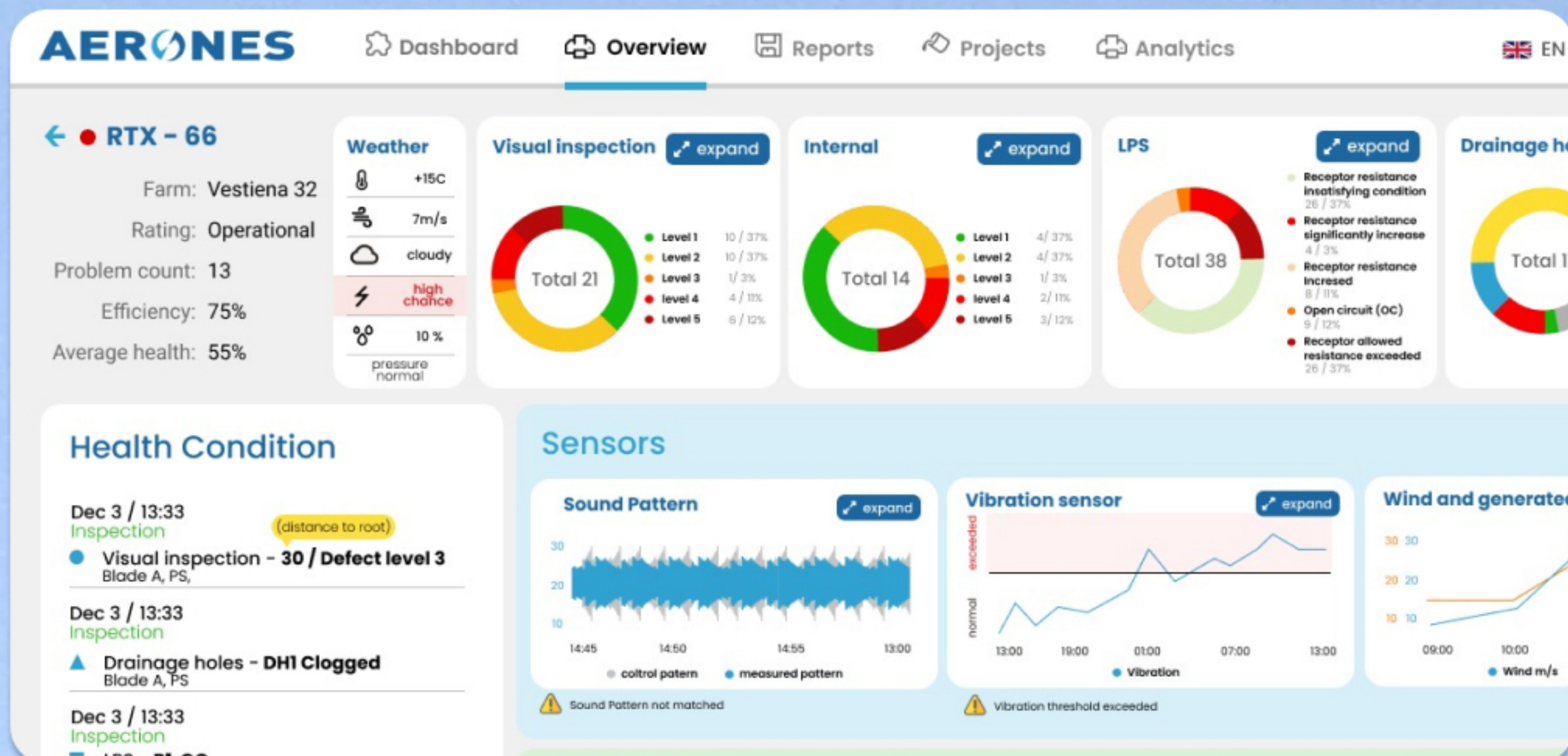


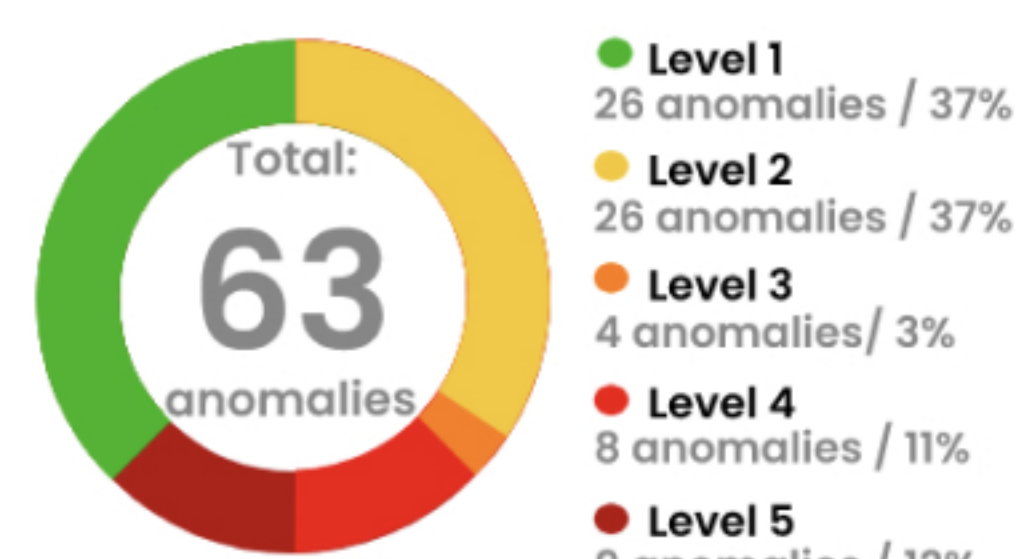
Aerones Client Platform

Advanced wind asset analysis and management



Convenient **data exploration platform** of Aerones inspection services for intelligent reporting with damage categorization.

