



ATTRACTING INVESTMENT IN SUBSOIL USE OF THE REPUBLIC OF KAZAKHSTAN

Astana , 2023

IRON ORE PROCESSING

CURRENT STATE OF THE INDUSTRY

38,6

mln tons

Mining (iron ore)

24,5

mln tons

Beneficiation (concentrate)

Processing

12

mln tons

Potential

12,5

mln tons



Plant needed

NOW EXPORTED:

- Russia - 9 mln tons
- China - 3,5 mln tons

Iron ore raw materials

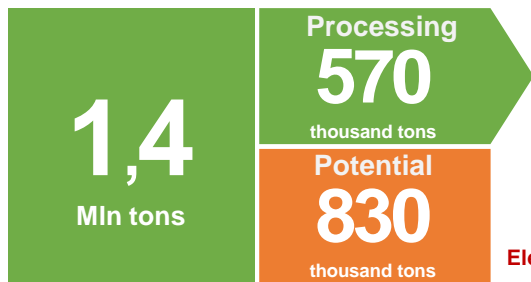
12,5

mln tons annually

STEEL PLANT
NEEDED

ALUMINUM INDUSTRY

CURRENT STATE OF INDUSTRY



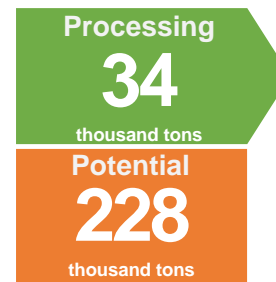
Beneficiation (alumina)



