KAZATOMPROM
NATIONAL ATOMIC COMPANY

Investor Handout

FY 2021

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THE INFORMATION WITH RESPECT TO ANY PROJECTIONS PRESENTED HEREIN IS BASED ON A NUMBER OF ASSUMPTIONS ABOUT FUTURE EVENTS AND IS SUBJECT TO SIGNIFICANT ECONOMIC AND COMPETITIVE UNCERTAINTY AND OTHER CONTINGENCIES, NONE OF WHICH CAN BE PREDICTED WITH ANY CERTAINTY AND SOME OF WHICH ARE BEYOND THE CONTROL OF THE COMPANY. THERE CAN BE NO ASSURANCES THAT THE PROJECTIONS WILL BE REALIZED, AND ACTUAL RESULTS MAY BE HIGHER OR LOWER THAN THOSE INDICATED. NONE OF THE COMPANY NOR ITS SHAREHOLDERS, DIRECTORS, OFFICERS, EMPLOYEES, ADVISORS OR AFFILIATES, OR ANY REPRESENTATIVES OR AFFILIATES OF THE FOREGOING, ASSUMES RESPONSIBILITY FOR THE ACCURACY OF THE PROJECTIONS PRESENTED HEREIN.

KAZATOMPROM OVERVIEW

About Kazakhstan

A PEACEFUL COUNTRY

The first country to voluntarily give up **nuclear weapons**

The first country in Central Asia in **UN Security Council**

AN ECONOMICALLY STABLE COUNTRY

52nd largest economy by GDP according to World Bank 2020 ranking (from 101st in 2000)

Gross foreign investments
~376 billion USD since 1991

Credit ratings
- Moody's – Baa2 positive (2021)
- S&P BBB-/A-3 stable (2021)
- Fitch BBB stable (2022)

A PRO-BUSINESS COUNTRY

25th according to World Bank 2019 **"Ease of Doing Business"** ranking (from 63rd in 2010)

4th in terms of Enforcing Contracts and 7th in terms of Protecting minority investors according to World Bank

A FAST DEVELOPING ECONOMY

9th largest country by territory

19.0 mln population (2021)

-3.8% GDP growth vs -5.9% growth in Europe and Central Asia (2020)

9,233 USD GDP per capita (2021)

9% average **GDP growth** rate (2005-2017)

6.7% inflation (2020)

426.03 average **KZT/USD** exchange rate (2021)

AN ABUNDANT NATURAL RESOURCES

~5,000 deposits

99 out of **150** periodic table elements

#1 zinc, tungsten, barite reserves

#2 uranium, chromite, argentum, lead reserves

#6 gold reserves

#7 coal reserves

#12 oil reserves

#24 gas reserves

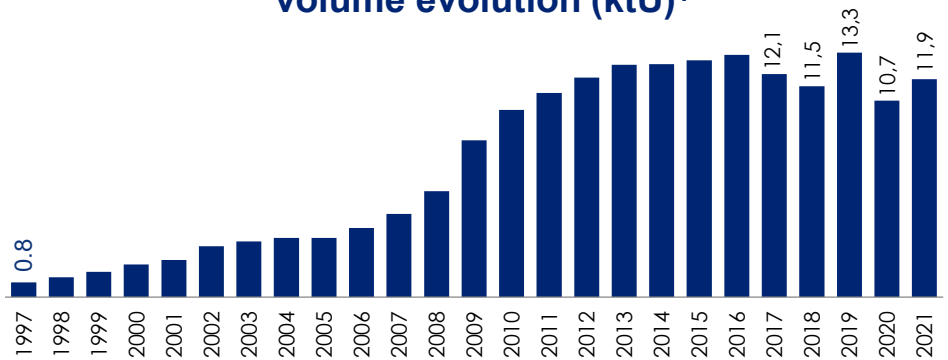
Kazatomprom at-a-Glance

Largest producer of natural uranium with priority access to one of the world's largest reserve bases

№1

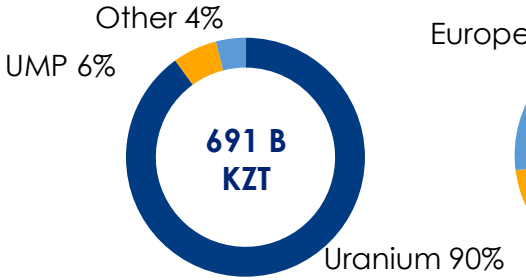
In URANIUM Production & Sales

KAP attributable production volume evolution (ktU)[1]

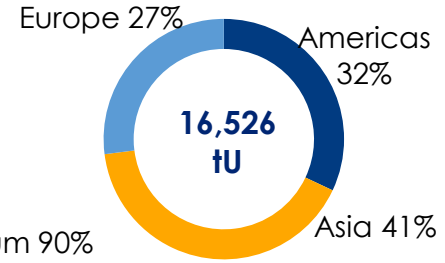


- **14 mining units**
  2 exploration projects
- **24% share of global production in 2021**
  351 ktU in attributable reserves
- **1st quartile cost of production**
- **100% reserve base amenable to In-Situ Recovery ("ISR") mining method**
- **12 producing JVs with world-class partners**
- **Significant uranium processing, fuel pellets and FA production capabilities at UMP**

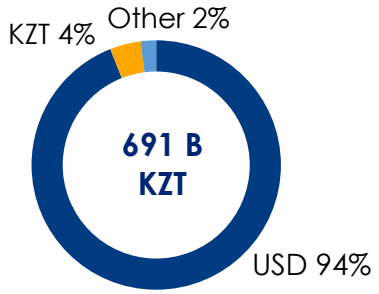
Group revenue by segment FY21[2]



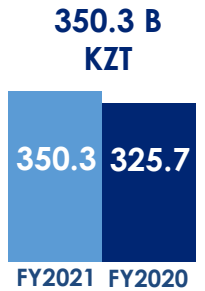
Group uranium sales by regions FY21[4]



Group revenue by currency FY21[3]



Adjusted EBITDA FY21[5]



Source: Company information, third-party sources

[1] *Production volumes of U_3O_8 (attributable basis) is not equal to the volumes purchased by Company and THK*

[2] *Based on consolidated FY2021 U_3O_8 Segment Sales*

[3] *At average USD:KZT exchange rates for the relevant periods, i.e. 426.03 average for FY2021*

[4] *Based on the FY2021 consolidated financial statements as at 31 December 2021*

[5] *Adjusted EBITDA is calculated by excluding from EBITDA items not related to the main business and having a one-time effect*

Kazakhstan – Central to the Industry

12 Joint Ventures located in **Kazakhstan** with nuclear industry leaders

- **Canadian JV**
  JV Inkai, 60% (1996)
- **Chinese JV**
  Semizbai-U, 51% (2008)
  Ortalyk, 51% (2021)*
- **French JV**
  Katco, 49% (1996)
- **Japanese JVs**
  Appak, 65% (2005)
  Baiken-U, 52.5% (2006)
- **Russian/Japanese JV**
  Khorasan-U, 50% (2014)
- **Russian JVs**
  Karatau, 50% (2007)
  Akbastau, 50% (2006)
  SMCC, 30% (2014)
  JV Zarechnoye, 49.98% (2001)
- **Kazakh JV**
  Budenovskoye, 51% (2016)

Cameco

CGN

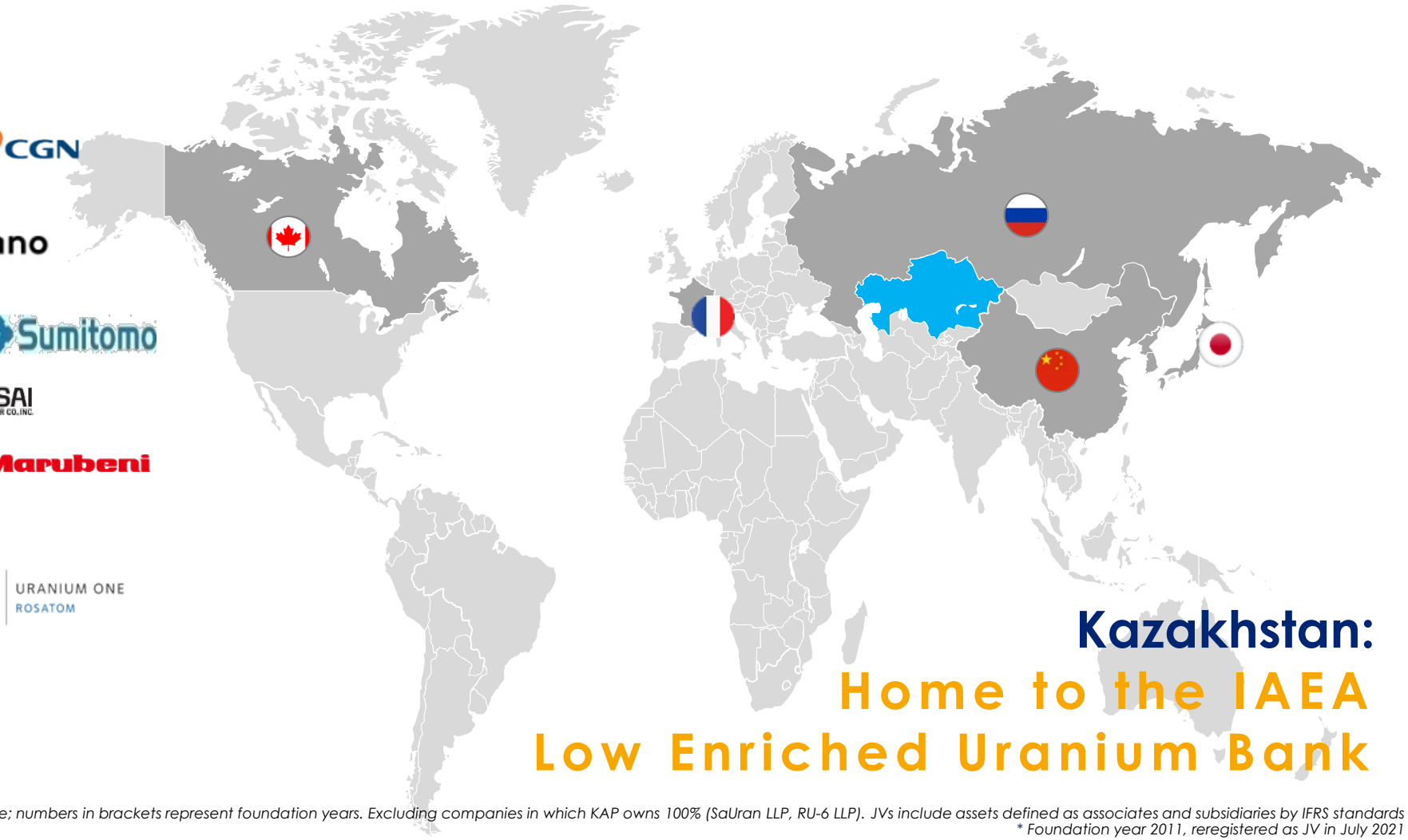
orano

Sumitomo

THE KANSAI ELECTRIC POWER CO.,INC.

