



VIST MINING TECHNOLOGY LTD.

FOUNDED

in **2011**

CORE OF THE DEVELOPMENT

Creation of the first Russian robotized mining production, Smart Mine.

NATIONAL OBJECTIVE

Creation of the Smart Mine system enables to cardinaly increase the effectiveness and safety rates of mining works and can serve as a catalyst for technology development in Russia. The use of this system will bring our country closer to global efficiency rates and technology applications in the mining industry.

PEOPLE

GENERAL DIRECTOR:

Dmitriy Y. Vladimirov, laureate of the prize of the Government of the Russian Federation in the field of science and technology

HEAD OF RESEARCH:

Kliment N. Trubetskoy, Doctor of Engineering, laureate of two prizes of the Government of the Russian Federation in the field of science and technology, full member of the Russian Academy of Sciences

DEVELOPMENT DIRECTOR:

Dmitriy Klebanov

TECHNICAL DIRECTOR:

Nickolay Odintsev, PhD in Physics and Mathematics, laureate of the prize of the Government of the Russian Federation

HEAD OF DESIGN DEPARTMENT:

Mikhail Makeyev

DIRECTOR FOR MINING TECHNOLOGIES:

Alexey Klebanov, PhD in Engineering, laureate of the prize of the Government of the Russian Federation in the field of science and technology, associate member of the Russian Academy of Natural Sciences

Expertise in implementation of the development

1

Since 2008 the Mine MTC (mining and transportation complex) control system has been used at mining enterprises in Russia and CIS states (the group of its authors has been awarded a prize of the Government of the Russian Federation in the field of science and technology).

2

In 2010 a robotized dump truck with remote control has successfully been tested at the BELAZ JSC testing ground.

3

At present supply of electronic and control systems to BELAZ, Korobkov IZ-KARTEX is being performed.

4

February 2011 – establishment of the Interdepartmental section “Smart Mining Enterprise” of the Scientific Council of the Russian Academy of Sciences devoted to mining science problems.

5

2012 – establishment of a practice ground for testing specimens of robotised mining machinery at BELAZ (under an agreement with VIST MINING TECHNOLOGY).

6

Elaboration of ED (engineering design) and TA (technical assignment) in order to enable using robotized complexes at Russian mining enterprises.

Advantages of the development application

- Output increase of open-cast mining works by 15–20%.
- Safe extraction at the hard-to-access regions and areas with unfavourable climate.
- Elimination of the problem of the qualified personnel shortage.
- Possibility to lighten safety requirements in the mining works area.

Advantages of the system development in Russia

- Possibility to create systems based on the most widely spread types of machinery and engineering (BELAZ dump trucks, EKG excavators, etc.).
- Creation of a universal system applicable in various industry sectors.
- Possibility to sell similar systems in the global market (Africa, Asia, South America).