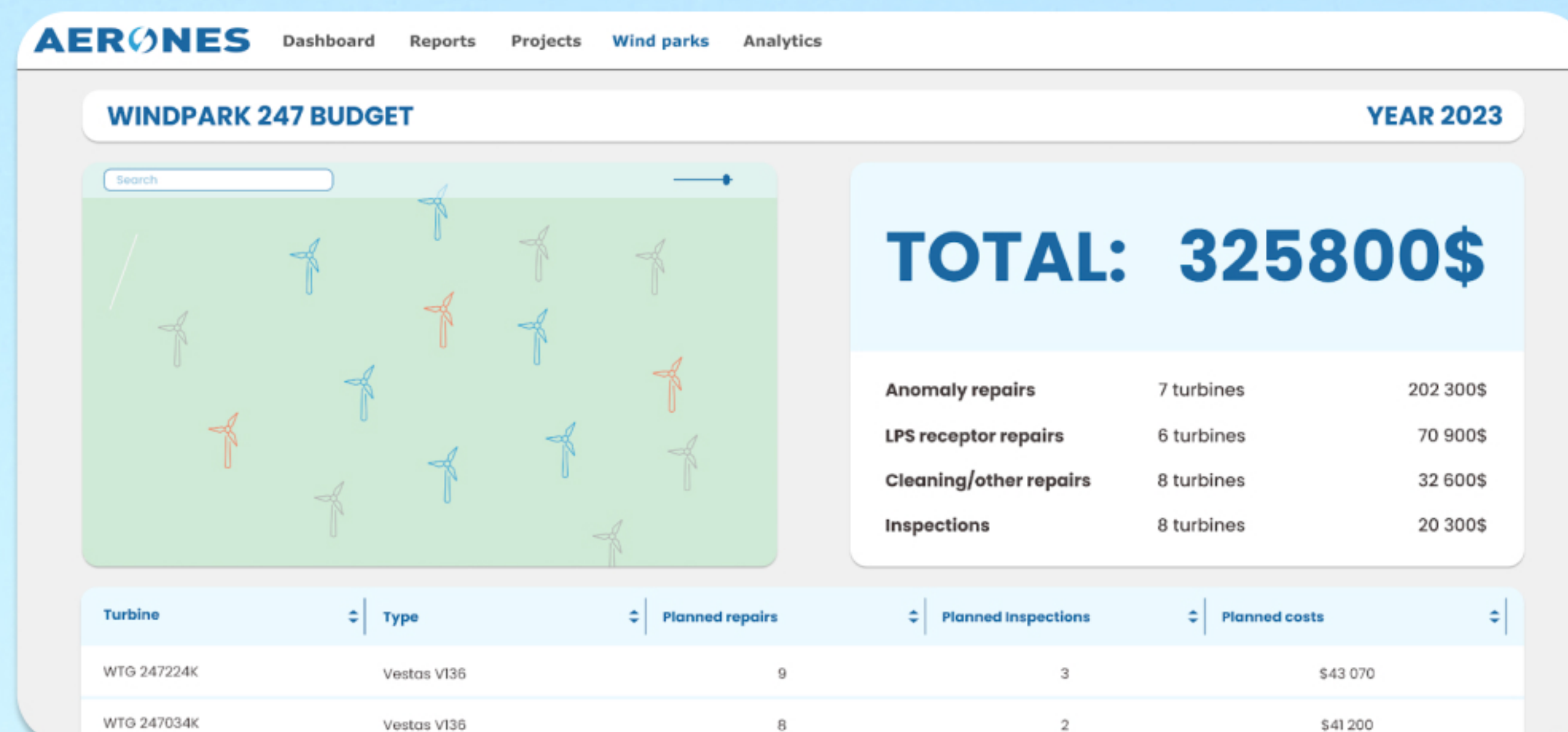
Severity statistics



Anomaly type



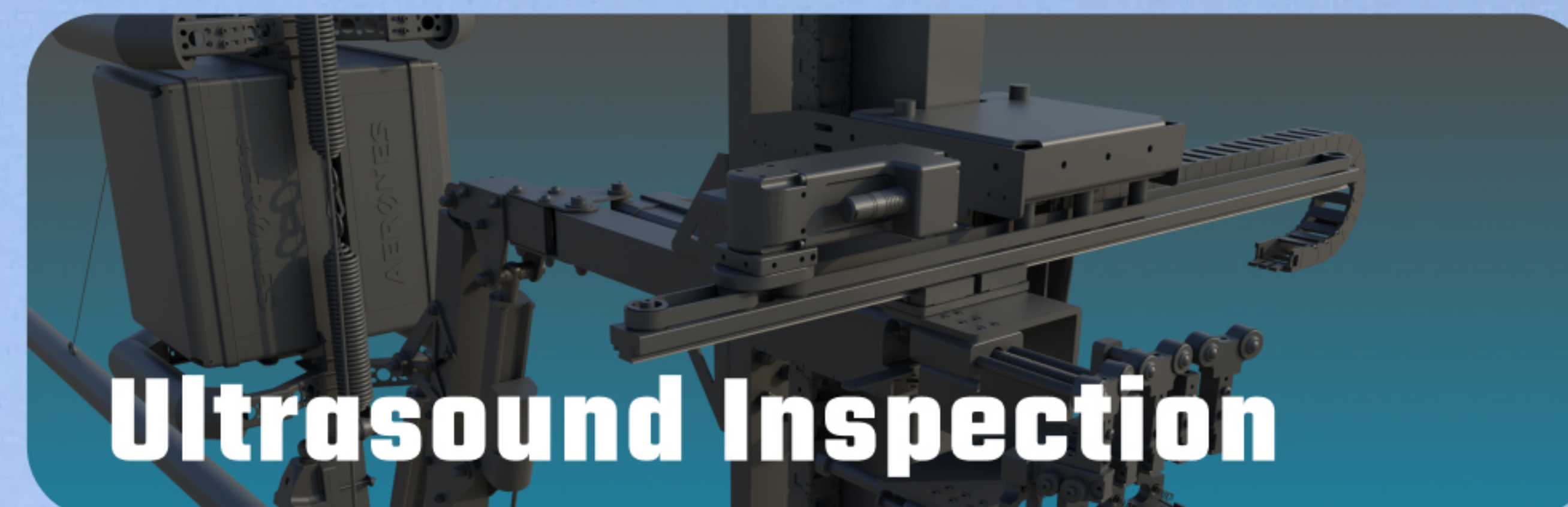
Analyze results from wind turbine visual inspections, lightning protection system tests, ultrasonic scanning, and sensors readings.



Approach maintenance operations smarter with a built-in budgeting tool, calculator, service planning, and tracking.

Under Development

Aerones is constantly working on bringing new innovative solutions for wind turbine maintenance needs. Follow our social media profiles to be notified first.



Ultrasound Inspection



Offshore Solution



Crack Repair

About Aerones

Aerones is the **world leader in Robotic Wind Turbine Inspection and Maintenance Services**. Using a unique patented robotic system, crucial **tasks are performed 3-6 times faster with ten times less idle stay days** than conventional methods. Utilizing new technologies is critical to increasing wind energy's efficiency and accessibility as the size and needs of wind assets grow.



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AERONES

Robotic Wind Turbine Inspection and Maintenance Services



Lightning Protection System Conductivity Test

Fast and precise LPS inspection, full circuit high-voltage testing, wire damage scanning and oxide cure. Includes troubleshooting:

- Full circuit for blade only
- Oxidation search and removal without opening the blades
- In case of down conductor damage, robot locates the exact gap location for further repairs

This service includes cleaning drainage holes to remove excess condensation water from blades that could otherwise deform or explode.

Blade Internal Inspection

Best method to find internal cracks, structural damage, delamination and other issues. Radio controlled crawler with interactive 360-HD video, directional camera and LIDAR scanner that provides accurate measurement features.



Visual Inspections

Zero Downtime Camera

Sharp and precise image capture of wind turbine blades using laser technology and a rotating camera. Receive insightful visual data without stopping the turbine.