Marubeni

URANIUM ONE ROSATOM

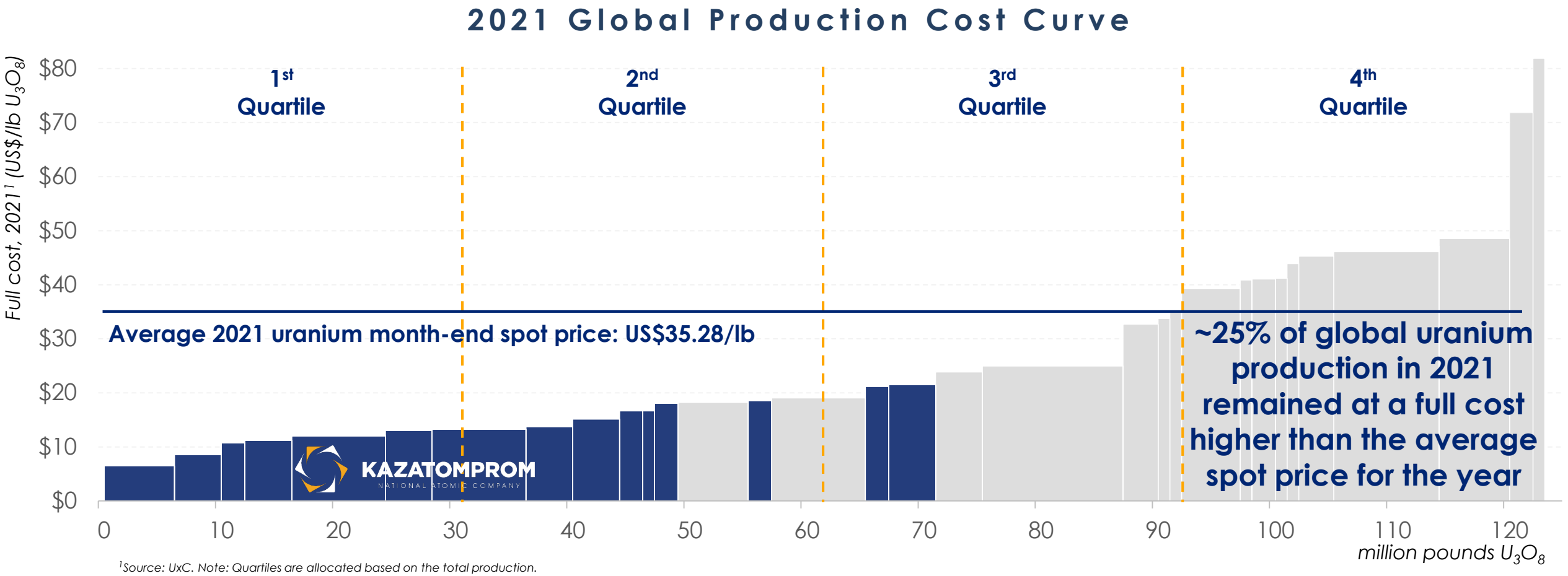


Kazakhstan:
Home to the IAEA
Low Enriched Uranium Bank

Percentages indicate KAP ownership stake; numbers in brackets represent foundation years. Excluding companies in which KAP owns 100% (SaUran LLP, RU-6 LLP). JVs include assets defined as associates and subsidiaries by IFRS standards
** Foundation year 2011, reregistered as JV in July 2021*

One of the Lowest Cost Producers

Low cash costs driven by cost-efficient ISR mining method



[1]*Source: UxC. Note: Quartiles are allocated based on the total production.*
UxC's Full Cost consists of operating and capital costs across company projects. Operating costs are made up of mining costs, hauling, milling, production/property taxes, environmental costs, and royalty severance tax. Capital costs are made up of acquisition/exploration costs, mine development costs, mill construction costs, environmental/infrastructure costs, and General & Administrative costs.

Investment Thesis

Largest producer, lowest costs, flexible production

Resilient financials, committed to sustainable returns

Largest ISR uranium reserves, priority access to Kazakhstan's resources

Solid health, safety and environmental records, commitment to strong ESG

Positioned for growth, global customer portfolio

Committed to high international standards of governance

VALUE-FOCUSED MARKET LEADERSHIP

#1 U_3O_8 PRODUCTION SALES

24% of Global Production (2021)

100% In-Situ Recovery mining

Realigning Strategy with the Market

- Focus on uranium mining as our core business
- Optimize production & sales based on market conditions
- Enhance marketing & sales capability to create value
- Implement best-practice business processes
- Develop a corporate culture suitable for an industry leader

VISION: To be the partner-of-choice for the global nuclear fuel industry

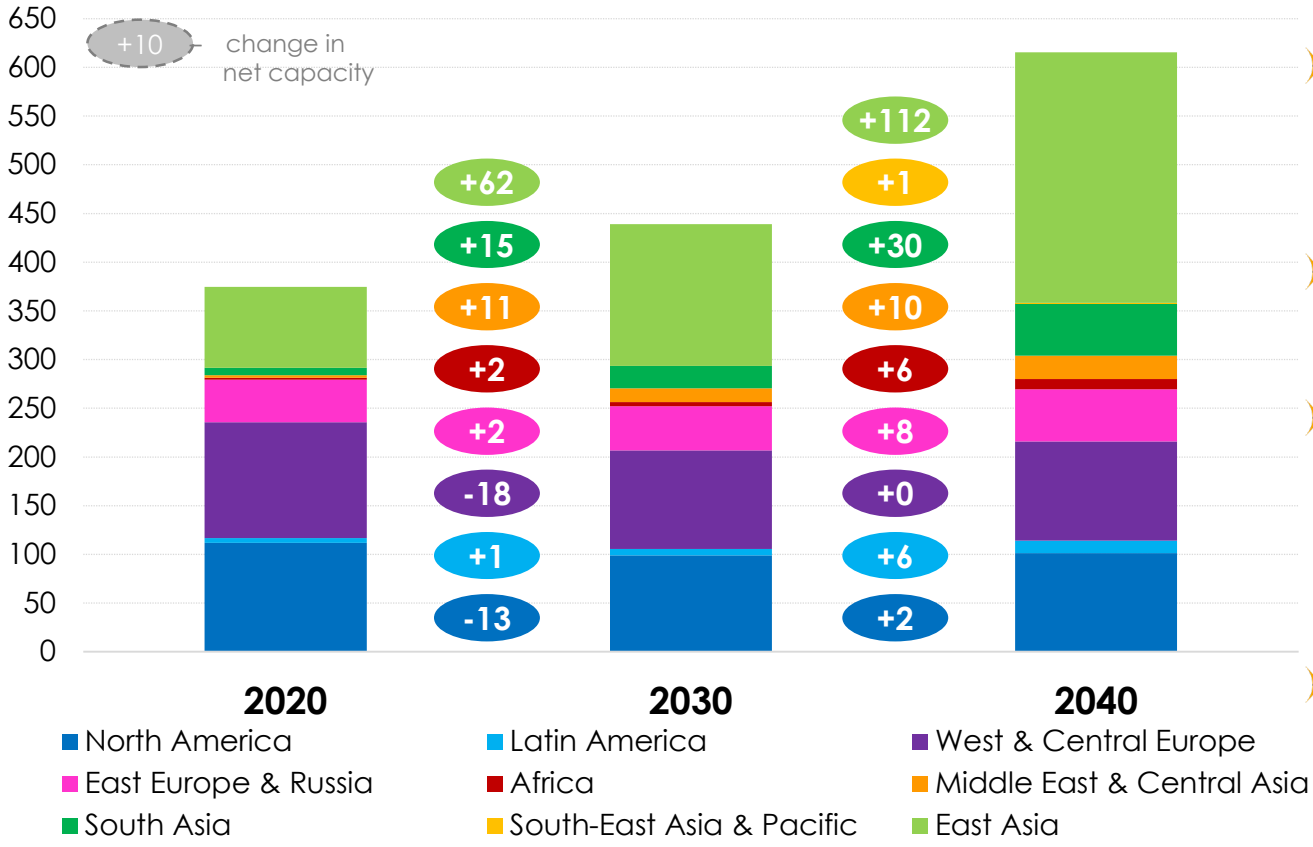
MISSION: To sustainably develop our uranium deposits and their value chain components to create long-term value for all our stakeholders

URANIUM MARKET OVERVIEW

Strong Long-Term Fundamentals

Nuclear electricity growth translates to uranium demand

2020-2040 Nuclear generating capacities
(WNA Reference Scenario, MWe net)



- Safe, clean, and reliable baseload energy source
- Nuclear currently about 10% of installed capacity, forecast to retain market share and growing ~2.5% per year
- Benefits from low operating cost and provides energy fuel diversity
- Strong pipeline of new nuclear projects in Asia, Middle East, and Eastern Europe offsets expected closures and phase-outs in Western Europe and the US
- SMRs possibly reshaping the industry. Deployment opportunities in Argentina, Canada, China, Estonia, Ghana, Jordan, Poland, Russia, Saudi Arabia, USA, UK, etc.

Source: WNA

Blue-Sky Long-Term Demand Drivers

New nuclear capacity supported by demand for clean energy

55%[1]

EU emission reduction target by 2030

68%[2]

Populations in cities by 2050 (55% in 2017)

145 million[3]

Electric cars by 2030 (11m in 2020)

76%[3]

Increase in electricity demand by 2050

> 110 COUNTRIES COMMITTTED TO BECOMING CARBON NEUTRAL BY 2050

> 20% OF THE WORLD'S 2,000 LARGEST PUBLIC COMPANIES HAVE COMMITED TO "NET-ZERO" EMISSIONS

[1] *Source: European commission. Compared to 1990 levels.*
[2] *Source: United Nations*
[3] *Source: IEA*

Long-Term Supply/Demand Dynamics

Policy Developments

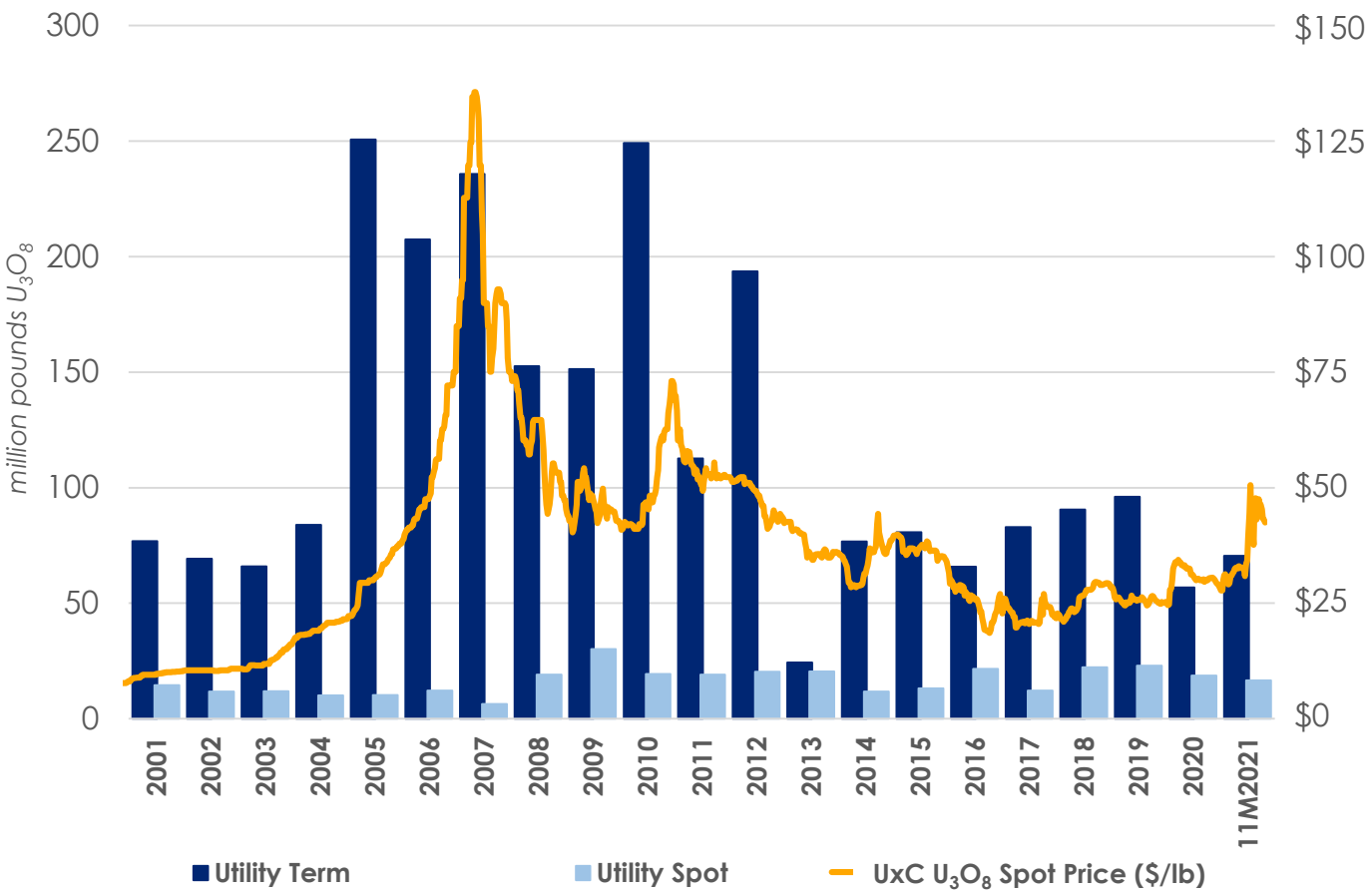
- China at 51GW nuclear, 14th 5-year plan calling for 70GW by 2025
- France postponing NPP reduction plans, building new nuclear
- US extending NPP operating licenses
- EU taxonomy for sustainable finance covers certain nuclear energy activities
- Japan's energy policy targets 20-22% nuclear share in energy mix by 2030
- Countries committing to a legally binding target of net-zero emissions