Electrolysis plant
required



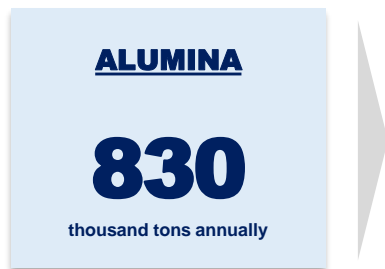
Primary aluminum
production



Finished goods
production



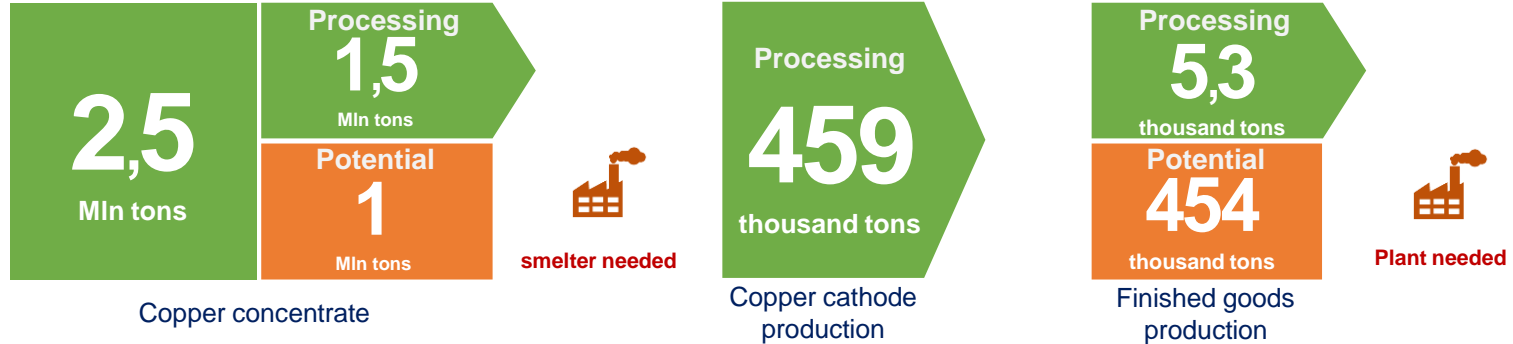
Plant needed



ELECTROLYSIS PLANT
NEEDED

COPPER INDUSTRY

CURRENT STATE OF INDUSTRY



COPPER SMELTER
NEEDED

LEAD INDUSTRY

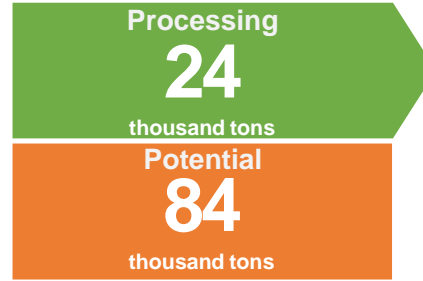
CURRENT STATE OF INDUSTRY



Lead concentrate



Lead production



Finished goods production



Plant needed

PRODUCT DEVELOPMENT POTENTIAL

COPPER

84

thousands tons
annually

**FACTORIES FOR THE PRODUCTION OF
FINISHED LEAD GOODS ARE NEEDED**

- *Lead products*
- *Raw lead Plates*
- *Sheets or tapes*
- *Powders and flakes*

LIST OF NECESSARY NICHE PLANTS FOR DEVELOPMENT IN KAZAKHSTAN

Current exports

Iron ore

12,5

million tons per year



ALUMINA

830

thousand tons per year



COPPER
CONCENTRATE

1

million tons per year



LEAD

84

thousand tons per year



Plants for construction:

STEEL PLANT

ELECTROLYSIS PLANT

COPPER PLANT

**PRODUCTION PLANTS FOR
FINISHED LEAD PRODUCTS**

SUBSOIL USE OF SOLID MINERALS



LICENSES



in 2022.

- more than 1,000 applications reviewed and licenses were issued:
- 393 explored
- 15 fields are used for extraction



AVAILABLE FOR GEOLOGICAL EXPLORATION

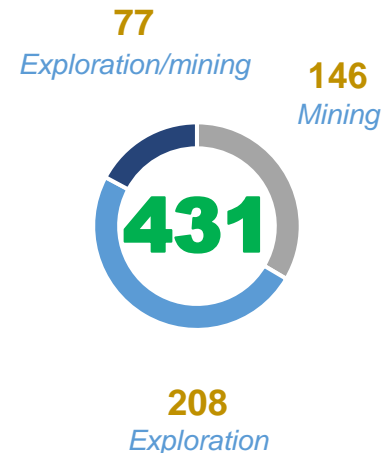


in 2022 660 thousand sq. km. explored in the scope of the program of state subsoil fund management. 53 fields are currently in use.

From 2018 to 2022 72582 sq km or 6% are licensed



CONTRACTS



LARGE DEPOSITS TO ATTRACT INVESTORS

	DEPOSIT	NATURAL RESOURCES	RESERVES	RESERVES (\$ bill)
1	"WEST KARAZHAL"	iron-manganese ores	Mg - 349.3 million tons, Fe - 496.9 million tons, Ge- 3,103.6 tons.	120,9
2	"MASALSKY"	iron ores	Fe – 729,2 million tons	86
3	«SHALKIYA»	polymetals	Pb – 1633,2 thousand tons, Zn – 5441,9 thousand tons	11,3
4	«CHANG»	gold	Au – 65,5 kg	0,004
5	«ABAYIL»	iron ores	Fe – 28,3 million tons	3,3
6	«SHORSKOE»	copper-molybdenum ores	Mo – 12,4 thousand tons, Cu – 7,2 thousand tons, Ag – 13,2 tons	0,66
7	«KUSHMURUNSKOE»	lignite	2636,2 million tons	79
8	«TESIKTAS»	copper	Cu – 141,7 thousand tons	1,3
9	"NORTH KATPAR" and "UPPER KAYRAKTINSKY"	tungsten	W – 1438,6 thousand tons, Mo – 64,7 thousand tons, Cu – 245,2 thousand tons, Bi – 204,4 thousand tons.	6,9
10	«DALABAY»	gold, silver	Au – 1352,7 kg., Ag – 1207 tons	1
11	«TYMLAY»	iron, titanium, associated components of the ore field	Ti – 21,7 million tons, Fe – 226,1 million tons	74
12	«PUTINTSEVSKOYE»	polymetals	Cu – 13,6 thousand tons, Au – 388 kg., Ag – 17,5 tons, Pb – 17,5 thousand tons, Zn – 25,5 thousand tons.	0,17
13	«MYALY»	solid mineral waste	Au – 849 kg	0,05
14	«MAIKUDUK»	coal	1155 thousand tons	0,05

