
KAGES
Kenneth Angus Global Energy Services

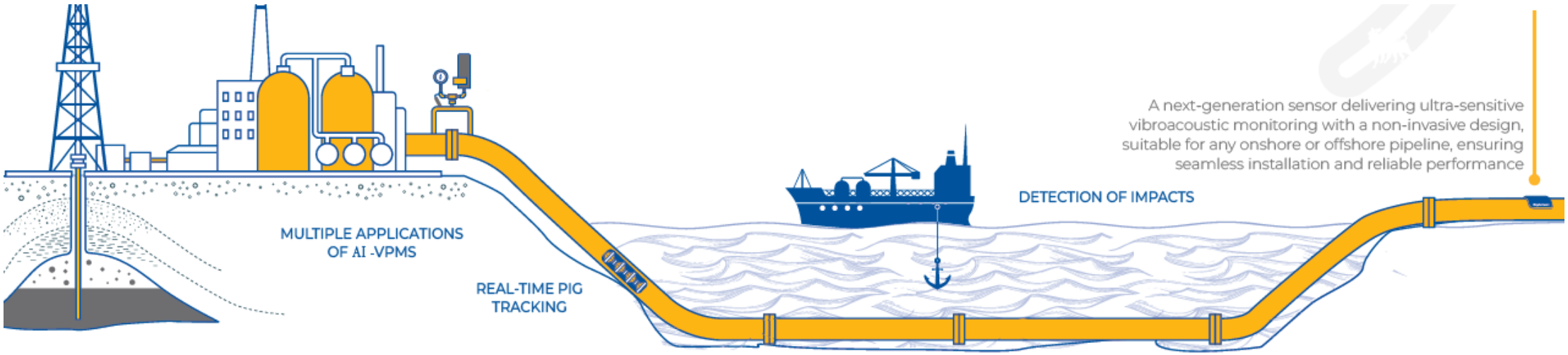
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ELINE INTEGRITY AT THE SPEED OF SOUND

Pipeline Asset Integrity • Continuous Monitoring of Pipeline Corrosion and Leakage • Advanced AI-VPMS Technology (Vibroacoustic Pipeline Monitoring System).

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THE AI-VPMS SYSTEM



THE PROBLEM SOLVER

- Pipelines remain one of the last non-smart elements in the industry, making them vulnerable to threats like theft, damage, and delayed incident detection — all of which can lead to costly repairs, operational inefficiencies, and environmental harm.
- KAGES is changing that with its advanced AI-VPMS (AI Vibroacoustic Pipeline Monitoring System). This innovative technology enables real-time monitoring to detect and prevent risks before a leak occurs, protecting both the environment and critical assets.
- At the forefront of pipeline and asset integrity, KAGES delivers cutting-edge solutions to safeguard the future of energy infrastructure

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ADVANTAGES OF AI-VPMS

- **Powered by Cutting-Edge Vibroacoustic Technology:** AI-VPMS seamlessly integrates micro-vibration, pressure, and sound detection to safeguard your pipelines with industry-leading accuracy.
- **First Line of Defense:** AI-VPMS is more than just a monitoring system: designed to detect, identify, and precisely locate threats, it captures everything from manual digging and illegal tapping to leaks and impacts - before they escalate - all while assisting to limit downtime.
- **Prevention & Intervention:** Whether it's third-party interference, pig tracking or real-time spillage alerts, AI-VPMS delivers a complete solution for both.
- **Built to Evolve:** ensuring pipeline security today and into the future.
- **Product or Service:** Access our technology without the need to purchase sensors. Everything is provided for seamless pipeline monitoring and real-time alerts

ONE TECHNOLOGY, MULTIPLE SOLUTIONS



BEST IN CLASS AI-VPMS

- **Modular & Tailored for your Pipeline:** AI-VPMS Initially built for leak detection, can be scaled for advanced monitoring of TPI events and flow analysis – without requiring a full system replacement.
- **Extensive Coverage with Fewer Sensors:** AI-VPMS With sensor spacing of up to 50 km ensures broad coverage while reducing the number of required sensors.
- **Exceptional Location Accuracy:** Meter-wise accuracy of leak and TPI events.
- **High Sensitivity & Rapid Response:** Wide range of detectable phenomena with the same hardware: detects very small leaks and non-leak events, such as TPI (deforming impact, excavation), and pig tracking with minimal false alarms, delivering real-time monitoring and alarm notifications within minutes.
- **Retrofittable & Flexible:** Easy integration into existing pipelines in both static and dynamic movement

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USER FRIENDLY INTERFACE

- **Instant Alert & Notifications:** Real-time alarms delivered through multiple channels for immediate response to pipeline threats.
- **Multi-Device Access:** Monitor and control from the control room or remotely via mobile and desktop.
- **Data Intelligence & Analytics:** Big data analysis, environmental integration, and smart reporting for better decision-making and detect illegal tapping.
- **Full map & Environment Integration:** Gain complete situational awareness with interactive mapping and environmental monitoring.