

Why Choose AI-4-IA?

- Advanced AI-Based Search & Learning Engines
- Comprehensive Monitoring & Inspection for Industrial Assets
- Reinforced Learning for Predictive Maintenance
- Corrosion Under Insulation (CUI) Detection for Enhanced Asset Health
- Incorporates solutions from multiple providers, for a full and integrated approach to CUI detection.
- Dashboards & Reporting Tools for Real-Time Insights

Key Benefits

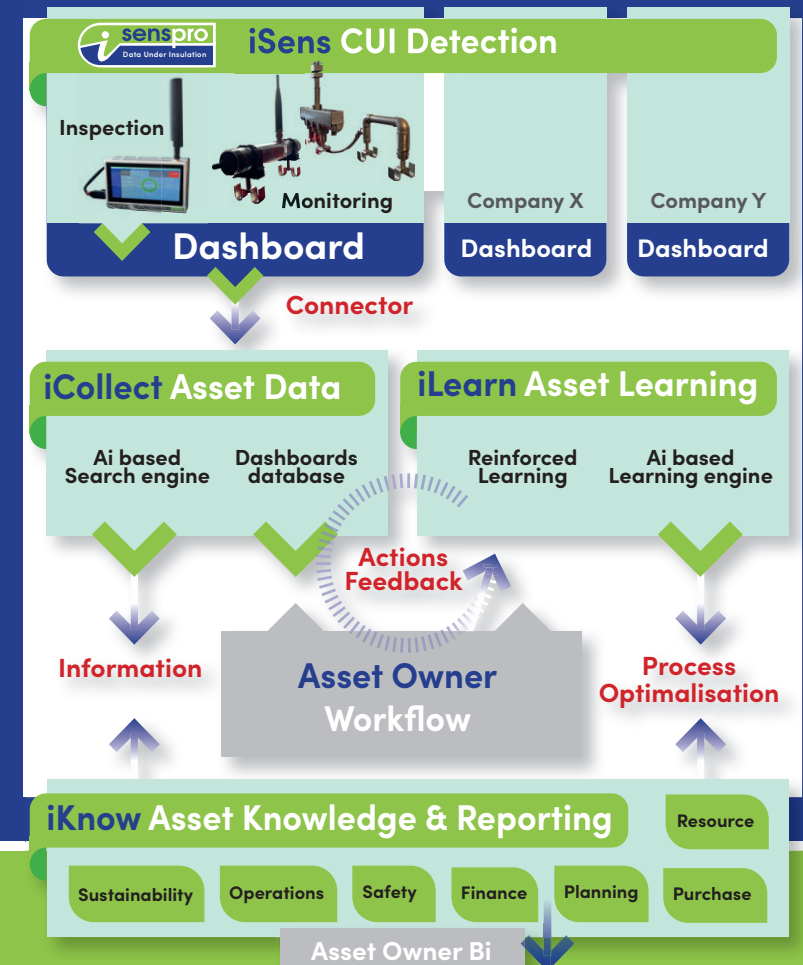
- Enhanced Sustainability & Safety
- Optimized Resource Planning & Workflow
- Early detection & prevention of corrosion risks before it becomes costly failures
- Improved Asset Longevity
- Reduced Operational Costs
- AI supported decisions



Get in touch



What if you could manage CUI before it happens?
What if maintenance was smarter not only scheduled?



AI-4-IA: Smart Infrastructure for Industrial Assets

Corrosion Under Insulation (CUI) is a multi-billion-dollar industry concern, causing asset failures, safety risks, and operational downtime. Traditional inspections often fail to detect early signs of CUI, leading to costly surprises.

AI-4-IA (Artificial Intelligence for Industrial Assets) changes the game by offering continuous monitoring, predictive analytics, and intelligent reporting, empowering our industrial colleagues to take control of asset integrity before failures occur.

iSensPro helps optimize maintenance procedures and take control of CUI, maintenance costs, and asset longevity with AI-driven intelligence.

iSens – CUI Detection

Our advanced sensor technology ensures real-time CUI detection for early risk identification.

- **iSensPro Monitoring** – Fixed ATEX & Non-ATEX sensors for continuous monitoring.
- **iSensPro Inspection** – Handheld sensor for fast and precise inspections of static assets while accurately pinpointing the exact position of each issue.
- **Other monitoring & inspection solutions** – Incorporates solutions from multiple providers, including radiography which detects pipeline wall thickness including Company X & Company Y, for a full and integrated approach to CUI detection.

iCollect – Asset Data

Automated data collection for improved asset performance tracking. Once data is captured, it is aggregated and analyzed in our intelligent iCollect system, which serves as the central hub for asset information.

- **AI-based Search Engine** – A Large Language Model (LLM) enhances the search-ability and interpretation of historical and real-time asset data.
- **Dashboards Database** – Stores CUI data for analysis and reporting.



iLearn –Asset Learning

AI-driven analysis and insights for optimized asset operations and maintenance. When an anomaly is detected, our iLearn platform takes action

- **Workflow Database** – Logs detected issues, recommended actions, and maintenance history.
- **Smart Alarms** – Immediate alerts for maintenance teams.
- **Actionable Recommendations** – Suggested steps like inspecting cladding for moisture entry.
- **Issue Verification** – Confirm findings with handheld sensors for pinpoint accuracy.
- **Smart Feedback Loop** – Log maintenance actions and costs for enhanced predictive accuracy.
- **Reinforced Learning Engine** – Uses machine learning algorithms to optimize inspection & maintenance processes over time.

iKnow – Asset Knowledge & Reporting

Effective decision-making requires actionable insights. iKnow transforms data into customized reports and action plans that align with the specific needs of industrial operators.

- **Financial Insights** – Cost tracking and ROI analysis for maintenance activities helping asset owners make data-driven decisions to optimize spending and increase profitability.
- **Operational Reports** – Performance monitoring and efficiency evaluations ensuring that industrial assets operate at peak efficiency while reducing downtime.
- **Safety & Sustainability Metrics** – Ensuring compliance and reducing environmental impact and improving overall safety standards.
- **Planning** – AI-powered forecasting to help optimize maintenance schedules ensuring timely inspections and proactive interventions that prevent costly failures.
- **Purchase** – Data-driven insights to support procurement decisions ensuring the right materials and resources are acquired only when needed at the time
- **Resource** – Intelligent allocation of workforce and tools to enhance productivity and reduce downtime, ensuring that resources are used effectively to maximize operational efficiency.