Asset Integrity Management
Pipeline Integrity Management
Pipelines are a critical element of the onshore and offshore delivery infrastructure. They require an optimised approach to ensure that operational, inspection, maintenance and repair activities are focused on ensuring the availability, reliability and throughput of the pipeline is maximised.

Our approach for both surface and subsea pipelines is based on a combination of performance and risk based methods augmented by our data management and analytics offering. This includes detailed assessment of current condition, performing and quantifying risk analysis, managing and executing required inspections, conducting fitness for service (FFS) analysis and effectively managing all data requirements.

Applications
Our Asset Integrity Management (AIM) group provide a variety of services directly related to pipelines in operation with the ability to provide direct access to our wider Aker Solutions network for support during early design phase into planning, design and construction activities.

- Oil and gas distribution
- Chemicals
- Utilities network

Our Services
Our in-depth knowledge and experience coupled with our duty-holder experience allows us to offer a tailored and scaled approach to pipeline integrity management in the areas of:

- Pipeline Integrity Management Systems (PIMS), strategy and procedure development
- Emergency response support
- Regulatory and legislation support
- Engineering and design services including modifications
- Condition and stability assessment
- Development of maintenance, inspection, operational, monitoring philosophies and strategies using risk based techniques (RBI, FMECA)
- Materials and corrosion support including material selection and degradation mitigation
- Pipeline inspection and maintenance planning
- Inspection management, workpack creation and execution
- Assessment of Fitness for Service (FFS) and Remaining Life (RL)
- Life-extension studies
- Anomaly management and repair strategies
- Assessment of structural integrity
- Seabed intervention design as rectifying actions for subsea pipelines

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Pipeline Flow Assurance

Aker Solutions has the expertise to analyse thermal, hydraulic and production issues arising from design, operation and maintenance over the lifecycle of the field to assure continued safe operations in the field.

- Pipeline design and sizing
- Slugging studies
- Thermal studies
- Artificial lift studies
- Pigging simulations
- Hydrate, wax, scale and corrosion control
- Blowdown studies

Smart, connected systems

We provide our customers a range of proprietary systems and intelligent analytics in support of our Pipeline Integrity Management offering; Coabis™ for inspection and integrity management, Integri-Tech™ for fitness-for-service & lifetime extension, and QVi™ (Quantified Visual Integrity) for collaborative work process integration, optimisation and data visualisation.

These provide our customers with full access to their pipelines data, current condition and performance while providing a comprehensive framework to effectively plan, report and support overall improvement.

We can also work equally effectively within our clients preferred enterprise environment or 3rd party solution.

Benefits

- Cost-effective approach to life-cycle management of pipelines
- Inherent design capability and operational support
- Link to our proprietary inspection technologies
- Proactive approach to risk management
- Data organisation, integration and accessibility

We also provide direct access to the wider range of complementary Aker Solutions Engineering and Technology offerings which can be integrated and bundled directly with our core capabilities.

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