N&A NAI TECHNOLOGIES
EMPOWERING YOUR BUSINESS WITH SMART SOLUTIONS

Company
Profile

SERVING GCC & THE EMEA REGION
BAHRAIN | KUWAIT | OMAN | QATAR
SAUDI ARABIA | UNITED ARAB EMIRATES
EUROPE | MIDDLE EAST | AFRICA

www.naicompany.com

Everything you should know
About our business

We are pleased to introduce NAI Technologies — your trusted partner in delivering high-quality solutions and services. Since 1998, we have proudly supported major contractors such as Saudi Aramco, Saudi Binladin Group (PMC), Naser Al-Hajri Corp., MMG Group, and Zamil Group, by providing reliable materials tailored to their project needs.

From the very beginning, NAI Company has focused on sourcing, marketing, and distributing premium materials from around the world. With a robust inventory and a highly responsive supply chain, we are committed to meeting our clients' demands promptly and efficiently.

Our decades of industry experience have equipped us with deep expertise, extensive market insight, and a strong network of global partners. We take pride in our ability to understand client requirements and deliver solutions that exceed expectations.

We invite you to learn more about NAI Company and how we can contribute to the success of your next project.

His Royal Highness Prince Mohammed bin Salman bin Abdulaziz Al Saud,
Crown Prince and Prime Minister of the Kingdom of Saudi Arabia,
with **Donald J. Trump,** President of the United States.

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Proper Inspection

At NAI Technologies, we specialize in conducting in-depth inspections and evaluations of fluid transportation pipelines to design tailored solutions that align with each system's unique specifications.

Our dedicated experts work proactively to detect vulnerabilities and prevent critical failures that could disrupt the transmission of liquids, gases, LNG, LPG, and multi-phase products.

INTRODUCTION

NAI Technologies stands at the forefront of integrity management solutions, offering unmatched expertise in the maintenance and rehabilitation of oil and gas transmission, gathering, and distribution pipelines. Our capabilities also extend to above-ground hydrocarbon liquid storage tanks, ensuring safe, reliable, and compliant operations across the entire infrastructure lifecycle.

PURPOSE

The primary goal of Pipeline Integrity Management Services is to assess and evaluate the current condition of pipeline systems to proactively prevent major breakdowns or failures. These services are essential for maintaining the safe and efficient transport of liquids, gases, LNG, LPG, and multi-phase products, ensuring system reliability and minimizing operational risks.

MISSION

At NAI Technologies, our mission is to empower associates to thrive both professionally and personally through meaningful development opportunities, innovative technology, and comprehensive training. We place the highest priority on the well-being of our associates and customers, driving forward with a commitment to innovation, balanced growth, diversity, and leadership within the industry.

Rooted in a culture that values quality-driven progress and individual success, we ensure our customers consistently receive exceptional value and best-in-class services.

OUR CORE VALUES

Excellence	Collaboration	Agility	Continous Learning
Diversity	Sustainability		

DIVISION I: PIPELINE INTEGRITY MANAGEMENT SYSTEMS
Pipeline Integrity Management Systems - **Acoustic Systems Incorporated**

Acoustic Systems Incorporated (ASI) is a leader in pipeline leak detection solutions, offering state-of-the-art technologies to enhance pipeline safety and operational efficiency. Based in Houston, Texas, ASI specializes in advanced acoustic monitoring systems designed to detect, locate, and mitigate leaks in real time. Their solutions are widely used in the oil and gas, petrochemical, and water industries.

1. Negative Pressure Wave (NPW) Leak Detection System

Rapid Leak Detection

Detects leaks within one minute of occurrence by analyzing rarefaction waves generated by pipeline breaches, minimizing environmental and operational impact.

Accurate Leak Localization

Pinpoints the location of leaks. within ±30 meters. enabling fast response and effective pipeline maintenance.

Leak Computer HMI

The Leak Computer, a dedicated PC, serves as the central data handling unit, communicating with the MasterComm VIII Node Processor and Supporting SCADA software for operator input / output, reports, and messages. It ensures rapid leak detection, high sensitivity, precise location accuracy, a low false alarm rate, and minimal maintenance requirements.

Customer SCADA Interface

The ALDS integrates existing customer SCADA systems, allowing adjustment of all operational and tuning parameters locally or remotely. This interface is enabled via the MasterComm™ VIII Node Processor or the ASI Leak Computer.

WaveAlert® & Mastercomm Node Processor

Compliance with International Standards

ASI's Acoustic Leak Detection System (LOS) fits within the API 1130 leak detection classification but surpasses it with patented advanced features. Unlike traditional methods, it detects unique acoustic signals from pipeline leaks rather than relying on flow or high-accuracy pressure measurements, requiring minimal maintenance. ASI is 1S0-9001 certified, ensuring compliance in design and manufacturing processes.

3. WaveAlert® Batch Tracker

The WaveAlert® Batch Tracker, an add-on function to the WaveAlert® ALDS, monitors multi-product pipelines, calculates product locations, and tracks interface volumes between batches in Realtime. It requires precise flow data and product density information and supports scalable configurations, accommodating various equipment types such as valves, pumps, tanks, and flow meters. The Batch Tracker is fully configurable, making it suitable for both simple and complex pipeline topologies.
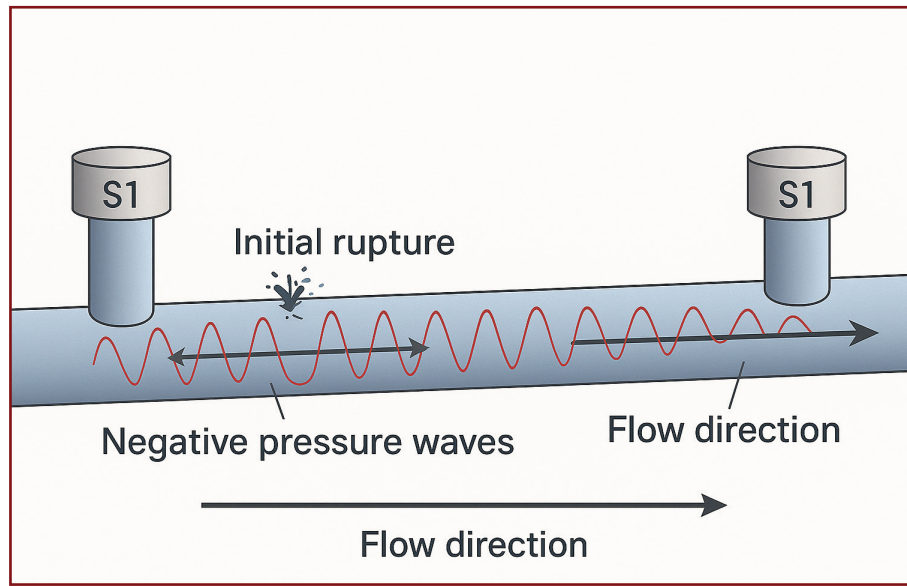
Pipeline Integrity Management Systems - AP Sensing

AP Sensing is a global leader in distributed fiber optic sensing technologies, providing advanced monitoring solutions for various industries. including oil and gas, power, and infrastructure. Their expertise encompasses Distributed Acoustic Sensing (DAS), Distributed Vibration Sensing (DVS), and Distributed Temperature Sensing (DTS), enabling real -time monitoring and enhanced safety for critical assets.

1. Pipeline Monitoring System

Distributed Acoustic Sensing (DAS)

AP Sensing's DAS technology offers real-time acoustic monitoring along pipelines, detecting events such as leaks, third-party interference, and other anomalies with high sensitivity and accuracy.

Distributed Temperature Sensing (DTS)

Their DTS systems provide continuous temperature profiles along pipelines, identifying thermal anomalies indicative of leaks or flow assurance issues, ensuring operational integrity.
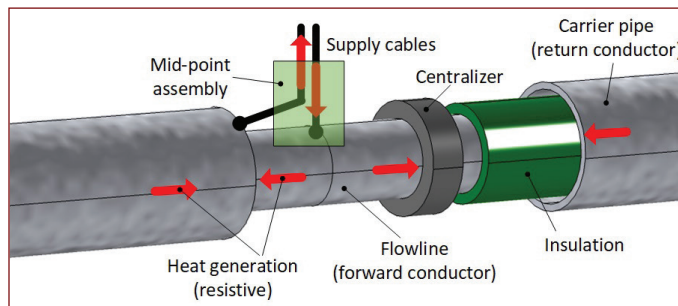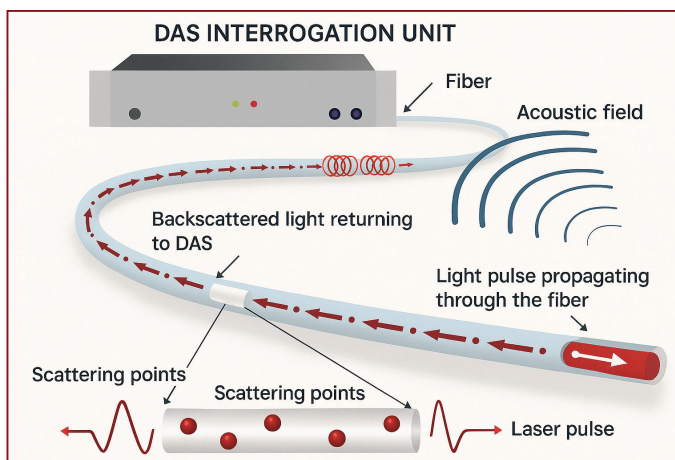
2. Third-Party Interference (TPI) Detection and Flow Assurance

Third-Party Interference (TPI) Detection

AP Sensing's DAS technology offers real-time acoustic monitoring along pipelines, detecting events such as leaks, third-party interference, and other anomalies with high sensitivity and accuracy.

