



# **MONGOLIA'S FIRST LITHIUM BRINE EXPLORER & DEVELOPER**

TSX-V: ION  
FRA: 5YB  
OTCQB: IONGF

December 2021  
Mines and Money London





# DISCLAIMER

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## LEGAL

This presentation includes certain statements that may be deemed "forward looking statements". All statements in this presentation, other than statements of historical facts, that address events or developments that Ion Energy Ltd. (the "Company") expects to occur, are forward looking statements. Forward looking statements are statements that are not historical facts and are generally, but not always, identified by the words "expects", "plans", "anticipates", "believes", "intends", "estimates", "projects", "potential" and similar expressions, or that events or conditions "will", "would", "may", "could" or "should" occur. Although the Company believes the expectations expressed in such forward looking statements are based on reasonable assumptions, such statements are not guarantees of future performance and actual results may differ materially from those in the forward looking statements. Factors that could cause the actual results to differ materially from those in forward looking statements include market prices, exploitation and exploration successes, and continued availability of capital and financing, and general economic, market or business conditions. Investors are cautioned that any such statements are not guarantees of future performance and actual results or developments may differ materially from those projected in the forward looking statements. Forward looking statements are based on the beliefs, estimates and opinions of the Company's management on the date the statements are made. Except as required by securities laws, the Company undertakes no obligation to update these forward looking statements in the event that management's beliefs, estimates or opinions, or other factors, should change. The information provided in this presentation is not intended to be a comprehensive review of all matters and developments concerning the Company and should be read in conjunction with the other disclosure documents of the Company. The information contained herein is not a substitute for detailed investigation and analysis. No securities commission or regulatory authority has reviewed the accuracy or adequacy of the information presented.

## TECHNICAL

The technical information in this presentation has been approved by Khurel Lamzav, P. Geo of the Company and a Qualified Person as defined by National Instrument 43-101 – Standards of Disclosure for Mineral Projects.





# OUR LEADERSHIP

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**ALI HAJI**  
CEO/Director

Director of Antler Hill Mining Ltd and Spirit Banner II Capital Corp. 13+ years international experience (asset management, risk analysis and program governance). Advisor to ATMA Capital Markets Ltd and Steppe Gold TSX:STGO. BSc from University of Western Ontario



**MATTHEW WOOD**  
Chairman of the Board

Chairman of Steppe Gold TSX:STGO, Founding Chairman of Avanco Resources (sold in March 2018 for AUD\$440M) and Hunnu Coal (sold for AUD\$500M in 2012).



**BATAA TUMUR-UCHIR**  
Director

A Mongolian Citizen that serves as CEO and Director of Steppe Gold TSX:STGO. Mr. Tumor-Ochir is an advisor to the Ministry of Mining and Heavy Industry, holds a bachelor's degree in business administration and graduate certificates in international business and marketing from Australia and Singapore.



**ANEEL WARAICH**  
Director

EVP and Director of Steppe Gold TSX:STGO, Director of Antler Hill Mining Ltd, CEO of Spirit Banner Capital Corp, Founder of ATMA and ATMACORP with experience in investment banking at Dundee. MBA from Goodman Institute of Investment Management at John Molson School of Business.



**ENKHTUVSHIN KHISHIGSUREN**  
Director

Over 30 years of Mongolian mineral experience for multi-nationals. Credited for having discovered several prospective gold, molybdenum and copper deposits, including the Olon Ovoot multimillion ounce gold deposit.



**JOHN MCVICAR**  
CPA, CA  
CFO

Brings more than 30 years of international business experience in Management Consulting and Finance. His previous roles include Consulting Partner at a Big 4 firm, CFO of a TSX-listed company and several regional finance leadership roles with large U.S. and Canadian multinationals in Canada, the U.S., South America and Asia. Is a CPA, CA and graduated with an MBA from Duke University and a B. Comm from Queen's University.



**PAUL FORNAZZARI**  
Advisory Board Member

Served as inaugural Chair of Lithium Americas and secured its initial strategic investments from Mitsubishi and Magna International. Former Director of Neo Lithium Corp. Currently, Paul is a partner with Fasken Martineau DuMoulin LLP, where he is head of Latin America for the Global Mining Group, and is also a member of the TSX-V's National Advisory Committee. Holds an LLM from Osgoode Hall Law School in Securities Law and an LLB from the University of Windsor.



**DON HAINS**  
Advisory Board Member

President of Hains Engineering Company Limited and Principal of Hains Technology Associates. An industrial minerals exploration and economic geologist with more than 30 years of experience in exploration, development, use and analysis of industrial minerals properties and materials. Has a particular focus on critical and energy related minerals such as lithium. Has written numerous NI 43-101 technical and due diligence reports on lithium projects across the Globe.



