

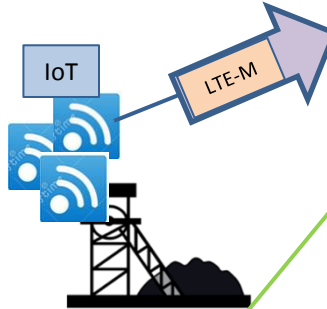
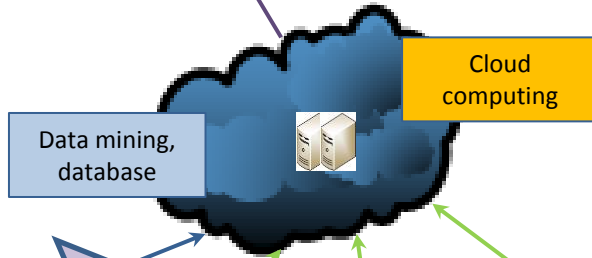
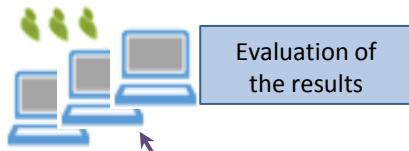
A wireframe map of Poland, composed of blue lines and dots, set against a light blue background with a large blue curved shape at the bottom left.

Enterprise Safety Tool
as a system controlling technical
integrity of the mining industry plants

F@BE – FABRYKA BEZPIECZEŃSTWA

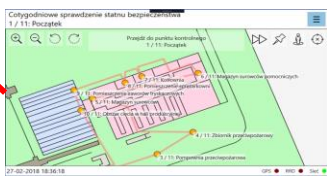
ESTools

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Diagnostics of the critical parameters

- Fire Safety Solutions
- Access control
- Media
- CCTV
- Ventillation system
- Detection systems
- Safety systems



System overview



Cloud-based central part (application server, database, analytics module)

Web application (access for the managers and safety leaders)

Mobile application (carrying out audits, synchronizing data with a cloud, also allows for working offline)

Navigation between points located on a plan of a plant; tracking the audit path using both GNSS (GPS, Galileo, GLONASS) as well as internal navigation technology based on beacons and accelerometers built in the mobile device

Intelligent sensors at the plants with the wireless LTE-M transmission (IoT)

Two work modes: online (on-the-fly synchronization with a cloud) and offline (collected data is stored in device's local storage and dumped to a cloud when device gets connected to internet)

Detailed post-audit report including all the detected issues.



System functionalities overview





Innovatory Industry 4.0 approach - summary

- ✓ intelligent sensors installed in plants with wireless transmission (IoT)
- ✓ mobile devices supporting geolocalization (GNSS)
- ✓ RFID labels (NFC) at the measuring points
- ✓ cloud-based architecture (cloud computing), web application and a cross-platform mobile application (based on the Xamarin technology – available for Android, iOS and Windows)
- ✓ retrieving data from all the clients to build a 'big data' dataset, to allow for comprehensive data mining
- ✓ applying the Precedence Diagram Method (PDM) for the proactive prevention of the industrial accidents
- ✓ emphasis on cybersecurity
- ✓ integration of the automation devices, processing devices, data transmission and software - Industry 4.0





„SAFETY IN PROGRESS” ... A WIN-WIN SITUATION !!!