Flow Assurance and Heat Tracing

Their fiber optic sensing technologies assist in maintaining optimal flow conditions within pipelines by monitoring temperature variations, detecting blockages, and ensuring effective heat tracing, crucial for the transportation of temperature-sensitive materials.

DAS INTERROGATION UNIT

Fiber
Acoustic field
Backscattered light returning to DAS
Light pulse propagating through the fiber
Scattering points
Scattering points
Laser pulse

Supply cables
Carrier pipe (return conductor)
Mid-point assembly
Centralizer
Heat generation (resistive)
Flowline (forward conductor)
Insulation

Pipeline Integrity Management Systems - Wood PLC

Wood PLC is a global leader in consulting and engineering, delivering innovative solutions across the energy and built environment sectors. With a rich heritage and a commitment to sustainable development. Wood offers a comprehensive suite of services, including advanced digital solutions for pipeline management and flow assurance.

1. Virtuoso® Real-Time Transient Model (RTTM) Leak Detection System

Real-Time Monitoring

Real-Time Transient Model (RTTM) Leak Detection System (LDS) Functionality (Virtuoso®/LDS module) uses calculated flowrates and pressures to continuously monitor for the presence of pipeline leaks, estimate the leak size and leak location, and estimate the leak start time. The proposed RTTM LDS continuously compares the calculated inlet pressures and outlet flowrates to the corresponding measured values to generate error signals. These error signals are used to determine the probability of a leak in the pipeline. Leak probability is the percent likelihood that there is a leak in a pipeline. The RTTM LDS is able to distinguish between true leaks and pressure and flowrate fluctuations due to operational changes/transients, like packing and unpacking, when the outlet flowrate may be significantly different from the inlet flowrate.

Adaptive to Transient Conditions

The system adapts to changing operational conditions, maintaining high sensitivity and accuracy in leak detection during both steady-state and transient flow scenarios. The Virtuoso software suite provided adaptive solutions for transient conditions, including both online and offline packages for comprehensive oil and gas operations management. Online tools include Virtuoso/Monitor for real-time operations monitoring, Virtuoso/Advise for advisory functions, Virtuoso/ LOS for leak detection, Virtuoso/Control for operations control, Virtuoso/Optimize for optimization and planning, Virtuoso/ VMS for virtual metering, and Virtuoso/Analytics for data processing. Offline features include liquids inventory management, line pack monitoring, chemical tracking, hydrate warnings, leak detection, restriction detection (ROM), pig tracking, equipment surveillance, and performance monitoring. Virtuoso/Monitor integrates real-time monitoring of production operations from subsea wells to topside equipment, making it an essential tool for managing production and processing facilities.

2. Flow Assurance Management System

Comprehensive Flow Analysis

Wood's flow assurance solutions address challenges such as hydrates, wax formation, and slugging, ensuring uninterrupted and efficient flow in pipelines.

Integrated Production Modeling

The system integrates production data to optimize pipeline performance, enhance resource recovery.

Pipeline Integrity Management Systems - COSASCO

COSASCO is a leading provider of corrosion and erosion monitoring solutions, offering a comprehensive range of systems designed to ensure the integrity and longevity of industrial assets.

1. Corrosion Monitoring Systems

Integrated Corrosion Monitoring System (ICMS™)

The ICMS™ is a comprehensive online corrosion monitoring system suitable for medium to large-scale operations. It integrates various corrosion, erosion, and cathodic protection products, providing real-time data to enhance asset management and operational efficiency.

Non-Intrusive Monitoring Solutions

COSASCO provides non-intrusive monitoring technologies, such as the Echo Point system, certified for hazardous environments. These solutions enable accurate monitoring of corrosion and erosion without direct contact with the process stream, ensuring safety and reliability.
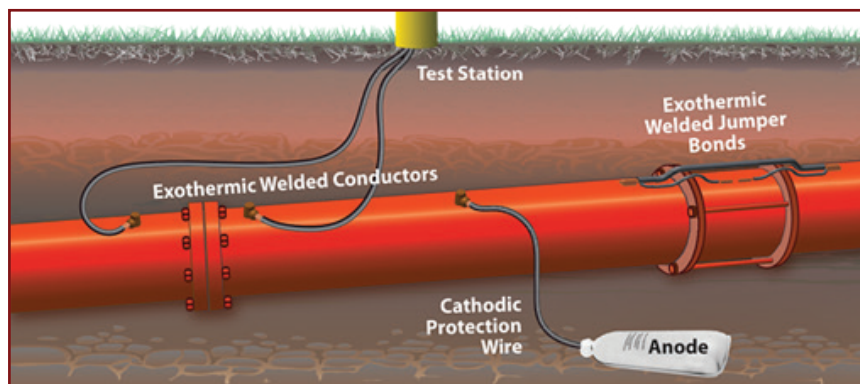
Pipeline Integrity Management Systems - Qingdao Huiangu Technology

Qingdao Huiangu Technology Development Co., Ltd. is the headquarters of the Hui'an Group, a high-tech enterprise specializing in the research and development, production, sales, and technical services of fiber optic communication sensing technology. The company holds independent intellectual property rights for its core technologies and has established strategic partnerships with key universities to advance optical sensing technology.

1. Fiber Optic Sensing

Distributed Temperature Sensing System

Real-time temperature monitoring along the entire optical fiber using Raman backscatter. Provides full-line, continuous measurement, positioning, and alarm capabilities.

Distributed Vibration Sensing System

Detects vibrations along optical fibers via coherent Rayleigh backscatter. Enables real-time vibration monitoring with full-line coverage and alert functionality.

Dynamic Temperature & Strain Sensing System

Supports distributed dynamic monitoring up to 2 km with high-frequency response (up to 10 kHz). Ideal for civil engineering, aerospace testing, and seismic monitoring. Resistant to EMI, corrosion, and harsh environments.

High-Precision Temperature & Strain Sensing System

Offers centimeter-level spatial resolution using Brillouin OTDR technology. Provides long-distance, high-precision measurements of temperature and strain simultaneously.

Long-Distance Temperature & Strain Sensing System

Differential pulse pair technology enables 1–2 m spatial resolution over long distances. Perfect for monitoring pipelines, power cables, substations, and large structures.

Integrated Sensing Management Software

Combines data from temperature, vibration, and strain sensors with GIS maps for real-time visualization, monitoring, and management of assets.

2. Industrial Automation Solutions

Automatic Heating Control for Crude Oil Tanks

Maintains optimal crude oil temperature by automatically controlling heating cycles using real-time temperature data. Reduces energy consumption while ensuring efficient oil drawing.

Oil Well Dynamic Energy-Saving Device

Monitors pump load in real-time and adjusts inverter frequency automatically to optimize production. Ideal for heavy, sandy, or high-viscosity oil wells, preventing air pumping and saving energy.

Submersible Pump Medium Voltage Frequency Conversion Device

Automatically regulates pump speed based on oil well liquid levels. Ensures efficient production, prevents over-pumping, and protects well integrity.

3. Information System Integration

Oil Well Online Measurement & Analysis System

Integrates production engineering, communications, and computing to provide real-time monitoring, control, and diagnostics of oil well parameters. Supports dynamometer measurement, online metering, and remote automation via wireless communication.

Electric Pump Well Information Automation System

A complete solution for electric pump well management. Combines automation, computer control, and frequency conversion technology for data acquisition, production analysis, fluid metering, and intelligent operation optimization.

SCADA System (IFIX-Based)

Centralized monitoring and management of oilfield automation systems. Provides a unified platform with standardized, modular, and structured monitoring using advanced software and hardware.

ELCORR specializes in cathodic protection, grounding, and AC mitigation solutions, primarily serving the oil and gas and industrial sectors.

Cathodic Protection Systems

ELCORR offers comprehensive cathodic protection services, including pre-design surveys, design, installation supervision, energizing, testing, commissioning, monitoring, and troubleshooting. They also provide grounding services for safety and operational efficiency in industrial settings and address AC interference to protect pipelines and metallic structures from corrosion and electrical hazards.

