensive Asset Management

Effectively manage asset lifecycles, from initial creation to **commissioning** and **decommissioning**. The AIPA application allows **field users** to capture real-time data directly via the mobile app, including photos, signatures, and video documentation. It also supports the addition and removal of assets from inventory, as well as the transfer of assets between inventories based on **geographical areas**.



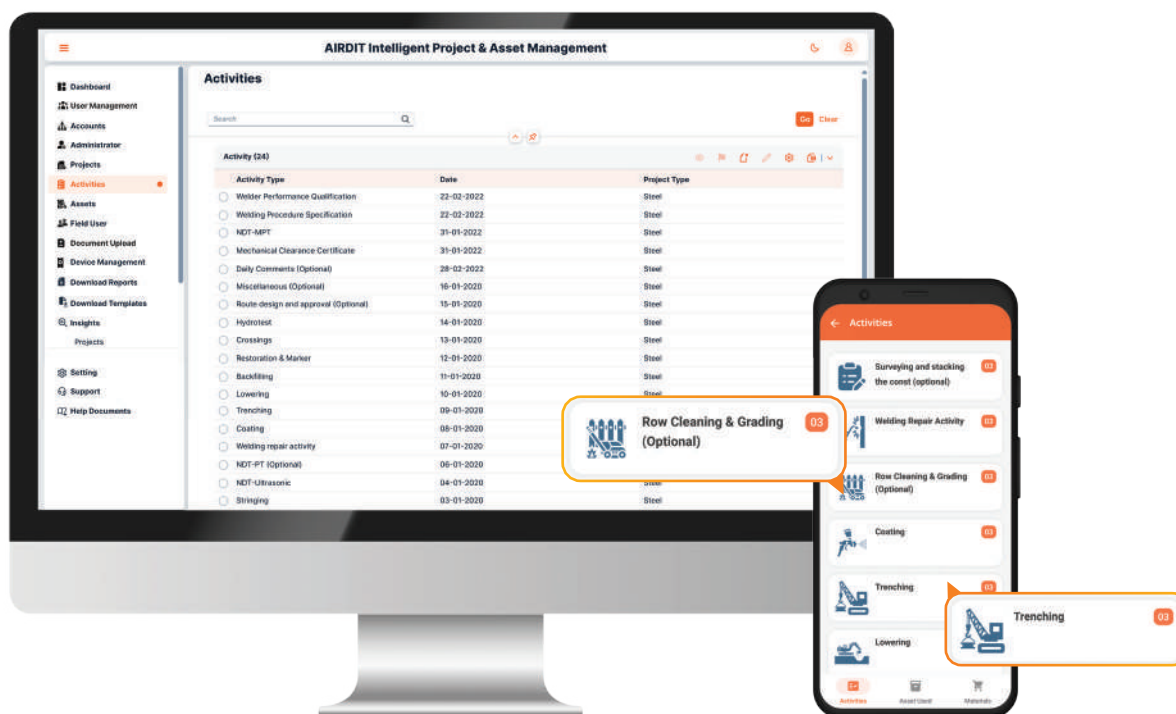
● Real-Time Project Tracking

Track and **update** linear asset projects (e.g., MDPE and steel pipelines) using **Google Maps**. Monitor project progress in **real-time** with location pins marking **milestones** for gas delivery to **households** and **commercial** clients. A Google Maps **drawing tool** is also available for **accurate** estimation of **asset consumption** in advance. Various views, including **street**, **satellite**, and **layers**, are supported. For field users, a **real-time location tracker** with **GPS functionality** is provided.