384,6

DEPOSITS OF SOLID MINERALS PUT UP FOR AUCTION

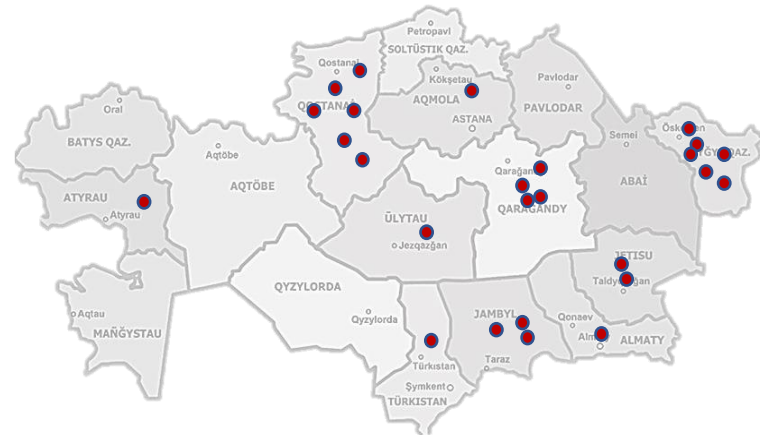


Auction Date - **May 26, 2023**

25

DEPOSITS

GOLD, SILVER,
PHOSPHORITE,
QUARTZITE, BARITE,
COAL, WOLLASTONITE,
BAUXITE, TITANIUM,
ZIRCONIUM, BERYLLIUM



Eastern Kazakhstan -6
Kostanay -6
Karagandy.-4
Zhambyl.-3
Zhetisu-2

Aqmola-1
Turkestan. - 1
Ulytau-1
Atyrau-1

More than

\$46

bill

LIST OF DEPOSITS PUT UP FOR AUCTION

No	The name of the deposit	Type of a mineral	Deposits	Value (billions \$)
1	KUIBYSHEVSKOE	<i>quartzite</i>	476 thousand tons	0,056
2	NARKYSYL	<i>barit</i>	18,19 thousand tons	0,007
3	TIESAI	<i>phosphorite</i>	phosphorites - 5472 thousand tons	7
4	KAINAZAR	<i>colored stones</i>	14,7 tons	-
5	PRIOZERNOYE, UCH. CARIERNYI	<i>Brown coal</i>	341922 thousand tons	14,7
6	ZHANISPAY	<i>coal</i>	353739 thousand tons	15,2
7	VARVARINSKOE (PLOT 3)	<i>bauxite</i>	2000 thousand tons	0,6
8	TOBOLSKOE (PLOT 2)	<i>titanium, zirconium</i>	titanium - 407 thousand tons, zirconium - 47,4 thousand tons	0,99
9	SEVERNOYE (UCH. VOSTOCHNY)	<i>bauxite</i>	2049 thousand tons	0,83
10	SEVERNOYE (UCH. SEVERNY)	<i>bauxite</i>	150 thousand tons	0,036
11	BOGEMBAY	<i>coal</i>	161883 thousand tons	0,007
12	KENESBAI	<i>gold, ore</i>	pyda - 21 thousand tons, gold - 145,3 kilogram	0,088
13	SULUSHOKY	<i>gold, silver, ore</i>	gold - 84 kilogram	0,026

LIST OF DEPOSITS PUT UP FOR AUCTION

No	The name of the deposit	Type of a mineral	Deposits	Value (billions \$)
14	BOSAGA	<i>wollastonite</i>	5127 thousand tons	1,6
15	SURPRIZ	<i>wollastonite</i>	755,3 thousand tons	1
16	DEPOSIT 108	<i>boron ores</i>	35,3 thousand tons	0,176
17	USHBULAK	<i>acбecm</i>	6,7 thousand tons	0,0024
18	TURSUN-TORE	<i>gold</i>	342 kilogram	0,003
19	TASTY-BIEN	<i>gold</i>	187 kilogram	0,031
20	ZHEDESY	<i>gold</i>	72,04 kilogram	0,004
21	KHAIRYUZOVSKOYE (OSTANETS 3, OSTANETS 2, OSTANETS 5)	<i>wollastonite</i>	983 thousand tons	0,325
22	KENDYRLYKSKOYE, KARAUNGUR SECTION	<i>coal</i>	4 927 thousand tons	0,519
23	KENDYRLYKSKOYE, COAL FIELD	<i>coal</i>	10 043 thousand tons	0,432
24	BELOGORSKOE	<i>rare metals</i>	beryllium-1 358 tons; tin-617 tons; tantalum – 243 tons, niobium – 224 tons	2
25	KENDYRLYKSKOE, 1ST FIELD	<i>coal</i>	11 281 thousand tons	0,485

