

N-Vision™ with IBM Watson IoT Data Analytics Solution for the Nuclear Industry

Driving Operational Excellence

AREVA and IBM have teamed up to deliver powerful data analytics to the nuclear industry. N-Vision™ is a first-of-a-kind data analytics service utilizing industry-leading business analytics software with IBM Watson IoT. The platform brings together a core set of dynamic capabilities as well as building blocks for new energy predictive analytics applications in one solution. It enables important operational excellence improvements, helping to:

- Increase reliability and avoid costly downtime
- Reduce asset failures and unplanned outages
- Prioritize maintenance expenditures and operations

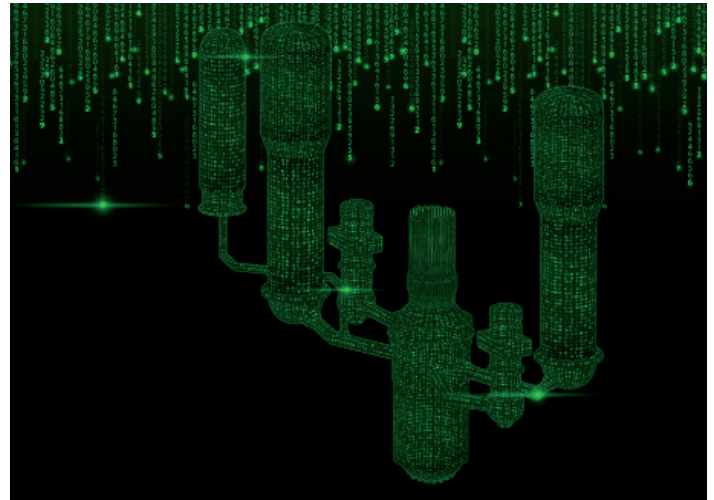
As plants look for ways to optimize maintenance, refurbishment and replacement plans, better predict failures, and fine-tune predictive maintenance, our team stands ready to provide data-driven insight. From asset health management to addressing 10 CFR 50.69, it's all at your fingertips.

In a time of change within our industry, along comes an opportunity for organizations to define the next era of nuclear energy. Accelerating advancements in technology are transforming the way all industries do business. Through its partnership with IBM, AREVA is helping the nuclear industry take advantage of these advancements and the data readily available to their organization to establish a predictive maintenance culture that is fueled by data-driven decisions. We offer the technologies, services and expertise needed to guide your team through this journey and help you in **Delivering the Nuclear Promise®**.

Optimize Your Equipment and Processes

By better understanding equipment/asset performance and preventative maintenance, organizations will be able to:

- Strategically delay unnecessary preventative maintenance without increased risk to plant operations
- Monitor, maintain and optimize equipment for better availability, utilization and performance
- Predict asset failure and identify poor quality parts earlier to better optimize operations and supply chain processes
- Make critical decisions faster and more accurately by combining institutional knowledge and analytics



From Reactive to Proactive

N-Vision allows you to take a proactive approach in your maintenance and operations strategy by gaining an understanding of your asset health and predictive maintenance needs to help prevent asset failures, detect quality issues sooner and improve operational processes.

Our solution can integrate disparate data sources and develop actionable analytic insights across and within business domains. Using advanced analytics, energy and utility companies can turn business challenges into opportunities, driving speed-to-value and real business outcomes.

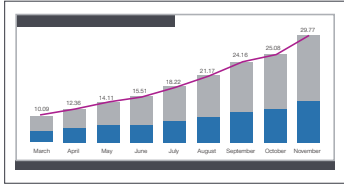
AREVA will work with you to take your plant operations from reactive to proactive by generating insights and recommended next steps that enable organizations to strategically plan maintenance, avoid unnecessary work and help prevent abrupt and costly failures. The solution gives utilities:

- An extensible and scalable foundation that provides a single view of analytics across the enterprise
- Built-in analytic applications for situational awareness, predictive maintenance and asset health and risk consequence analysis
- An open, standards-based platform that enables integration of customized analytics applications

Discovering Insights with Analytics

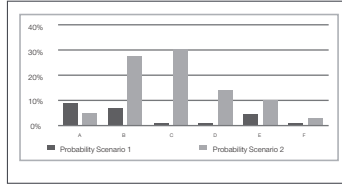
Analytics = Operationalizing Data

Business Intelligence (BI)



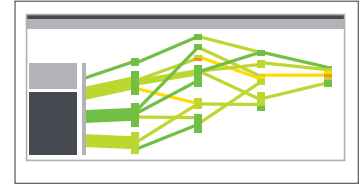
What happened?
When, where and why?
How much?

Advanced, Predictive



What could / will happen?
What will be the impact?

Prescriptive



What are potential scenarios?
What is the best course of action?
How can we pre-empt and mitigate the crisis?

Why AREVA and IBM?

AREVA is a premier nuclear engineering organization with years of industry expertise and knowledge. As an OEM, AREVA works with various equipment suppliers delivering a holistic view of the plant and operations. It also means that we act in your best interest and are looking for a true partnership. In coming together with IBM's market-leading analytics and cognitive portfolio, our two organizations have developed a full set of skills, services and repeatable solutions to accelerate your speed-to-value while leveraging limited engineering and information technology resources.

ACT NOW and who to contact?

AREVA approaches **Delivering the Nuclear Promise**[®] in a consultative manner where we'd like to sit down with you in a half-day workshop to develop a strategy that's right for your organization. Companies are facing this huge initiative with an extremely limited time frame to address it. To accelerate your speed-to-value, AREVA leverages pre-built analytics models and deploys industry subject matter experts, nuclear engineers, data scientists and consultants to take you through the journey.

AREVA Inc.
Corporate Headquarters
7207 IBM Drive
Charlotte, NC 28262

For more information, contact:
Erik Dorman, PMP
Deputy, Products and Engineering
Director, New Technologies
Installed Base Business
Erik.Dorman@areva.com
Phone: 434.832.3602
Mobile: 434.258.6246
areva-np.com

N-Vision is a trademark of AREVA Inc. Delivering the Nuclear Promise is a registered trademark of the Nuclear Energy Institute. The data and information contained herein are provided solely for illustration and informational purposes and create no legal obligations by AREVA. None of the information or data is intended by AREVA to be a representation or a warranty of any kind, expressed or implied, and AREVA assumes no liability for the use of or reliance on any information or data disclosed in this document. ©2017 AREVA Inc. All rights reserved.