



Integrated Services for the Pipeline Market

Protect your investment. Backed by best-in-class R&D programs, sophisticated technology and expert knowledge, Intero brings a turnkey approach to your pipeline's whole life cycle.

Intero can provide all services in house to manage the integrity of your pipelines. We combine an innovative industrial service package with the latest inspection and robotics systems, backed by smart sensors and advanced data management. We strive for excellence by listening carefully to you, to identify your needs clearly and understand what's really important. The result is a perfectly-tailored solution to your challenge.

Pipelines are Critically Important to Our Daily Lives

Pipelines and Their Challenges

Pipelines are a vital link (midstream) connecting upstream (oil and natural gas resources) to refineries, and (petro)chemical plants (downstream) to businesses and customers around the world.

Operators are now facing ever-increasing demands to maintain and operate assets in a safe, reliable, and cost-efficient way. This includes the gathering of Traceable, Verifiable, and Complete (TVC) data associated to a particular pipeline.

As your global service provider, we help pipeline owners overcome these challenges. We tailor our services to preserve the integrity of pipelines and prevent safety and environmental hazards.

Our extensive service portfolio enables us to bundle our services into a unique, single-contractor, turnkey solution contributing to efficient communication, smooth and safe project execution, as well as reduced costs and downtime.

New Pipelines / Construction and Commissioning

Eliminating leaks and other startup problems are the core focus of our integrated industrial and inspection services. Through engineered solutions and streamlined project management we ensure a safe and flawless start up.

From small to large pipeline systems and infrastructure, Intero can support you in reducing project time, risks, and costs by applying innovative chemical cleaning,



flushing, and drying solutions. Our innovative and effective chemical cleaning products prevent costly and environmentally hazardous waste streams.

Performing a baseline inspection right before a pipeline is commissioned for service is becoming more common. Apart from being a quality control step of the manufacturing process, this survey will be very valuable as a reference for future inspection. Intero's high resolution inline inspection tools provide the most accurate data that enables a reliable and true comparison with inspection data during the entire lifecycle of the pipeline.

Leaks are a potential risk for health, safety, and the environment and often occur during pipeline startup. Eliminating leaks and emissions prevents time consuming, costly, unplanned emergency repairs.

Intero is Your Specialist In:

- Pipeline risk and integrity management
- Pipeline leak detection
- Corrosion monitoring
- Inline inspections
- XYZ mapping and depth of cover surveys

Modifications, Maintenance, and Decommissioning

Long-term operation of pipelines causes degradation with the risk of leaks and unplanned events that could ultimately lead to partial or full pipeline shutdown.

Pipelines need to be emptied of product and/or debris before you can modify, inspect, maintain, or decommission them. Pipeline pigging is generally required to execute these activities. Intero has the equipment and the personnel to execute product displacement pigging, drying, mechanical cleaning, chemical cleaning, and gauge pigging.

Inline inspection (intelligent pigging) commonly determines the integrity of a pipeline. Intero is the worldwide specialist for inspecting unpiggable pipelines with complex geometries and access restrictions. We can inspect the most difficult pipelines, providing an integrated, single-contractor solution that includes engineering, installation of launchers and receivers, temporary spool pieces, cleaning operations, delivery of pump and tank capacity, inspection, and reporting.

