



**MCA**

شركة أركان المعادن أستانا  
Metals Corners Astana

# METALS CORNERS ASTANA

COMPANY PROFILE

# INTRODUCTION

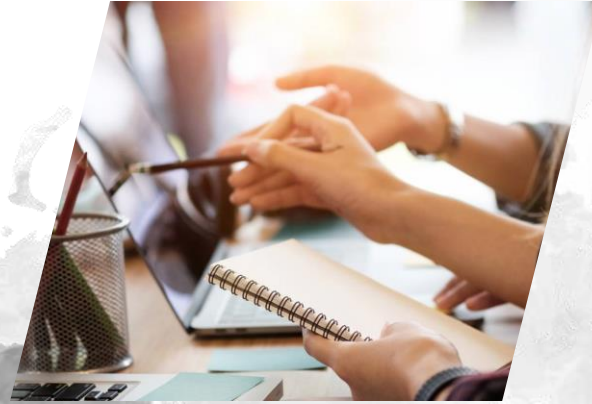
Established in 2016, Metals Corners Astana is pioneer from the Saudi private sector to establish its foot hold in Kazakhstan for the cooperation between the two countries in the exploration and production of Uranium and Rare Earth Metals.

Metals Corners Astana is focused to achieve highest yield of natural resources in an optimal way to contribute to national economy by transfer of knowledge and technology through trainings and setting up state of art technological setup



# WE DO .....

- prepare and equip companies that would play a fundamental and strategic role in the areas and works of detection, development, concentration and enrichment of uranium and rare metals.
- Opening areas of career opportunities to attract Kingdom's competencies and train graduates according to the requirements of industry.
- Transfer and localization of value-added industrial technologies in Kingdom of Saudi Arabia.
- Contributing to achieving human and commercial returns for Kingdom's land and economy



# STRATEGY COMPONENTS OF METALS CORNERS ASTANA

## Exchange of benefits:

Achieving technical, industrial and human gains in exchanging benefits between the two countries.

## Sustainability:

Investing in fixed and mobile assets, including the acquisition of local companies in areas that serve the tasks of exploration, drilling, and project implementation to determine efficiency of performance and production.

## Strategy components of MCA

## Objectives:

Contributing to achieving human and commercial returns for the nation's land and economy.

## Knowledge:

- Transfer and localization of value-added industrial technologies in the country.





# SAUDI ARABIA & KAZAKHSTAN COMING TOGETHER

Declared strategy between the Kingdom of Saudi Arabia and the Republic of Kazakhstan is to raise level of economic cooperation between two countries to reach highest level given size and political and economic weight of two countries, by encouraging private commercial sector in Kingdom to continue benefiting from information base available for natural resources, including mining, technologies and manpower that private sector can invest into in both countries.



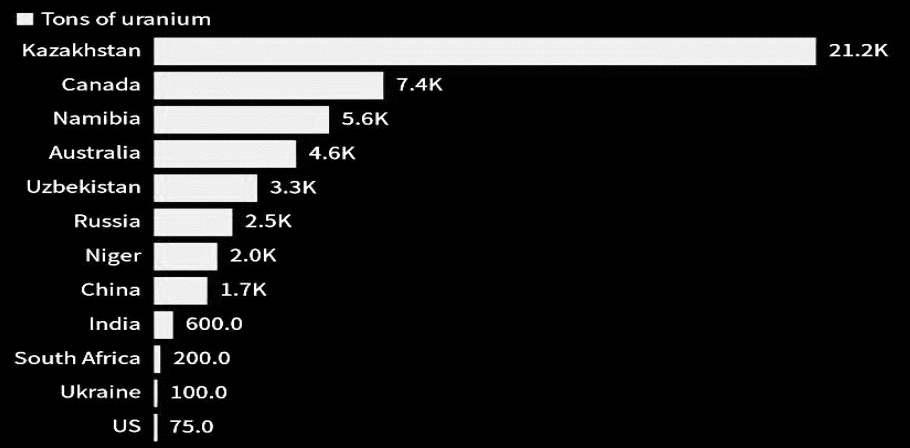


# ABOUT KAZAKHSTAN

- The 9th largest country in the world.
- Rich in natural resources.
- The largest producer of uranium ore in the world.
- The largest economy in Med Asia.
- One of the most world producers of mineral goods.
- It strategic location near to tree of the most important international markets. (China, India & Russia)
- A unique and attractive investment environment and rare available opportunities

## Uranium Production

Kazakhstan mined 43% of world's uranium in 2022



Source: World Nuclear Association data compiled by Bloomberg

Bloomberg

Kazakhstan is the largest uranium producer in the world, with a production volume of **21,227 metric tons** in 2022. Canada followed with uranium production volume of 7,351 metric tons.



