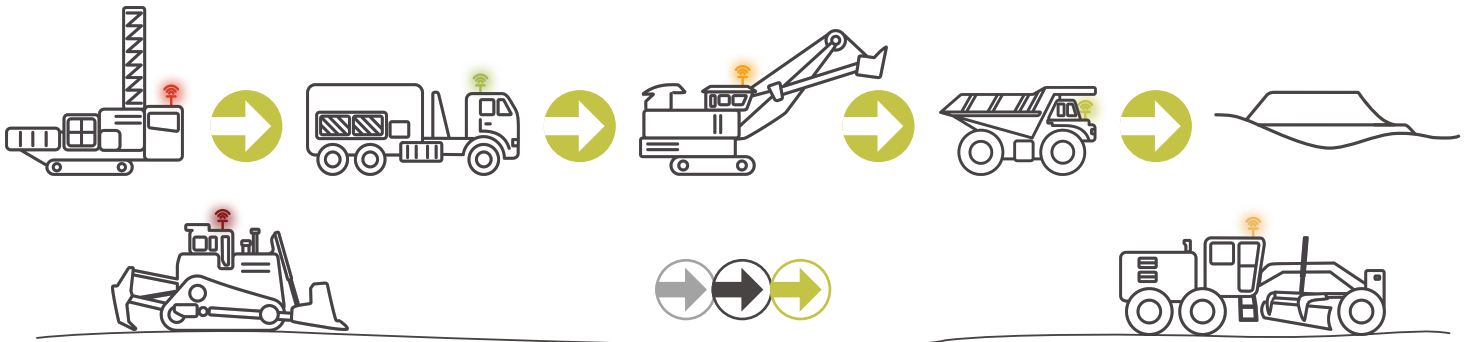


GEOWLAN: WIRELESS NETWORK PERFORMANCE MONITORING SYSTEM



GEOWLAN – collects and displays information about the operation of the wireless data network in real time

CORE GEOWLAN FUNCTIONALITY

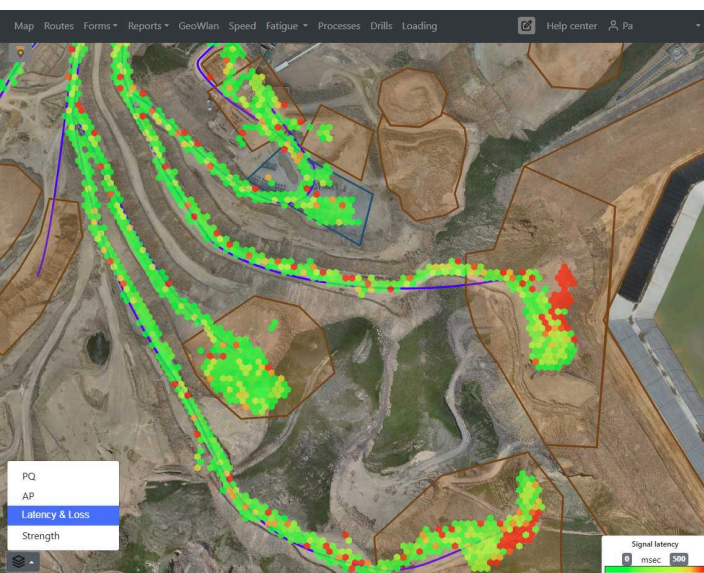
- ➔ Automatic collection of wireless network performance metrics in real time
- ➔ Buffering of data on equipment when there is no connection for transmission once communication is restored
- ➔ Support for local pit coordinates and DXF files
- ➔ Integration with the reporting systems



COVERAGE HEATMAP

Allows identification of problematic areas of the pit in real time based on the CCQ (Client Connection Quality) metric and recorded cases of connection loss.

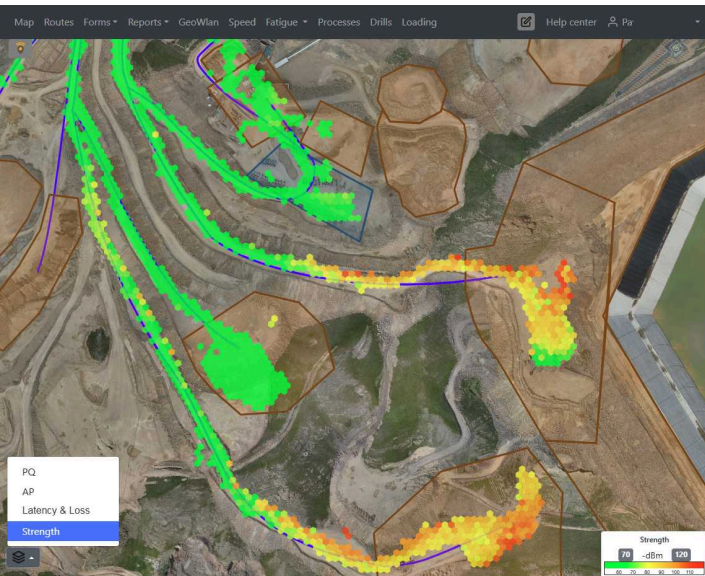
Functional layers can be displayed on the map



Latency and packet loss

The access point usage map allows

- Determine which specific access point provides connectivity in certain areas of the pit
- Identify access points that create interference and degrade connection quality
- Identify areas where equipment switches between access points



Signal strength on the map

Improving the data quality enhances production efficiency

- Reducing the percentage of lost or delayed data from the pit improves the quality of decisions on equipment allocation
- The accuracy of high-precision positioning systems fully depends on the receipt of differential corrections from the network

REDUCTION OF NETWORK MAINTENANCE COSTS

- GEOWLAN does not require additional equipment for operation
- There is no need to be physically present in the pit to assess coverage quality and wireless network performance
- It becomes possible to effectively redesign the network and deactivate unused or underutilized access points

SAFETY

- “Blind” areas in the pit prevent monitoring of truck speeds
- Without the network, operators may not receive commands from the FMS or messages from the dispatcher
- Safety solutions in the pit depend on the performance of the wireless network (collision prevention systems, operator fatigue monitoring, etc.)

MINING ART – PURE VALUE. NOTHING EXTRA

- **Availability** - We use hardware in our solutions that are openly available on the market, which reduces the overall project cost and simplifies subsequent maintenance.
- **Reliability** - All equipment comes with a manufacturer’s 1-2 years warranty. Our software meets 99.9% SLA requirements.
- **Flexibility** - Our software is open to modifications tailored to your business needs. You can make adjustments independently.
- **Transparency** - Forget about subscription fees for technical support and services. You pay for the provided services only.
- **Experience** - Since 2015, we have been developing and implementing our own software solutions for the mining industry.