INTEGRITY MOBILE

Surpass energy transition challenges with a next-generation mobile application to collect, analyze, and review inspection data in the field.

GE VERNOVA

MEET ENERGY TRANSITION DEMANDS WITH AGILITY AND EFFICIENCY

Asset-intensive firms are confronting the energy transition by seeking smarter, more innovative solutions to achieve digital transformation. While they invest in renewable generation assets for the long term, they also must maintain aging fossil fuel-running assets to be as safe and efficient as possible. As a new generation of employees onboards, this additional process complexity for inspections creates a pressing need for software tools that can speed up the efficiency and productivity of inspectors onsite.
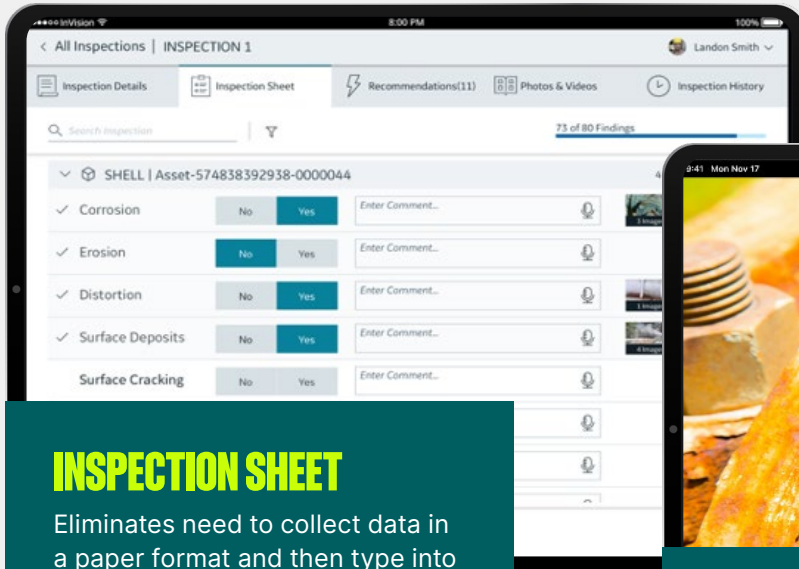
ADDRESSING YOUR MODERN BUSINESS CHALLENGES

Operators have assets within their facility that function under extreme operating conditions resulting in the pressing need to conduct regular physical inspections to capture real-time data. To do so, users inspecting these assets must go into field to inspect and record observations, often in hazardous environments, bringing with them relevant equipment documentation. Field inspections must be made easier, more efficient and contextualized to Operations, and Maintenance activities.
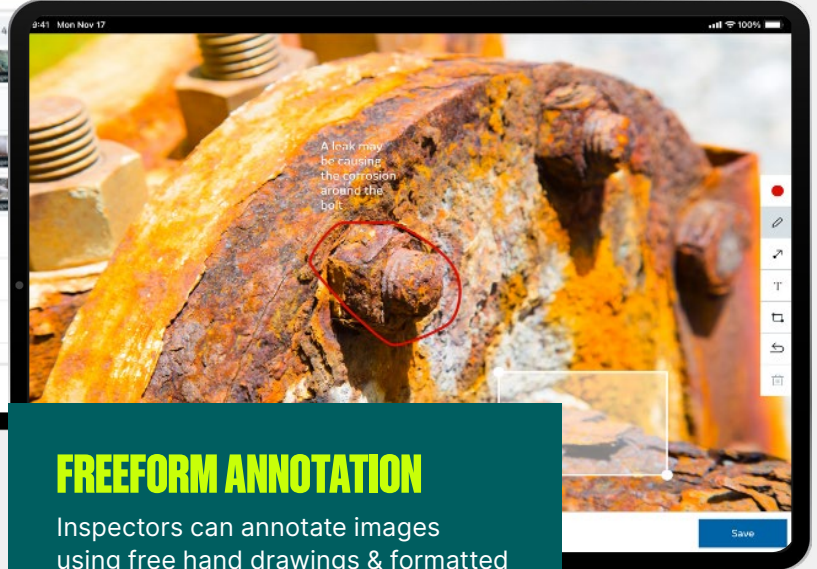
CHALLENGES

- Ease of data collection in the field

- Requirement for inspector to carry documents such as manuals or engineering drawings

- Timely access to important/ relevant information of the asset and greater contextualization of data

- Limited internet connectivity

- Safety in hazardous environments

INSPECTION SHEET

Eliminates need to collect data in a paper format and then type into a desktop application. Directly sync information to APM database.

FREEFORM ANNOTATION

Inspectors can annotate images using free hand drawings & formatted text for critical assets in the field and generate recommendations.

