

14 February 2025, Luxembourg



**Eurasian Resources Group**

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## **ERG implements an AI project focused on a smart machine vision system, saves over \$US 300,000 in production costs**

- **Idle time due to overheating** down by **75%** since July 2024.
- **The system detected 80% of defects** - as confirmed by human operators.
- **Savings of over \$US 300,000** over the first three months during realization of the project.

Eurasian Resources Group (ERG), a leading diversified natural resources group headquartered in Luxembourg, also won the Leader of the Year in AI Application in Industry title in the Digital Almaty Awards 2025 contest. The project has also been awarded cloud storage space worth KZT 10 million (around \$US 19,000) as a special prize from VK Cloud in the Industrial AI Battle.

SBM, an innovative smart machine vision system for steel belt monitoring, clearly demonstrates that AI has a high potential in the metals and mining industry. The project was implemented at pellet production section No. 1 of Kazchrome's Donskoy Chrome Ore Mining and Processing Plant in Khromtau. The IT solution includes two key modules:

**Overheating prediction:** this module predicts belt overheating before it actually occurs, enabling operators to respond preemptively.

**Defect detection:** this module helps detect defects at an early stage, making it possible to repair them without disrupting the production process.

The technology has been developed and implemented by the team of the industrial AI development department at Business and Technology Services LLP ("BTS"), led by Askhat Bukeyev, in cooperation with experts from Donskoy GOK Dias Eldes, Nursultan Karasartov and Zharbol Maksat.

"This project is a major step forward for the entire industry. Using AI helps streamline production processes and significantly reduce production costs. We are proud of our team and would like to thank everyone who supported us on this journey," said **Dias Eldes, the manager of the project.**

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**About Eurasian Resources Group:**

Eurasian Resources Group (ERG) is a leading diversified natural resources group headquartered in Luxembourg, with integrated mining, processing, energy, logistics, and marketing operations. The Group has around 67,000 employees and sells products in more than 40 countries. The Group's main shareholder (40% stake) is the Government of the Republic of Kazakhstan.

ERG is one of the world's largest producers of cobalt and ferrochrome and is a large international supplier of copper and iron ore. In Eurasia, it is a leading supplier of alumina and is the only producer of high-grade aluminium in Kazakhstan.

Overall, in Kazakhstan, the Group operates many of the country's leading production entities, including Kazchrome, Sokolov-Sarbai Iron Ore Mining Production Association (SSGPO), Kazakhstan Aluminium Smelter, Aluminium of Kazakhstan, Eurasian Energy Corporation, and others. The Group is a key power supplier and a large railway operator in Central Asia.

ERG Africa also forms a core part of the Group's international asset portfolio. In the DRC, Frontier is the cornerstone of the Group's copper business and Metalkol is a major tailings reprocessing operation, which has become one of the world's largest producers of cobalt and a major producer of copper. The Group also has its own supply chain on the continent through its logistics company SABOT.

In Brazil, ERG is developing BAMIN, an integrated mining and logistics project in the State of Bahia, which comprises the Pedra de Ferro high-grade iron ore mine, the Porto Sul deep-water port and the associated stretch of the new FIOCRUZ broad-gauge railway.

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