## TRACTIAN Solutions at SWARCO: An Auto-Diagnosis Impact And Results Study

KEY FINDINGS

Saving

468% in 12 months

In the case that something develops, this system has alerted us, and we jump on it. From a maintenance standpoint, it gives us a lot more transparency to our machinery.



Walt Harrison Control & Automations Engineer

Swarco

SWARCO Is a leading provider of road markings, and other traffic solutions that help drive safety through technological advances. The traffic technology group is constantly thinking ahead, even producing glass beads that can also be detected on the road by autonomous and automated vehicles.

### Challenge

- High costs on unplanned downtime
- 24/7 operation is tough on the machines
- Every asset is critical. If one asset goes down, the line stops
- New facility with no current predictive maintenance

### Solution

- Fault-finding tool for automatic failure detection
- Al-powered algorithms prescribe actions to be taken, preventing downtime
- Increase in asset availability, generating cost savings and ROI



### PROJECT NUMBERS

45+ critical assets monitored by Smart Trac sensor



40+ Faults Detected through Self-Diagnosis



350K+ Data Samples

# Glass Bead & Traffic Technology Operational Challenges

SWARCO utilizes the largest direct melter in America to help make their unique glass beads. Their new plant has the only melter of its type. The downside of this unique melter is that a lot of their spare parts are not available in the US. If something breaks, it could take up to 6 months to get the parts from overseas. TRACTIAN stepped in to guarantee accurate machine health information on all their assets, so unplanned downtime can become an issue of the past.

Types of Assets: Fans, Conveyor Belts, Pumps, Air Compressors, and related equipment.

If a critical asset fails: Sunk Cost of \$28,000 perday

"We are a 24-hour operation. Running 24/7 is hard on equipment. It's also a harsh environment, so maintenance is top priority."

#### Walt Harrison

Controls & Automation Engineer

### Identified Failures

#### Unbalance Problem Identified by Al

Asset: Furnace 1 MR ELEV Solution: Vibration Monitoring Saving: Avoided Furnace Failure





At SWARCO, if one asset goes down, it could cause a complete line stop. TRACTIAN was able to catch this unbalance and let the SWARCO team know ahead of a failure. The condition-based monitoring solution also provided possible causes and a detailed guide of instructions on what to inspect to resolve the unbalance.

With the self-diagnosis data and timeline provided by TRACTIAN, SWARCO was able to look into implementing new preventive maintenance to prevent similar issues like this from coming up in the future.