**DR. KHASHBAT DASHTESEREN**  
Special Advisor

A PhD lithium hydrogeologist with extensive resource exploration experience in Mongolia. Served with Mongolia's Department of Urban Development and Investment, as Chief Geologist and then as CEO at Geolink LLC. Has spent many years researching laboratory analysis methods for lithium at the Akita University in Japan. A Professional Geologist accredited by the Mongolian Professional Institute of Geology and Mining, and a Professional Engineer accredited by the Mongolian Ministry of Mineral Resources and Energy.



**DR. DAVID DEAKS**  
Advisory Board Member

An entrepreneur whose expertise spans across lithium mining development, battery supply chain developments, energy storage, renewable energy, and electric vehicles. He is President of Marbex LLC, was formerly the CTO and SVP of Lithium Americas Corp., and is an alum of Tesla Inc., Ambri Inc. (MIT start-up), Lux Research Inc., and Siemens Wind Power. He was educated at the University of Toronto and Oxford University.



# OUR STORY

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In 2017, our co-founders, Ali Haji and Matthew Wood, identified an opportunity for lithium exploration and development while on a trip to Mongolia for another mining entity.

**They recognized that our world was on the brink of a Green Revolution** and that the move away from fossil fuels would create unprecedented demand for battery metals, including lithium.

Ali and Matthew started discussions with the Mongolian government about the potential for lithium in-country – and the vision for ION Energy was born!



# CORPORATE OVERVIEW

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Over  
100,000 hectares



(247,000 acres)

First lithium brine  
licence ever



in Mongolia

Exploration is  
already underway



## THE WORLD IS GOING ELECTRIC

ION Energy is ready for the 3rd wave of the clean energy  
revolution & the increased Lithium demand



# WHY LITHIUM?

Moving towards a Green Revolution

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"Banks that manage one-third of all global capital (47 trillion USD) have committed to moving towards greener practices and divesting in fossil fuels"

Reuters

"Global demand for lithium to increase eight-fold to 2030, as Electric Vehicle (EV) adoption increases and battery sector expands"

Bloomberg

## Electric vehicles are driving demand for lithium

CAR AND DRIVER

### GM Will Make Its Own Ultium-Brand EV Charging Units

Starting in early 2022, EV buyers will be able to finance a Level 2 Ultium charging station with their new vehicle, and thousands will be donated to underserved areas.

BY JOHN VOELCKER OCT 26, 2021



The Economist

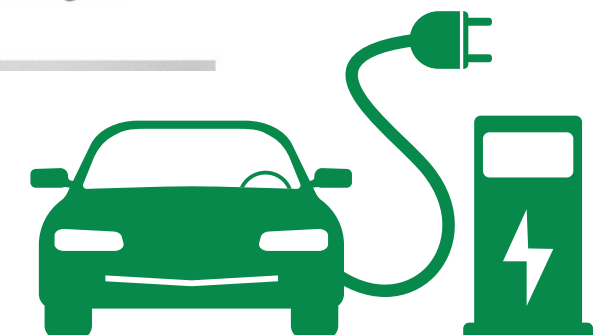
Business

Oct 2nd 2021 edition >

Electric Motor City

### Ford and General Motors fight it out to electrify

The switch to battery power is the latest showdown between Detroit's heavyweights





# WHY ION ENERGY?

We're poised to become a significant player in Asia's booming Lithium market with our:



## PROVEN IN-COUNTRY TEAM

Management has been successfully operating in Mongolia for over a decade. A total of 100+ years of combined mining and exploration experience



## STRONG EXPLORATION POSITION

With one of the largest exploration licences in Mongolia, ION Energy is poised to become a significant player in Asia's booming Lithium market. Exploration efforts are now underway.



## STRATEGIC ADVANTAGE OVER PEERS

Mongolia is a low-cost year round operating environment. Early work indicates shallow aquifers. Gobi desert is an arid environment with high evaporation rates.



## AGGRESSIVE GROWTH STRATEGY

**ION is fully funded** to continue an aggressive growth strategy.



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**“We believe ION offers an attractive speculative opportunity in the lithium space, considering management’s track record, and the fact that Mongolia is severely underexplored for lithium brine”**

*Sid Rajeev*  
*Head of Research, Fundamental Research Corp*







# WHY MONGOLIA?

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- ✓ **Untapped and unlimited potential for lithium**
- ✓ Management successfully operating in Mongolia for over a decade, with a combined 100+ years of mining and exploration experience
- ✓ Mongolia's mining industry contributes towards 20% of the nation's GDP & 80-90% of its export
- ✓ Government prioritizes an investment-friendly environment
- ✓ China is the world leader in manufacturing lithium batteries, and continues to outpace the globe in demand for EVs

