



KAZAKH INVEST

NATIONAL COMPANY

Investment Opportunities
for the Canadian
companies
in the new energy and
mining sectors



ABUNDANT NATURAL RESERVES - SOLAR INSOLATION, WIND AND WATER RESOURCES



POSSIBILITY OF SUPER-LARGE-SCALE PROJECTS IMPLEMENTATION



NEW EXPORT PRODUCT TAKING INTO ACCOUNT GROWING DEMAND FOR GREEN ENERGY AND GREEN HYDROGEN



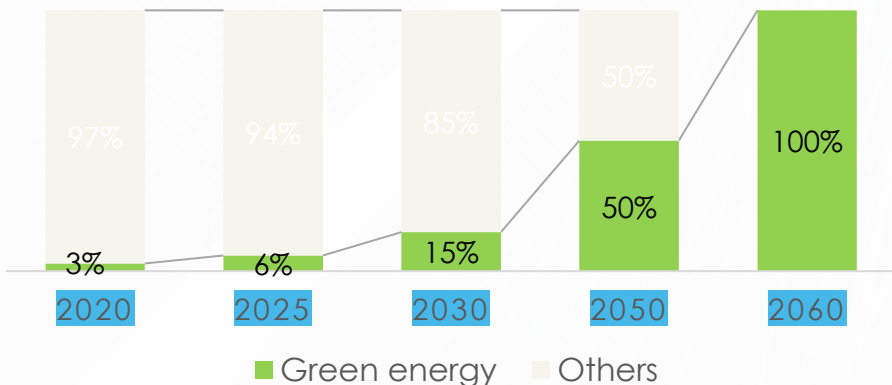
RELEVANCE OF PROJECT IMPLEMENTATION WHICH IS IN LINE WITH GLOBAL DECARBONIZATION GOALS



CREATION OF A NEW INDUSTRY - TRANSFORMATION AND CREATION OF NEW SECTORS

Transition to a **green** economy

Renewable and Alternative Energy in Energy Balance



Renewable Energy Auctions:

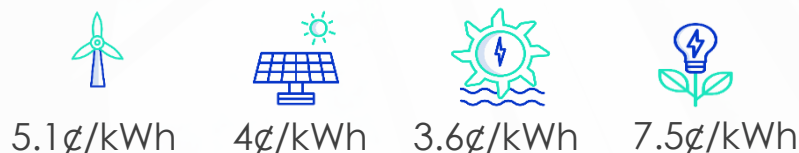
- PPA with the Government
- Annual indexation of auction prices
- Priority dispatch on transmission electricity
- Transfer fee exemption

Renewable Energy Facilities



- ◆ **2010** MW installed capacity
- ◆ **3.24** billion kWh generated in 2021
- ◆ **#33** in the Green Future Index 2021

Marginal Feed-in-Tariffs



Renewable Energy Potential

- Wind power**
 920 billion kWh / year
- Hydropower**
 62 billion kWh / year
- Geothermal waters**
 4.3 billion kWh / year
- Solar energy**
 2.5 billion kWh / year

\$3 trillion - gross value of proven reserves

#6 in the world for estimated mineral resources

Member of the Committee for Mineral Reserves International Standards



#23 best mining jurisdiction in the world

New Code on Subsoil and Subsoil Use: First Come – First Served Principle without a competitive process

