

Quarry Digitization

Connect Site Data to Smarter Decisions

Quarry digitization uses digital tools to collect, organize and share information from mobile equipment, fixed plants and site activities. It gives operators, maintenance personnel and quarry managers a consistent operating record they can use to monitor conditions, coordinate work and make timely and more informed decisions.



1 CAPTURE THE RIGHT DATA

Different areas of a quarry generate different types of operational data. Bringing this information together gives quarry personnel a more complete view of how the operation is performing.



Fleet Performance

Use telematics to track payload, haul cycle time, idle time, fuel consumption and equipment utilization. These readings can reveal queuing, underloading or equipment mismatch in the load-and-haul cycle.



Plant Condition

Use sensors to monitor vibration, bearing temperature, motor load and conveyor belt alignment. Connected equipment can help identifying developing problems earlier through remote diagnostics, supporting predictive maintenance and reducing unplanned downtime.



Inspections and Maintenance

Complete inspections digitally and record defects, photos, maintenance history and work orders. Connected equipment can provide quicker access to manuals, service records and spare parts information, helping speed up fault finding, troubleshooting and maintenance response.



Safety and Environment

Record hazards, incidents, proximity alerts, dust and noise levels, supporting photos, and corrective actions. Include the date, location and responsible person to ensure each item receives documented follow-up.



Production Data

Track plant run time, downtime, throughput, belt scale totals and stockpile volumes. Add gradation or moisture results where required to connect production output with product quality.

2 TURN DATA INTO ACTION

Quarry data has value when it highlights what requires attention, reaches the responsible person and leads to a documented response.



Identify

Flag abnormal readings or recurring issues



Assign

Send an inspection or work order



Close Out

Record the action and final status

3 TEST BEFORE EXPANDING

Begin with one measurable problem. Test the technology on a limited part of the operation, evaluate the result and expand only where it provides a practical benefit.



Define

Choose one measurable problem



Trial

Test one process and compare results



Expand

Expand only after results improve