Hunnu Coal  
AUD\$20M  
IPO  
**2010**

Hunnu Coal Exit  
AUD\$500M  
Cash  
**2012**



Steppe Gold  
C\$25m IPO  
**2018**



ION Energy  
C\$2.7m IPO  
**2020**



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**"The Mongolian economy is largely commodity-based and is considered by the World Bank to be stable and growing. The country's GDP reached US\$13.01 billion in 2018 with a growth rate of approximately six percent. Mongolia enjoys social and political stability and offers a low cost of doing business for international miners."**

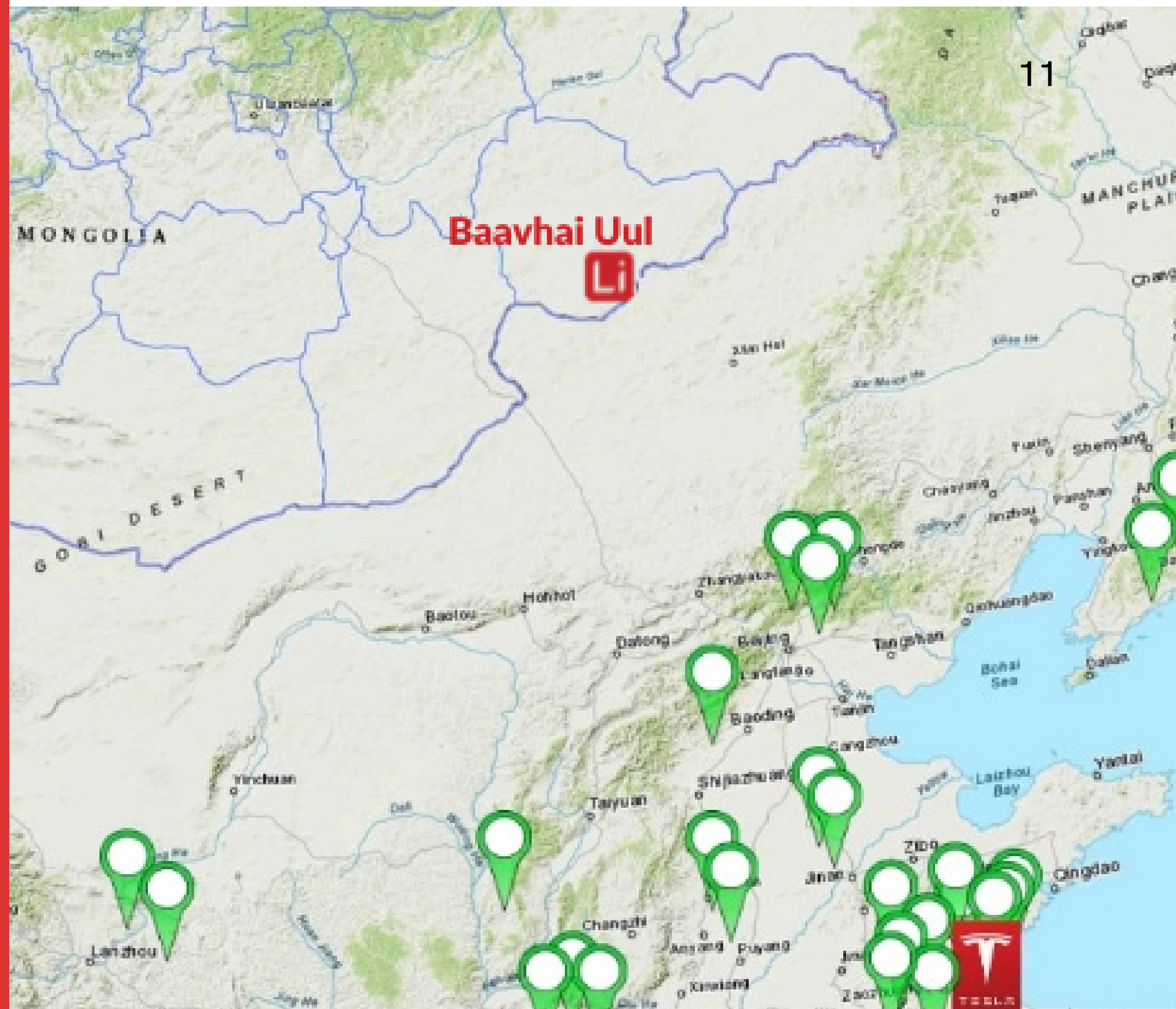
*Investing News Network*



The largest exploration licence  
in Mongolia:

# ION ENERGY'S BAAVHAI UUL PROJECT

+81,000 hectare (almost 200,000  
acre) highly-prospective site





The largest exploration licence ever granted in Mongolia:

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# BAAVHAI UUL PROJECT

## EARLY RESULTS

- All holes drilled contain **significant** levels of Lithium
- Average grade 426 ppm Lithium
- Maximum grade 811 ppm Lithium
- High evaporation and low precipitation endorheic basin, no outflow to external bodies of water