Positive Long-term Fundamentals

- Widening supply and demand gap
- Declining role of secondary supplies over the next decade
- Long lead time for new mine development
- Producers have cut CAPEX by >2/3 since 2013
- Utilities entering a major long-term contracting cycle
- Robust financial demand driven by strong long-term fundamentals

Historic Demand – A Long-term market

Historical annual spot and term trading volumes



- **2005-2012** – significant long-term contracting, rolling off in early 2020s
- **2012-2017** – oversupplied market resulting in falling prices
- **2018-2019** – market balanced following significant production cuts
- **2020-2021** – limited utility contracting due to COVID-19 pandemic and high price volatility
- **2022-2030** – forecast uncovered demand of ~580[1] million pounds U_3O_8, utilities expected to return to the market

[1] *Source: UxC, with permission.*

Near-Term Volatility

Demand aspects

- Significant global trade and energy security uncertainty emerging following Russian-Ukrainian war
- EU lawmakers classified specific nuclear activities as green energy
- Japanese nuclear industry recovery delays
- Juniors/ developers and producers entering a thinning spot market to buy physical uranium
- Rising Unconventional Demand:
  - Demand from financial players
  - Strategic inventories (warehouses, storages, hubs)

Supply aspects

- COVID-19 reshaped primary supply picture through 2020-2021
- Sanctions against Russia creating supply chain challenges and enhanced risk
- Depletion of Major Mines in Australia and Africa in 2021
- Production cuts by all major producers
- Accelerated global inventory drawdown
- Declining secondary supplies (down >20% by 2025[1], excluding commercial inventories)
- Positive price movement attracting renewed exploration/development

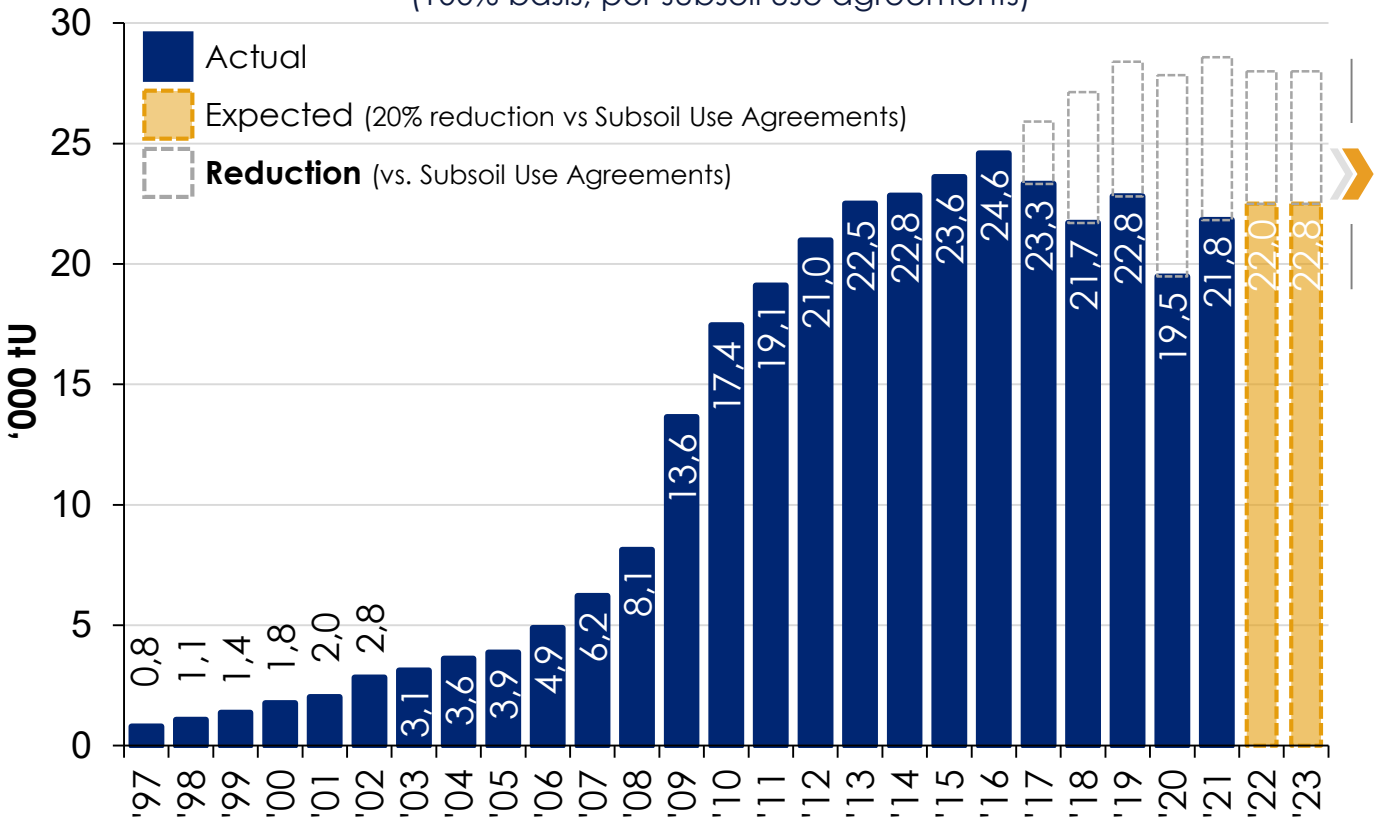
[1]according to third-party estimates

Committed to Market Discipline

2018-2020 production cut now extended through 2023

Kazakhstan Production Volume

(100% basis, per subsoil use agreements)



Source: Competent Persons' Report on the Mineral Assets of JSC Kazatomprom NAC, Republic of Kazakhstan, Kazatomprom IPO Prospectus, October 31, 2018

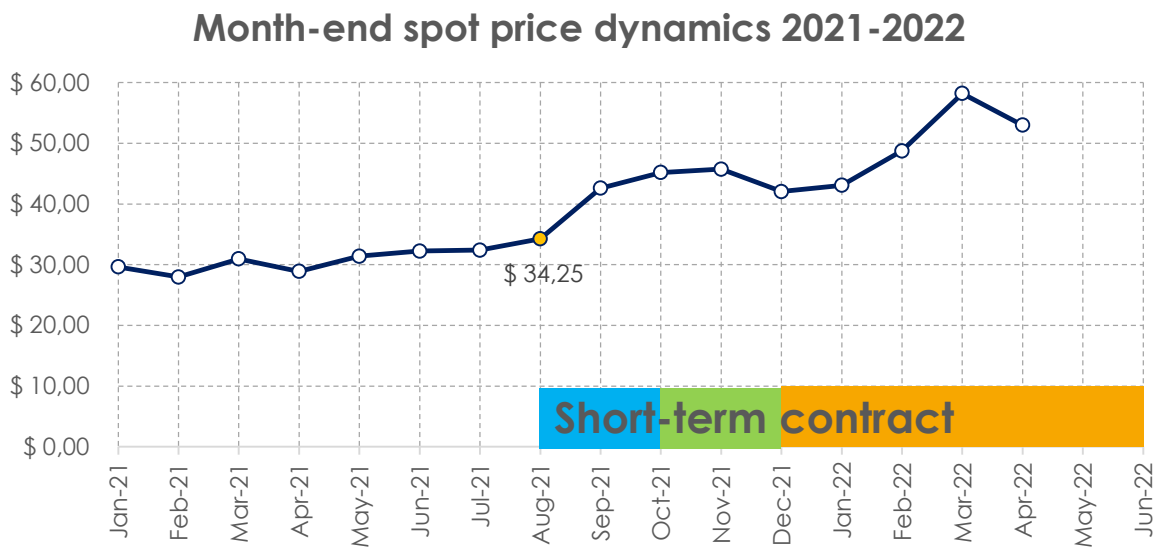
Significant supply impact

- 2017-2021: Reduced **~29,400 tU** total (including **~3,300 tU** total due to COVID- 19 impact)
- 2021-2023: up to **~11,200 tU** total
- Maximum flex down under subsoil law, committed to a strategy driven by value and not production volume

Sales discipline

- Focus on growing long-term contract book
- Engaging in long-term sales when aligned with value strategy

Pricing Methodology Provided by TPL[1]



- Under short-term contracts the price is fixed on the offer date
- Given the time allotted by Kazakhstani Transfer price legislation, the delivery date (at which the sales revenue is recorded) could take up to ten months from the offer date

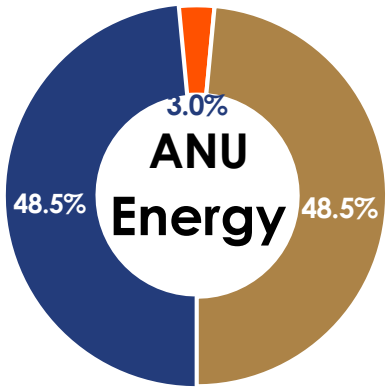
[1] *Transfer Pricing Law of the Republic of Kazakhstan, Pricing methodology for Uranium concentrates*

Investing in Physical Uranium

ANU Energy physical uranium fund targeting Asia and Middle East

KAZATOMPROM
NATIONAL ATOMIC COMPANY

GENCHI™
GLOBAL LIMITED



National Investment Corporation of the National Bank of RK (NIC)

First stage
Seed investment
KAP, NIC, Genchi

US $50 mln

Second stage
Public or private placement

Up to US $500 mln

- The Fund is an independent entity and not KAP's subsidiary
- Investment in the Fund aligns with KAP's value-over-volume strategy
- KAP will be a key supplier of uranium
- A number of mechanisms in place to ensure responsible management of the fund's uranium:
  - lock-up period
  - price threshold
  - priority right for KAP to repurchase uranium

Future Uranium Trading Hub

Alashankou Uranium Bonded Warehouse

- **2021 – 3,000 tU** proposed storage capacity
- **2023 – 13,000 tU** proposed storage capacity
- **2026 – 23,000 tU** proposed storage capacity