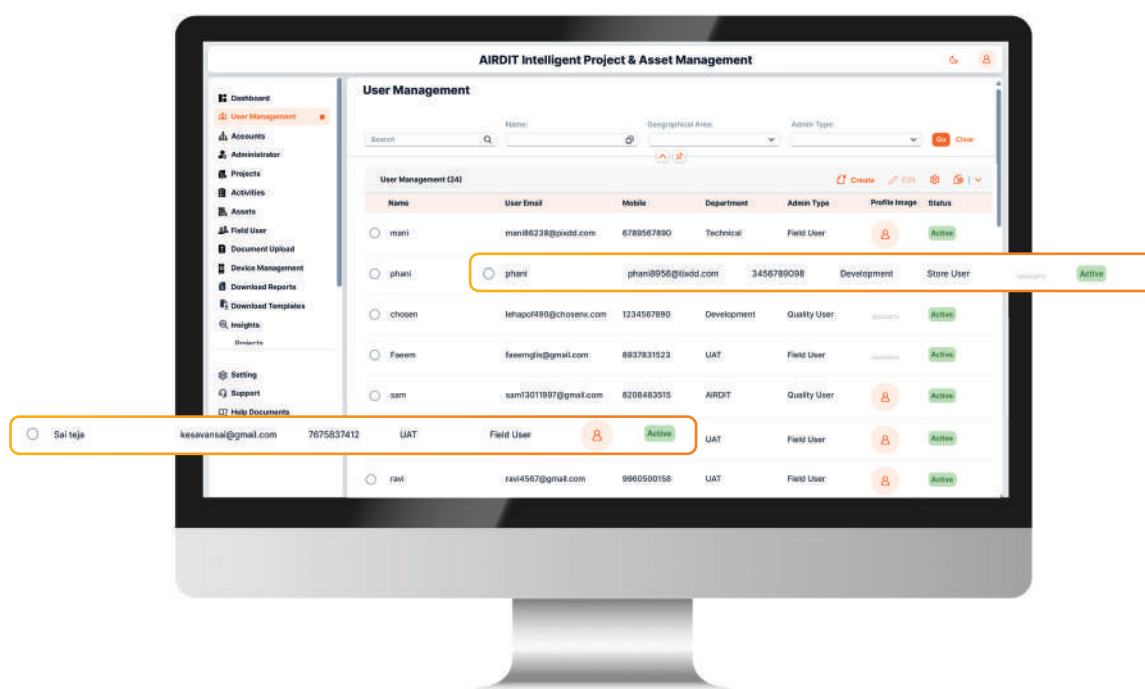
● Activity Management

Effectively manage and document **critical activities** across industries with a robust framework for **planning, execution, and quality checks**. The solution tracks activities like **excavation, installation, trenching, stringing, welding, inspection, and maintenance** in real-time, ensuring **compliance and transparency**. With built-in **approval workflows** and detailed tracking, it supports seamless execution and monitoring of projects, regardless of complexity or scale



● Flexible User Management

The **AIPA solution** provides **role-based access control** with specific functionalities for different users, such as **Mobile Field Users, Corporate Web Users**. Role-specific actions include tasks like the **approval matrix**, creation of new users, creation of department-wise projects, quality checks, report generation, and more.



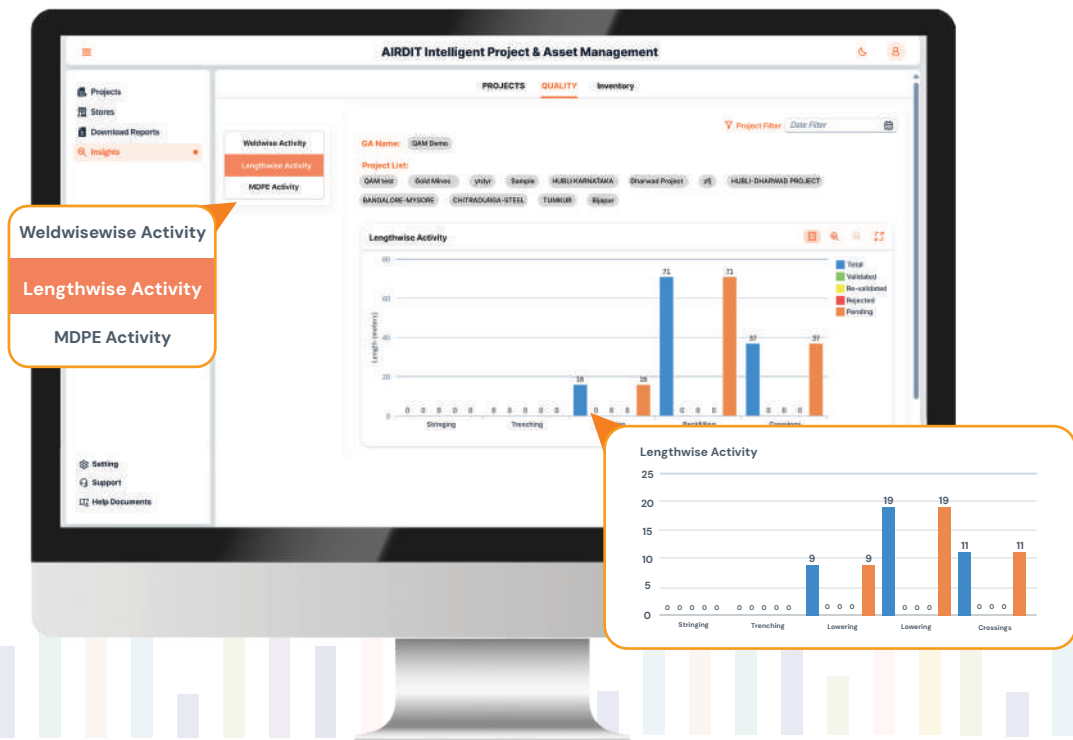
● Quality Control (QC) Approval Workflow

