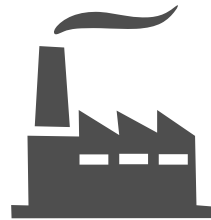


# BUILT-UP POSITIONING AND COMMUNICATION SYSTEM FOR OPEN PIT



# THE RTL SERVICE COMPANY GROUP TODAY

Today, the RTL Service Company Group is a successful international company with installations all over the country and a development that is in high demand abroad.



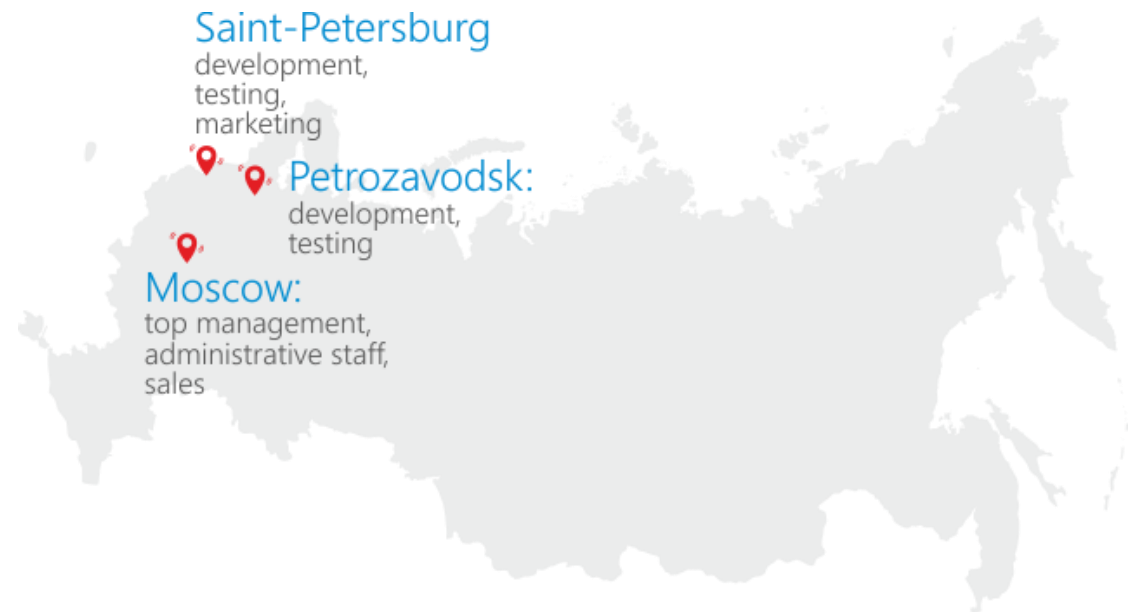
Manufacturing in Russia and Slovakia



7 Engineering Science PhD-s

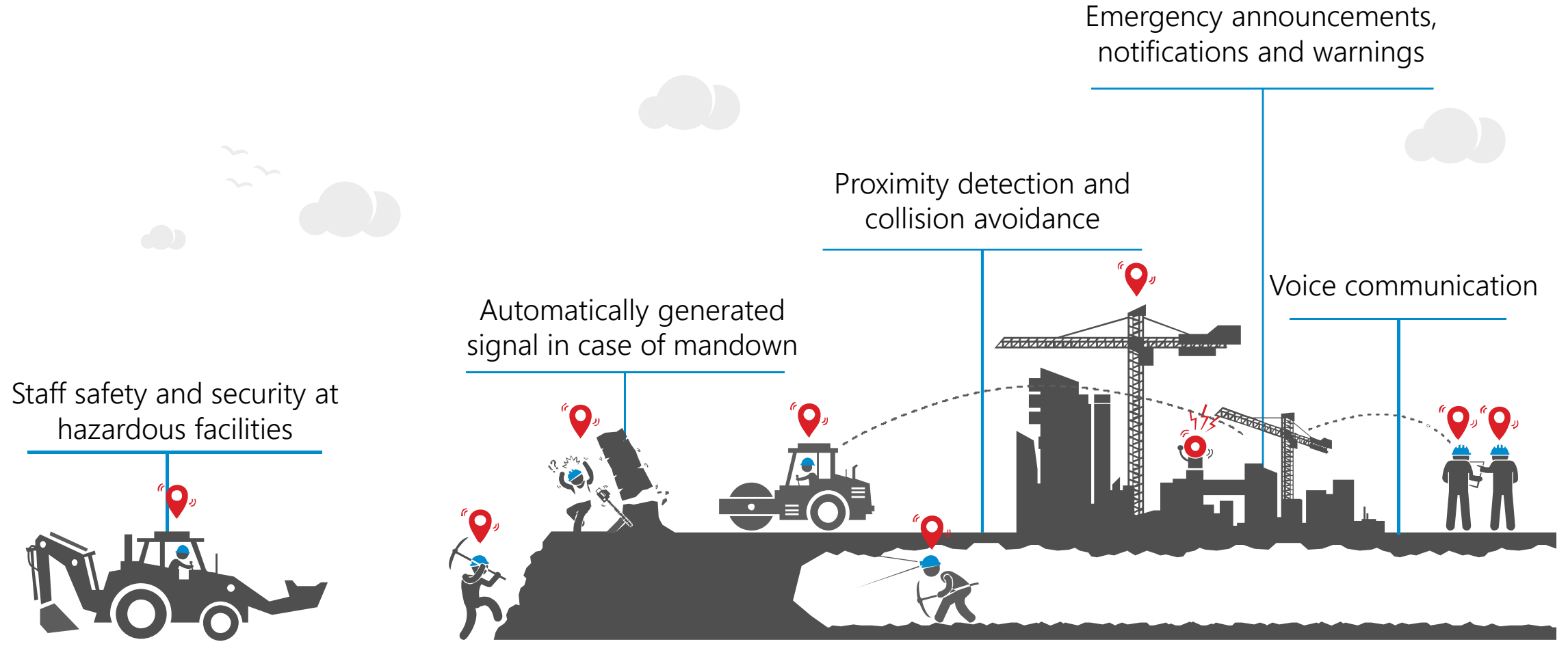


In-house development (from the basic algorithms to complete hardware and software solutions)



Expertise on positioning technologies in restricted areas or areas where any other source of communication is not available.

# TASKS SOLVED BY THE SYSTEM



# TIME MANAGEMENT AND INCREASING THE EFFICIENCY



Tracking the location and movements of people within the premises



Monitoring personnel at workplaces or in recreational areas



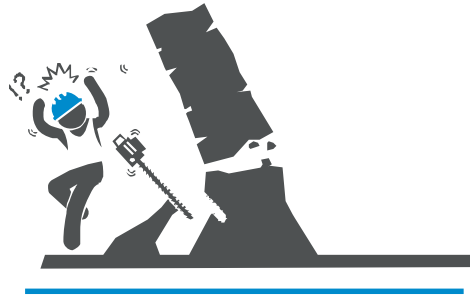
Personnel and equipment tracking



Working time control

As a result, ROI will be achieved in 6-12 months only!

# WORKING CONDITIONS IN OPEN PITS ARE TOUGH AND DEMANDING, WHERE DIFFERENT THINGS CAN HAPPEN:



Landslides and rockfalls



Fires



High level of occupational  
traumatism and industrial  
accidents



Collisions of equipment



People may be trapped  
under the rubble

# IT IS ESSENTIAL TO PROVIDE:



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Compliance with the Safety Regulations and Standards for open pit work



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Proximity detection and collision avoidance



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Personnel positioning



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Back up alarm system channel



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Quick voice communication



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Proper work efficiency level

# SOLUTION

Does an affordable system that meets all the requirements exist?

# YES!

Built-up RealTrac 3.0 system by  
the RTL Service Company Group

# REALTRAC 3.0 SYSTEM-BASED SOLUTION

In case of any alterations in legislation or internal company requirements, you just need to upgrade the system and get extra functionality without any re-equipment:

- Provide multichannel voice communication over a digital interference-free channel and provide back up alarm system channel;
- Proximity detection and collision avoidance;
- Gather and transfer data received from gas sensors, pressure/ temperature transmitters.

