Asset Intelligence
Risk-based decisions for optimal planning and operations

Asset Intelligence helps companies lower operating costs, reduce risk and outages, improve regulatory compliance and take control of capital expenditure planning. It analyzes and visualizes asset lifespan and risk, calculates the likelihood and consequence of failure, and simulates the impact of capital spending strategies.

Companies work to optimize large fleets of valuable legacy assets while simultaneously supporting the transition to renewable and distributed energy, unbundled regulatory models, dynamic pricing and digital customer service.

Optimizing asset fleet performance requires an understanding of each asset’s likelihood of failure and the consequences should failure occur. Confidence in those failure projections cannot diminish as the projections move out into the future.

When companies can accurately pinpoint their high-risk assets, they can prioritize maintenance and repair work, confidently justify and allocate their capital spending, and increase their reliability and regulatory compliance.

The comprehensive, real-time view from Asset Intelligence allows companies to align their risk tolerances, business objectives and processes, asset management strategies, and capital investment planning for optimum performance.

The asset analytics and risk scores incorporate characteristics such as statistical and heuristic analysis of asset failures, network connectivity models, sensor data, lab tests, inspection reports, and more to provide actionable insight into the risk level of every asset. This insight improves the speed, quality, and confidence of making decisions.

Why Asset Intelligence

- Increase plan effectiveness - Make more accurate, better-informed and auditable decisions with centralized access to data that is correlated and analyzed across all systems
- Justify investments - Build defensible, data-driven capital forecasts and rates case justifications with comprehensive insight into which assets are most at risk
- Reduce operational costs - Avoid unplanned asset replacements and reduce truck rolls by understanding why, where, and when failures are likely to occur
- Improve safety and reliability - Reduce unplanned outages and the duration of outages by proactively identifying and addressing high-risk assets before they fail
Gain key insights

Asset Intelligence correlates and analyzes data from disparate IT, operations, and external data sources to give utilities a continuous view into asset health, criticality and risk.

Calculating actual asset risk enables predictive analytics that support justifying, planning, and allocating capital expenses.

Nokia’s industry-leading visualizations display analytics in a wide range of intuitive visual formats to provide unique contextual understanding to users across the utility.

<table>
<thead>
<tr>
<th>What you get</th>
<th>How it helps you</th>
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<tbody>
<tr>
<td><strong>Predictive analytics</strong>, including risk scores and survival curves, covering numerous types of assets across 18 classes of conducting assets and 16 classes of non-conducting assets</td>
<td><strong>More accurate long-term operational and financial planning</strong> based on asset life span, risk expectations and completeness of, and confidence in, data</td>
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<td><strong>Modeling and analyzing</strong> all assets and asset classes within a manufacturer’s portfolio, including what-if analysis</td>
<td><strong>Simpler, data-driven rate case and investment justifications</strong> based on true assessment of asset risk</td>
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<td><strong>Asset investment planning, including sustained capital</strong></td>
<td><strong>Capital efficiency</strong> that optimizes spending while driving</td>
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<td><strong>Real-time and historical views</strong> of all data, powered by a patented spatial-temporal-nodal engine</td>
<td><strong>Clear and actionable insight into what, where, why, and when something has happened or might happen, to improve safety, reliability, and regulatory compliance</strong></td>
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<td><strong>Seamless integration and correlation</strong> of data from major asset management systems (IBM Maximo, SAP EAM) with other IT, operational, and external data</td>
<td><strong>Reduced risk of asset failure</strong>, leading to lower liability and higher reliability</td>
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<td><strong>Easy-to-understand operational formats</strong> highlight important data through maps, charts, and other visualization</td>
<td><strong>Faster, simpler decision-making for effective planning</strong></td>
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To find out more about Nokia IoT analytics driven applications, visit https://nokia.ly/IoTapplications.

About Nokia

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From the enabling infrastructure for 5G and the Internet of Things, to emerging applications in digital health, we are shaping the future of technology to transform the human experience. networks.nokia.com

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Nokia Oyj
Karaportti 3
FI-02610 Espoo, Finland
Tel. +358 (0) 10 44 88 000

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