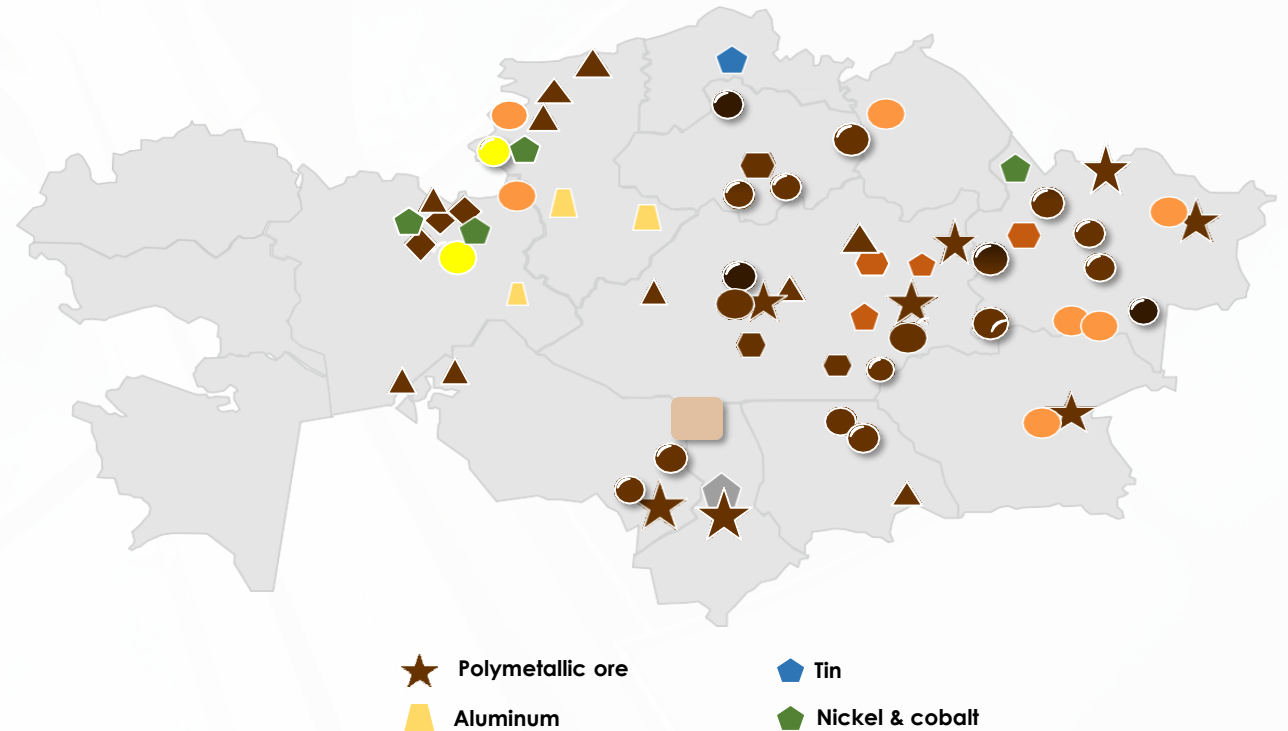
99
Chemical elements

70
Investigated

60
Mined

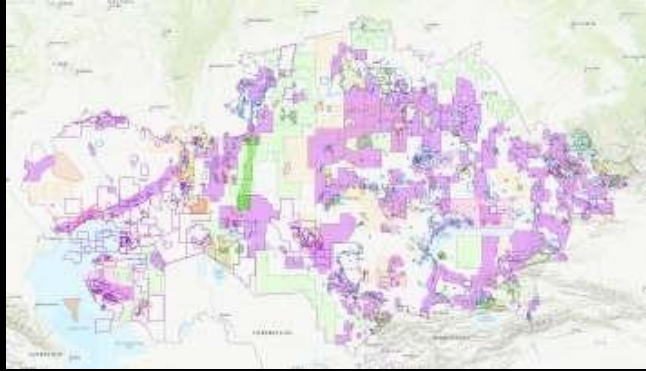
KAZAKHSTAN'S GLOBAL RANKS

	Chrome	Uranium	Manganese	Lead	Zinc	Gold	Iron ore	Copper
Reserves	1	2	8	8	6	14	11	10
Production	2	1	14	12	8	9	15	10



Sources: Agency for Strategic Planning and Reforms of the Republic of Kazakhstan, Ministry of Industry and Infrastructural Development of the Republic of Kazakhstan, US Geological Survey 2021

INTERACTIVE MAP OF SUBSOIL USE



Source: Geology committee of Kazakhstan

Conceptual innovations:

- ✓ **Principle of «first come – first served» (the best World practice)**
More than 460 thousand sq. km area is open for exploration
- ✓ **Open access to geological information**
«National Data Bank of Mineral Resources» is to be launched in mid 2022
- ✓ **Reduction of administrative barriers and licensing procedures**
- ✓ **Transition to the International Valuation Standards CRIRSCO**
- ✓ **Providing a guarantee of stability for existing subsoil use contracts**
- ✓ **State Subsoil Fund Management Program**
- ✓ **Ensuring functioning of junior companies and the possibility of raising capital**
On the basis of the Astana International Financial Center (AIFC), a segment was created for junior companies on the AIFC stock exchange, where each company can effectively attract financing for exploration, while with minimum requirements for registration, listing and tax incentives

Prospects for the development of the MMI are related to the following:



Exploration of new prospective areas, which have not been explored before, or explored to limited extent. Kazakhstan adoption of new legislation, Mining Code, that opens up new opportunities for exploration



Development of deposits for which exploration and mining licenses are already distributed – Kazakh Invest has a pipeline of niche projects of private subsoil users to offer potential foreign investors.



Application of new efficient methods of ore processing and metal producing to the previously explored deposits in order to increase their productivity.



Development of further conversion of metal processing



Energy metals in Kazakhstan



Lithium fields

- Full research to establish exact lithium reserves has not yet been performed in Kazakhstan.
- Significant lithium reserves are concentrated in tailings from rare-metal fields in East Kazakhstan.
- Rock lithium containing deposits and brine deposits are also available but require additional research.
- Currently few Kazakhstani private companies are carrying out exploration works in the major rock deposits in East Kazakhstan.



Nickel and Cobalt deposits

- Kazakhstan has significant deposits of nickel (up to 10% of the World reserves). Deposits are located in Aktobe, Kostanai and East-Kazakhstan regions.
- Some of the nickel deposits contain cobalt in the ratio favorable for feasible extraction.
- Content of nickel ranges between 0,7% and 1,2%. New technologies must be applied for feasible processing.