Drone Inspections

Closeup images of wind turbine blades in high definition quality during the downtime of the turbine. All visual inspection data available to analyze in the Aeronex client platform.

Blade Cleaning

Dirt, algae and resin create a rough blade surface and negatively affect the airflow. Dirty blades can result in a loss of annual energy production of up to 7%. Aeronex cleaning robot removes all dirt quickly and effectively.



Tower Cleaning

Oil spills on towers are an unpleasant hazard. Not only it ruins the appearance but it also poses risk of soil pollution.

Unique robotic tower cleaning system works with biodegradable detergent and filtering system to ensure highest quality work without any spillage.



Overall Visual Inspection +Digital Twin

Overall inspection

Aeronex technician performing technical checkup in a specialised app to cater for the legal requirements of wind turbine owners.

Digital twin

Smart inspection data is used to build a digital copy of the wind turbine for a much sophisticated approach to wind asset monitoring and maintenance.

Ice-Phobic Coating

Aeronex robotic coating technology offers fast, high-quality layering without endangering people. Robot can apply ice-phobic coatings to prevent ice accumulation, erosion-proof coatings, or paint.

Leading Edge Repair

Robotics are revolutionizing wind turbine blade repair. Using the modular system, you can sand, clean, remove worn out protection tape and apply promoter to prepare the blade surface. Afterward, the robot applies filler and protective coatings to complete erosion repairs.

Repair steps

Sanding

Preparing blade surface for further work by sanding

1



Cleaning

Surface decontamination after sanding. Removing all excess dust from blade surface for best results

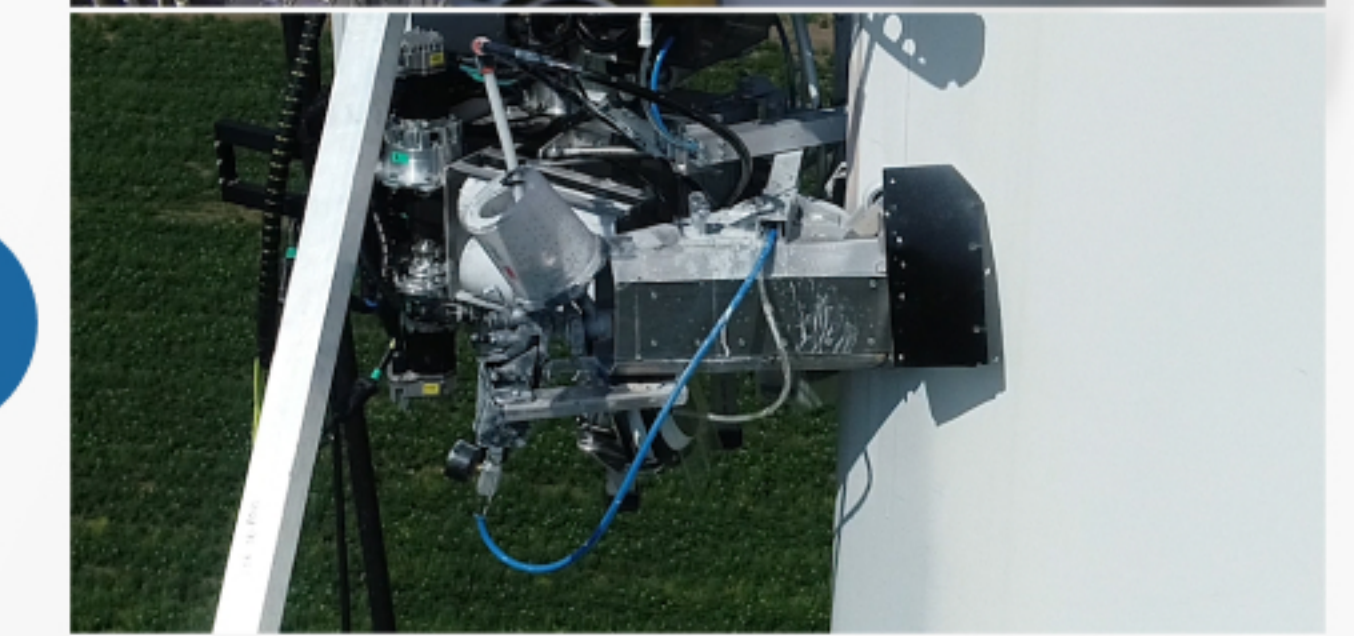
2



Promoter application

Applying promoter to increase adhesive strength between blade and the filler

3



Filler application

Filling in all the surface imperfections and damaged areas

4



Repeated sanding and cleaning

Sanding to remove any surface imperfections and cleaning afterwards to remove all dust.

5



Coating application

Finishing it all off with a fresh new layer of coating

6