# MINING INDUSTRY IN KAZAKHSTAN

- Growing cooperation with global mining companies and financial institutions that show rising interest and commitments
- Demand for improved efficiency on old and new assets driven by foreign investor relationship, public markets and cost savings
- Demand for cleaner, environmentally friendly technologies driven by the new Environmental Code effective from 2021
- Significant capital investment programs approved by major mining companies for their old assets that were underinvested for last 30 years (ERG, Arcelor, Kazzinc)



# KAZAKHSTAN KEY PLAYERS IN MINING

- Kazakhstan inherited Soviet mining enterprises as large diversified commodity-oriented companies that defined the existing mining industry landscape up state of art technological setup
- The 6 companies combined represent 80% of the mining industry production
- Other major companies include AltynAlmas, Polymetal, UKTMK, RG Gold





# FORMING ALLIANCES

Metals Corners Astana is forming alliance with the best companies in the world (Kazatomprom) that are specialized in the exploration, mining production and processing of uranium and Rare Earth Metals in Kazakhstan in collaboration with government agencies involved, to achieve highest yield of natural resources in an optimal way to contribute in Kingdom's economy by transfer of knowledge and technology through trainings and setting up state of art technological setup.



# EXPERIENCE OF MCA TEAM

ENGINEERS (GEOLOGISTS, GEOPHYSICISTS, HYDROGEOLOGISTS, DRILLERS), METALLURGISTS, CHEMISTS, AND BUILDERS – possess extensive practical experience and profound knowledge in their respective fields, with a focus on the uranium industry. They have worked within the system of JSC "NAC "Kazatomprom" and its subsidiaries:

- JSC "NAC "Kazatomprom";
- JSC "Volkovgeologiya";
- LLP "RU - 6";
- LLP "DP "Ortalyk";
- LLP "SP "Zarechnoye";
- LLP "IVT";
- LLP "SP "Semizbay";
- LLP "SP "Katko";
- LLP "SP "Karatau".



## THE AVERAGE WORK EXPERIENCE IS 25 YEARS



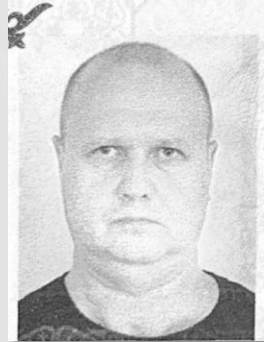
# THE TEAM

(TECHNICAL)



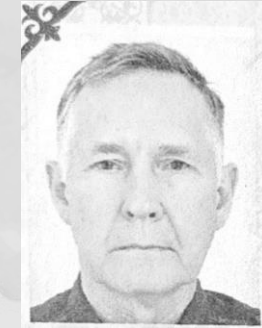
**BAURZHAN IBRAEV**  
CHIEF TECHNICAL OFFICER

Managed several uranium mining enterprises at NAC Kazatomprom JSC, ultimately becoming the Chief Executive Officer for Mining and the Nuclear Fuel Cycle at NAC Kazatomprom JSC from 2015 to 2020.



**IGOR KASHAFUTDINOV**  
CHIEF GEOLOGIST

A Kazak Chief Geologist. With over 40 years of experience in uranium exploration geology, he worked for 14 years at Volkogeology JSC



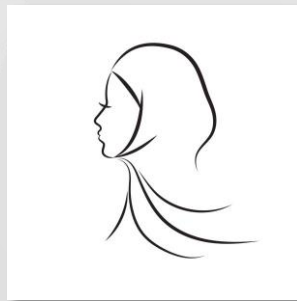
**ALEXANDER EMASHOV**  
CHIEF PROJECT GEOPHYSICIST

A Kazak Chief Project Geophysicist. Previously served as the Chief Geophysicist at Volkogeology JSC. With over 40 years of experience in uranium exploration



**OLGA GORBATENKO**  
CHIEF HYDROGEOLOGIST

Chief Hydrogeologist. With over 35 years of experience in geology and hydrogeology. Numerous international publications. Expert at the International Atomic Energy Agency (IAEA). Expert in uranium mining projects. Fellow of the Professional Society for Nuclear Energy (FP0060/2022)



**NELLA POLONSKAYA**  
GEOLOGICAL DATA PROCESSING

Expert in the field of geological data processing for the last over 16 years. Leading the digital processing of geological data department at Volkogeology JSC since 2006.