Management & Reporting Effective

Effective data management is critical for reliable corrosion and erosion monitoring in plant operations. Metal loss data is analyzed alongside chemical injection rates and process parameters to support swift decision-making. We provide data interpretation and validation, offering daily, weekly, or monthly reports for each probe tag location. After service campaigns, a final report includes detailed coupon probe analysis, graphs, corrosion rates, point-to-point measurements, episodes of accelerated metal loss, and the life

Microbiological Monitoring and Data Collection

We provide on-site microbiological services, including sessile/planktonic sampling, full audits, and Orbisphere surveys, with advanced sampling capabilities available upon request. Following NACE standards, we correlate micro biologically influenced corrosion (MIC) with metal loss and pitting data from corrosion coupons and probes. Our combined coupon/probe retrieval and MIC data collection services reduce manpower needs while leveraging industry expertise. Technicians deliver detailed reports on corrosion rates and microbiological data, enabling operators to take effective action against MIC corrosion.
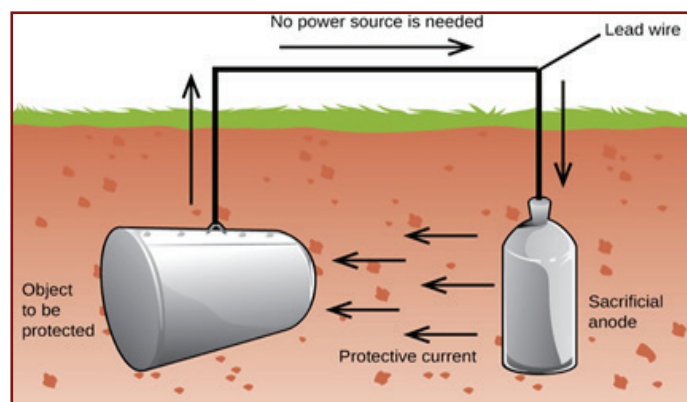
Pipeline Integrity Management Systems - **Gutterman Water**

GUTERMANN is a global leader in acoustic leak detection technology, providing innovative solutions for water loss management in water distribution systems. With over 70 years of expertise, GUTERMANN offers state-of-the-art products designed for permanent monitoring, efficient leak detection, and resource optimization.

1. ZONESCAN NB-IoT

Real-Time Data Transmission

This correlating acoustic logger uses NB-IoT cellular technology to transmit data directly to the GUTERMANN Cloud, enabling continuous leak monitoring and quick anomaly detection.

Long Battery Life

Equipped with a replaceable Li-SOCl$_2$ cell, the device offers years of reliable performance, reducing maintenance and operational costs.

2. ZONESCAN AI

Advanced Leak Correlation

Integrates AI-based algorithms to enhance leak detection accuracy and efficiency, ideal for urban water distribution networks.

Cloud Integration and OTA Updates

Allows seamless data analysis through ZONESCAN.net and supports over-the-air firmware updates, ensuring the system stays up to date without manual intervention.device offers years of reliable performance, reducing maintenance and operational costs.

Pipeline Integrity Management Systems- **nVent**

nVent is a global leader in electrical connection and protection solutions, offering innovative systems that enhance the safety, reliability, and efficiency of critical infrastructure. Their expertise spans water leak detection, fiber optic monitoring, and industrial electrical systems, making them a trusted partner across industries.

1. TraceTek Water Leak Detection System

Accurate Leak Detection

TraceTek systems use advanced sensor cables to detect and locate water leaks with pinpoint accuracy, preventing potential damage to sensitive equipment in data centers, server rooms, and communication facilities

Real-Time Monitoring and Alerts

These systems provide continuous monitoring and real-time alerts through centralized controllers, enabling swift response to water ingress incidents.

2. Fiber Optic Leak Detection System

Distributed Fiber Optic Sensing (DFOS)

nVent's fiber optic systems monitor temperature, strain, and acoustic signals along pipelines and critical communication infrastructure, ensuring early detection of leaks or damage.

Enhanced Operational Safety

With real-time data transmission and predictive analytics, these systems improve operational safety, reduce downtime, and extend the life of assets
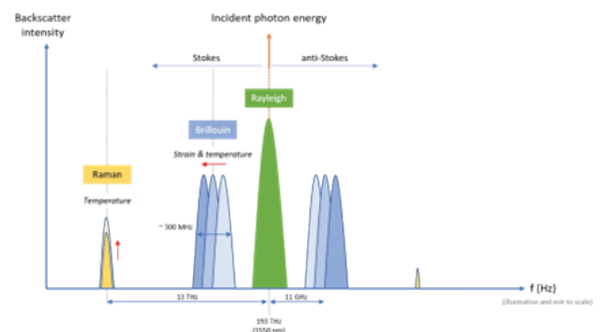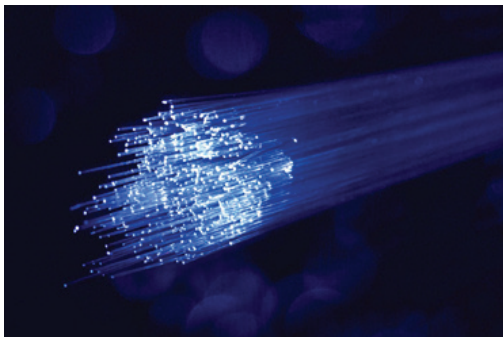
Pipeline Integrity Management Systems - Fiber Optic Cable Services

At NAI Technologies, we offer end-to-end solutions for fiber optic cable systems, ensuring seamless connectivity and optimal performance. Our services include precision installation, fusion splicing, termination, and comprehensive testing using industry-standard tools and techniques.

Our commissioning process guarantees that every link meets performance benchmarks for bandwidth, attenuation, and signal integrity. With a team of certified technicians and engineers, we deliver reliable, future-ready fiber infrastructure tailored to your project's needs.

1. Types of Fiber Optic Cable Testing

Optical Time-Domain Reflectometer (OTDR)

Sends light pulses through the fiber and analyzes reflections to detect faults, splices, bends, and breaks along the cable.

Optical Loss Test Set (OLTS)

Measures the total optical loss across a fiber link. It's essential for verifying that the link meets required loss budgets.

Fiber Inspection Probe

Magnifies and inspects the end-face of fiber connectors to detect dirt, scratches, or damage that could impair signal quality.

Visual Fault Locator (VFL)

Uses a visible red laser to identify breaks, sharp bends, or misalignments in short fiber runs—ideal for quick troubleshooting.

Power Meter & Light Source

Measures the amount of light received at the end of the fiber to determine signal strength and loss.

2. Commissioning Activities

End-to-End Link Verification

Confirms that the fiber link supports the required bandwidth and signal integrity.

Connector & Splice Validation

Ensures all terminations are clean, properly aligned, and within acceptable loss limits.

Documentation & Certification

Records test results and certifies that the installation complies with industry standards (e.g., TIA/EIA, ISO/IEC).

Testing & Components

NAI Technologies conducts various quality assurance tests, including OTDR Testing, Power Meter Testing, and Cable Drum Testing. The company also provides splice closures and fiber patch panels. Outdoor Fiber Patch Panels (PPFs) are available in configurations of 96, 48, 24, or 12 ports and come with lockable and sealed cabinets to ensure outdoor durability. Unused fibers can be looped for future use within these panels.

FOC Fusion Splicing

Fusion splicing is performed using advanced splicing machines that align and weld fiber ends with heat or an electric arc, ensuring a near-perfect connection with minimal light loss. Certified technicians conduct splicing using equipped vehicles, ensuring efficient and high-quality work. Proper planning for joint locations is essential to ensure vehicle access during the splicing process.

Indoor Cables

NAI Technologies produces indoor cables that are both plenum and riser-rated to minimize smoke emission and prevent flame spread. These cables use a tight buffer structure, ensuring ease of handling and termination. The types of indoor cables include Simplex, Duplex (flat and zip), Breakout, Distribution, and Backbone cables. All products adhere to international standards for quality and performance.

Indoor/Outdoor Cables

To address customer needs for seamless transition between outdoor and indoor environments, NAI Technologies offers specialized hybrid cables that are durable enough for outdoor conditions while complying with RISER and PLENUM grade standards for indoor use. These cables eliminate the need for extensive premises space during installation.

3. OSP Fiber Optic Installation Guidelines

Purpose & Scope

Our OSP Fiber Optic Installation Guidelines ensure safe, efficient, and high-quality deployment of outside plant fiber infrastructure. Covering trenching, ducted installations, cable blowing, and duct integrity testing, these practices comply with international standards and local regulations.

Safety First

Safety is paramount in every stage of fiber optic installation. Our teams strictly use Personal Protective Equipment (PPE) and follow best practices for excavation, electrical hazard awareness, and traffic management. Equipment such as pneumatic and hydraulic systems is prepared in accordance with manufacturer guidelines, while duct integrity tests (DIT) are performed with carefully controlled air pressure to ensure operational safety.

Pre-Installation Activities

Prior to installation, we conduct detailed site surveys and route planning to determine optimal blowing machine positions and minimize bends. Cable drums are stored and managed correctly to prevent damage or contamination. All tools and machines, including compressors, lubricants, and duct testing equipment, are verified for readiness. Required permits are obtained, the right manpower is allocated, and communication systems are tested to ensure seamless coordination on-site. DIT is carried out to confirm that ducts are free of blockages or leaks.

Post-Installation Activities

Once installation is complete, our team conducts rigorous testing and commissioning procedures. These include Duct Integrity Tests, crash tests, shuttle tests, and air pressure checks to validate performance. All cable routes, splice points, and installation depths are meticulously documented. Finally, we restore the site by backfilling trenches, repairing surfaces, and removing debris.

Environmental Responsibility

We emphasize sustainable practices by managing waste responsibly, protecting natural habitats, and implementing dust and noise control during installation activities.

Installation Procedures

Our trenching approach is tailored to the project's needs. Drop cable trenches are built to a width of 8–13 cm and a depth of 45–60 cm, while feeder and long-distance routes are at least 20 cm wide and 45–90 cm deep. Mini manholes are installed every 6 km, with pulling boxes every 500 m. Warning tapes and proper bedding safeguard the ducts, and water accumulation is prevented to maintain system integrity. Cable blowing is performed with precision, using blowing-grade lubricants and equipment designed to reduce friction and ensure smooth installation.