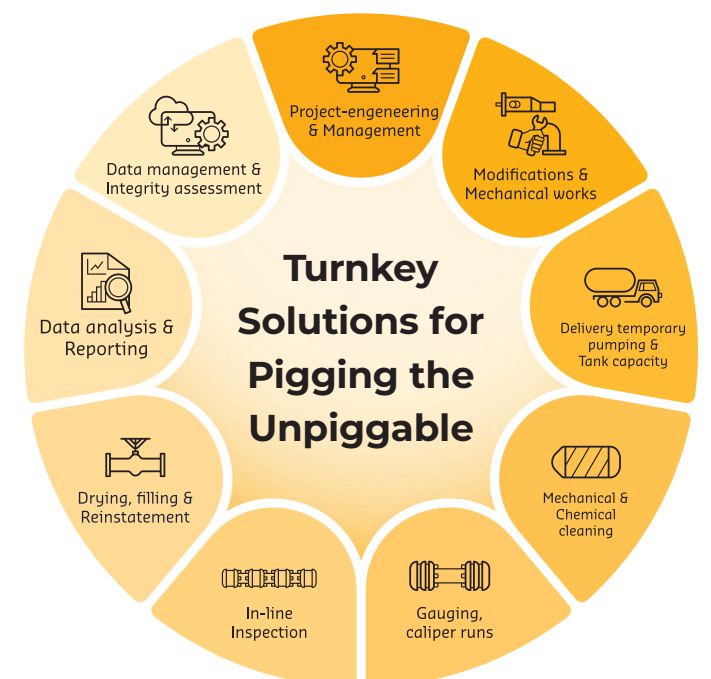
Involve Intero in the early stages of the challenge, and our experienced engineers will help develop the best approach to inspect your pipeline.

Our expertise covers very small (2") to very large (80") diameter pipelines both offshore and onshore. For tank terminals, process installations, or between plant facilities; we provide high-resolution wall thickness data including location and depth information. To support your decision-making process, we can deliver post-inspection assessments like fitness for service or remaining life assessment.

In an increasingly complex and competitive market, we understand that pipeline owners need easy access to a wide range of pipeline-related information for accurate integrity assessment and reliable decision making. Designed and developed by experts, our PRIMS software suite is the most complete set of software products available to manage pipeline risk and integrity. It includes all available data sets and activities during the lifetime of your pipeline infrastructure. This ensures safe, compliant, and efficient pipeline operations.

Detecting and Preventing Leaks / the Common Theme

Leaks in operational pipeline systems need to be detected at the earliest stage possible to avoid uncontrolled emissions, loss of containment, and the release of hazardous petrochemicals. Coating and cathodic protection surveys, managing third-party activities, and right of way management or depth of cover surveys, are part of a well-rounded, pipeline integrity management program. Our pipeline management division has highly trained dogs to locate gas or liquid leaks – even those related to illegal tapping activities – quickly, accurately, and efficiently. Advanced leak detection equipment can also be used to quantify leaks in compliance with voluntary initiatives and upcoming legislation.



Our Services

Condition and Risk Assessment

- Ultrasonic pipeline inspection (inline inspection)
- Magnetic Flux Leakage robotic pipeline inspection (tetherless inline inspection crawler)
- PRIMS - Pipeline Risk and Integrity Management Solution
- Fitness for purpose assessment
- Corrosion growth analysis
- Remaining life assessment
- Pipeline lifecycle assessment
- Risk method modeling
- Determining risk profile: risk probability and consequence
- Regulatory compliance check

Field Surveys

- Inline inspection (ILI)
- Corrosion monitoring - Coating and cathodic protection
- Leak detection, detection of illegal tapping with sniffer dogs
- Localization XYZ - Right of Way and Depth of Cover surveys
- Pipeline leak detection
- Third party activities and interferences

Cleaning Pipelines

- Pipeline pigging
- Purging and drying (nitrogen)
- Chemical cleaning
- Nitrogen sand jetting
- Air blowing