QC statuses for **assets** such as **Approved**, **Revalidated**, and **Rejected** are handled efficiently. Field Users can submit **QC data**, and Quality Users or Power Users review and approve or reject accordingly.



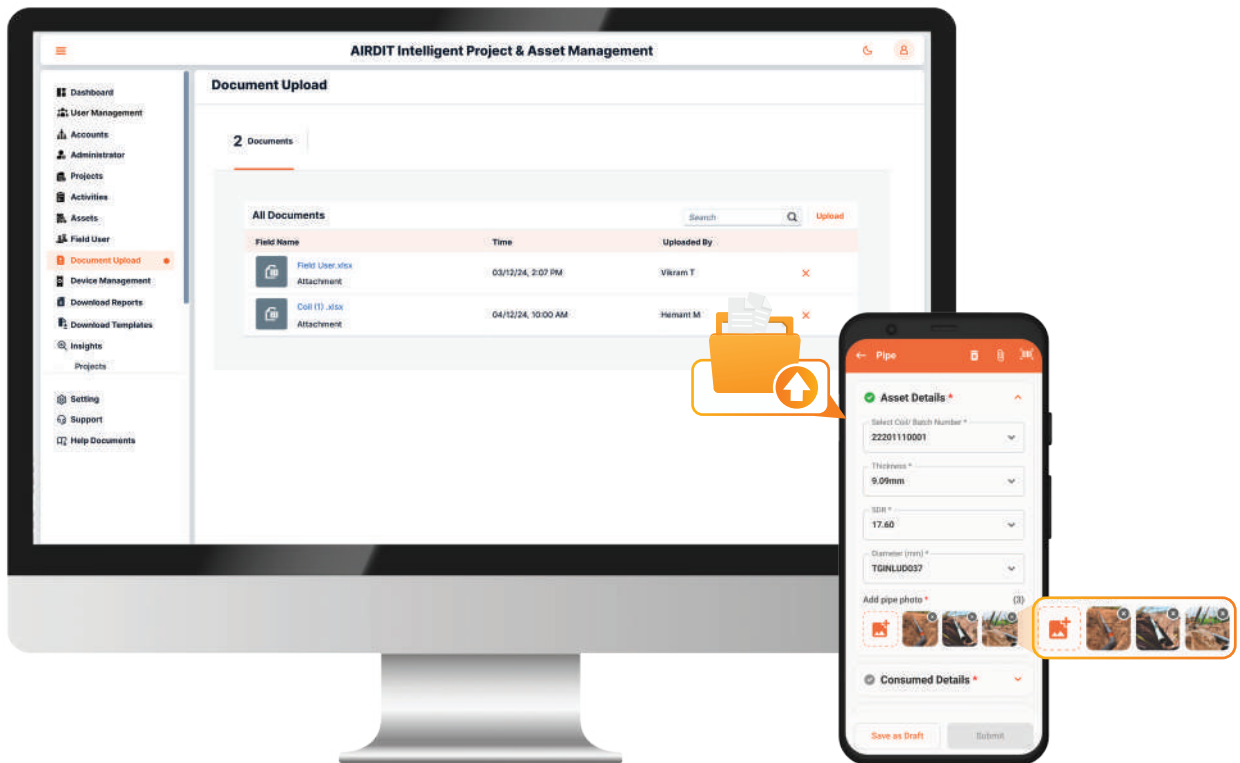
● Detailed Reports and Insights

Real-time project and inventory reports which can be exported in **PDF & Excel** format. Visualize key metrics like **QC approvals**, **inventory levels**, **User Insights** and **project progress** directly on dashboards for instant insights.