**ERGALI BATALOV**  
PROCESSING AND PRODUCTION EXPERT

has over 15 years of experience in the processing and production of uranium in Kazakhstan. He held various positions over the years, with his most recent position being the director of the Central Mynkuduk mine at Ortalyk LLP, a subsidiary of NAC Kazatomprom JSC.



# THE TEAM

(TECHNICAL)



**VLADIMIR BORISENKO**  
PROJECT ADVISOR AND PROCESS ENGINEER

With 14 years of experience in various projects and as a Senior Consultant (finance/processing). He has extensive experience of project delivery in leading international companies, such as Worley, KAZMinerals, NAC Kazatomprom JSC.



**BERIK TOISHIBEKOV**  
CHIEF ENGINEER GEOLOGIST GEOTECHNOLOGIST

Having 20 years of experience in uranium mining, worked at various uranium deposits of NAC Kazatomprom JSC since 2003. held various positions, with his most recent position being the Chief Geologist at Zarechnoye LLP, a subsidiary of NAC Kazatomprom JSC

# THE TEAM

(ADMINISTRATIVE)



**NASSER ALI AL AGEL**  
FOUNDER & BOARD CHAIRMAN

A Saudi Business Graduate from Eastern Washington University, Washington (USA) having over 40 years of rich experience in Build and sustain high-performing project teams, Using risk management best practices, tools and techniques to achieve project success



**AYMAN SULIMAN ALAGEL**  
VICE CHAIRMAN BOARD

B.S in Mining Engineering from King Abdul Aziz University, Jeddah Saudi Arabia, having 20 years spent in evaluating investment opportunities, developing widespread relationships and networking at local and international levels, keeping up to date with professional developments in mining



**ADEL NASSER AL AGEL**  
CHIEF EXECUTIVE OFFICER (CEO)

A Saudi Business Graduate specialized in Finance and Projects management holding PMP with 15 years of experience running successful mining and construction projects.



**BAKHYT BATYRSHAYEV**  
ADMINISTRATIVE DIRECTOR

Having 30 years of successful track record in administration and office management at international level. Specialized in Business Relation development at Government and Political level. Served as Kazakstan Ambassador in Saudi Arabia and Pioneer in bridging the business communities of both countries.



**SHAHZAD AHMAD**  
CHIEF OPERATING OFFICER (COO)

Business Postgraduate with PMP and Industrial Psychologist, having 18 years of Projects development and implementation experience and track record of problems identification and solving. Organizing Teams and getting results



**MOHAMMAD FAL**  
CHIEF FINANCIAL OFFICER (CFO)

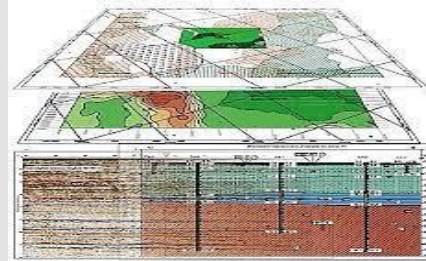
A Saudi Finance Graduate having 20 years of experience in working with different environments. Skilled in the art of Finance and control over managing Financial portfolios of companies

# MCA KNOWLEDGE AND EXPERIENCE IN THE URANIUM INDUSTRY



EXPLORATION WORKS  
(EW)

- Design, organization, and execution of EW: drilling exploratory wells, geological support (documentation of core samples and collection of samples for determining the composition of ore for uranium and other elements)
- Organization and supervision of laboratory research to determine uranium and other associated elements
- Systematization, interpretation, and analysis of materials from conducted or previously conducted EW (databases, cartographic materials, and sections)
- Conducting work on estimating uranium reserves of the deposit based on the results of geological exploration.



CONDUCTING LABORATORY  
AND PILOT-SCALE WORK

- Execution and organization of laboratory work to determine technological parameters for uranium extraction;
- Conducting and organizing pilot-scale work on uranium mining and processing.