Quality Assurance

Quality control is integrated at every phase through pre-installation, in-process, and post-installation checklists. We ensure compliance with minimum bending radius requirements and promptly address any blocked ducts using approved cleaning methods. Regular audits and inspections guarantee adherence to industry benchmarks.

Roles & Responsibilities

Each project involves clearly defined responsibilities for project managers, site supervisors, technicians, and safety officers. Our structured team approach ensures smooth execution and accountability.

Pipeline Integrity Management Systems - Toku Systems

Toku Systems is a leading provider of Industrial Internet of Things (IIoT) solutions, specializing in high-performance monitoring systems for the oil and gas industry. Founded in 2014 and based in Calgary, Alberta, Toku Systems offers end-to-end IIoT monitoring solutions that provide high-quality pressure data from remote operations, enabling enhanced visibility and operational efficiency.

1. Quick Sense Pressure Monitoring System

Real-Time Leak Detection

Quick Sense Pressure utilizes high-quality pressure data to detect rapid changes associated with liquid leaks in pipelines, enabling prompt response and minimizing environmental impact.

Comprehensive Pipeline Monitoring

The system offers solutions for slug monitoring and pig tracking, providing operators with detailed insights into pipeline conditions and flow dynamics

2. Quick Sense EFM (Electronic Flow Measurement)

Accurate Flow Measurement

Quick Sense EFM delivers precise electronic flow measurement for various applications, ensuring accurate data collection for production optimization and regulatory compliance.

Seamless Integration

Designed to integrate effortlessly with existing systems, Quick Sense EFM enhances data accessibility and operational efficiency without the need for extensive infrastructure modifications.
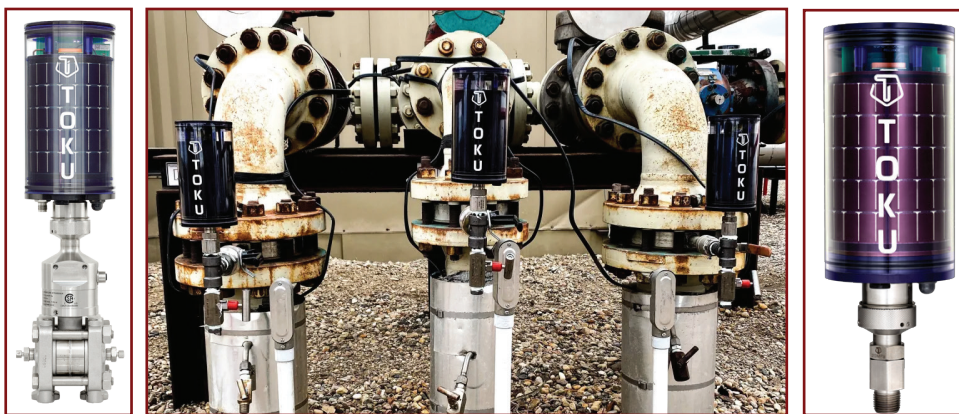
Pipeline Integrity Management Systems - Xylem Inc.

Xylem Inc. is a leading global water technology company focused on solving critical water challenges through innovative solutions. Serving industries such as utilities, industrial, residential, and commercial, Xylem provides advanced technologies in water transportation, treatment, analytics, and leak detection. Operating in over 150 countries, Xylem is committed to sustainability and efficiency in water management.

1. SmartBall® Inline Leak Detection System

High Sensitivity Leak Detection

The SmartBall® detects even pinhole-sized leaks in pipelines using advanced acoustic technology, offering unparalleled sensitivity for proactive maintenance.

Extended Inspection Range

Capable of traveling long distances in a single deployment, the system provides comprehensive pipeline assessments without service interruptions.

2. WEDECO UV Disinfection Systems

Chemical-Free Water Treatmenttion

Provides effective disinfection for water and wastewater treatment facilities without the use of harmful chemicals, ensuring environmental safety.

Advanced Monitoring and Control

Equipped with real-time monitoring systems to ensure consistent performance and compliance with strict regulatory standards.

DIVISION II: INDUSTRIAL AUTOMATION & DIGITALIZATION

Industrial Automation & Digitalization - **C-FER Technologies Systems**

C-FER Technologies collaborates with the global energy industry to enhance safety, environmental performance, and efficiency. Specializing in Pipeline & Well Integrity Solutions, Testing & Full-Scale Simulation Services, and Asset Reliability & Risk Management, C-FER provides advanced engineering consulting and full-scale testing services from their state-of-the-art facilities in Edmonton, Alberta, Canada.

1. Pipeline & Well Integrity Solutions

Risk-Based Integrity Assessment

C-FER offers risk-based integrity assessment and maintenance planning software tools, such as PIRAMID, to help pipeline operators evaluate and manage the integrity of their systems effectively.

Wellbore Trajectory Analysis

Their Well Xplore® software utilizes multi-finger caliper data to accurately determine the local trajectory in well tubulars, aiding in well integrity evaluations.

2. Testing & Full-Scale Simulation Services

Full-Scale Testing Facilities

C-FER operates large-scale testing systems that combine load, pressure, temperature, and fluid environments to simulate virtually any operating condition encountered in the industry. This capability allows for the validation of equipment performance under real-world conditions.

Special Environments Chamber

They have developed a Special Environments Chamber to conduct full-scale testing of line pipe in hydrogen environments, ensuring safe and reliable transportation of hydrogen through pipelines.

3. Asset Reliability & Risk Management

Quantitative Risk Assessments

C-FER performs quantitative risk assessments of pipeline systems, including underground storage facilities, to evaluate a broad range of threats to pipeline reliability and model the consequences of potential releases.
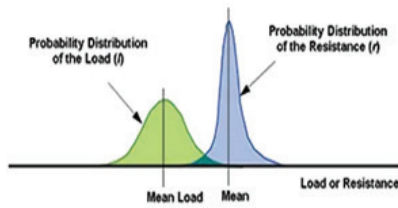
Reliability-Based Design Methods

They develop advanced pipeline design methods that employ techniques such as reliability-based and strain-based design, assisting operators in enhancing the safety and reliability of their infrastructure.
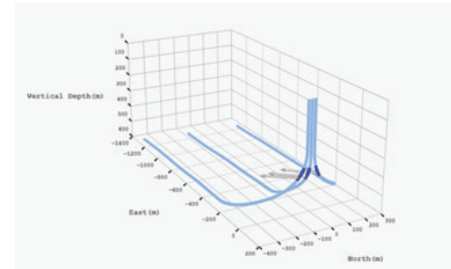
Industrial Automation & Digitalization - CIYIS

CIYIS is a technology solutions provider specializing in Asset Management and Internet-of-Things (IoT) Integrations. By leveraging advanced IoT technologies, CIYIS enhances enterprise asset management, enabling real-time monitoring, predictive maintenance, and improved operational efficiency.

1. Asset Management

Enterprise Asset Management Solutions

CIYIS offers comprehensive enterprise asset management solutions integrating IoT technologies for real-time asset performance and utilization data, enabling proactive maintenance, reduced downtime, and extended asset lifecycles.

Data-Driven Decision Making

CIYIS leverages IoT-enabled asset management to provide real-time data, empowering organizations to make informed decisions and improve operational efficiency and resource allocation.

2. Internet-of-Things (IoT) Integrations

Seamless Integration with Legacy Systems

CIYIS specializes in integrating IoT solutions with existing industrial systems, such as SCADA, ERP, and MES. This seamless integration enhances data flow and operational efficiency without disrupting current workflows.

Enhanced Asset Tracking and Monitoring

Through IoT integrations, CIYIS provides advanced asset tracking and monitoring capabilities, offering real-time insights into asset location, condition, and performance, which are crucial for effective asset management.

Industrial Automation & Digitalization - Grantek

Grantek specializes in providing industry-leading solutions in PLC/SCADA Systems, Manufacturing Execution Systems (MES), and Robotics and Machine Vision, tailored to the unique needs of Life Sciences, Food & Beverage, Pharmaceuticals, and other manufacturing sectors.

1. PLC/SCADA Systems

Integrated Automation Framework

Grantek develops and integrates PLC/SCADA systems tailored to client operations, utilizing platforms such as Rockwell Automation, Siemens, and Schneider Electric. These systems ensure centralized monitoring, enhanced data collection, and efficient process control.

Case Study: Pharmaceutical Industry

A custom SCADA solution deployed for a pharmaceutical client enabled real-time tracking of batch production, reducing downtime by 20% and ensuring regulatory compliance with 21 CFR Part 11.

2. Manufacturing Execution Systems (MES)

MES Deployment for Compliance and Efficiency

Grantek specializes in implementing Ignition MES solutions to streamline production workflows, offering modules for traceability, inventory management, and batch record keeping

Production Optimization

For a food manufacturer, Grantek's MES solution optimized production by providing real-time production data, cutting waste by 15%, and increasing overall equipment effectiveness (OEE) by 30%.

3. Robotics and Machine Vision

Industry Application: Automated Quality Inspection

Deployed a robotics-driven inspection system for a consumer-packaged goods (CPG) client, resulting in a 50% reduction in manual inspection costs and enhanced product quality consistency.