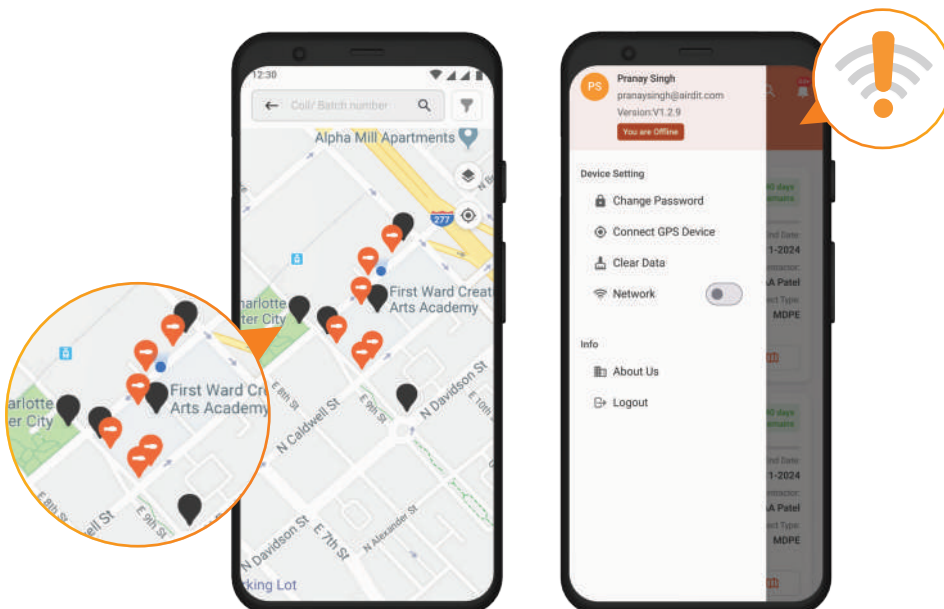
● Streamlined Document Management

Upload, store, and retrieve **project-related documents** (reports, photos, Videos, etc.) with secure access based on **user permissions**. Attachments include **SOPs** (Standard Operating Procedures) and **circulars**.



