

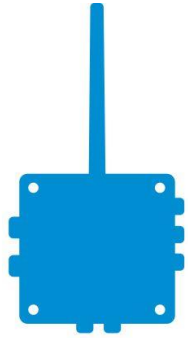


RealTrac



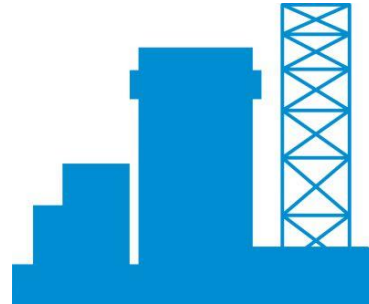
REALTRAC UG THE SCALABLE SAFETY AND
MONITORING SYSTEM FOR UNDERGROUND
MINING

REALTRAC UG CUSTOMERS TRUST US



RealTrac

more than 7'000 units
deployed in mining, all
satisfied customers



>12 mines equipped, including:

- Polysaevskaya (SUEK-Kuzbass)
- South mine (HC SDS-Coal)
- Badran (Zapadnaya Gold)



Global Support Team



Metalloinvest



REALTRAC UG FUNCTIONS INCLUDE

position, movement,
and utilization monitoring

emergency message
broadcast

digital voice

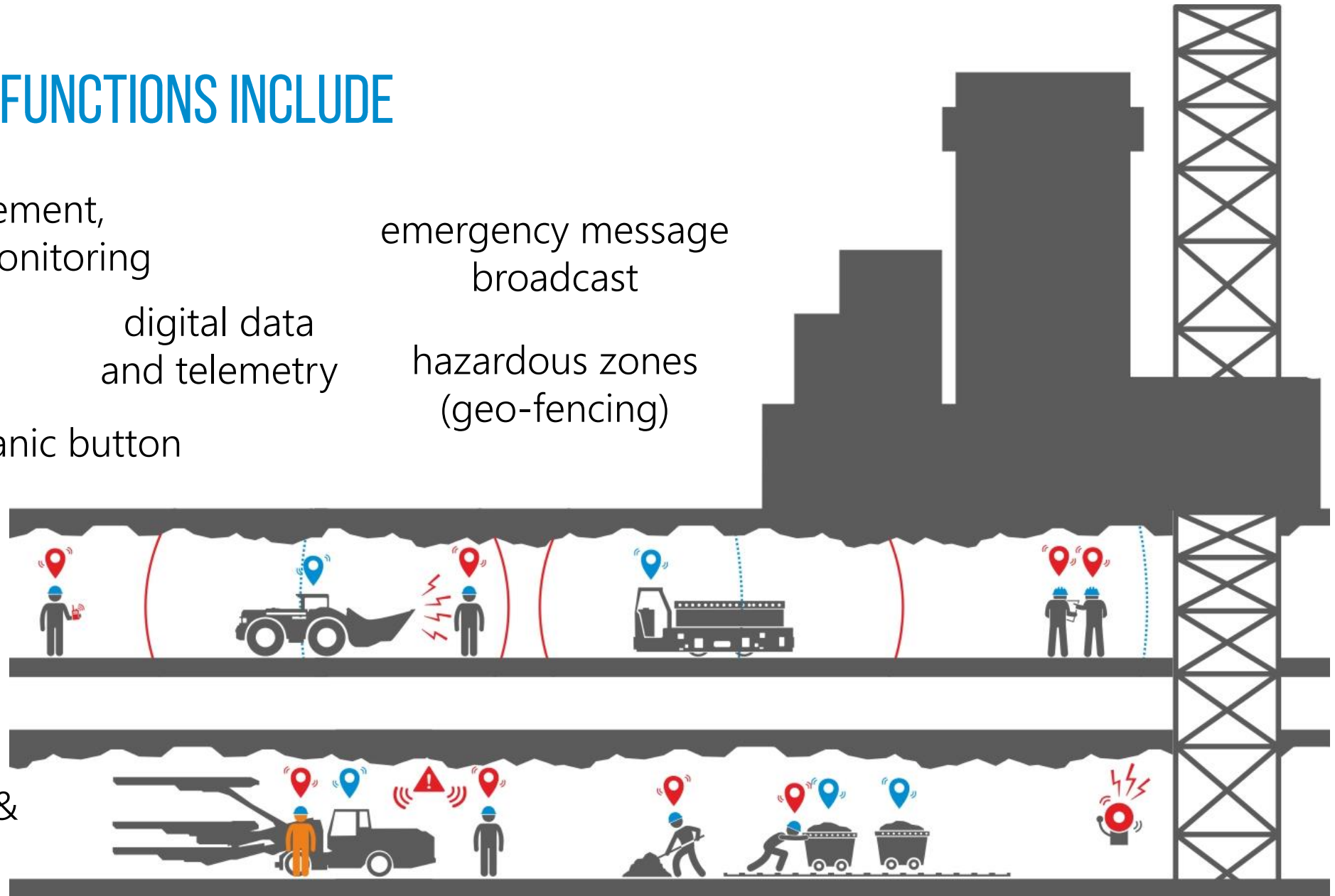
digital data
and telemetry

hazardous zones
(geo-fencing)