Precision and Quality Through Vision

Grantek integrates robotics with advanced vision systems to automate inspection, packaging, and assembly lines. Machine vision cameras and AI algorithms detect defects with up to 99.9% accuracy.

Industrial Automation & Digitalization - ID Quantique

ID Quantique (IDQ) is the global leader in quantum-safe cryptography, quantum instrumentation, and single-photon detection. With a mission to secure data for the quantum age, IDQ provides solutions for governments, enterprises, and academia to address the challenges posed by quantum computing advancements.

1. Quantum-Safe Cryptography

Quantum Key Distribution (QKD)

IDQ's quantum key distribution solutions, such as the Clavis XG system, ensure secure communication by generating and distributing encryption keys using quantum principles.

Post-Quantum Cryptography (PQC)

Combines QKD with post-quantum algorithms to safeguard sensitive data from quantum and classical threats, ensuring long-term data security.

2. Single-Photon Fiber Optic Detection

High Sensitivity Detectors

IDQ's single-photon detection systems, like the ID281 Pro SNSPD, deliver unmatched sensitivity across a broad wavelength range, suitable for quantum communication and photonic applications.

Advanced Fiber-Optic Integration

Seamlessly integrates into fiber-optic networks, providing efficient and reliable photon detection for secure quantum communication.

3. Quantum-Based Timing Solution

High Precision Timing

IDQ's quantum-based timing solutions leverage quantum randomness to deliver ultra-precise time synchronization, essential for critical infrastructure and financial systems.

Resilience to Cyber Attacks

Quantum-enhanced timing systems are designed to resist tampering and ensure operational reliability in high-stakes environments.

4. Quantum Instrumentation

Cutting-Edge Tools for Research

IDQ's quantum instrumentation, including photon counters and entangled photon sources, empowers researchers to advance quantum science and technology.

Wide Application Range

Supports diverse applications such as quantum computing, sensing, and fundamental physics research.

Industrial Automation & Digitalization - IMCI Technologies

IMCI Technologies specializes in providing comprehensive solutions for Digitalization Integration, Industrial Security SCADA Systems, and Automation Systems including RTU, PLC, and SCADA. Their expertise enables clients to achieve seamless remote monitoring, enhanced security, and efficient automation across various industrial sectors.

1. Digitalization Integrator

Remote Monitoring and Management

IMCI offers integrated remote monitoring and management systems, allowing clients to protect assets and maintain a unified operational view for continuous monitoring, enhancing efficiency and decision-making.

Data Analytics & Business Intelligence

IMCI's IRiS Analytics platform offers reliable, user-friendly analysis of enterprise infrastructure data, enabling clients to create dashboards for informed decision-making.

2. Industrial Security SCADA Systems

Secure Remote Site Infrastructure

IMCI's Open-i Q1000, an SNMP-based Remote Site Infrastructure Manager, securely monitors remote infrastructure, enabling users to manage facility equipment, network elements, and SCADA systems with enhanced security and reliability

Monitoring Equipment Systems

IMCI offers intelligent tools for monitoring and managing physical and cyber assets, integrating information from multiple sources into a centralized operational view to enhance industrial security and efficiency.

3. Automation Systems

Remote Terminal Units (RTUs)

IMCI provides RTUs for monitoring and controlling field devices like valves, actuators, and sensors, serving as essential interfaces between SCADA systems and physical processes.

Programmable Logic Controllers (PLCs)

Their automation solutions encompass PLCs that serve as the "brains" of the system, ideal for automating localized tasks and ensuring efficient process control within industrial operations.

Industrial Automation & Digitalization - MOXA

Moxa is a global leader in industrial networking and automation solutions, specializing in Industrial Ethernet Solutions, Edge Connectivity and Computing, and Serial Connectivity. With over 35 years of expertise, Moxa empowers industries with innovative technologies that connect the Industrial Internet of Things (IIoT).

1. Industrial Ethernet Solutions

Rugged Ethernet Switches

Moxa's industrial Ethernet switches are designed for reliability in harsh environments, offering features such as wide temperature tolerance, advanced redundancy protocols, and robust EMI resistance.

Network Management and Security

These solutions include tools for centralized network management and advanced cybersecurity features, ensuring secure and efficient communication in critical systems.

2. Edge Connectivity and Computing

IoT Gateways for Protocol Integration

Moxa's edge connectivity solutions support seamless protocol conversions between OT and IT systems, enabling efficient data flow for industrial applications.

Localized Data Processing

Equipped with edge computing capabilities, Moxa's devices allow real-time processing at the network edge, reducing latency and improving operational responsiveness

Industrial Automation & Digitalization - **Omnileak**

OmniLeak is a global leader in Continuous Leak Detection Systems, Remote Monitoring & Data Analytics, and Portable & Mobile Leak Detection solutions. Designed for industries including data centers, commercial buildings, and oil & gas, OmniLeak ensures the safety of critical infrastructure with innovative and reliable leak detection technologies.

1. Continuous Leak Detection Systems

Real-Time Detection and Localization

OmniLeak's continuous detection systems provide real-time monitoring, enabling precise leak localization with an accuracy of up to one meter.

24/7 Protection

These systems operate around the clock, providing early warning alerts to prevent costly damage and downtime in critical environments.

2. Remote Monitoring & Data Analytics

Cloud-Integrated Platforms

OmniLeak systems include remote monitoring capabilities via a secure cloud platform, allowing users to track system performance and receive alerts in real-time.

Analytics for Predictive Maintenance

By leveraging data analytics, OmniLeak's solutions identify potential risks and trends, enabling predictive maintenance and reducing the likelihood of unexpected failures.

3. Portable & Mobile Leak Detection

Lightweight and Easy to Deploy

OmniLeak's portable systems are designed for rapid deployment, offering leak detection for temporary setups, small-scale applications, or mobile operations.

Multi-Liquid Compatibility

These mobile systems are compatible with a wide range of liquids, including water, acids, and hydrocarbons, ensuring versatility across industries.

Industrial Automation & Digitalization - **Resecurity**

Resecurity is a cybersecurity company that delivers a unified platform for endpoint protection, risk management, and cyber threat intelligence for large enterprises and government agencies worldwide.

1. Context™ Cyber Threat Intelligence Platform

Comprehensive Threat Analysis

Context™ provides cyber threat intelligence harvested from millions of data points combined with data science, allowing for actionable insights.

Proactive Defense Mechanisms

The platform enables early-warning identification of data breaches and comprehensive protection against cybersecurity risks.

2. Endpoint Protection Platform (EPP)

Unified Security Solution

Resecurity's EPP replaces multiple protective technologies by combining them into a single platform, providing comprehensive protection of IT ecosystems.

Scalability and Proactive Actions

Fully scalable to monitor any digital footprint, the platform generates analysis reports that provide actionable strategic feedback, allowing organizations to take proactive actions to continuously improve their security strategy.

Industrial Automation & Digitalization - **Systecon**

Systecon is a global leader in modular utility solutions and advanced performance optimization technologies. By leveraging cutting-edge methods such as Performance-Based Logistics (PBL), Artificial Intelligence (AI) Optimization, and Custom Model Training for Use-Case, Systecon delivers tailored solutions that ensure efficiency, cost-effectiveness, and sustainability for diverse industries.

1. Performance-Based Logistics (PBL)

Life Cycle Cost Optimization

Systecon integrates PBL frameworks to optimize system lifecycle costs by focusing on outcomes and performance metrics rather than transactional services.

Enhanced Reliability and Availability

Through predictive maintenance and data-driven insights, PBL ensures equipment reliability and uptime, reducing operational disruptions.

2. Artificial Intelligence (AI) Optimization

Smart System Design

Systecon's AI-driven tools, such as OPUS Suite, analyze vast amounts of data to design and optimize modular utility systems with improved efficiency and reduced costs.

Predictive Analytics

AI-powered algorithms enable real-time monitoring and predictive analytics, helping clients identify potential issues before they impact operations.

3. Custom Model Training for Use-Case

Tailored Simulations

Systecon offers custom model training for specific client use-cases, allowing simulation and analysis of unique operational scenarios to achieve optimal system configurations.

Adaptive Solutions

By training models on client-specific data, Systecon delivers solutions that evolve with changing requirements, ensuring long-term relevance and adaptability.

Industrial Automation & Digitalization - **Wood PLC**

Wood plc is a global leader in consulting and engineering, providing a comprehensive range of services across various sectors. Their expertise encompasses Asset Integrity & Database Management, Materials Sciences and Management, Erosion/Corrosion Engineering, Cybersecurity, and Commissioning and Start-Up (CSU).

1. Asset Integrity & Database Management

NEXUS Integrity Centre (NEXUS IC)

Wood's NEXUS IC is a versatile integrity management software that supports building frameworks for all asset types across industries. It integrates with CMMS to minimize data duplication and enhance productivity.

Integrated Maintenance Database (IMD)

The IMD delivers real-time, quality data that enhances maintenance management, ensuring data security and reducing risks associated with traditional processes to improve operational effectiveness.

2. Materials Sciences and Management

Corrosion Analysis, Materials Selection

Wood's ECE® (Electronic Corrosion Engineer) software provides corrosion analysis and materials selection, offering realistic corrosion modeling calibrated to field data for designing and operating oil and gas facilities, pipelines, and processing systems.