Emission Reduction

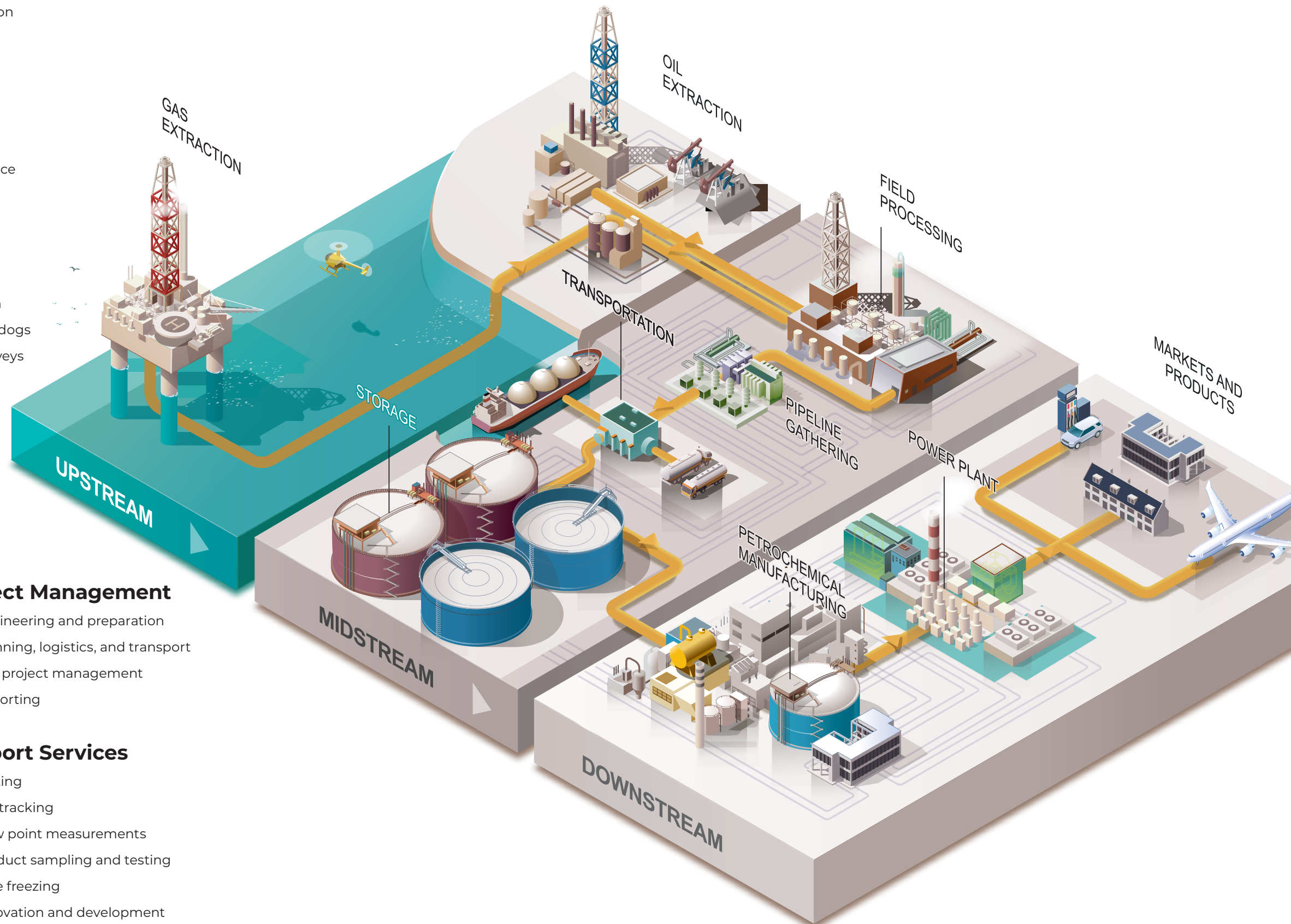
- LDAR - Leak Detection And Repair
- SMART LDAR - Optical Gas Imaging
- Methane emission monitoring
- OGMP 2.0 / EU Methane Regulation compliance program
- Storage tank emission management
- Vent and flare loss monitoring
- Emission management software SFEMP
- Emission management training
- Environmental program development

Project Management

- Engineering and preparation
- Planning, logistics, and transport
- Site project management
- Reporting

Support Services

- Bolting
- Pig tracking
- Dew point measurements
- Product sampling and testing
- Pipe freezing
- Innovation and development





Intero Integrity Services

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Your One-Stop-Shop Throughout All Phases of a Pipeline's Lifecycle

Intero Integrity Services is the leading specialist for keeping complex oil, gas and petrochemical facilities clean, safe, well maintained and highly productive. Our unique range of industrial, inspection, and environmental services maximizes your asset availability.

Turnkey. Innovative. Optimized. We listen to customers constantly, so we understand what's important to them: highest possible performance, protection and predictability.

Ever-evolving solutions

