



# AWIA Underground

Location, monitoring and equipment diagnostic system



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## Description of the system

The **Underground** is AWIA with system dedicated for underground and opencast mining units. It is used to steward machines and lets for controlling and optimizing the costs associated with the use of machines of different kind and devices:

- ≡ Of self-propelled mining machines.
- ≡ Of locomotives.
- ≡ Of systems of weights.

An accumulation and a data visualization of measuring housemaids are a basic task of the system to diagnostics and the location of the machine which he is serving. The Underground lets AWIA the canvassing of the widest spectrum of measuring data, starting from geographic coordinates, speed of moving, turnovers of the engine, level of fuel, through data from dedicated measuring devices (flowmeters, diagnostic probes, and the like), having been limited to data coming directly from the CAN trunk line of the vehicle. For ground devices information about the geographical situation is being taken from the integrated receiver GPS, however in case of devices working below the surface of earth, the localization of machines takes place based on the RFID technology.

Data from one or of many AWIA Underground are being sent to the purpose to the archiving to the central server via the cordless GSM network (or using the WiFi network, of cable radiating in case of devices working below the surface of earth). The visualisation of gathered data is held with using the browser of web pages available on computers of the class PC, tablets whether of other online devices Internet. Through the identification of the operator and monitoring the amount of fuel taken up by it, AWIA Underground lets on actual economic management fuel. Every event is associated with fueling up, logged in the system along with the time stamp what allows for comparing the amount of fuel taken up with the amount of fuel in the container of the specific machine. The process of the verification takes place automatically, without the possibility of the interference in the measurement system what prevents after-care for depletion of fuel.

Thanks to the modular design any configuring the system is possible, depending on needs and requirements of the Investor.