Materials Engineering Services

They offer corrosion and erosion analysis, modeling, risk assessment, optimization, management plans, and materials engineering, including cathodic protection, specifications, start-up, and operations support

3. Erosion/Corrosion Engineering

Piping Integrity Management

Wood's NEXUS IC is a flexible, world-class integrity management software that facilitates the building of integrity frameworks for all asset types, with no industry limitations. It integrates with computerized maintenance management systems (CMMS) to reduce data duplication and improve productivity.

4. Cybersecurity

Industrial Control Systems Security

Wood designs, configures, integrates, commissions, and protects networks that constitute and interface with industrial control systems. Their expertise includes implementing industry standards such as ISA 99/IEC 62443 and NIST Cybersecurity Framework to ensure the integrity of ICS networks.

Asset Protection Solutions

Their asset protection platform addresses cybersecurity, physical security, and leak detection, providing comprehensive solutions to safeguard assets.

5. Commissioning and Start-Up (CSU)

Comprehensive Engineering Services

Wood's NEXUS IC is a flexible, world-class integrity management software that facilitates the building of integrity frameworks for all asset types, with no industry limitations. It integrates with computerized maintenance management systems (CMMS) to reduce data duplication and improve productivity.
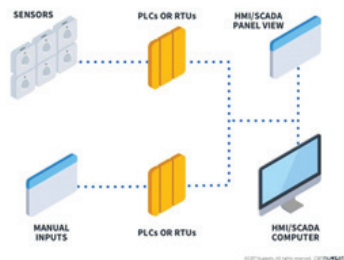
DIVISION III: REAL TIME MONITORING SYSTEM

Real Time Monitoring System - **Cisco**

A leader in Continuous Emission Monitoring Systems (CEMS), provides top-tier hardware and software solutions to ensure accurate emissions monitoring and compliance.

1. CeDAR Software

Integration with Leading PLCs

Successfully integrated CeDAR with popular Programmable Logic Controllers (PLCs) like General Electric RX3i and Allen-Bradley ControlLogix, enhancing system compatibility and performance.

User Interface

Intuitive user interface, resulting in a 25% increase in user satisfaction scores based on recent client feedback.

2. CEMS Hardware

Tailored for Precision and Durability

CiSCO shelters are designed for durability and precision, supporting processes like turbines, boilers, waste incinerators, and process measurements. Made from rugged materials, they provide a stable, controlled environment for CEMS, reducing maintenance, improving uptime, and lowering costs. Their temperature-stable, technician-friendly workspace enhances operational efficiency.

Shelters for Unique Requirements

CiSCO shelters are designed and built in-house for complete customization to meet site-specific needs. Options include custom sizing from compact 6'x7' to expansive 12'x26' shelters, multi-room configurations with climate control, and enclosed storage with roll-up doors. These shelters ensure optimal CEMS operation, reliability, and ease of maintenance.

Real Time Monitoring System - **OGTech**

OGTech's cutting-edge infrared cameras deliver unparalleled accuracy in gas leak detection, ensuring real-time monitoring and enhanced safety in industrial and environmental applications.

1. Infrared Camera for Gas Leak Detection

Advanced Sensor Technology

Equipped with state-of-the-art sensors for precise gas detection, reducing false positives and ensuring reliable operation.

High Durability

Built with rugged materials to withstand harsh industrial environments, ensuring longevity and performance.

Seamless Integration

Compatible with major monitoring and control systems, allowing smooth integration into existing workflows.

User-Friendly Interface

Offers intuitive controls and real-time analytics, empowering users to respond promptly to potential issues.

2. Flow Assurance Management System

Comprehensive Flow Analysis

Wood's flow assurance solutions address challenges such as hydrates, wax formation, and slugging, ensuring uninterrupted and efficient flow in pipelines.

Integrated Production Modeling

The system integrates production data to optimize pipeline performance, enhance resource recovery, and extend asset lifespan.

DIVISION IV : DIGITAL SOLUTIONS

Digital Solutions - **xBeyond**

xBeyond is a digital transformation company offering AI-powered solutions for the construction and EPC industries. Their platform enhances asset tracking, project management, and procurement, helping clients improve efficiency and reduce costs.

1. Asset Management

Real-time Tracking

Advanced GPS and IoT-based tracking system for real-time location monitoring and status updates of all your movable assets.

Maintenance Scheduling

AI-powered predictive maintenance system that forecasts equipment needs and automatically schedules preventive maintenance.

Mobile Access

Secure mobile application for on-the-go access to asset information, maintenance requests, and status updates.

Asset Performance Analytics

Comprehensive analytics dashboard providing insights into asset utilization, efficiency metrics, and ROI calculations.

Cost Optimization

Smart cost tracking and optimization tools to monitor operational expenses and identify cost-saving opportunities.

Integration Capabilities

Seamless integration with existing ERP systems and other business applications for streamlined operations.

2. Project Management

Site Survey

Comprehensive site analysis and documentation

Design Management

Integrated design collaboration and version control

Proposal & BOQ

Accurate cost estimation and proposal generation

Work Progress

Real-time progress tracking and reporting

Audit & Handover

Quality assurance and project completion management

3. Vendor Management Solutions

Centralized Data Management

Store and manage all vendor information, contracts, and documentation in one secure location

Automated Workflows

Streamline vendor onboarding, contract management, and approval processes.

Performance Tracking

Monitor vendor performance through scorecards and team reviews.

Risk Management

Identify and mitigate vendor-related risks with comprehensive assessment tools.

Document Management

Centralize all vendor-related documents with version control and audit trails.

Vendor Communication

Facilitate seamless communication and collaboration with vendors.

4. E-Marketplace

Organized Material Catalog

Monitor vendor performance through scorecards and team reviews.

Smart Supplier Mapping

Facilitate seamless communication and collaboration with vendors.

Digital Solutions - SmartWave

SmartWave is a digital platform for creating and sharing professional vCards, offering easy, customizable, and device-compatible electronic business cards.

1.   Digital Business Cards

Professional vCard Platform

Easily create and share customizable digital business cards with profile photos, logos, and standard VCF compatibility for seamless networking.

User-Friendly Interface

SmartWave offers a clean and easy-to-navigate interface, allowing users to generate digital business cards quickly and efficiently.

Cross-Device Compatibility

Ensures all digital cards are compatible with major devices and platforms, simplifying contact sharing across ecosystems.

Contactless Sharing

Enables instant, paperless contact exchange—perfect for virtual meetings, conferences, and environmentally conscious users.

Digital Solutions - Dhruvsoft - CRM & Salesforce Consulting

Dhruvsoft is a Customer Relationship Management (CRM) consulting and implementation practice specializing in Salesforce, Zoho, and Oracle NetSuite. Our Key Salesforce services include CRM implementation, cloud solutions, CRM customization, and developing custom applications.

1. CRM & Engagement

Sales Cloud

AI-powered lead & deal management to close sales faster.

Service Cloud

Omnichannel customer support with intelligent automation.

Marketing Cloud

Personalized, data-driven campaigns across all digital channels.

2. Data & Automation

Data Cloud

Unify and activate customer data for real-time insights.

Agentforce

AI virtual agents to automate tasks and boost efficiency.

3. Revenue & Commerce

Revenue Cloud

End-to-end quoting, billing, and revenue recognition.

Commerce Cloud

Smart, personalized shopping experiences across B2B, B2C, and D2C.

4. Digital Experiences

Experiance Cloud

Branded portals for customers, partners, employees & franchises.

Digital Solutions - **Crescent**

Founded in 2006 in Atlanta, Georgia, Crescent Technology is a Manufacturing and Industrial Technology consulting company, serving clients across North America and the Middle East. Our core mission is to help manufacturers modernize operations, unlock efficiency, and stay competitive in the Industry 4.0 era.

1. Artificial Intelligence Generative AI

Enhance AI capabilities with solutions in computer vision, object recognition, and generative AI, automating content generation and driving efficiencies across industries.

2. AI/ IOT Custom Development

Embedding machine learning, IoT, and automation into physical infrastructure, we enable digital transformation that is both scalable and locally relevant. Our team delivers custom-built systems with a focus on low-cost deployment, real-time analytics, and adaptive intelligence tailored to client needs.

3. Data Analytics - Insights

Unlock the potential of your data with advanced analytics solutions. We integrate multiple data sources, transforming data into actionable insights using tools like Power BI, Oracle Analytics Cloud, and AWS Quick sight.

4. IT Strategy & Consulting

Streamline your business operations with our specialized cybersecurity, IT, and business process consulting. We ensure a smooth transition that minimizes downtime and maximizes efficiency.

5. Cloud Migration & Modernization

Specializing in AWS migration, we provide expert guidance through the complexities of moving applications, databases, and entire IT infrastructures to leading cloud platforms like AWS, Azure, GCP, and Oracle Cloud, ensuring smooth, secure, and scalable transitions.

6. Machine Learning & Predictive Analytics

Explore machine learning and predictive analytics, leveraging your data to build models that forecast trends and automate decision-making processes.

7. Custom Application & Mobile App Development

Delivering tailored software solutions, we focus on custom application and mobile app development for iOS and Android, ensuring superb user experience and performance.

Digital Solutions - Vega Instruments

For over 60 years, VEGA has been a global leader in level, point level, and pressure measurement technology. Our German-engineered solutions are trusted in some of the world's most critical industries—from oil & gas and chemical processing to water treatment and food production.

