

Solutions for Smart Machines



Ness helps companies identify and execute the best opportunities to use machine-sourced data and the Internet of Things to improve operational efficiency, create new revenue streams, and achieve further precision in quality standards.

Industrial firms are modernizing production, adopting agile management practices, tapping into insights offered by sensor data, and providing new services around products to stay current with Industry 4.0 and Industrial IoT initiatives.

The concept of “Smart Machines” continues to evolve and expand. Almost any machine, such as power turbines, oil rigs, or washing machines, can be connected to networks, passing data that manufacturers and service providers are analyzing and incorporating into their solutions to make them more useful to customers and better differentiated from competitors.



Companies are using Smart Machines to address business challenges, such as:



How are the company’s assets performing, and where can we improve asset efficiency?



What proactive actions can we take to improve product quality and prevent service disruptions?



How can we better route physical assets or service personnel to optimize operations?



How can the company make it easier for users to interact with our products and understand the insights machines provide?



What value-added services can our company offer around the solutions we sell and the data they generate?

The types of solutions Ness enables for clients:

REAL-TIME DATA VISUALIZATION & MACHINE MONITORING

Creating data-based product visualizations and services to enable real-time machine diagnostics and remote service management

CONDITION-BASED MAINTENANCE

Reducing operational costs and downtime by scheduling maintenance only when sensors suggest a machine part meets specified conditions for service or replacement

PREDICTIVE ANALYTICS

Using sensor-generated data to predict potential machine problems and initiate proactive actions to reduce machine failure

NEW INFORMATION-BASED PRODUCTS

Transforming data about products into new revenue streams, such as analyzing machine usage data to provide a service that helps clients reduce power consumption by equipment

Ness work in action:



Ness software engineers and a client's mechanical engineers collaborated to create a **condition-based maintenance application**. The client's inspectors and engineers can view operational data to determine maintenance needs to **sustain machine performance and minimize downtime**.



Ness helped a transportation operator use **GPS positioning data from transit assets** to gather real-time information about transit systems. The operator uses the information to **manage transport systems** and provide passengers with real-time schedule information.



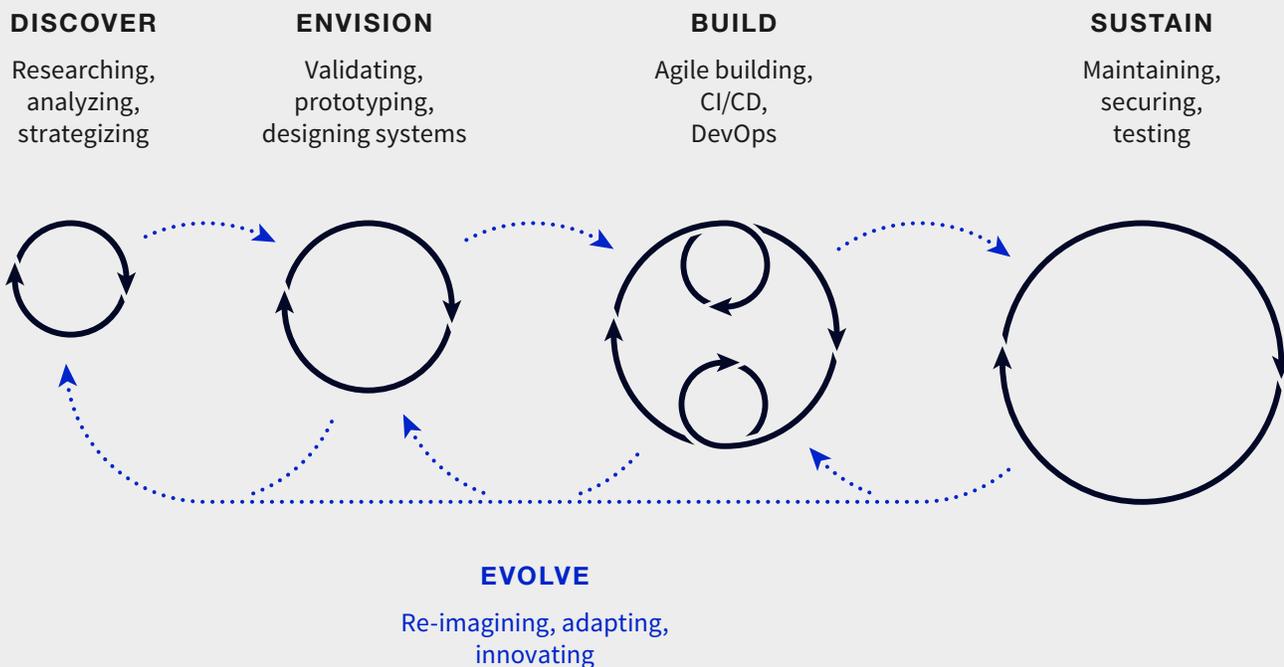
Ness co-developed a fleet management solution with a client. The solution is a **telematics-based platform** that enables the company to track service call cycle time, fuel efficiency and other performance factors to **maximize returns for fleet managers**.

Ness Connected leads to the right solution, faster

How we ensure successful outcomes for our clients: Ness Connected

Our transformational digital engineering framework seamlessly integrates Experience & Process Design, Platform Engineering, and Data Analytics to bring compelling digital products & services to market.

The framework helps companies define and develop the right digital products & services faster to significantly accelerate time to market, improve customer engagement, and reduce business risk.



Ness
Digital
Engineering

For ideas on how your company can achieve its business objectives using digital technologies, contact us: www.ness.com/contact

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