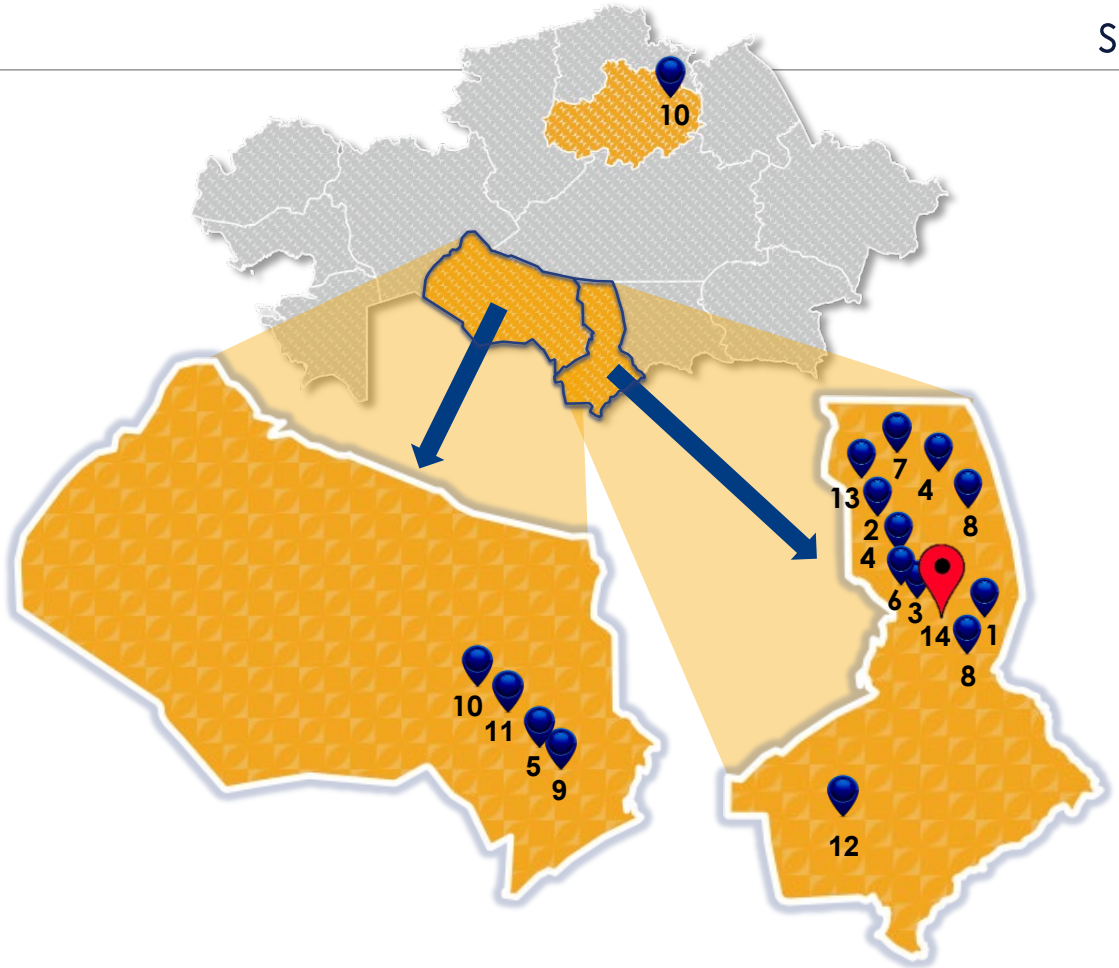
KAZATOMPROM x 2
NATIONAL ATOMIC COMPANY

- **23,000 tU** is equal to the annual production of Kazakhstan
- Roughly **double** the annual attributable production of Kazatomprom

Preparing to Meet Growing Demand

JV Budenovskoye

- Development of new Kazakh mines requires staged approval process, Budenovskoye moving to next stage
- Ramp-up during continued market transition (2024-2026) underpinned by market-related offtake contract with Russian nuclear fuel cycle
- Kazatomprom brings experience and proven economics
- Future low-cost supply will help maintaining competitive advantage, counteract longer-term inflationary pressure

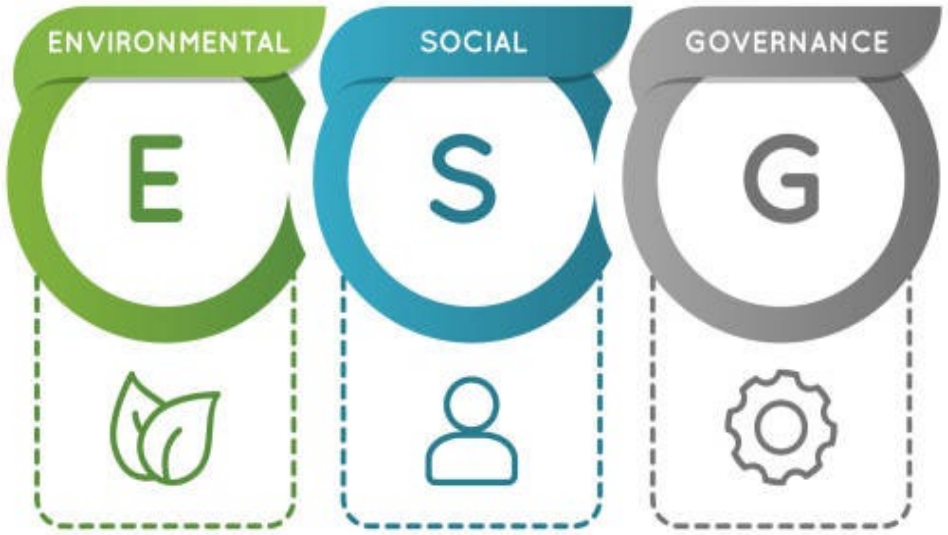


KAP's mining subsidiaries

1. Katko
2. Inkai
3. Karatau
4. SMCC
5. Kharasan-U
6. Akbastau
7. Ortalyk
8. KAP-SaUran
9. Baiken-U
10. Semizbai-U
11. RU-6
12. Zarechnoye
13. Appak
14. Budenovskoye

ESG OVERVIEW

Kazatomprom ESG Landscape



In 2021:

- **Company continued bolstering ongoing transition to a risk-based approach to meet transparent ESG reporting demands**
- **Received Corporate Governance Rating "A"**

Environment and Social

- KAP extracts uranium using in-situ recovery (ISR) mining, the most environmentally friendly production method
- Ongoing implementation of the Board-approved Environmental and Social Action Plan (ESAP)
- KAP's efforts to prevent COVID-19 and protect the health of employees and local communities has been successful in maintaining continuity of operations in 2021

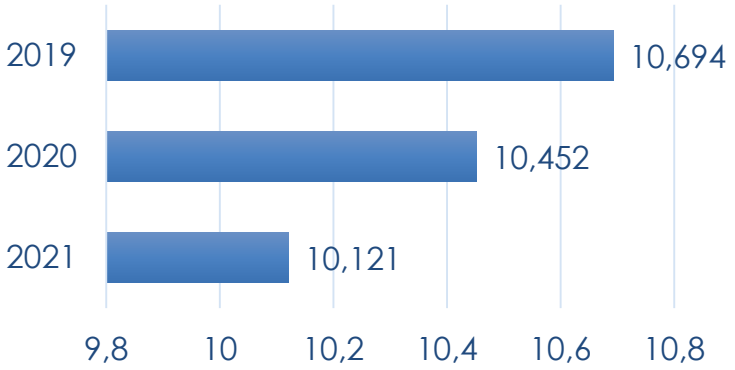
Governance

- Consistent integration of sustainable development principles into the corporate governance system
- Board composition, half of which are INEDs, with a gender diversity
- The Company's governance systems and principles comply with international standards recognised by the global economic community (OECD Principles of Corporate Governance)

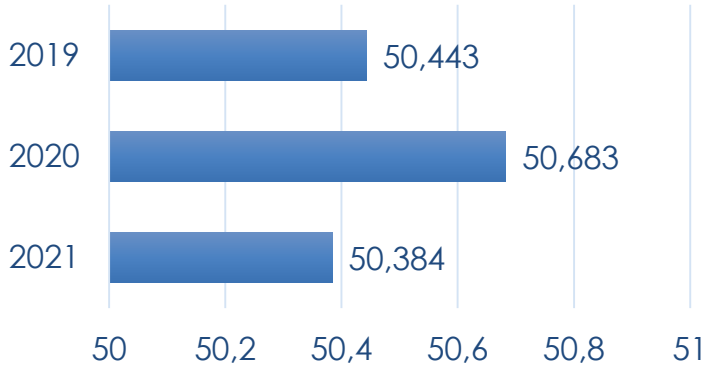
Environmental protection

Environmental protection, including effective water and land resource management, and reduction of emissions

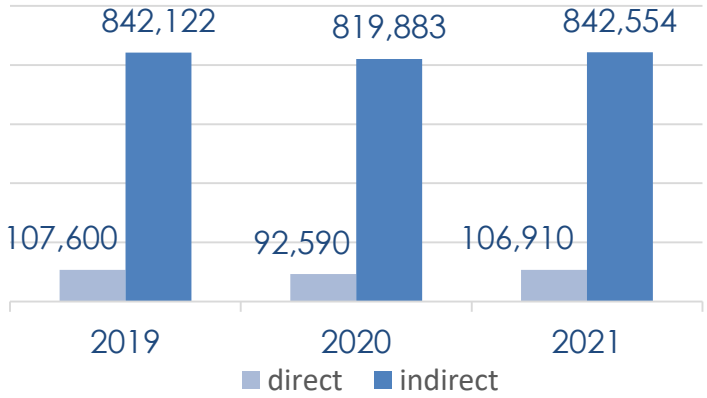
Total water withdrawal ('000 m³)



Total water recycled & reused ('000 m³)



Direct and indirect GHG emissions (t CO_2 equivalent)



- ✓ **KZT 206.96 million** invested to implement the Environmental and Social Action Plan (ESAP) in 2021
- ✓ All Group entities have implemented the energy management system in line with the ISO 50001

ISR mining method: inherently low environmental and radiological impact

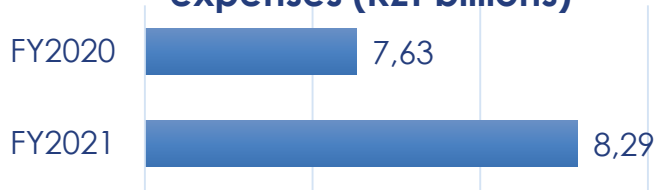
Strong Focus on Health and Safety

Health, safety, including nuclear and radiation safety are priorities

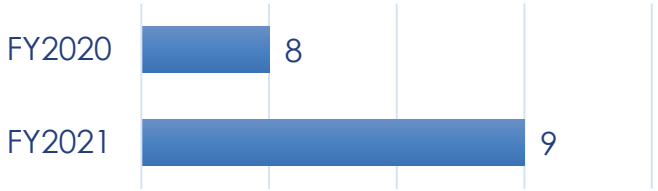
Kazatomprom companies certified ISO 14001, ISO 45001

- Strict government regulations, frequent inspections by state authorities
- Regular audits by Kazatomprom's HSE department
- Ongoing knowledge exchange with JV partners and partner audits
- Maintaining strong program governance per international standards

Health and Safety programs expenses (KZT billions)



Number of accidents*



Commitment to continuous improvement

- No environmental or radiation-related incidents year-to-date
- Vision Zero program: transformational approach to prevention, integrates safety, health and well-being at all levels of work
- Emphasis on safety with increased "near-miss" reporting, implementation of "STOP" work cards

Absence of any major environmental, industrial and radiation accidents in the Group's operations since inception