1. Level Measurement

Accurate and reliable sensors for continuous level measurement in liquids and bulk solids.

Technologies

- Radar Sensors (80 GHz)
- Ultrasonic Sensors
- Capacitive Sensors
- Guided Wave Radar

Applications

- Storage Tanks
- Silos
- Open Channels

2. Point Level Detection

Precise switching and detection for maximum process safety.

Technologies

- Vibrating Forks
- Capacitive Probes
- Conductive Sensors

3. Pressure Measurement

Robust transmitters and sensors for gauge, absolute, and differential pressure monitoring.

Technologies

- Ceramic Cell Technology
- Metallic Measuring Cells

Applications

- Pipeline Monitoring
- Vessel Pressure
- Filter & Pump Monitoring

4. Interface Measurement

Separate and monitor liquid-liquid or solid-liquid interfaces for optimal separation and efficiency.

CLIENTELE

VENDOR REGISTRATION INFORMATION

CLIENT NAME	VENDOR ID
SAUDI ARAMCO	10063583
SAUDI ELECTRICITY COMPANY (SEC)	5012591
SABIC	9113495
WOOD PLC MIDDLE EAST	53235
SAIPEM SAUDI ARABIA	161482
GULF CONSOLIDATED CONTRACTORS COMPANY	200068
GE SUPPLIER CONNECT ACCOUNT	T84643
L&T HYDROCARBON	1024455
NESMA & PARTNERS	LS-004582
TEKFEEN	89905

PROJECT LIST

SL#	PROJECT#	PROJECT DESCRIPTION	COMMODITY	PIPELINE LENGTH	COMMUNICATION CONNECTIVITY	MAIN CONTRACTOR	STATUS / YEAR
1	BI-10-00194	EAST WEST TO RABIGH*	CRUDE OIL	130 KM	OTN	SAIPEM SAUDI ARABIA	COMMISSIONED IN 2005
2	BI-10-03020	QATIF DOWNSTREAM*	SOUR GAS, SOUR CRUDE, MULTI-PHASE SOUR CRUDE	90 KM	LEASE LINE MODEM	SRB	COMMISSIONED IN 2006
3	BI-10-03028	ABU SAFAH*	MULTI-PHASE SOUR CRUDE	110 KM	LEASE LINE MODEM	SRB	COMMISSIONED IN 2006
4	BI-10-00038	HNRP TO SGP	NGL PIPELINES	70 KM	LEASE LINE MODEM	FMQ	COMMISSIONING ON HOLD
5	BI-10-03184	SGP TO W	C2+NGL PIPELINES	130 KM	SERIAL RS-232, OTN FIBER OPTICS	FMQ	COMMISSIONED IN 2007
6	BI-10-01106	JGP TO JUBAIL	ETHANE PIPELINES	90 KM	SERIAL RS-232, OTN FIBER OPTICS	C. A. T INTERNATIONAL	COMMISSIONED IN 2008
7	BI-24-05000	PETRO RABIGH DEVELOPMENT	ETHANE / BUTANE PIPELINES	55 KM	LEASE LINE MODEM	C. A. T INTERNATIONAL	COMMISSIONED IN 2008
8	BI-10-03101	KHURAIS DOWNSTREAM	SOUR GAS PIPELINES	110 KM	LEASE LINE MODEM	METAL SERVICES	COMMISSIONED IN 2008
9	BI-10-00433	SRG2 PIPELINE	SALES GAS PIPELINES	90 KM	SERIAL & ETHERNET	C. A. T	COMMISSIONED IN 2008
10	BI-10-00227	KRZTG-1 PIPELINE	SALES GAS PIPELINES	60 KM	ETHERNET	B. Q. E	COMMISSIONED IN 2009
11	BI-10-00433	UBTG4 PIPELINE & BJBFG-3	SALES GAS PIPELINES	50-60 KM EACH	SERIAL, ETHERNET & RADIO	SAIPEM SAUDI ARABIA	COMMISSIONED IN 2010
12	BI-10-03096	REHABILITATION PHASE-2*	11 CRUDE OIL,2 SOUR GAS, 1 NGL LINES PIPELINES	25-30 KM EACH	LEASE LINE MODEM	G.C.C	COMMISSIONED IN 2010
13	BI-10-08022	KHURSANIYA DOWNSTREAM	2 CRUDE OIL, 1 NGL , 1 SALES GAS, 3 SOUR GAS PIPELINES	15-20 KM EACH	SERIAL & ETHERNET	SAUDI TECHINET	COMMISSIONING ON HOLD
14	BI-100-7004	FUEL & FEEDSTOCK PIPELINE FOR JUBAIL-2, STAGE 1*	2 METHANE, ETHANE PIPELINES	15 KM	ETHERNET	BEMCO COMPANY	COMMISSIONED IN 2011
15	BI-10-00179	EAST WEST PIPELINE*	GAS & OIL PIPELINES	1150 KM	LEASE LINE MODEM	CAT , AL FALAK	COMMISSIONED IN 2012
16	BI-10-0578	KGB-2 SALES GAS PIPELINE*	SALES GAS PIPELINES	45 KM	SERIAL & ETHERNET	PETROFAC COMPANY	COMMISSIONING ON HOLD
17	BI-10-0295	SHY-1 PHASE 2 PIPELINE*	NGL PIPELINES	1100 KM	LEASE LINE MODEM	SRB COMPANY	COMMISSIONING ON HOLD
18	BI-10-0454	MANIFA DOWNSTREAM PIPELINE*	CRUDE OIL, SOUR GAS, SALES GAS PIPELINES	90 KM	SERIAL & ETHERNET	SRB COMPANY	COMMISSIONED IN 2010
19	BI-10-1067	KRZTG-2 PIPELINE	SALES GAS PIPELINES	70 KM	ETHERNET	GCC COMPANY	COMMISSIONED IN 2016
20	BI-10-0168	SHABAB-1 NGL PIPELINE	NGL PIPELINE	600 KM	SERIAL & ETHERNET	RHM COMPANY	COMMISSIONING ON HOLD
21	BI-10-0421	EWRR-1 PIPELINE	CRUDE OIL PIPELINE	90 KM	OTN FIBER OPTICS	FMQ COMPANY	COMMISSIONED IN 2014
22	BI-10-1066	UBTG-1 SALES GAS PIPELINE	SALES GAS PIPELINE	70 KM	SERIAL, ETHERNET & RADIO	CAT COMPANY	COMMISSIONED IN 2013
23	BI-10-0611	RAS TANURA – DHAHRAN PIPELINE-2*	REFINED PRODUCT	120 KM	ETHERNET & FIBER OPTICS	SRB COMPANY	COMMISSIONED IN 2019
24	BI-10-0789	DHAHRAN- RIYADH PIPELINE-2*	REFINED PRODUCT	330 KM	ETHERNET, OTN & FIBER OPTICS	SRB COMPANY	COMMISSIONED IN 2019
25	BI-21-2025	QASSIM CRUDE OIL PIPELINE	OIL PIPELINE	220 KM	OTN & FIBER OPTICS	G.C.C	COMMISSIONED IN 2013
26	BI-21-0036	CRUDE OIL PIPELINE FROM RIYADH OIL REFINERY TO PP10	CRUDE OIL, PROPANE	26 KM	ETHERNET	EL SEIF COMPANY	COMMISSIONED IN 2012
27	BI-10-3155	RASTANURA REFINERY TO JUAYMAH GAS PLANT	PROPANE GAS PIPELINE	70 KM	ETHERNET	SINOPEC	COMMISSIONED IN 2012
28	BI-10-879	CARBON DIOXIDE CAPTURE AND INJECTION FACILITIES	GAS PIPELINE	90 KM	SERIAL & ETHERNET	SAMSUNG	COMMISSIONING ON HOLD
29	BI-100-7014	FUEL & FEEDSTOCK PIPELINE FOR JUBAIL STAGE 2	METHANE, ETHANE PIPELINE	15 KM	ETHERNET	GULF RIYADAH	COMMISSIONING ON HOLD
30	BI-10-00918	WASIT DOWNSTREAM PIPELINE	11 PIPELINES SALES GAS, ETHANE, BUTANE, PROPANE, SOUR GAS, RICH GAS, GASOLINE	20-30 KM EACH	SERIAL RS-485 & ETHERNET	G.C.C	COMMISSIONED IN 2017
31	BI-10-00617	LEAK DETECTION & CORROSION MONITORING SYSTEM PHASE-1	30 SOUR GAS PIPELINES	30 PIPELINES 50 KM EACH	LEASE LINE MODEM & ETHERNET & FIBER OPTICS	MASCO COMPANY	COMMISSIONED IN 2020
32	BI-10-07019	SAPD INTEGRATION PROJECT	SAPD LDS INTEGRATION WITH PMC	PIPELINE	ETHERNET & SERIAL	NAI COMPANY	COMMISSIONED IN 2014
33	BI-10-01768	EAST WEST SALES GAS PIPELINE	EXTENSION OF SRG-2 PIPELINE	150 KM	ETHERNET	G.C.C	COMMISSIONED IN 2019
34	BI-10-01282-0001	56" EWG-2 SECTION III SALES GAS PIPELINE (MGS PH-I) & 30" EWECG-1 SALES GAS PIPELINE	SALES GASEWG-2, EWRBG-1 & EWECG-1 PIPELINES	360 KM 180 KM 15 KM	ETHERNET & FIBER OPTICS COMMUNICATION	DODSAL & COMPANY	COMMISSIONED IN 2019
35	BI-100-7022	JEDDAH REMOTE SURVEILLANCE PIPELINE MOMITORING	SNJBP-1 & SNJBP-2 pipelines	20 KM	GSM ANTENNA WIRELESS COMMUNICZAITONS	NAI COMPANY	COMMISSIONED IN 2018