## GEOGRAPHICAL PROFILE

- Low potassium and magnesium ratios: favorable for large crystal formation at license altitude and temperature
- Aquifers 20m below surface: Cretaceous volcanic and sedimentary rocks are the most suitable aquifer for the enrichment of lithium (light green areas)
- Brine vs hard rock sources = lower production costs
- Gobi Desert: arid environment with high evaporation rates
- 24km from the Chinese border





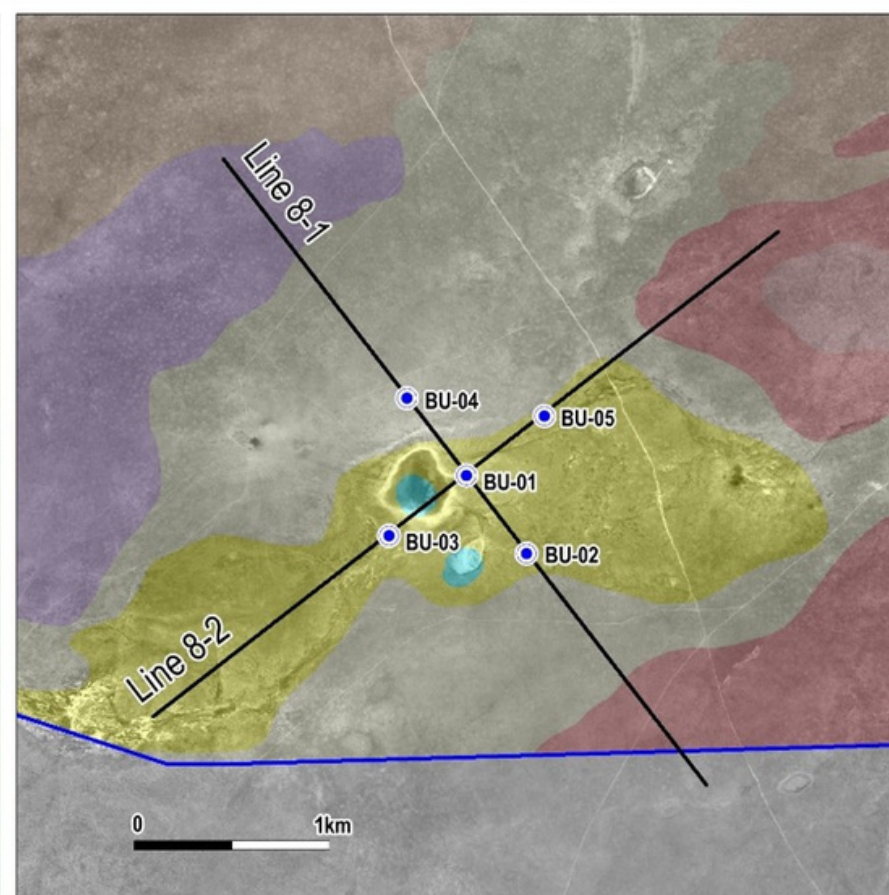
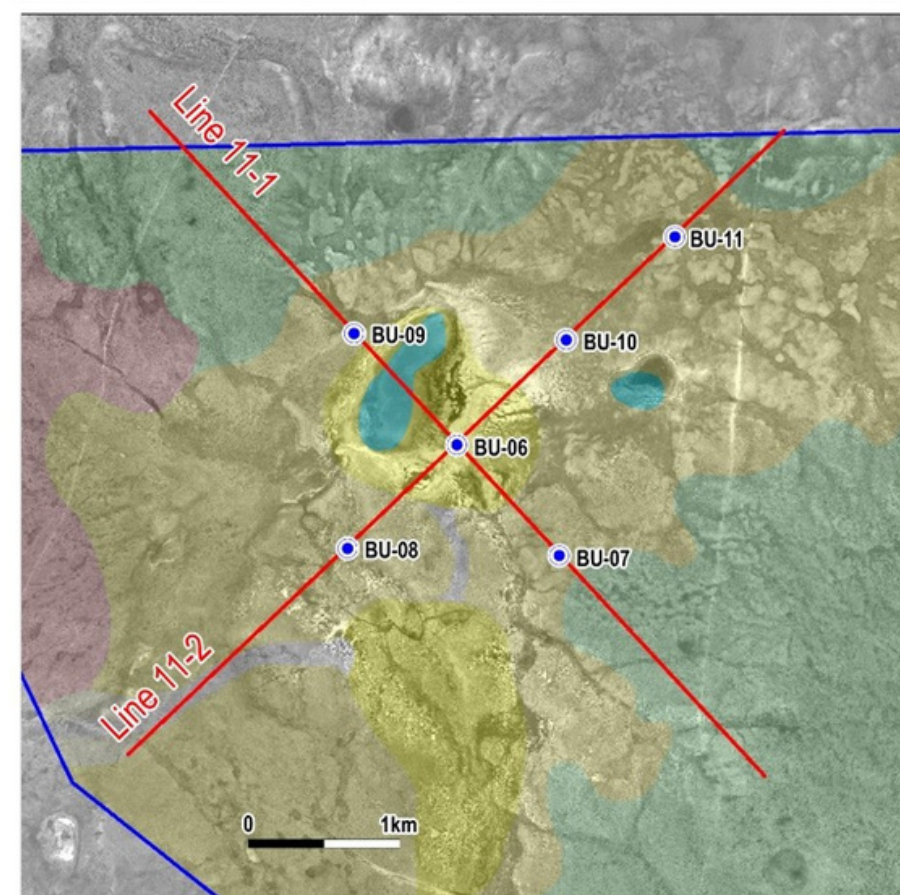
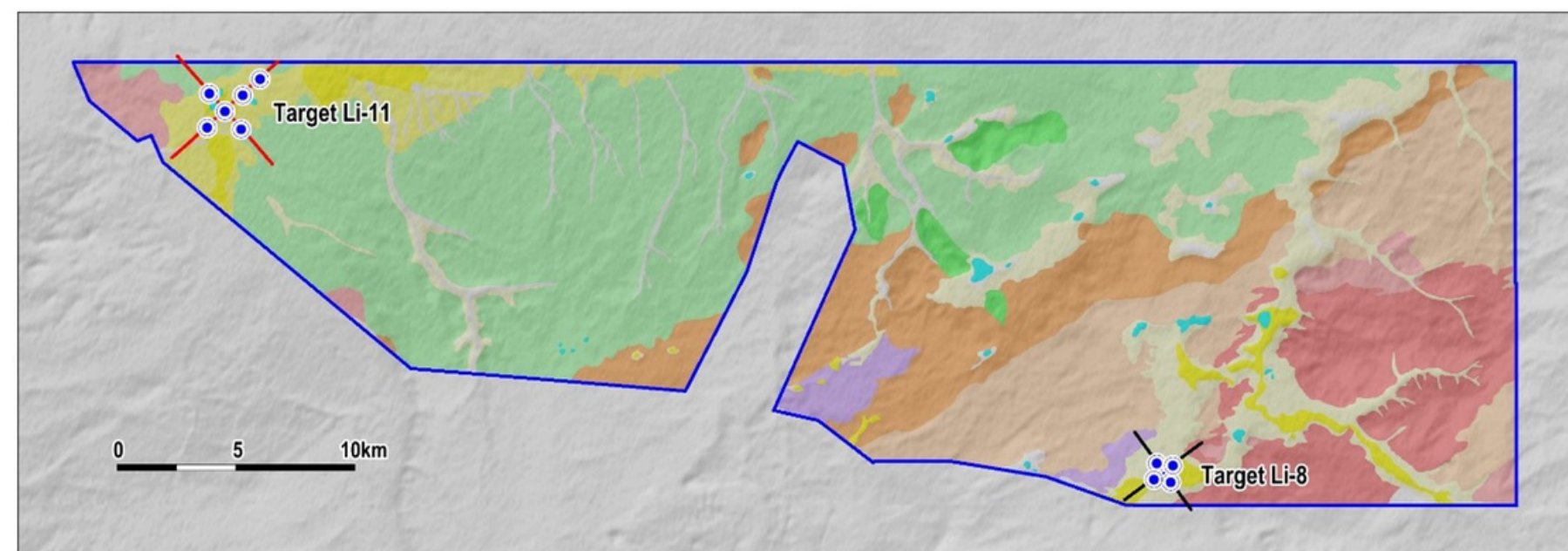
# EXPLORATION COMMENCED IN OCTOBER 2020