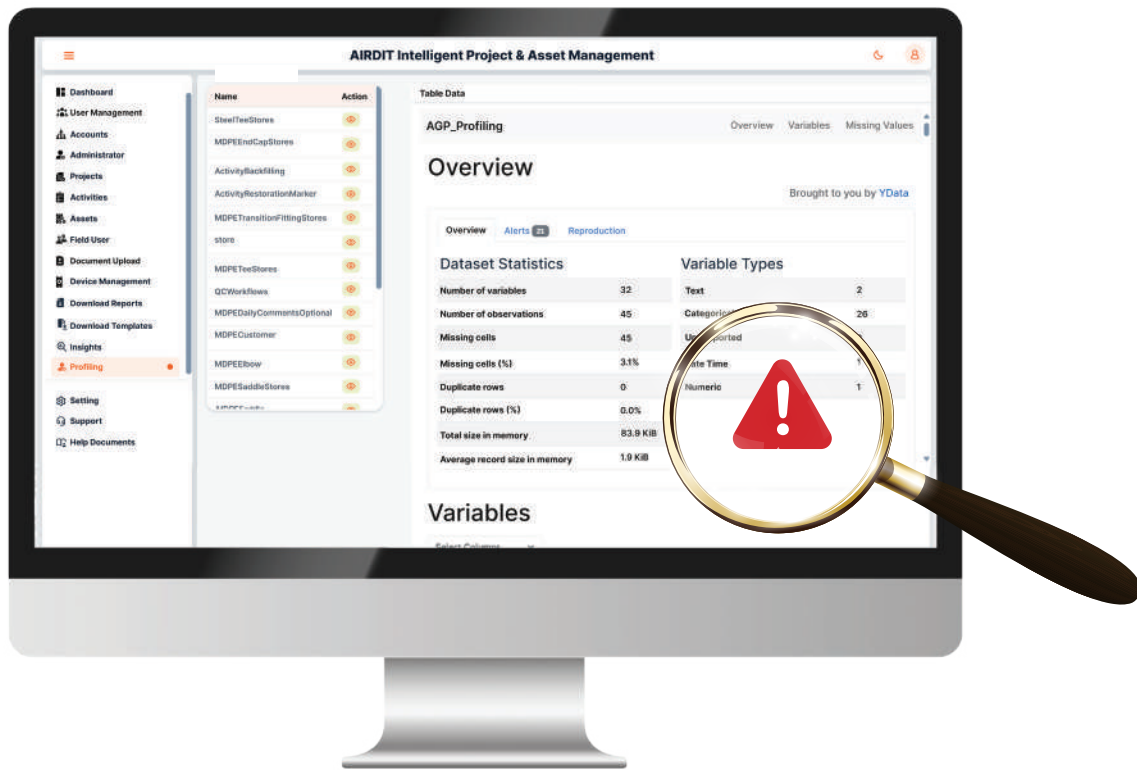
● Mobile Apps for Field Users

The mobile app offers a **native look and feel**, delivering a **user-friendly** interface and an enhanced **user experience**. Field users can update project data in **real-time**, with **GPS tracking** ensuring all updates are location-based. **Photos and videos** can be uploaded for documentation, and users receive **real-time notifications** for updates and alerts. The app also supports **offline capabilities** in areas with limited network coverage. In regions with low accuracy, the app employs **offset geo-tagging** to maintain location precision.



● Data Profiling and Anomaly Detection using AI

AIPA now includes a robust **AI-powered Data Profiling** feature that scans **database data** for potential issues. Leveraging artificial intelligence, this feature identifies inconsistencies and detects **anomalies**, ensuring that the data used across projects, assets, and inventory remains **accurate** and **reliable**. With automated AI-driven checks, AIPA helps you stay ahead of **data discrepancies**, providing confidence in the integrity of your project information.