SL#	PROJECT#	PROJECT DESCRIPTION	COMMODITY	PIPELINE LENGTH	COMMUNICATION CONNECTIVITY	MAIN CONTRACTOR	STATUS / YEAR
36	BI-10-001439	EXPAND SHAYBAH- ABQAIQ PIPELINE CAPACITY	SHABAB-2 AXL CRUDE OIL PIPELINE	600 KM	SERIAL RS-232 & ETHERNET	C.A.T INTERNATIONAL	COMMISSIONED IN 2016
37	BI-21-00077	SALES GAS DELIVERY SYSTEM FOR SEC-PP 13	24" SALES GAS PIPELINE	1.6 KM	SERIAL RS-232 & ETHERNET	SEC/WORLEY PARSONS	COMMISSIONED IN 2024
38	BI-10-01215	COMPLETE SHEDGUM YANBU-1 PIPELINE LOOP-4 & LOOP-5	32" SALES GAS PIPELINE	200 KM 400 KM	SERIAL RS-232 & ETHERNET	SAIPEM SAUDI ARABIA	AWAITING COMMISSIOING
39	BI-10-0179 AY-1 CONVERSION	AY-1 & AY-1L LDS RE-CONFIGURATION & RE-COMMISSIONING FOR CONVERSION TO GAS SERVICE	48" & 56" SALES GAS & CRUDE OIL PIPELINE	1150 KM	SERIAL RS-232 & ETHERNET	NAJMATAL-DAMMAM ESTABLISHMENT	COMMISSIONED IN 2014
40	BI-24-050-0221	MODIFICATION ON EXPIRING PIPELINE	YNGL PIPELINE	60 KM	SERIAL RS-232	NSH COMPANY	COMMISSIONED IN 2016
41	BI-25-00044	SAUDI BAHRAIN PIPELINE 32' AB-4 PIPELINE	CRUDE OIL PIPELINE	112 KM	OTN- SERIAL POINT TO POINT & ETHERNET COMMUNICATIONS	AL-ROBAYA HOLDING COMPANY	COMMISSIONED IN 2019
42	BI-10-01221	NORTHERN AREA PIPELINES	SALES GAS PIPELINE	3 PIPELINES 70- 80 KM	OTN FIBER OPTICS	DENYS ARABIA COMPANY	COMMISSIONED IN 2019
43	BI-10-01443	REROUTE RASTANURA PIPELINES	CRUDIE OIL, SALES GAS & SOUR GAS PIPELINES	18 PIPELINES 20 TO 30 KM	OTN FIBER OPTICS	CHINESE PETROLEUM COMPNAY	COMMISSIONED IN 2024
44	BI-100-7023	WAAD AL SHAMAL	SALES GAS PIPELINE	16 KM	ETHERNET COMMUNICATIONS	G.C.C / SEC COMPANY	COMMISSIONED IN 2019
45	BI-10-0611 & BI-10-0789	VALIDATE & COMMISSION PIPELINE LDS	REFINED PRODUCT	70 KM 360 KM	ETHERNET COMMUNICATIONS	NESIC SAUDI ARABIA	COMMISSIONED IN 2018
46	BI-21-00083	SALES GAS & AL-CRUDE PIPELINE TO YAMAMA NEW PLANT	SALES GAS & CRUDE OIL PIPELINE	20 KM 20KM	ETHERNET COMMUNICATIONS	GAS ARABIA	AWAITING COMMISSIOING
47	BI-10-01214	INCREASE EAST WEST PIPELINE CAPACITY	CRUDE OIL PIPELINES	30 KM 30 KM	ETHERNET COMMUNICATIONS	PETROJET	AWAITING COMMISSIOING
48	BI-10-00907	BERRI DOWNSTREAM PIPELINES	CRUDE OIL & SOUR CONDENSATE PIPELINES	90 KM 70 KM	ETHERNET COMMUNICATIONS	SAIPEM UAE OFFICE	AWAITING COMMISSIOING
49	BI-10-00768	REHABILITATION PROJECT 2016	CRUDE OIL & SOUR CONDENSATE PIPELINES	110 KM 90 KM	ETHERNET COMMUNICATIONS	DENYS ARABIA COMPANY	AWAITING COMMISSIOING
50	BI-100-7048	NEOM INDUSTRIAL CITY PROJECT	WATER LINE	9 KM	ETHERNET COMMUNICATIONS	SHALAWI COMPANY	COMMISSIONED IN 2023
51	BI-10-01196	UPGRADE UTHMANIYAH ABQAIQ PIPELINES	SOUR AL-CRUDE SOUR CONDENSATE	90 KM 55 KM & 9 KM	ETHERNET COMMUNICATIONS	SICIM COMPANY	AWAITING COMMISSIOING
52	BI-21-00097	SALES GAS SUPPLY TO YANBU	SALES GAS PIPELINE	18 KM	ETHERNET COMMUNICATIONS	SICIM COMPANY	AWAITING COMMISSIOING
53	BI-10-14329	JAFURAH FIELD DEVELOPMENT – EXPORT PIPELINE	C2 + NGL PIPELINE	9 KM	ETHERNET COMMUNICATIONS	L&T HYDROCARBON COMPANY	INSTALLATION IN PROGRESS
54	BI-100-7026	P&C OF GAS NETWORK CONNECTIONS TO PLASCHEM PARK	METHANE	8KM	ETHERNET COMMUNICATIONS	GAS ARABIAN SERVICES	COMMISSIONED IN 2025
55	BI-100-7050	DESIGN AND BUILD OF WATER TRANSMISSION SYSTEM FROM OXAGON TO GAYAL	NEOM WATER LINE	FOLDS 110 KM PARALLEL LINES	ETHERNET COMMUNICATIONS	PETROJET	MANUFACTURING IN PROGRSS
56	BI-100-7057	SUPPLY OF LEAK DETECTION SYSETM FOR AMIRAL PROJECT (PKG-05 B TRANSFER PIPELINES)	MULTIPLE PIPELINES	FOLDS MULTIPLE PIPELINES	ETHERNET COMMUNICATIONS	G.C.C / SEC COMPANY	MANUFACTURING IN PROGRSS
57	BI-100-7059	DESIGN AND BUILD OF MAGNA BPT & WATER TRANSMISSION PIPELINE FROM MAGNA BPT TO RESERVOIR	NEOM WATER LINE	FOLDS 15 KM	ETHERNET COMMUNICATIONS	AL RAWAF CONTRACTING	INSTALLATION IN PROGRESS
58	BI-100-7059-002	DESIGN & BUILD OF MAGNA WATER STORAGE RESERVOIR	NEOM WATER LINE	FOLDS 2 KM PARALLEL LINES	ETHERNET COMMUNICATIONS	AL RAWAF CONTRACTING	INSTALLATION IN PROGRESS
59	BI-100-7059-003	DESIGN & BUILD OF AL BADA'A STORAGE RESERVOIR,	NEOM WATER LINE	FOLDS 3.5 KM	ETHERNET COMMUNICATIONS	AL RAWAF CONTRACTING	INSTALLATION IN PROGRESS
60	BI-10-20858/ BI-10-20955	ARAMCO OFFSHORE GAS INCREMENT PIPELINES	FEED GAS PIPELINE / ARABIAN CONDENSATE LINE	FOLDS 39 KM	ETHERNET COMMUNICATIONS	NESMA & PARTNERS	MANUFACTURING IN PROGRSS
61	BI-10-21516	REPLACE 42-INCH ABSF AM TRUNKLINE	ABSF AM TRUNKLINE	FOLDS 23 KM	ETHERNET COMMUNICATIONS	SAIPEM	MANUFACTURING IN PROGRESS
62	BI-100-7091	GAS LEAK DETECTION CAMERA & MONITORING SYSTEM	GAS PIPELINES	GAS LEAK DETECTION	ETHERNET COMMUNICATIONS	AL-FALAK	MANUFACTURING IN PROGRESS
63	BI-200-5004	SAPD LDS MAINTENANCE PROJECT	OIL & GAS PIPELINES	ALDS	SERIAL / ETHERNET	SAUDI ARAMCO	SITE SURVEY IN PROGRESS

SL#	PROJECT#	PROJECT DESCRIPTION	COMMODITY	PIPELINE LENGTH	COMMUNICATION CONNECTIVITY	MAIN CONTRACTOR	STATUS / YEAR
64	BI-100-7094	P&C OF GAS NETWORK FOR JUBAIL 2, STAGE 4 -PHASE I	P&C GAS NETWORK FOR JUBAIL	50 KM	SERIAL RS-232 & ETHERNET	AL AZZAZ TRADING & CONSTRUCTION COMPANY	INSTALLATION IN PROGRESS
65	BI-11-23034-4009	JAFURAH TRANSMISSION PIPELINE PHASE-III CRPO-20	PIPELINE	50 KM	SERIAL RS-232 & ETHERNET	ARAMCO	MANUFACTURING IN PROCESS

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