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- Geophysics CSAMT - focused on targets L-11 (12 line-KM) and L-8 (8 line-KM), with soundings at 50m spacing.
- The CSAMT survey started by identifying brine aquifers, followed by reflection seismic work to identify structure.



# EXPANDED EXPLORATION PROGRAM: MAY 2021



- Initial geophysics successfully completed with early encouraging results.
- Expanded exploration program commenced: *the first drilling for lithium salars ever in Mongolia.*
- Included the drilling of 21 drill holes through the highlighted prospective basins.
- Sampling of sediments and aquifers completed during the drilling phase.

**Proposed Shallow Refraction Seismic Survey lines and drill hole location at Baavhai Uul project.**



# EXPLORATION COMPLETED: JULY 2021

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- 21 core drill holes completed for 823.2 metres;
- Lithium brines encountered;
- Basin targets remain open and brines intersected are shallow; and
- Additional drilling and sampling is currently being planned.







**Diamond RC Rig in L1 at Baavhai Uul.**

**Brine being pumped to surface at Baavhai Uul.**

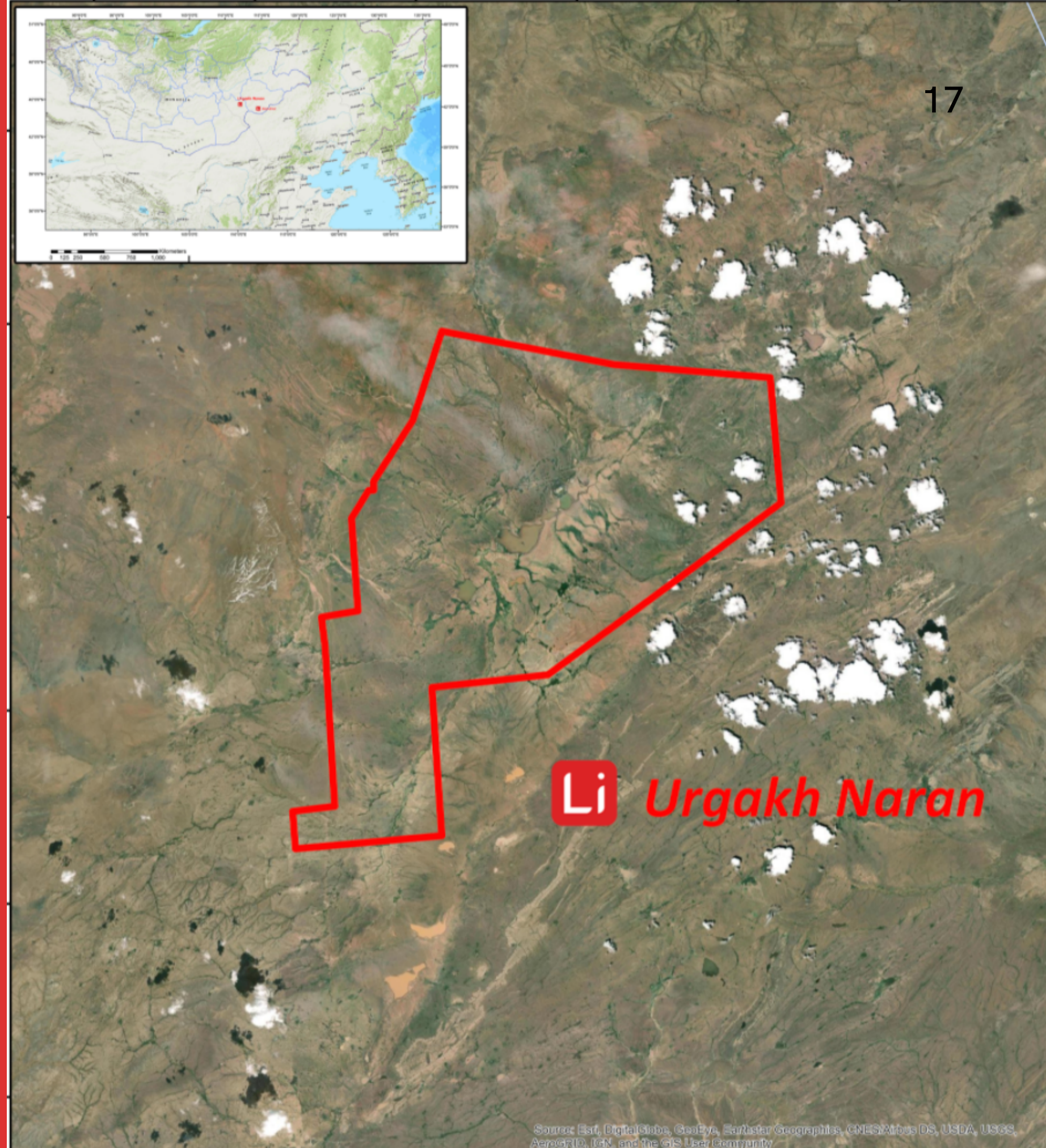




Solidifying our commitment to the world's Green Revolution, as Mongolia's leading lithium explorer & developer:

# ION ENERGY'S URGAKH NARAN: RISING SUN PROJECT

Over 20,000 hectares (+49,000 acres) of highly prospective lithium terrain



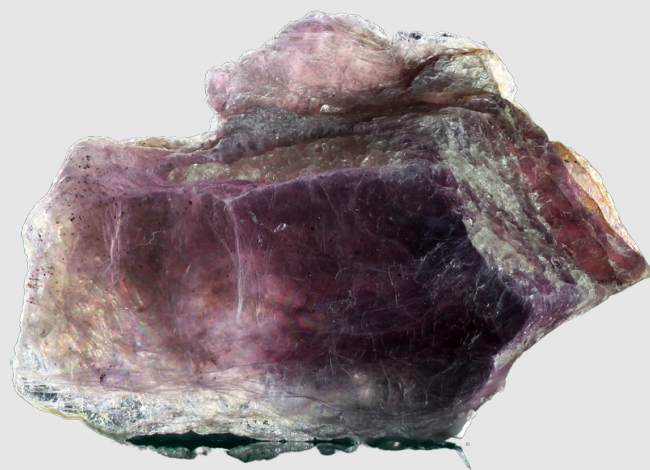


# URGAKH NARAN LITHIUM BRINE PROJECT

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## EARLY RESULTS

Previous work conducted at this project has included a substantial Hydro-chemical sampling program of identified shallow lithium in brines. Although early stage, this program was highly successful in identifying multiple targets for follow up exploration.