panic button

man-down alert

proximity detection &
collision avoidance



IMPROVE SAFETY, E.G. BY



staff monitoring

know where staff and equipment is

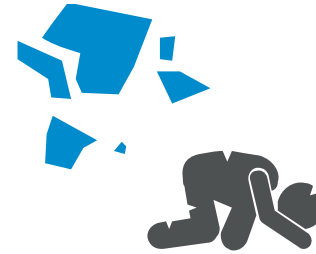
- know location for urgency or emergency
- assure correct evacuation



collision avoidance

proximity detection & collision avoidance

- V2P & V2V protection
- operator alert for proximity and danger
- equipment slow-down or stop in emergency



victim localization

more efficient victim search

- last known position
- tag signal search assistance



health monitoring

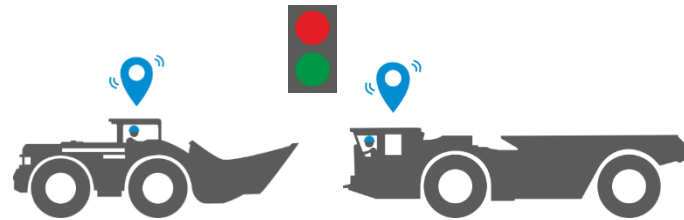
staff

- 3rd party health sensors
- supervisor alert

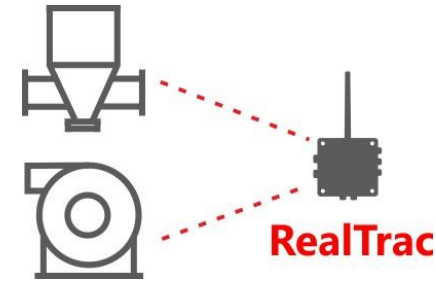
INCREASE EFFICIENCY, E.G. BY



equipment utilization KPIs



traffic management



equipment remote control

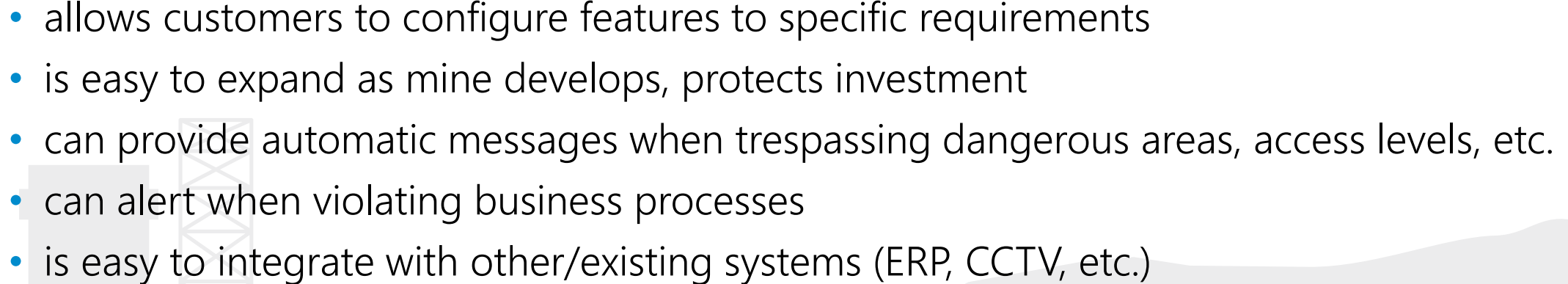


time reduction to locate assets and equipment

up to 15% typical efficiency increase seen, ROI possible in 9-12 months

SELECT ADVANTAGES OF REALTRAC UG

RealTrac UG, generally

- complies with many Safety Regulations and Standards
 - uses same infrastructure for CAS, Monitor, Voice, and IoT
 - includes server software for configuration, visualization, and analysis
 - is internet and cloud enabled, can run on site servers with remote support
 - allows customers to configure features to specific requirements
 - is easy to expand as mine develops, protects investment
 - can provide automatic messages when trespassing dangerous areas, access levels, etc.
 - can alert when violating business processes
 - is easy to integrate with other/existing systems (ERP, CCTV, etc.)
- 

SUMMARY: REALTRAC UG INCLUDES



CAS

proximity
detection
and collision
avoidance



Monitor

localization,
utilization, monitoring,
analysis



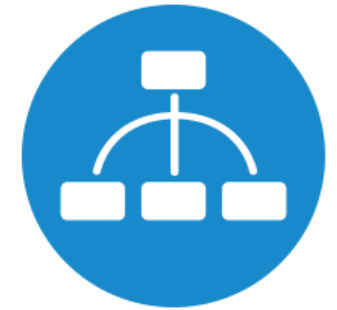
Voice

digital voice
communication,
broadcasting



Communication

digital communication
backbone,
to/from server and
control room



IoT

telemetry,
third party system
management

same infrastructure for all **RealTrac** functions

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