PROJECT WORKS

- Execution and organization of activities related to the design of the industrial site for the processing complex (selection of non-standard and main equipment for the processing complex);
- Design and supervision of the uranium deposit development project (open-pit mining, drilling of wells, main infrastructure: power lines, pipelines, roads processing plant, production plan).



# MCA KNOWLEDGE AND EXPERIENCE IN THE URANIUM INDUSTRY



PREPARATORY MINING WORKS (PMW)

- Execution and organization of PMW: Drilling wells, casing, leaching, and commissioning of the mining site;
- Commencement of solution mining at each technological unit.



PROCESSING COMPLEX DEVELOPMENT

- Execution and organization of construction and installation works (CIW) for the industrial site of the processing complex;
- Implementation of assembly and commissioning works for the processing complex;
- Initiation and ramp-up to production capacity for uranium extraction from the mining site and the processing complex.



AUXILIARY WORKS

- Execution and organization of activities to ensure radiation and environmental safety during geological exploration and uranium mining at the production sites of the geo technological wellfield and processing complex.
- Utilization of low-radioactive waste.



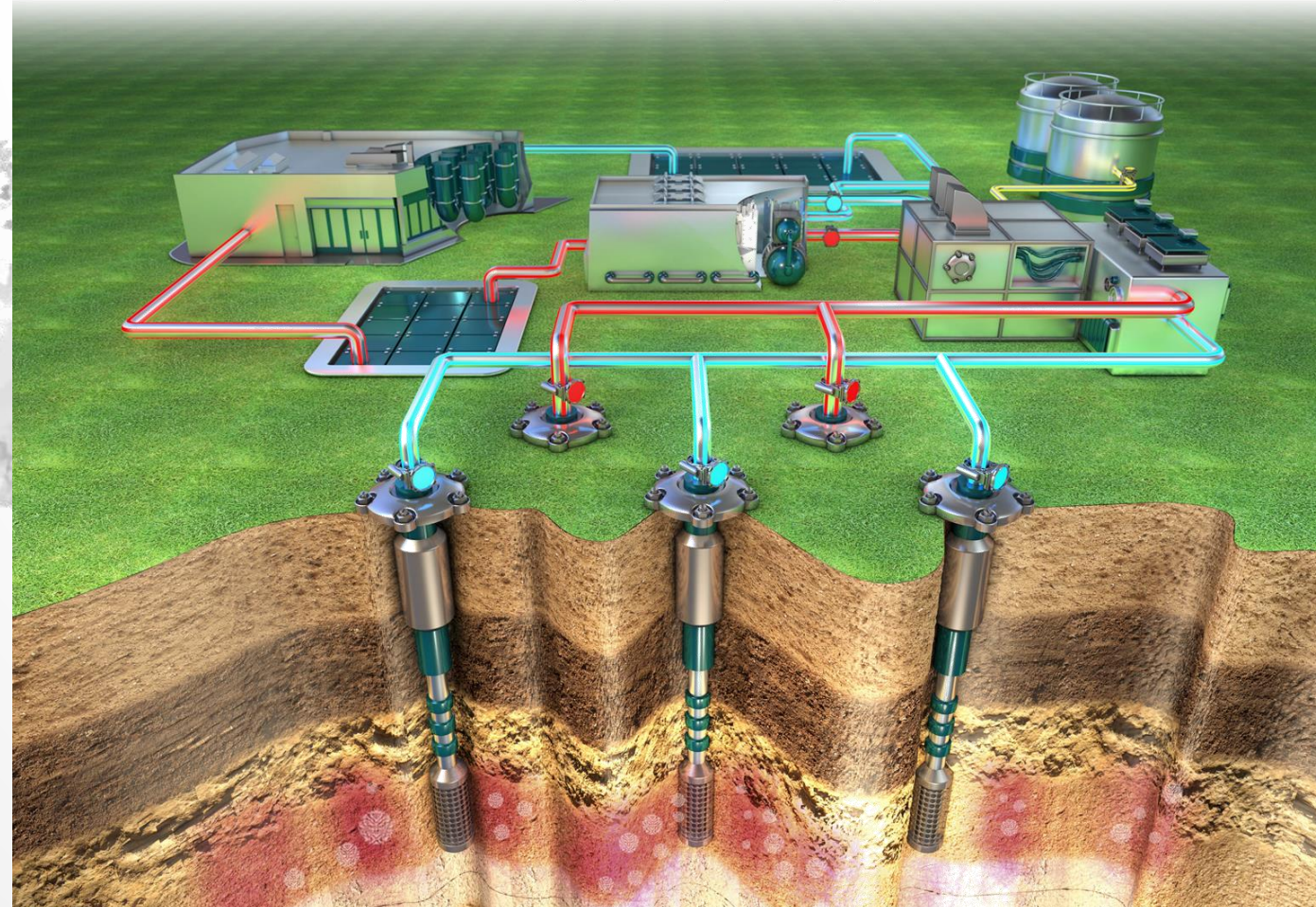
# IN-SITU LEACHING

ISL (In-Situ Leaching) is a method for developing sandstone-type uranium deposits without lifting the ore to the surface. It involves selectively converting uranium ions into a productive solution directly underground. The uranium-bearing ore remains underground, unlike traditional mining methods such as shafts and quarries.

ISL technology entails lower capital and operating costs, as well as significantly less environmental impact.