## GEOGRAPHICAL PROFILE

- Situated in the arid and infrastructure rich region of the South Gobi Desert
- This site is located 150km WNW of the Company's flagship Baavhai Uul Lithium Project.

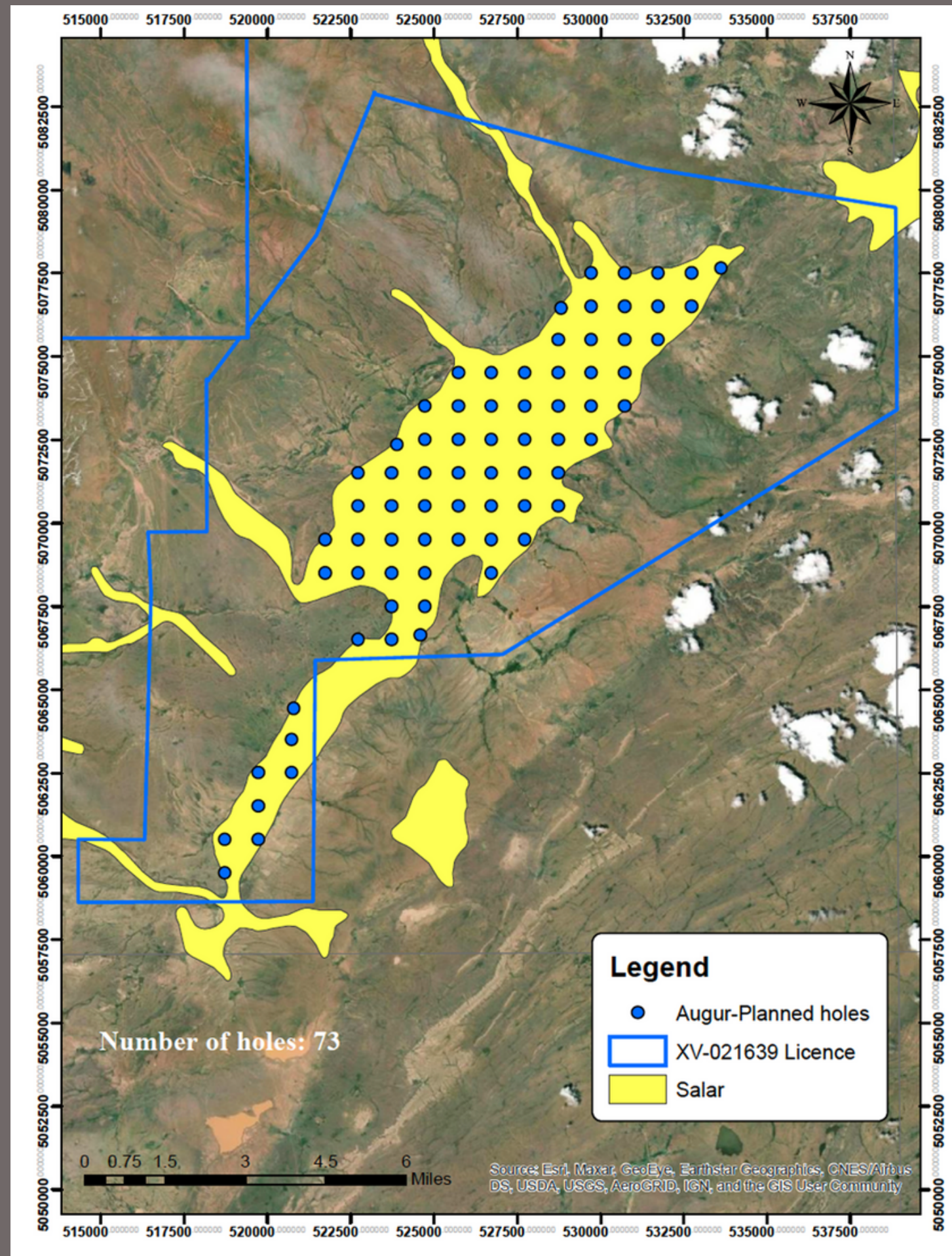




# MAIDEN EXPLORATION PROGRAM

**ANNOUNCED: SEPTEMBER 2021**

- Our recently acquired 100% owned Urgakh Naran Lithium Salar Project is part of our fast-tracked exploration program, with drilling as priority.
- An initial 73 shallow holes planned with drilling commencing in coming weeks.
- This basin is centered on an area that is 6 kilometres wide and more than 20 km long.