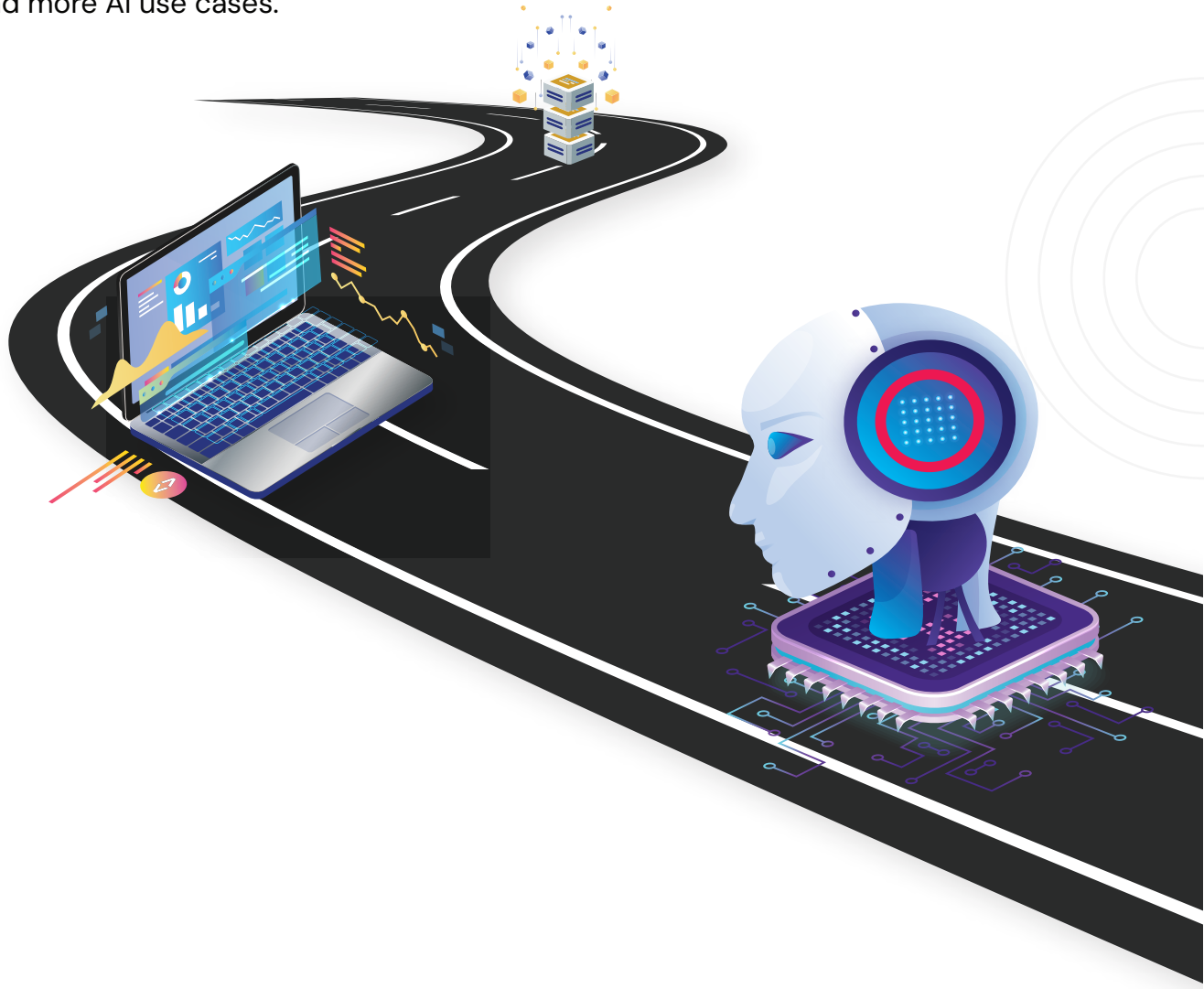
● AI-Driven Chatbot

AI-powered Chatbot designed to assist with tasks specific to **asset management**, **project tracking**, and **user queries**. The chatbot offers **dynamic input** and **outputs**, allowing users to get quick answers, and navigate complex workflows effortlessly. Whether you're managing assets, handling **inventory updates**, or answering **open-ended queries**, AIPA's **AI Chatbot** offers a seamless and interactive experience.



Roadmap for Future Innovation

The AIPA solution's roadmap includes **3D Visualization**, **Automate Repetitive Tasks & Workflows**, and **Computer Vision** features, powered by **SAP BTP AI Core**, enabling enhanced decision-making, automation, and more AI use cases.



AIPA Use Case for Oil & Gas Industry



● Customer Overview:

AG&P Pratham: A leading international player in India's City Gas Distribution (CGD) sector, AG&P supplies CNG, PNG, and LNG to homes, industries, and vehicles, driving innovation in the Oil & Gas industry.

● Challenges Faced ?

Managing linear assets and ensuring seamless operations across upstream and downstream processes presented several challenges, including:

- » **Fragmented Systems:** Disconnected tools causing delays in data capture.
- » **Manual Workflows:** Inefficiencies and increased compliance risks. Disconnected tools causing delays in data capture.
- » **Rising Operational Costs:** Escalating expenses in maintaining smooth operations.
- » **High Cloud Costs:** Significant expenses on Azure cloud services.
- » **Lack of Integration:** Absence of a unified system for project and asset management, limiting real-time tracking and operational efficiency.

● Our Solution: 💡

The AIRDIT Intelligent Project & Asset Management (AIPA) solution, powered by SAP BTP, addressed these challenges through:

- » **Real-time Project Tracking:** Comprehensive asset management accessible via mobile and web apps.
- » **Field User Updates:** Geotagged updates with photos and digital signatures for accurate field reporting.
- » **Advanced Dashboards:** Corporate teams gained insights into project lifecycles, progress tracking, and compliance monitoring.
- » **Automated Workflows:** Streamlined quality control processes, enhanced decision-making, and minimized project delays.
- » **Legacy System Integration:** Seamless integration with existing systems for unified project and asset management.
- » **Cost Optimization:** Implementation on SAP BTP significantly reduced cloud costs while providing a scalable platform for future needs.