INTEGRITY MOBILE IMPROVES YOUR INSPECTION EFFICIENCY AND OUTCOMES

Integrity Mobile is a mobile application within GE Vernova's Mechanical Integrity Application that helps optimize inspectors' efficiency by digitalizing and streamlining the process of data collection in the field. With Integrity Mobile, inspectors and field employees can log inspections, manage inspection tasks, complete inspection reports, capture and annotate images, and create recommendations on a mobile device both in online and off-line modes.

NOTE: Integrity Mobile is an add-on for the Inspection Management (IM) Module in GE Vernova's APM Mechanical Integrity Application

FEATURES:

- Rich and intuitive mobile user experience
- Built using Microsoft's Xamarin platform (.NET & XMAL) and supported across major platforms like iOS and Android
- Unified View: All relevant information like inspection details, scope, history, and images will be available at one single location
- Schematic visualization of scope of work: View the scope of inspection in an image or equipment drawing that will provide a better clarity on inspection requirements
- Image tagging and annotation: Enables users to annotate the critical sections of an asset and capture real-time observations
- Offline data collection: Users will be able to execute above capabilities in a mobile or tablet while in offline mode
- Supports smaller-form factors (mobile phone)

INTEGRITY MOBILE FUNCTIONALITY

Mobile Application

- Log in screen
- User preferences

View Inspection Task

- Ability to view planned work
- Shows a list of inspection tasks within time frame of 1 year
- Configurable query
- Ability to create inspection

View Inspection

- Ability to list inspections by Inspection owner or Team Member
- Configurable query
- Standard result grid controls
- Navigate to the individual inspection event
- Column chooser

Mobile UX for Single Inspection Event

- Contain 4 tabs (Inspection details, Inspection sheet, Recommendations, Inspection History)
- Inspection sheet will contain findings and any related sub-inspections
- Accordion design for easy navigation
- Ability to search
- Ability to click and view images as thumbnails

Annotation of Images from Mobile

- Ability to annotate images
- Free-hand drawing
- Text mark-up
- Add shapes (arrows, squares, etc.)

APM SUITE

GE Vernova's APM increases asset reliability and availability while optimizing maintenance costs, mitigating operational risks, and reducing total cost of ownership (TCO). The software connects disparate data sources and uses advanced analytics to turn data into actionable insights while fostering collaboration and knowledge-management across the organization. Available on premises or in the cloud, APM works across all equipment, all OEMs, and all industries, across the plant, and across the fleet.

APM Health
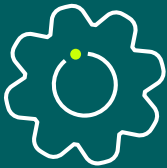
Unified view of assets' current state and health

- Rounds / Rounds Pro
- eLogs
- Health manager
- Calibration management

APM Reliability

Predicting equipment issues

- Reliability analytics
- Root cause analysis
- Performance Intelligence
- Thermal Performance and Economic Advisory
- SmartSignal
- Predictive diagnostics
- Digital twin blueprints

APM Strategy

Reduce risk and optimize life cycle cost

- RCM/FMEA
- Strategy management
- Strategy optimization
- Strategy implementation
- Lifecycle cost analysis

APM Integrity

Helping to keep facilities contained and compliant

- Compliance management
- Inspection management
- Thickness monitoring
- Risk based inspection

APM Safety

Reduce hazards risk within industrial processes

- Hazard analysis
- SIS management
- Management of change

APM Foundation / Essentials

IT/OT Connectivity and Integration

- EAM systems
- HMI/SCADA, Historian, MES systems
- Edge OT connectivity and analytics
- GIS systems

Data Management and Processing

- Common asset model (or) hierarchy
- Analytics management and execution*
- Infrastructure Data Fabric*
- Policy designer
- End-to-end security

Monitoring, Analysis, and Event Management

- Advanced Visualization*
- Dashboards, interactive data analysis
- Criticality, alerts, cases, recommendations
- HMI visualizations and alarms*

*Cloud only

verdantix

VERDANTIX GREEN QUADRANT: APM SOLUTIONS 2022

GE Vernova APM is recognized as an Integrity Management leader.

Read more ▶

EXPLORE THE BENEFITS OF APM

- Improves reliability, availability, and productivity
- Optimizes maintenance costs
- Mitigates risk
- Maintains technical expertise (industry and organizational knowledge)
- Delivers continuous improvement

Learn more ▶

IT'S TIME TO OPTIMIZE YOUR MECHANICAL INTEGRITY PROGRAM

Reduce risk, lower inspections costs, and improve employee productivity.

Get started ▶

BOOK A DEMO

Check out our new interactive demo. Follow a reliability manager and his team of RBI analysts, inspectors, and corrosion analysts as they use the Mechanical Integrity application to mitigate risks and costs associated with a FCC unit.

Book now ▶