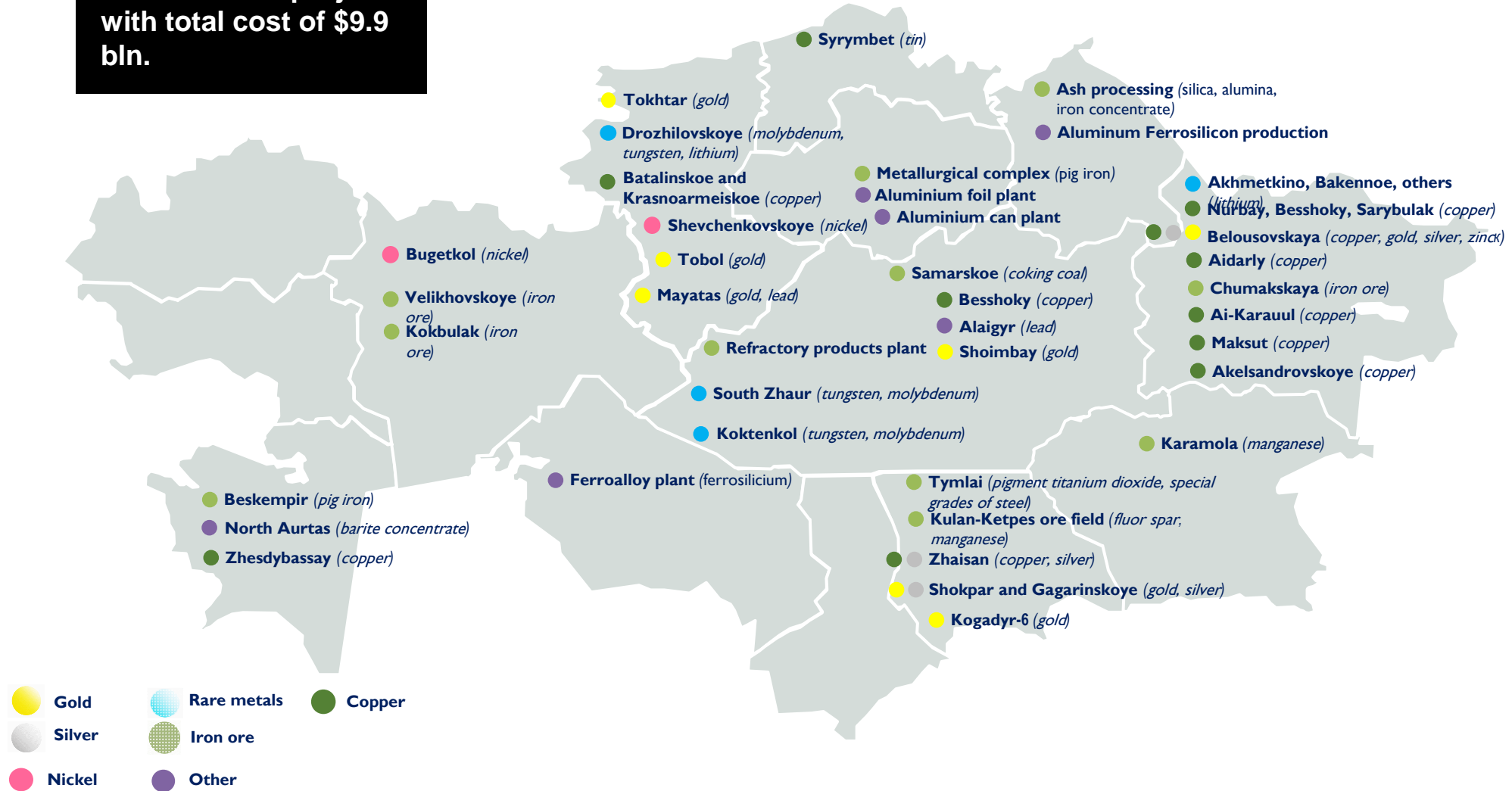


Vanadium deposits

- Kazakhstan has significant deposits of vanadium and already has refining facilities
- Further increase of production is connected to development of the depositis with unconventional ore composition



over 40 niche projects
with total cost of \$9.9
bln.



ULTIMATE INVESTMENT GUIDE TO KAZAKHSTAN

**ONE - STOP SHOP
FOR INVESTORS IN
KAZAKHSTAN**

**FULL-FLEDGED
SUPPORT
AT ALL STAGES OF
PROJECT
IMPLEMENTATION**

**EXPERTS
WITH LOCAL
KNOWLEDGE AND
INDUSTRY EXPERTISE**

**NETWORK OF
REPRESENTATIVES
ABROAD AND IN ALL
REGIONS OF
KAZAKHSTAN**



KAZAKH INVEST
NATIONAL COMPANY

Galymzhan Matayev

g.matayev@invest.gov.kz

+1-202-431-3300

www.invest.gov.kz