● Results Achieved: 🎯

The AIPA solution delivered transformative outcomes for AG&P, including:

- » **End-to-End Visibility:** Improved operational control throughout the project lifecycle.
- » **Compliance Assurance:** Full adherence to regulatory standards.
- » **Cost Savings:** Reduced cloud expenses by 30% compared to Azure.
- » **Enhanced Efficiency:** Real-time asset management and faster project execution.
- » **Scalable Framework:** A robust platform built on SAP BTP to support future growth.
- » **Data-Driven Decisions:** Real-time insights and advanced analytics for proactive management.

Designed for Various Industries



Oil and Gas



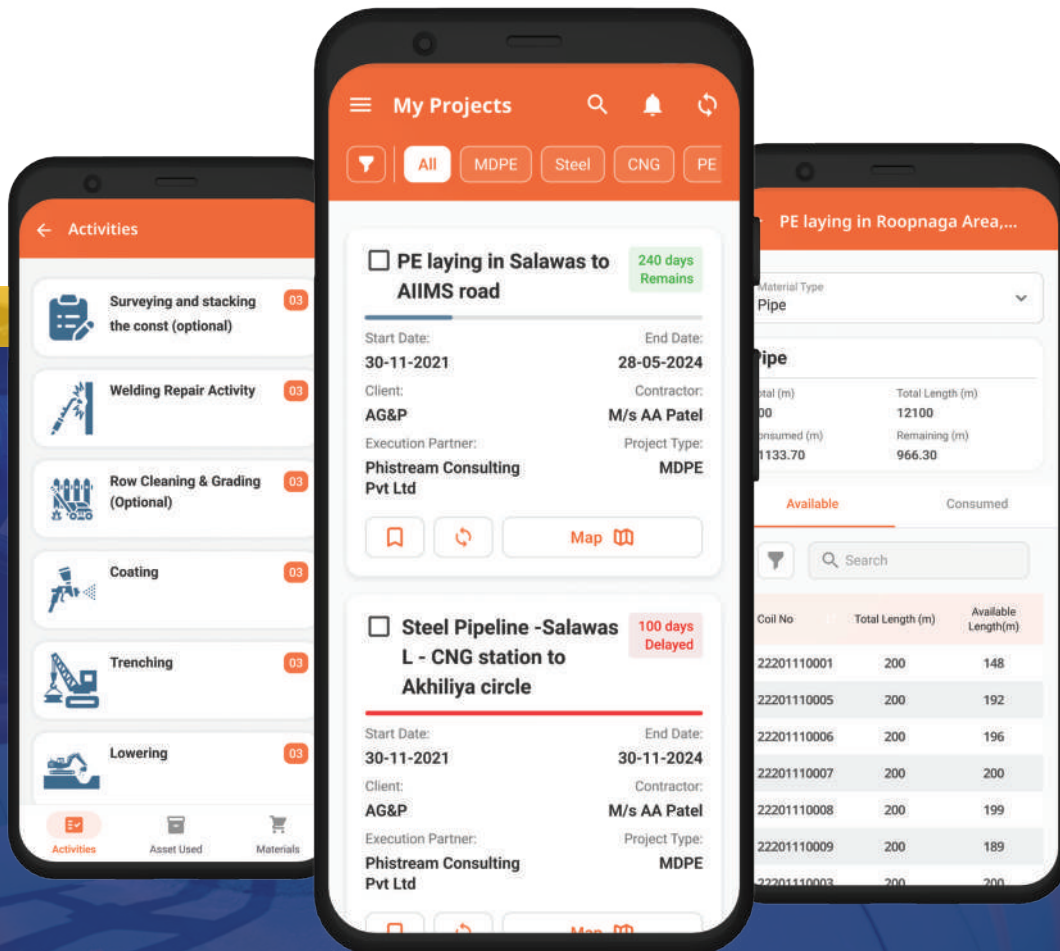
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Utility and Energy



Water Utilities





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