Three Key Functions



Fleet Management

- > 24/7 real-time monitoring
- > sensor data analysis & diagnostics
- > proactive support

Shipment & Production

- > automatic recognition of truck's specification
- > measuring payload by loader weighing
- > truck's guide to the location
- > GSP displayed equipment's location
- > production/operation status monitoring
- > inventory management

Safety

- > time and location notification
- > mark of all the routes
- > speed limit alarm COVER

Powered by Innovation

Quarry-X Overview

1 Unmanned Access Control System

- Recognition of Entering/Exiting vehicle using surveillance camera
- Managing the Entry/Exit of the vehicle that has been already registered or recognized

2 Truck Driver's Mobile App

- > Provide loading information(Location/Route)
- > Weighing information and Work History
- > Safety Precaution Alarm (Blast Plans/Location)

3 Wheel Loader Operator's Mobile App

- > Provide loading information(Location/Route)
- > Information on Start/End of the Loading Procedures
- > Weighing information and Work History
- > Safety Precaution Alarm (Blast Plans/Location)

4 Field Manager's Mobile App

- > Safety Management
- > Integration with Order/Shipping system

5 Integrated Control Center

- > Map Information(Hazardous Zone/Blast Location)
- > Work Plan Information (Loading/Excavation/Blast)
- > Fleet Management (Indicator/Faults/Operation/ Loading)
- Real time footage and the location of surveillance camera
- > Shipment/Production/Inventory Status

6 Excavator Operator's Mobile App

- > Excavation Orders (Excavation Area/Plans)
- Information on Start/End of the Excavating Procedures
- > Safety Precaution Alarm (Blast Plans/Location)

7 Drone Scanning

Real time viewing and analysis of changes in topographical features due to blasting and excavation by using Drones

DEVELON

Quarry-X



DEVELON Quarry-X

Quarry-X refers to a solution that integrates all business processes from order taking to sales using ICT technology to manage the site and increase productivity with minimal cost and time.



Cloud Platform manufacturing, computer integrated manufacturing CIM, supply chain management, safety).



> Cyber Physical programmable logic controller (PLC), Interface (HMI), Sensor, Remote Control, IP camera.



> AI drone automation, truck automation, wheel loader automation, excavator automation.

Develon Quarry-X aims to address various customer needs through providing services that supports the Shipment, Production, Safety, and Fleet management of Quarry sites using Smart CE features.

- Reduce machine downtime
- > Efficient load work management
- > Prevent unexpected accidents





Shipment

> Management service that connects equipment and field offices.

Production

> Intelligentproduction forecasting and inventory management service.

Equipment

> Predictive maintenance service through 24hour diagnosis.

Operator

> Operator's safety, health, and working time management service.

Safety

> Hazard warning service based on real time location.