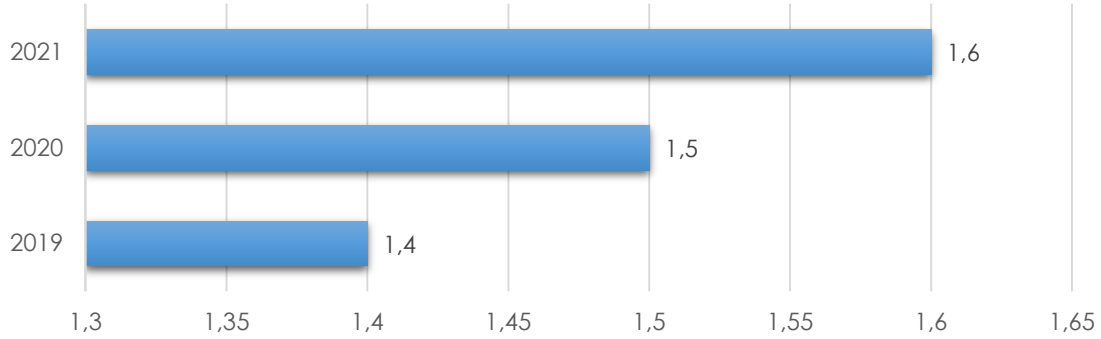
*Defined as impact on the employee of a harmful and (or) dangerous production factor in performance of his work (job) duties or tasks of the employer, which resulted in an industrial accident, sudden deterioration of health, or poisoning of the employee that led to temporary or persistent disability, or death

Social Impact

KAP recognizes the impact of its businesses on both local and global social development

- Stable Leadership Index
- KAP ranks among the top employers of choice in the industry
- Leadership Development Program aimed at developing managers at the levels of CEO, CEO-1, and CEO-2 (70% of the recent appointees are the successors from the management pool)

Social/ economic development contributions in regions near operations (KZT billions)



- Significant contributions to well-being and socioeconomic development of the regions of operations by:
  - generating significant tax revenues for regional budgets;
  - making payments to regional budgets under subsoil use contracts;
  - providing jobs for the local population

Corporate Governance

Commitment to high corporate governance standards

- KAP expanded the composition and gender diversity of the Management Team and Board
- Management and employee KPIs for HSE
- Top management availability for the investor community

Full commitment to the dividend policy

- Adopted new Dividend policy that increased the total dividends paid in 2021 (on 2020 results) versus the previous edition of the Dividend Policy
- KZT 150,082 million dividend paid in July 2021 (on 2020 results), representing an increase of 52% compared to 2020

Neil Longfellow
Independent Director since 2017
Chair of the Board

Russell Banham
Independent Director since 2018

Marc Kasher
Independent Director since 2020

Mazhit Sharipov
CEO, Board Member

Yernar Zhanadil
Board Member, SK representative

Nazira Nurbaeva
Board Member, SK representative

- ✓ 3 Board members including Chairman are **INED**s
- ✓ All Board committees chaired by **INED**s
- ✓ Board-level gender diversity

2021 GROUP HIGHLIGHTS

Recent Significant Events

January 2022: Protests in Kazakhstan

- Kazakh government declared temporary State of Emergency
- Restrictions on movement (remove in January)
- Short-term interruptions to the internet, banking and transportation sectors

No tangible impact on Kazatomprom's activities

- Operations continued without disruptions
- Existing risk management measures ensured stability of production and sales plans

February 2022: Escalation of the Russian-Ukranian conflict

- No sanctions against Kazakhstan or sanctions directly impacting Kazakh uranium industry
- Kazatomprom carefully monitors potential risks:
  - Partnership with Rosatom and five JVs through Uranium One
  - Transportation through Russian port for trans-shipment
  - Fluctuation of exchange rates
  - Supply chains and imports from or through Russian Federation

Kazatomprom is monitoring developments to ensure operations are not disrupted, mitigation plans are constantly revised/adjusted to manage changing risks

Mining Assets Production Breakdown*

Mining Asset	Partner	KAP Interest (%)	Accounting Treatment	Depletion (year) [1]	2021, tU as U_3O_8, (100% basis)	2020, tU as U_3O_8, (100% basis)
SaUran	100% KAP	100	Full consolidation	2048	1,493	1,230
RU-6	100% KAP	100	Full consolidation	2040	800	660
Appak	Sumitomo, KEPCO	65	Full consolidation	2037	805	633
Inkai	Cameco	60	Full consolidation	2051	3,449	2,693
Baiken-U	Energy Asia	52.50	Full consolidation	2033	1,230	1,181
Ortalyk	CGN	51[2]	Full consolidation	2042	1,579	1,308
Khorassan-U	Energy Asia, Uranium One	50	Full consolidation	2038	1,579	1,455
Akbastau	Uranium One	50	Proportionate	2039	1,545	1,363
Karatau	Uranium One	50	Proportionate	2032	2,561	2,460
Semizbai-U	CGN	51	Equity accounting	2042	962	753
Zarechnoye	Uranium One	49.98	Equity accounting	2028	655	648
Katco	Orano	49	Equity accounting	2035	2,840	2,833
SMCC	Uranium One	30	Equity accounting	2057	2,321	2,260
					21,819	**19,477**

Source: Company information.
** Excludes Budenovskoye, which is in the pilot mining phase (KAP share 51%). Amendment for the right to commence commercial production in 2024 under Subsoil Use Agreement was signed December 21, 2021.*
[1] Based on mine plans, KAP CPR, 2022 (Audit letter SRK Consulting)
[2] As of the end of July 2021 Kazatomprom retains 51% interest and CGNM UK Limited holds a 49% interest

2021 Non-Financial Highlights

Strong commitment to ESG

- Environmental protection record intact
- Continuously working to improve safety

2021 dividend payment 52% higher than in 2020

- Paid 2021 dividend of KZT 150 billion (nearly US$353M at time of payment)
- Dividend calculated based on new policy formula

Progress on Fuel Fabrication JV with CGNPC

- Completed sale of 49% share in Ortalyk LLP to CGNPC*
- Fuel fabrication plant to deliver first Kazakh-produced fuel assemblies to China in 2022

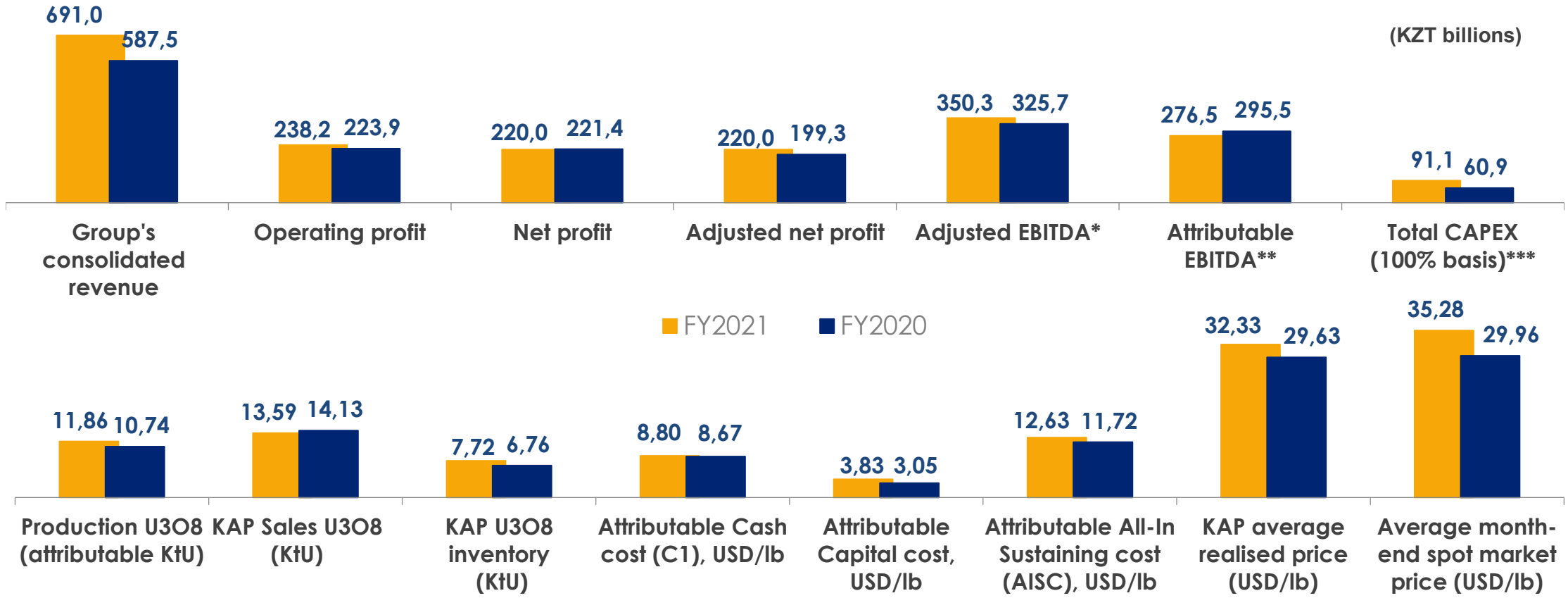
Value-over-volume strategy for production, market-centric approach to sales

- Extension of 20% production cut against subsoil use agreements through 2023
- ~ 5,000tU removed from future global supply

*Announced in July, 2021

FY2021 Highlights

Key financial, operational and sales metrics



* *Adjusted EBITDA is calculated by excluding from EBITDA items not related to the main business and having a one-time effect.*

** *Attributable EBITDA (previously "Adjusted Attributable EBITDA") is calculated as Adjusted EBITDA less the share of the results in the net profit in JVs and associates, plus the share of Adjusted EBITDA of JVs and associates engaged in the uranium segment (except JV "Budenovskoye" LLP's EBITDA due to minor effect it has during each reporting period), less non-controlling share of adjusted EBITDA of "Appak" LLP, JV "Inkai" LLP, "Baiken-U" LLP, "Ortalyk" LLP and JV "Khorasan-U" LLP, less any changes in the unrealized gain in the Group.*

Debt and Cash Overview

as at December 31, 2021

Gross debt: US$256m

- Debt of US$207m
- Off Balance sheet guarantees US$49m provided to JVs and Associates
- Almost 100% of Debt in USD, the currency of the most of the Group's revenue
- 100% of Debt at fixed rate

Cash and short-term deposits: US$373m

- KAP places cash in financially stable second-tier banks of the RK in form of short-term highly liquid instruments

Dividends

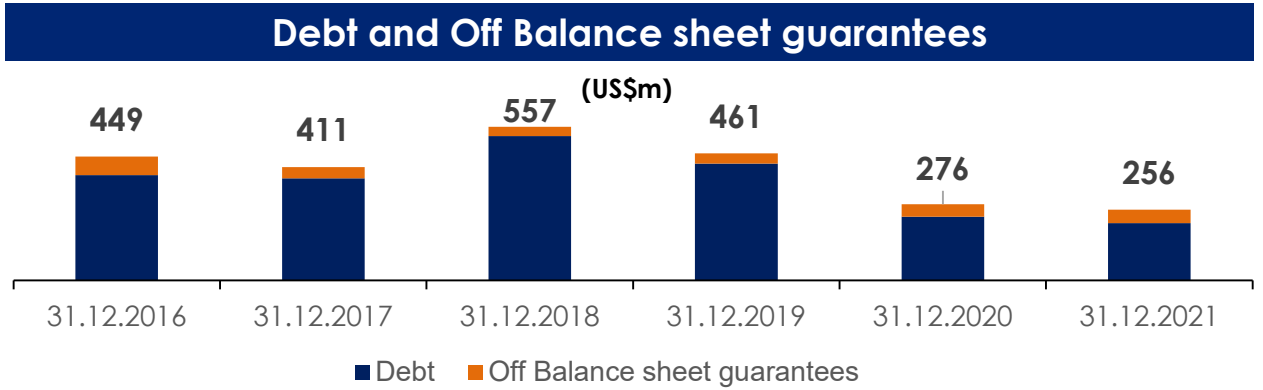
- In July 2021 KAP distributed a total amount of US$353m in dividends to its shareholders for the year 2020