46,1

COOPERATION CONTACTS



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It is possible to obtain **geological information** on the deposits for auction on a paid basis
in JSC "National Geological Service"



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Teasers in English



Teasers in Russian

RARE AND RARE-EARTH METALS

13

types of products

		tons
1	Titan	 16,6 thousands
2	Beryllium (beryllium ligature)	 1,3 thousands
3	Tantal	 160
4	Niobium	 12
5	Rhenium	 1,5
6	Osmium	 -
7	Vanadium	 800
8	Stibium	 530
9	Rare Earth Concentrates	 600
10	Selenium	 70
11	Bismuth	 20
12	Scandium	 13
13	Tellurium	 2

Rare Earth Concentrates

CONCENTRATE	LICENSES & CONTRACTS	DEPOSITS	TOTAL DEPOSITS <i>Thousand tons</i>
 Lithium	3 licenses	4	46
 Wolframium	13 contracts	8	2 185
 Molybdenum	31 contracts	11	1 080
 Tantalum	4 contracts	13	4,5
 Niobium	5 contracts	9	28
 Niccolum	7 contracts	29	1 909
 Cobaltum	19 contracts	28	198

SCOPE OF APPLICATION



Batteries and rechargeable batteries



Microcircuits



Solar power



Lasers



Sensors



Aerospace industry

INTERNATIONAL INDUSTRY EXHIBITION

The Prospectors & Developers Association of Canada (PDAC)

5 - 8 March 2023

Toronto, Canada



**THE WORLD'S PREMIER
MINERAL EXPLORATION
& MINING CONVENTION**

Main objectives of the exhibition:

- Supporting the competitive mineral sector
- Expanding the industrial cooperation with regional and international partners
- Developing export potential and attracting investments into subsoil use



HIGHLIGHTS:



350

Companies



100

Countries



10 000

Visitors



10 000

Exhibition area



37

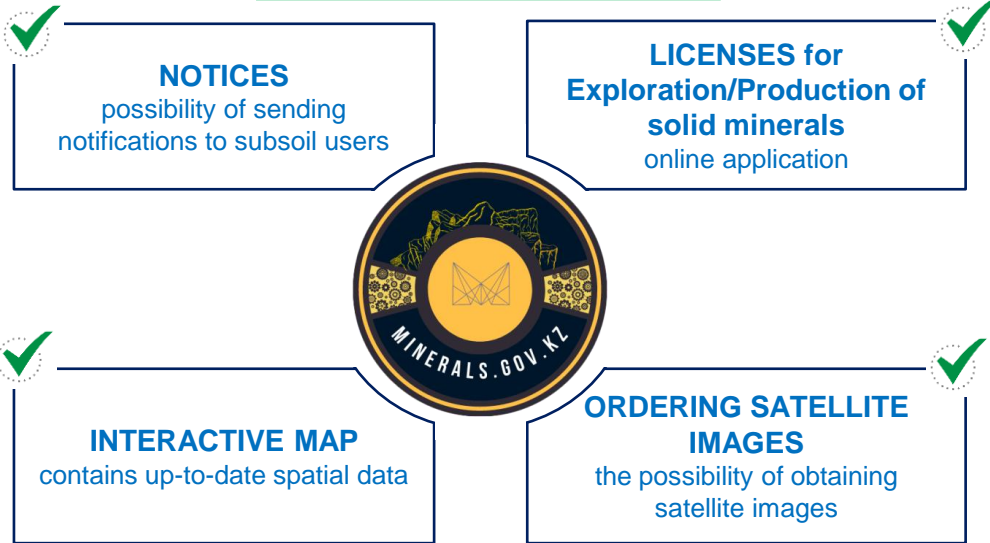
Business events



60

Speakers

A UNIFIED PLATFORM OF SUBSOIL USERS WWW.MINERALS.GOV.KZ



FEATURES TO BE ADDED

- Generating Reports
- Applying for licenses
- Transferring the right of subsoil use
- Amending the contracts
- Reissuing and revocating licenses

COOPERATION CONTACTS



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