Warning System
For Quarries And Mines

Monitorring System and Sensors

The monitoring station gathers sensor data and transmits it to the control centre, mobile devices, or directly triggers electronic sirens, PA systems, and visual alerts. It enables proactive response to risks such as landslides, poor air quality, fires, seismic events, and dam failures.

Control Center

The control centre, equipped with SenkenTech control software, collects and analyzes data from sensors and monitoring stations with high security and backup protection. It enables scenario-based configuration to respond to developing threats, alert personnel of potential floods, issue preventive warnings, or automatically activate sirens in emergencies.

The Electronic Sirens

The sirens automatically issue warnings based on critical sensor data, covering entire endangered areas, including mine sites and nearby communities. They provide rapid alerts with clear voice guidance for evacuation and rescue, operating independently and optionally powered by solar panels.

Communication Infrastructure

The communications infrastructure enables instant connectivity between the control centre and all monitoring, warning, and notification components via digital or analogue radio, TCP/IP, GPRS, or short-range wireless links. It also supports seamless integration with third-party systems for full interoperability.
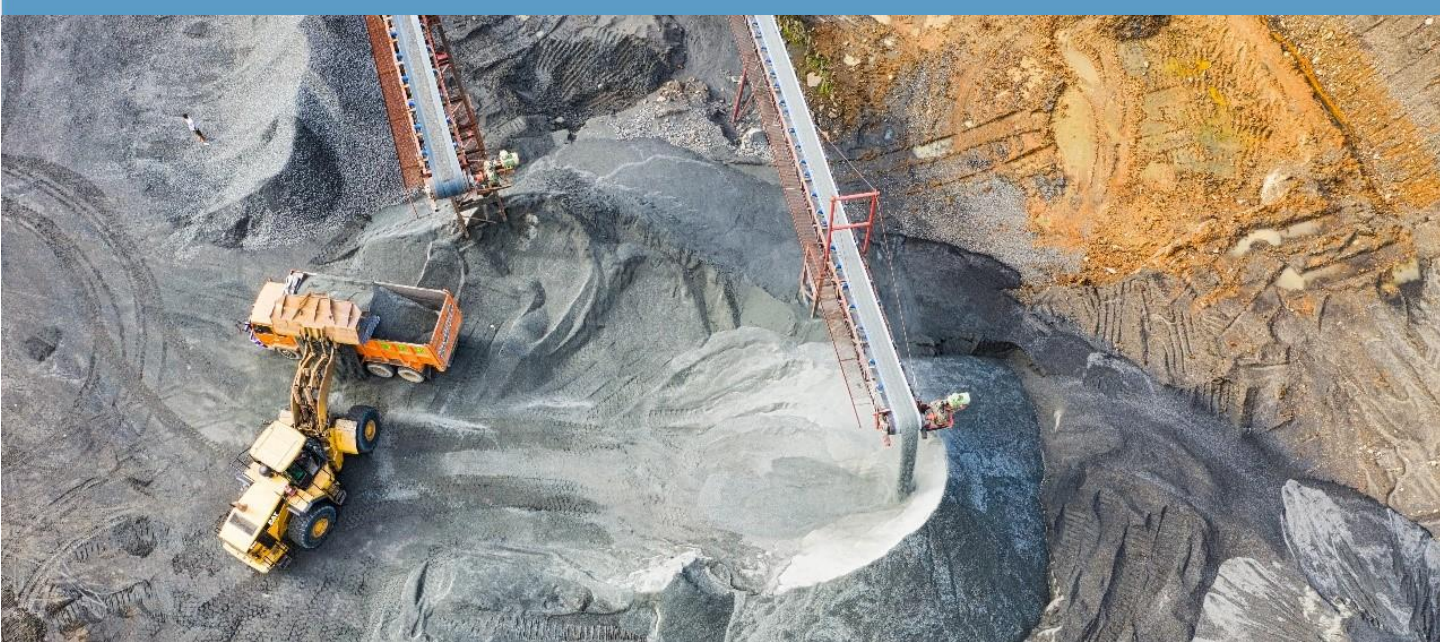
Responsible Persons/Responders

1. Notifies users of an emergency situation via phone call or text message.
2. Enables personnel to be urgently summoned to offices or dispatched to rescue operations.

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Advantage of Senken Tech's Solution

1. The powerful sound of the sirens cuts through heavy machinery noise, ensuring that workers and residents are promptly alerted to imminent threats such as landslides, explosions, or dam failures.

2. Integration with third-party detection systems enables immediate activation of warnings when hazards are detected, ensuring rapid response to unforeseen events and minimizing loss of life and property damage.

3. The entire system is managed from a central control centre powered by advanced SenkenTech software, enabling real-time device monitoring, efficient system management, and coordinated evacuation operations.

4. The sirens integrate with external detection systems, allowing immediate activation of warnings during sudden incidents, enhancing the safety of people and protection of property.

Delivers notifications through visual signals and sound alarms.

Ensures response within the pre-set time of operational personnel.

Enables automatic activation of electronic sirens and notifications.

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