Mining

The history of mining is rich and complicated. Mining has led to great advancements for society since civilization began to uncover substances found in the earth, but the dangers of mining have also resulted in deaths of many workers. In today's technologically-advanced society, mining techniques are always improving, even as they still use heavy machinery, such as explosives. There are many challenges within this industry that Agile helps to improve and solve. Safety, cost efficiency, security and optimization of productivity are tackled and improved with the variations of Agile's **CORE**. To start, the future is here with becoming a wireless operation that can execute direction precisely in many different aspects of safety and economics.

Currently, the mining industry is restricted in limitations because the blasting devices, whether surface mining or sub-surface mining, are connected via wires. The challenge in this mode of operation is sequential, meaning one addressable blasting machine at a time. Safety is the biggest challenge of sequential

detonation, alongside with the economic aspect. Another challenge on current equipment's is the remote control, which has limited display and readout capacity, regarding safety monitoring.

Agile's **CORE**, and it's many variations in product, is a secured and agnostic communications hub that provides LTE, Wi-Fi, MMS, SMS, Voice, Real-time Video, and GPS all installed collectively, providing the future of the mining industry of wire-free operations. **CORE** also provides interoperable communications between radio to radio, and radio to cellular. All means of communications will become interoperable, regardless of hardware and software, giving complete control to the company. The blasting machine/detonation devices will be connected via Wi-Fi to Agile's **CORE**, creating a mesh network that extends the range of operation dependent on how large the mesh network is created. This Wi-fi technology will allow the interface controller to be a PC or tablet application, which would streamline the development effort and improve overall safety and precision of the project.

Optimization is key to enhancing your business and productivity.
There are many benefits earned with a wire-free futuristic approach.

- Set-up time is much faster
- Remotely detonate with larger area covered
- Safety, due to less Human interaction with devices
- Man-power reduced, resulting in economical savings to company
- Down-time reduced
- Communication capability even in Dead-zones

- Real-time Analytics compiled, shared and reported back to command center
- GPS; Real Time Kinematics (RTK) figured out down to millimeter forecasting
- Safety and Security; encryption to **CORE** is unique and cannot be compromised
  - » Similar to parental control, the command center of your **CORE** is remotely controlled, allowing who has access and who is locked out.

In the earliest days, mining was slow-going and dangerous, executing trial and error resulting in hazardous situations. More efficient machinery can now be used to reduce energy consumption and to improve the efficiency to advancements that become more accurate and precise. Agile's **CORE** state-of-the-art

technology allows your mining business to operate economically, but more importantly, with the power of safety protection for your employee's and the security behind our encryption. Are you ready for the future?

WE ARE AGILE

We engineer the hardware. We design the software. We build the solution.