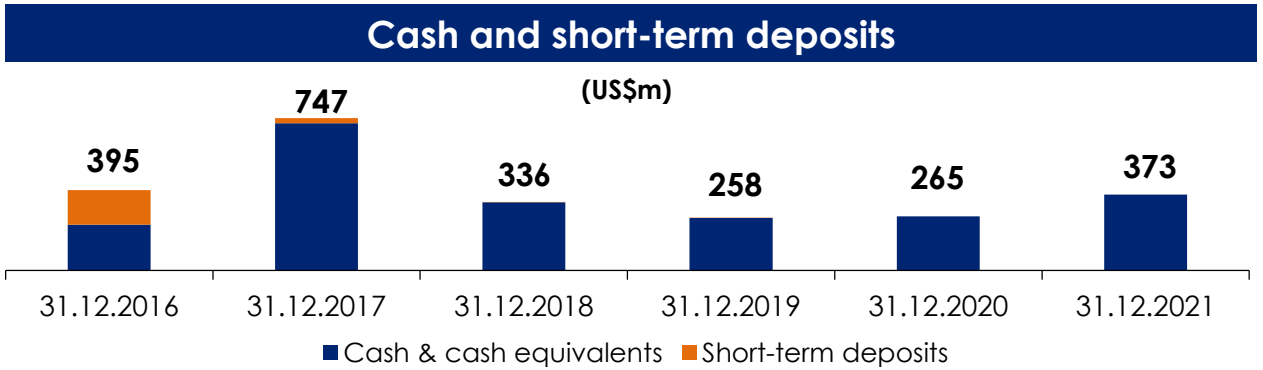
Net debt: US$(117)m

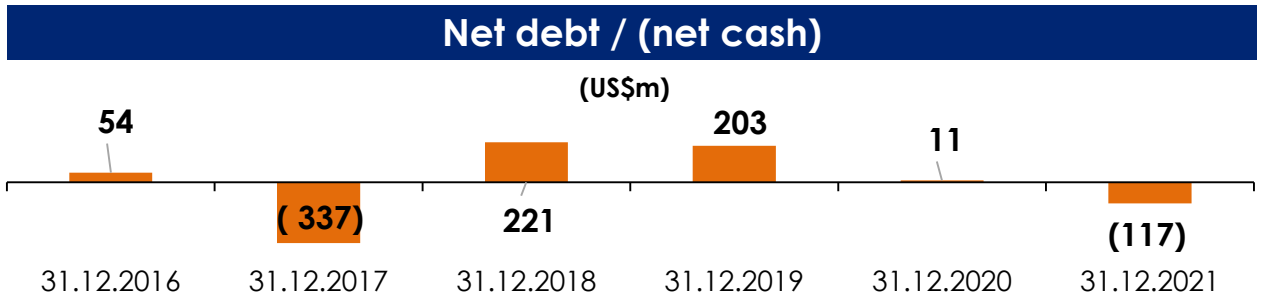
- Total available credit facilities of the Group is approximately US$412m, of which about 100% undrawn

FitchRatings **BBB- (Stable)**

Moody's **Baa2 (Stable)**







Source: Company information, IFRS financial statements.
Note: Gross debt primarily consists of Loans and Bonds issued, other items include Off Balance sheet guarantees and Finance lease liabilities. Net debt is calculated as Gross Debt – Cash and cash equivalents – Short-term deposits. Balance sheet items are converted into US$ at relevant spot US$:KZT exchange rates, i.e. 333.29, 332.33, 384.2, 381,18, 420,91, 431,8 for 31 December year-end of 2016, 2017, 2018, 2019, 2020, 2021

Dividend Policy

FCF is a base for dividend distribution, consistent dividends, compelling dividend yield

–	Cash flow from operating activities
–	Acquisition of PPE (incl. advances), Acquisition of intangible assets
+	Acquisition of mine development assets, Acquisition of expl/eval assets
+	Dividends from JVs/associates (claimed before AGM)
+	Dividends from JVs/associates (declared after AGM and not taken into account for the previous period)
+	Proceeds from sale of shares in subsidiaries and affiliates (net of cash outflows from shares' purchase)**
–	Purchase of investments in JVs/associates and other investments in cash
=	**Free cash flow**

Net Debt / Adj.EBITDA* **	≤ 1.0x	< 1.5x	≥ 1.5x
FCF payout ratio	min 75%	min 50%	Shareholders discretion

+100% proceeds from disposal of assets under the Comprehensive Privatization Plan 2016-2020

*** At the end of December 31 of the previous calendar year*

**** Excluding assets within the framework of the Comprehensive Privatization Plan for 2016-2020, approved by the Resolution of the Government of the Republic of Kazakhstan dated December 30, 2015 No. 1141, which are subject to distribution for payment of dividends in the amount of 100%*

Looking Ahead

2022 guidance – consistent focus on value strategy

Key performance indicators		2021 actual	Latest 2022 guidance[1]
Production volume U_3O_8 (100% basis) [2]	tU	21,819	**21,000 –22,000[3]**
Production volume U_3O_8 (attributable basis)[4]	tU	11,858	**10,900 – 11,500[3]**
Group sales volume (consolidated)[5]	tU	16,526	**16,300 – 16,800**
KAP sales volume (incl. in Group)[6]	tU	13,586	**13,400 – 13,900**
Revenue – consolidated	KZT billions	691,011	**930 – 950[7]** (previously 750-760)
Revenue from Group U_3O_8 sales (incl. in consolidated)	KZT billions	606.1	**790 – 810[7]** (previously 610-630)
C1 cash cost (attributable basis)	$US/lb*	$8.80	**$9.50 – $11.00**
All-in sustaining cash cost (attributable C1 + capital)	$US/lb*	$12.63	**$16.00 – $17.50**
Total capital expenditures of mining entities (100% basis)[7]	KZT billions	91.1	**160 – 170**

1 The KZT to USD rate continues to fluctuate and the planned 425:1 rate used as an original assumption was adjusted to 460:1 rate as per the updated budget; guidance will be updated if the recent fluctuations and uncertainty persists throughout 2022.
2 Production volume U_3O_8 (tU) (100% basis): Amounts represent the entirety of production of an entity in which the Company has an interest; it disregards that some portion of production may be attributable to the Group's JV partners or other third-party shareholders.
3 The duration and full impact of the COVID-19 pandemic is not yet known. Annual production volumes could therefore vary from our expectations.
4 Production volume U_3O_8 (tU) (attributable basis): Amounts represent the portion of production of an entity in which the Company has an interest, corresponding only to the size of such interest; it excludes the portion attributable to the JV partners or other third-party shareholders, except for JV "Inkai" LLP, where the annual share of production is determined as per Implementation Agreement as disclosed in IPO Prospectus.
5 Group sales volume: includes Kazatomprom's sales and those of its consolidated subsidiaries. Volume does not include approximately 225 tU equivalent delivered as UF_6 in 4Q21.
6 KAP sales volume: includes only the total external sales of KAP HQ and THK. Intercompany transactions between KAP HQ and THK are not included. Volume does not include approximately 225 tU equivalent expected to be delivered as UF_6 in 4Q21.
7 Revenue estimates have only been updated to account for a change in expectations for uranium price and exchange rate for the Kazakhstani Tenge. Revenue expectations are based on a uranium prices taken at a single point in time from third-party sources and on an internal exchange rate assumption of KZT460:USD1. There continues to be significant volatility in both uranium price and the tenge exchange rate. Therefore, 2022 revenue could be materially impacted by how actual uranium prices and exchange rates vary from the third-party and internal estimates respectively.
*8 Total capital expenditures (100% basis): includes only capital expenditures of the mining entities, excluding expansion investments **Note that the conversion of kgU to pounds U_3O_8 is 2.5998.*

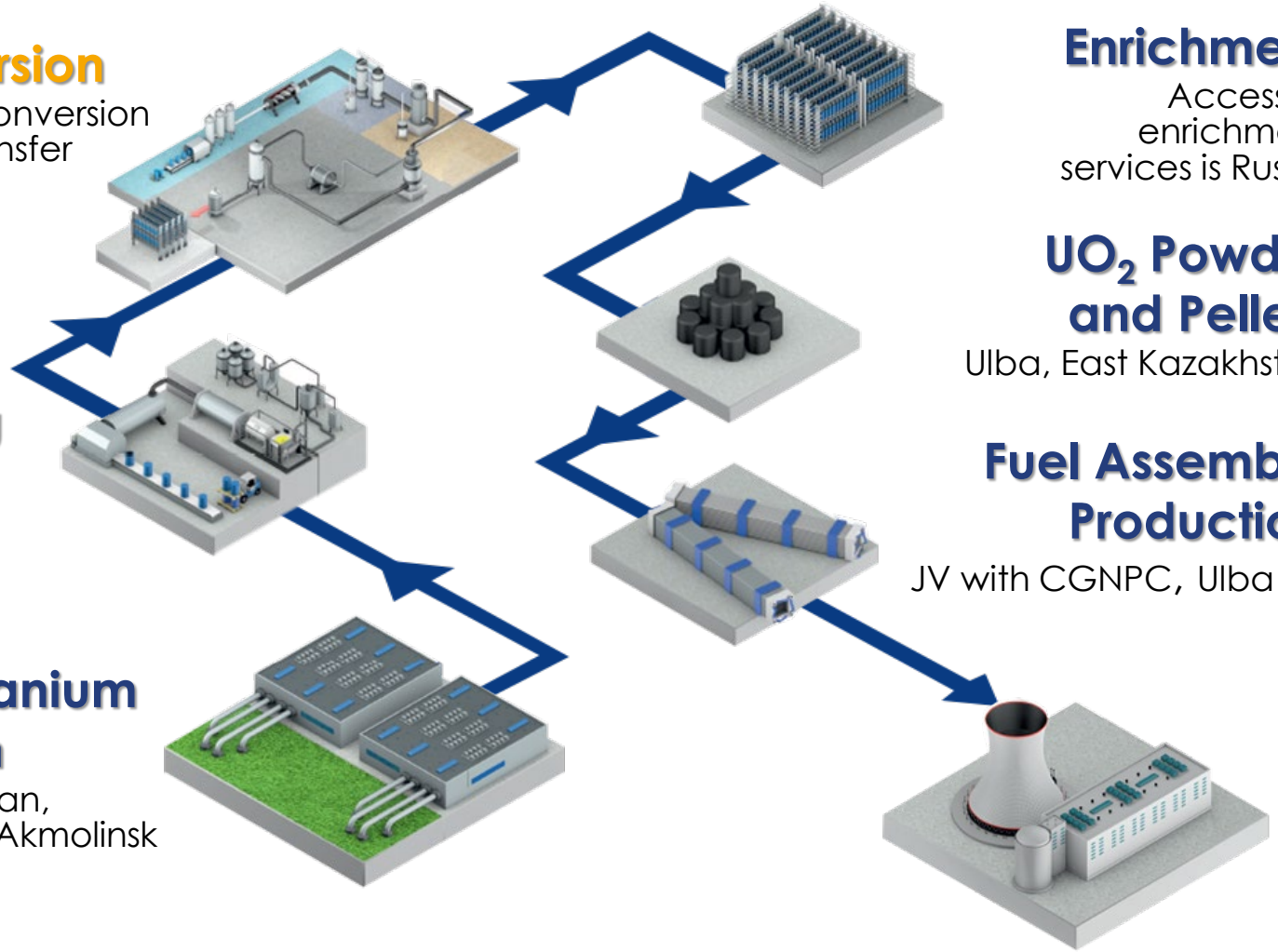
APPENDIX

The Nuclear Fuel Cycle

UF_6 Conversion
Refining and conversion technology transfer from Cameco

Uranium Processing
South and East Kazakhstan

FOCUS: Primary Uranium Production
South Kazakhstan, Kyzylorda and Akmolinsk



Enrichment
Access to enrichment services is Russia

UO_2 Powder and Pellets
Ulba, East Kazakhstan

Fuel Assembly Production
JV with CGNPC, Ulba FA

- Focusing on uranium mining as our core business
- Optimize production & sales volumes based on market conditions