When using ISR, the natural landscape undergoes minimal changes, and no residual waste rock piles (tailings) or waste processing repositories are formed. Over time, aquifers are restored.

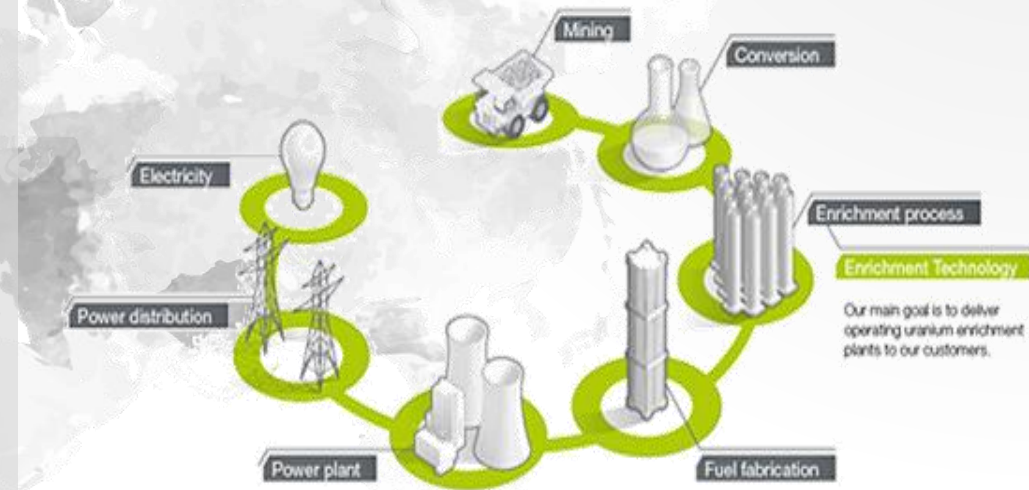
After the completion of extraction, the composition of groundwater returns to its initial state, as determined within the environmental impact assessment and approved prior to commencing operations.





MCA IN REINFORCEMENT TO THE SIXTH TRACK THAT IS ACKNOWLEDGE BY " NATIONAL RENEWABLE ENERGY PROGRAM" IN THE KINGDOM OF SAUDI ARABIA WHICH IS INTERESTED TO LOCALIZING THE RENEWABLE ENERGY TECHNOLOGY TO REACH THE FOLLOWING:

- To locally produce uranium and assist in providing professionals for assistance and training.
- To produce and localize other by-products of uranium ore.
- localize and support the replacement plan of (used oil) with renewable energy to generate electrical power in the kingdom.
- localize the best technology available for exploration, and extraction of Uranium and REM
- in the most developed economic and environmental methods in accordance with international laws and regulations.
- produce and localize concentrated REM and transfer separation technology of (heavy, light) REM.
- guarantee the best training programs for the Saudi citizen in and from Kazakhstan.
- establishing specialized training centers and labs with state of the art technology available.



**Typical Uranium Enrichment Facility**





# LOCATIONS



KAZAKHSTAN

58, house No.6/5, Ablai  
Khan Avenue, Astana city,  
Republic of Kazakhstan

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+7 700 122 3113

KINGDOM  
OF SAUDI  
ARABIA

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Qurtaba District,  
Riyadh, Saudi Arabia

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please feel free to call  
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