



Case Study: Nissan (Globally)

Challenges

Nissan manufactures vehicles in 20 countries and areas around the world, including Japan, USA, Russia and the UK. Its global vehicle production volume exceeded 5.6 million in 2016, with products and services provided in more than 160 countries.

With an abundance of data and insufficient skilled resources to perform analysis, Nissan were keen to expand the benefits of using data to influence maintenance. It decided to embark on a Condition Based maintenance programme to reduce production downtime by up to 50% across thousands of diverse assets. It was attracted to Senseye by its strong prognostics offering underpinned by machine learning.

“Senseye is supporting our Predictive Maintenance programme across multiple production facilities and has helped us lower overall downtime and increase OEE.”

Damian Wheeler, Nissan UK Engineering Director

Solution

Senseye is providing Predictive Maintenance capability across multiple Nissan global production sites where models such as the Qashqai, X-Trail, Leaf and Infiniti are produced. 9,000 connected assets and more than 30 different machine types including robots, conveyors, drop lifters, pumps, motors and press/stamping machines are remotely monitored using Senseye's proprietary machine learning algorithms. More than 400 maintenance users actively use Senseye to optimize maintenance activities and make repairs months before predicted machine failure.

Outcomes

- Multi-million dollars of unplanned downtime saved to date
- Rapid Return on Investment of less than 3 months
- 2 weeks to 6 months advance warning of asset failure
- Year-on-year OEE improvements