● Kazatomprom is present ● Projects in development

Key Historical Milestones

pre-1997
- **Company established** as National Operator
- #13 global uranium producer

1998–2002
- Grew to #6 global uranium producer
- Expansion of exports to US, Europe, Chinese and South Korean markets

2003–2007
- #2 beryllium producer
- #4 tantalum producer
- First credit ratings assigned

2008–2012
- **#1 global uranium producer**
- Raised $500m with debut 5-year Eurobond
- Commissioned sulphuric acid plant

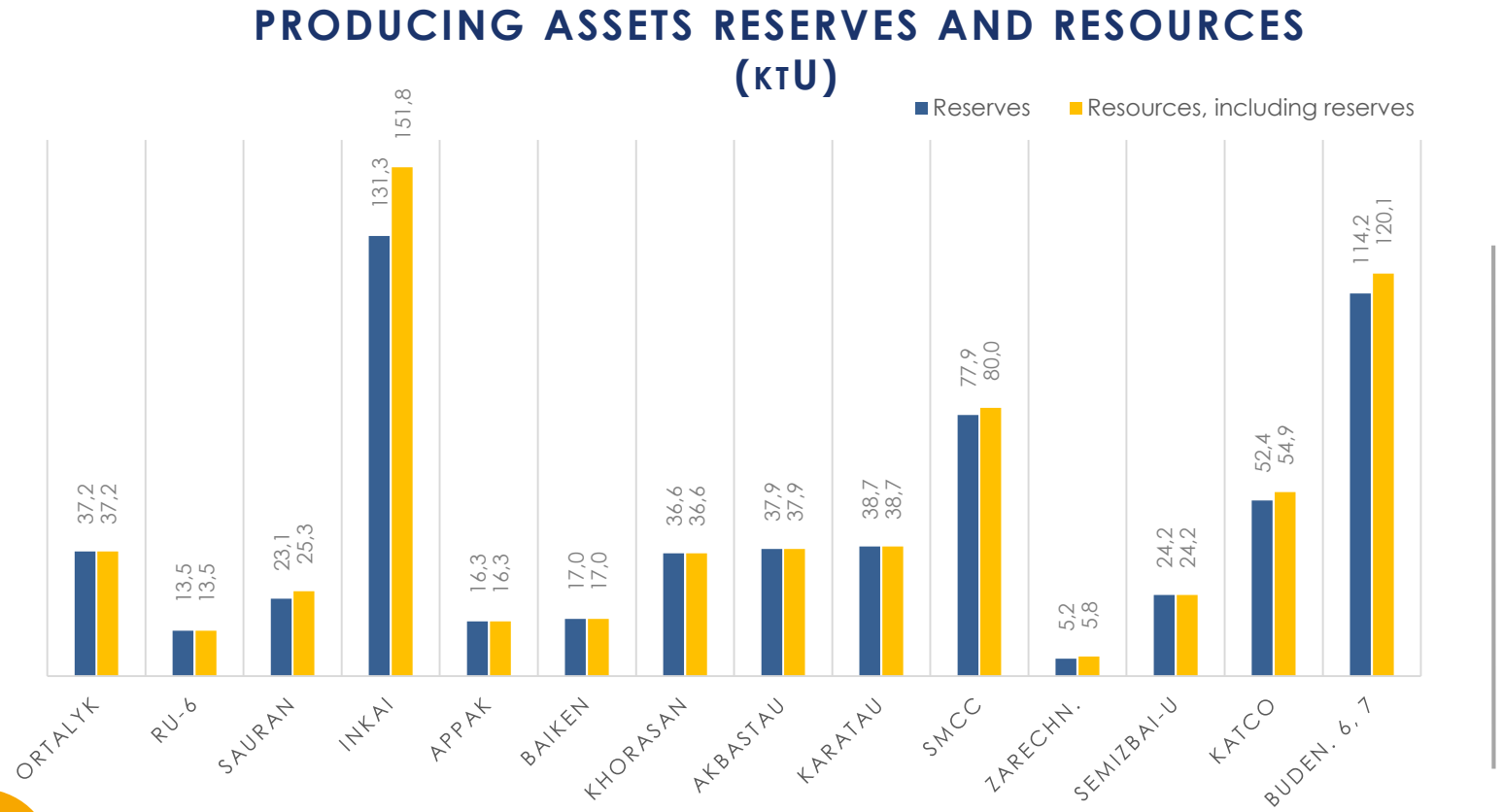
2013–2017
- Gained access to enrichment facilities in Russia
- Eurobond fully repaid
- Strategic agreement with China for FA

2018–2020
- Board of Directors adopts value strategy
- **Becomes #1 in uranium sales**
- **IPO Nov 2018, SPO by SK Sept 2019 and June 2020 – now a 25% free float**
- First AGM as a public company
- First Capital Markets Day

2021–2022
- Commissioned Ulba FA plant
- Invested into ANU Uranium Fund

Kazatomprom's Upside Potential

100% Mineable using in-situ recovery (ISR)



Upcoming exploration projects in the queue:

Inkai 3 block

- Contract Holder: KAP
- Contract Type: Exploration
- Resources / reserves: - / 83,158 tU

Inkai 2 block

- Contract Holder: KAP
- Contract Type: Exploration
- Resources / reserves: - / 42,001 tU

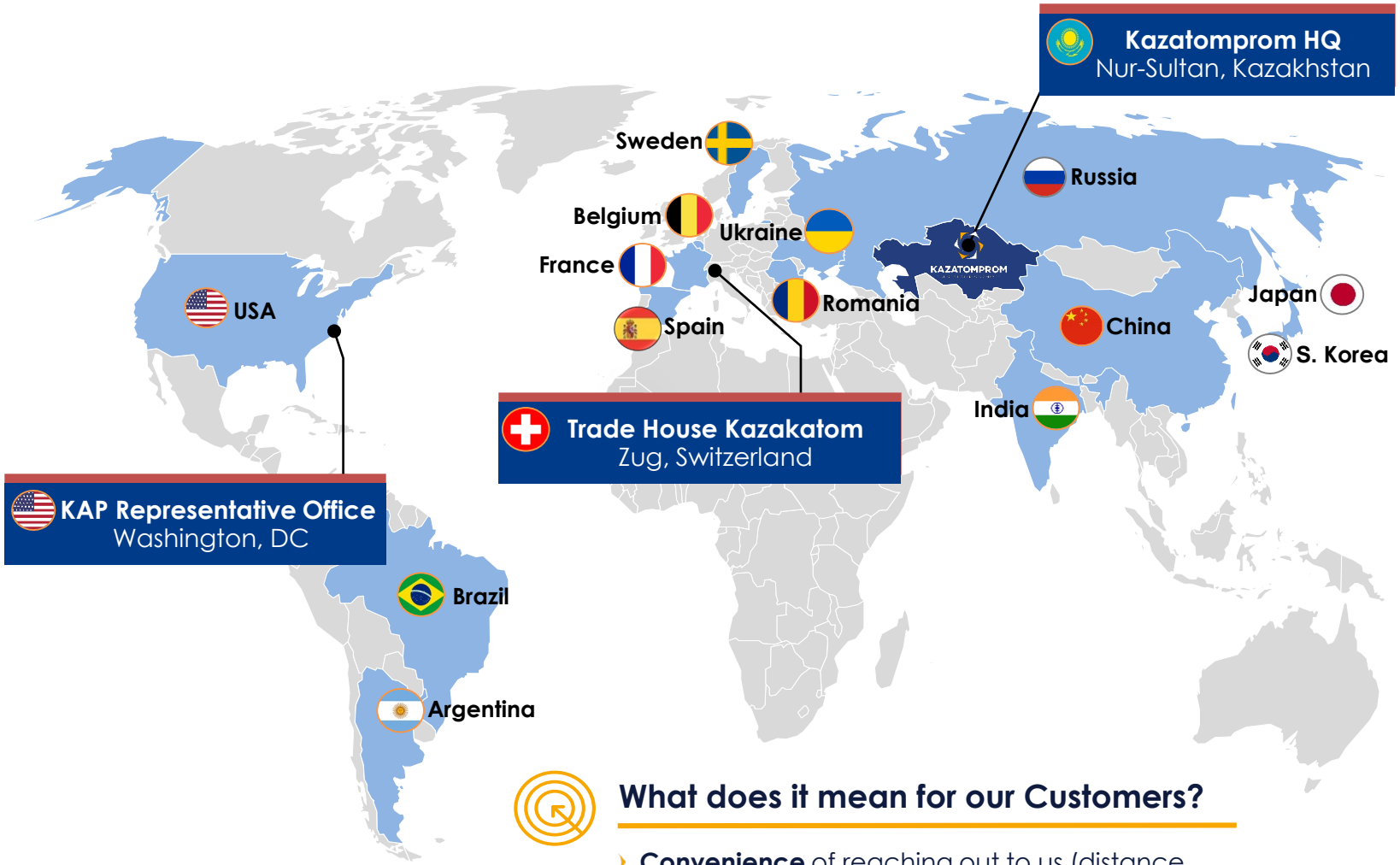
East-Zhalpak and East-Moinkum blocks

- Contract Holder: KAP
- Contract Type: geological survey
- Resources / reserves: 35,354 tU / -

Kazakhstan has 12% of the world's uranium resources (2nd largest in the world)[1] with 626 ktU in Reserves and 650 ktU in Resources, including reserves

1 According to World Nuclear Association, as of December 2021

Global Presence, Strong Customer Base



What does it mean for our Customers?

- **Convenience** of reaching out to us (distance and time zones)
- **Better localized** understanding of the markets

Kazatomprom has enjoyed:

- More than 20-years track record and reputation of delivering long-term reliability to its customers
- Supply contracts with most major nuclear utilities around the world
- Strong partnerships in Kazakhstan and abroad
- A logistical proximity to major growth markets allowing it to grow with the new nuclear entrants of Asia

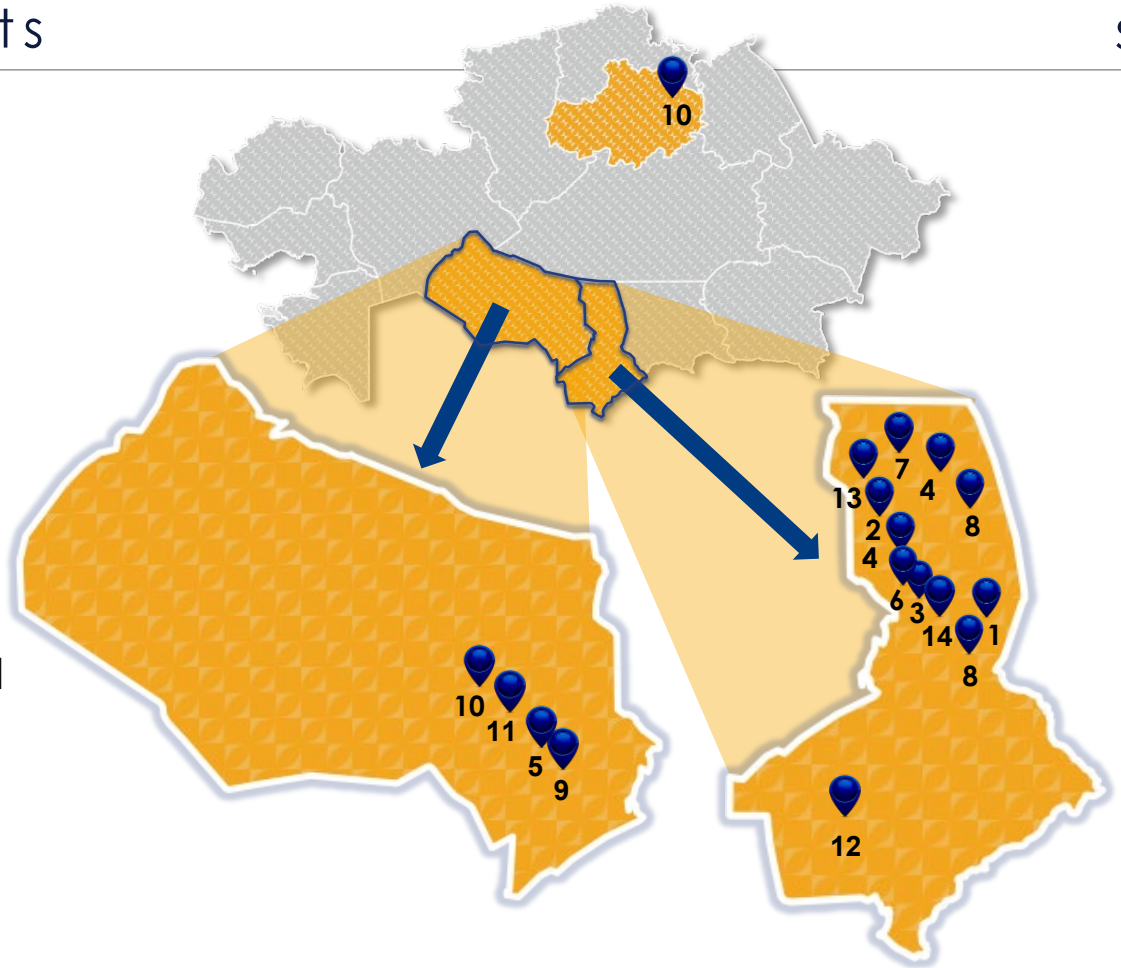
The establishment of Trade House Kazakatom (THK) is helping Kazatomprom enhance its customer offering:

- Bringing structured contracting and new pricing mechanisms, especially for long-term transactions
- Streamlining to provide faster responses to plain vanilla spot and forward trades
- Increasing customer diversification
- Increasing market liquidity and price transparency
- Actively purchasing in addition to selling in spot market

Geography of Kazatomprom Operations

Natural advantages of Kazakhstan's ISR deposits

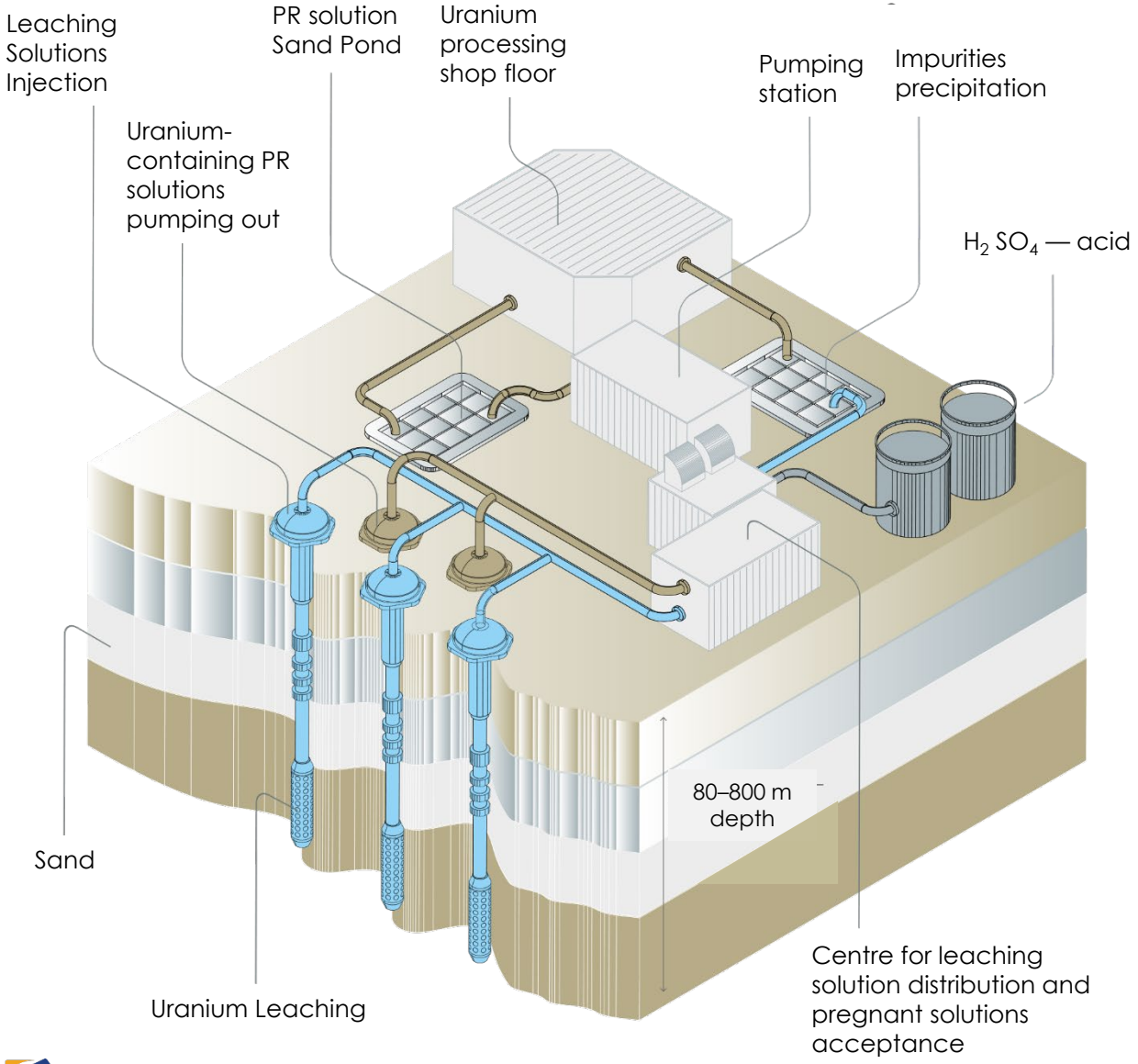
- Uranium in sandstone as coatings on sand grains at depths of up to 700 meters
- Uranium is insoluble in natural groundwater, low pH solution circulated through the orebody to dissolve it
- Closed-loop system: solution pumped to a processing facility to recover the uranium, pH is re-adjusted and solution is re-injected
- Upon decommissioning, groundwater has been proven to return to pre-mining chemistry through natural attenuation
- Limited operational risks with ISR mining method



KAP's mining subsidiaries

1. Katko
2. Inkai
3. Karatau
4. SMCC
5. Kharasan-U
6. Akbastau
7. Ortalyk
8. KAP-SaUran
9. Baiken-U
10. Semizbai-U
11. RU-6
12. Zarechnoe
13. Appak
14. Budenovskoye

Overview of ISR uranium mining



Natural uranium production by ISR vs conventional mining

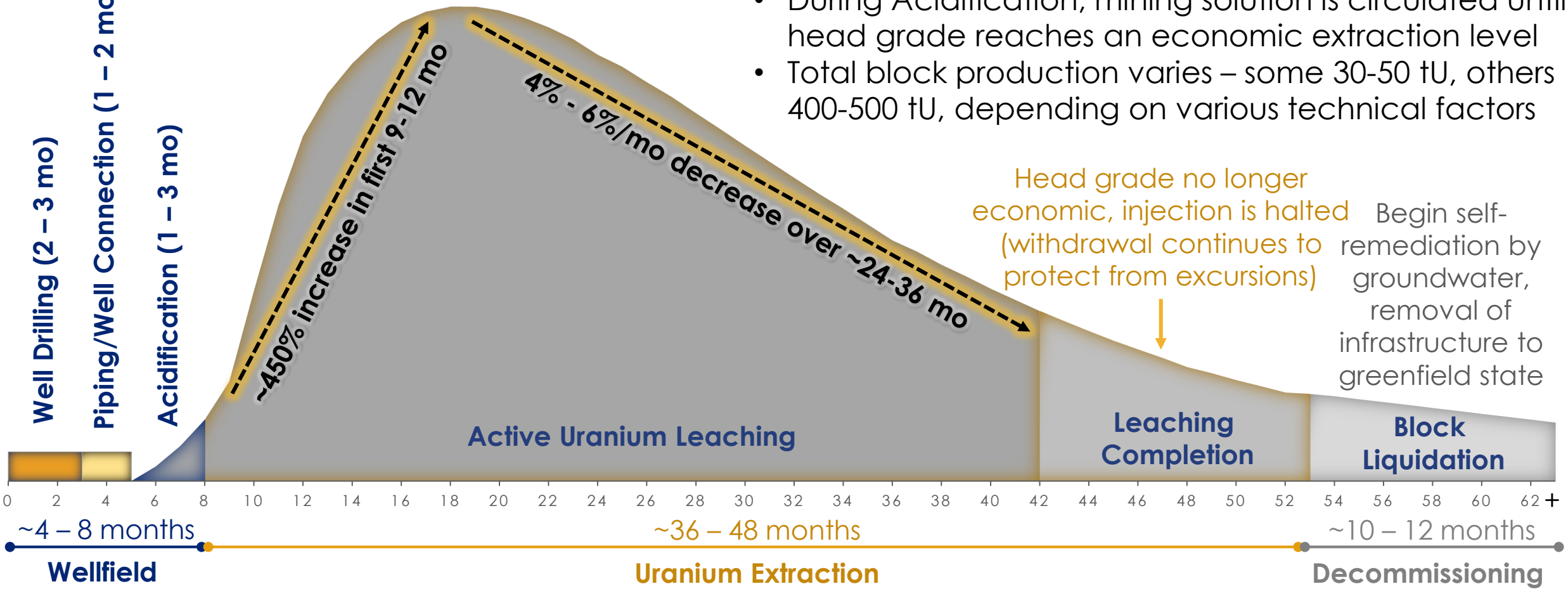
- ✓ Lower cost to build
- ✓ Shorter construction timelines
- ✓ Lowest quartile operating cost
- ✓ Small environmental footprint
- ✓ Limited health and safety exposure to personnel

Share of ISR mining in total uranium production (2020)

Source: WNA

Wellfield Block Production Profile*

- Blocks of ~25-50 wells in three rows 30-60 meters apart: two injection rows straddling one production row
- During Acidification, mining solution is circulated until head grade reaches an economic extraction level
- Total block production varies – some 30-50 tU, others 400-500 tU, depending on various technical factors



*representative model – specific block and orebody profiles will vary from this statistical model

Ulba Metallurgical Plant (UMP)

UMP at a Glance

- One of the world's largest facilities for fuel pellet and rare metals production
- UMP's operational know-how and operational platform provide KAP with optionality in participating in other parts of the NFC (should the economics be attractive)
- Established in 1949, became a subsidiary of KAP in 1997
- Location: Ust-Kamenogorsk, East Kazakhstan Region
- Facilities are under IAEA safeguards
- Production facilities include:
  - U_3O_8, ceramic grade UO_2 and fuel pellet production shops
  - Fuel fabrication plant
  - Scrap processing facility
  - Rare metals production facilities

Key features of UMP products

U_3O_8	High purity of nuclear grade products
UO_2 powder	Technical properties may vary depending on customer specifications
Fuel pellets	Regulated microstructure and pellet type. Use of burnable absorbers
Beryllium	One of only three facilities in the world with a fully integrated cycle of beryllium production
Tantalum	The sole facility in the CIS with tantalum production capabilities
Other	Optionality of participating in other parts of the NFC cycle

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THE WORLD'S **LARGEST URANIUM PRODUCER** WITH **PRIORITY ACCESS** TO KAZAKH URANIUM DEPOSITS, AND A ROBUST FINANCIAL PROFILE COMBINING GROWTH AND PROFITABILITY WITH ONE OF THE **LOWEST AVERAGE OPERATING COSTS** IN THE INDUSTRY