This is enough in order to meet current Safety Requirements.



# SYSTEM COMPONENTS



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## Personal tags

Are distributed to all the workers.

- Provide personnel positioning;
- Can be used as portable radio sets;
- Gather telemetry and data from third-party sensors.



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## Access points

Are installed in key points of the mines (junctions, mine floors, coalfaces).

- They provide personnel positioning;
- Gather data from tags;
- Transfer it to the server.



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## Server

- Process data received from access points and personal tags;
- Transfer data and reports to the system manager;
- Is easily integrated with other systems.

## ADVANTAGES OF THE SYSTEM

- The most cost-effective system on the market.
- Implementing and launching the area positioning system within 20 days.
- Single infrastructure for the area and accurate positioning system.
- Installation of permanent and temporary prohibited areas.
- Automatically generated messages about trespassing dangerous areas, violation of business processes and access levels.
- Digital way of storing the data and its subsequent analysis.
- Flexible license policy for the customers.
- Integrated management and software system.

# THE REALTRAC 3.0 LOCAL POSITIONING SYSTEM IS PRODUCED IN ORDER TO PROVIDE POSITIONING, LOCALIZATION AND TRACKING THE PEOPLE, EQUIPMENT AND OTHER OBJECTS IN MINING AND TO DELIVER VOICE COMMUNICATION AMONG THEM.

Other industries where positioning and localization of personnel, equipment and other objects may be needed:



People



Transport



Equipment and other objects

Positioning accuracy is up to 1-3 meters.

# POSSIBLE APPLICATIONS



Underground mining



Manufactures



Logistics centers

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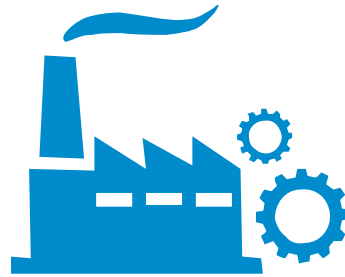
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# OUR CUSTOMERS TRUST US BECAUSE



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We are over 10 years in the cutting-edge technologies market.



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We have solid experience in the development and support.



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We have highly qualified experts and specialists.

CONTACT US:  
+7 495 268 06 05



room 816, Aviamotornaya str. 12, Moscow, Russia, 111024  
[info@rtlservice.com](mailto:info@rtlservice.com)  
[rtlservice.com](http://rtlservice.com)