**Drill Map at Urgakh Naran project.**





## WHY ION ENERGY'S MONGOLIAN SITES ARE A GEOGRAPHIC ADVANTAGE

- Low cost and year-round operating environment
- Infrastructure rich location in Mongolia
- 30km by road to Mongolia-China border crossing
- Strong location advantage over South American producers: Mongolia set to become a major player in the lithium sector



# CHINA CONTINUES TO BE THE WORLD'S LARGEST ELECTRIC-VEHICLE MARKET

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- ✓ China is the world leader in manufacturing lithium batteries, and continues to outpace the globe in demand for EVs
- ✓ Korea, Taiwan and Japan's large tech industries will continue to fuel demand for lithium batteries.
- ✓ China dominates lithium production: "77% of global lithium ion production capacity will be located in China by the end of 2021. Based on current plans in the pipeline, China will still hold 67% of global lithium ion cell capacity in 2030. (Benchmark Mineral Intelligence – 2021)

China is set for a sustained period of strong EV growth. Canals forecasts 51% EV growth in China in 2021. EVs will represent one third of car sales in 2025.





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**"We are excited to have identified vast potential for lithium in Mongolia, an economy that has been growing exponentially, while our world is poised for a move away from fossil fuels towards cleaner energy sources. Mongolia is well-positioned to supply the major markets of the world and ION Energy's vision is to help fulfill that by exploring and developing all of the lithium brine assets in-country"**

*Matthew Wood  
Co-Founder & Chair*



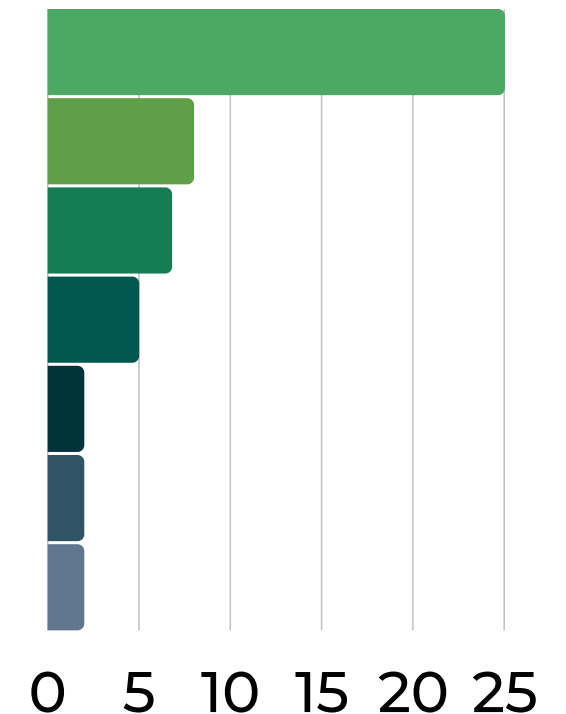
# ION ENERGY LTD

## OTCQB: IONGF, TSXV: ION

<b>BASIC COMMON SHARES OUTSTANDING</b>	<b>60,213,554</b>
<b>WARRANTS @40C (EXP. AUG 31, 2022)</b>	<b>9,063,329</b>
<b>WARRANTS @70C (EXP. APR 13, 2024)</b>	<b>11,500,000</b>
<b>OPTIONS @32C (EXP. OCT 21, 2025)</b>	<b>3,000,000</b>
<b>OPTIONS @55C (EXP. FEB 3, 2023)</b>	<b>685,000</b>
<b>FULLY DILUTED SHARES OUTSTANDING</b>	<b>80,589,000</b>
<b>SHARE PRICE (NOVEMBER 28)</b>	<b>USD \$0.38 CAD \$0.51</b>
<b>MARKET CAPITALIZATION (C\$)</b>	<b>USD \$23.1 M CAD \$30.7 M</b>

# OWNERSHIP

Management & Inside Ownership\*  
Mongolian Investors  
Family Offices  
Delbrook Capital  
Spartan Funds  
Alphanorth Asset Management  
Maxit Capital



\*Insiders and management are escrowed for 24months/2years (Aug. 31, 2022)





# AGGRESSIVE GROWTH

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**2017**

Our co-founders, Ali Haji and Matthew Wood, identified an opportunity for lithium exploration in Mongolia

2

**2019**

The Baavhai Uul Lithium Brine Project: acquisition of 80,000+ hectare licence

3

**2019**

Spirit Banner and ION Energy Announce Signing of Definitive Agreement

4

**2020**

Commenced trading on the TSX-V: ION

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**2020**

ION Energy commenced geophysics (CSAMT and reflection seismic) study on the Baavhai Uul Lithium Brine project.

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**2021**

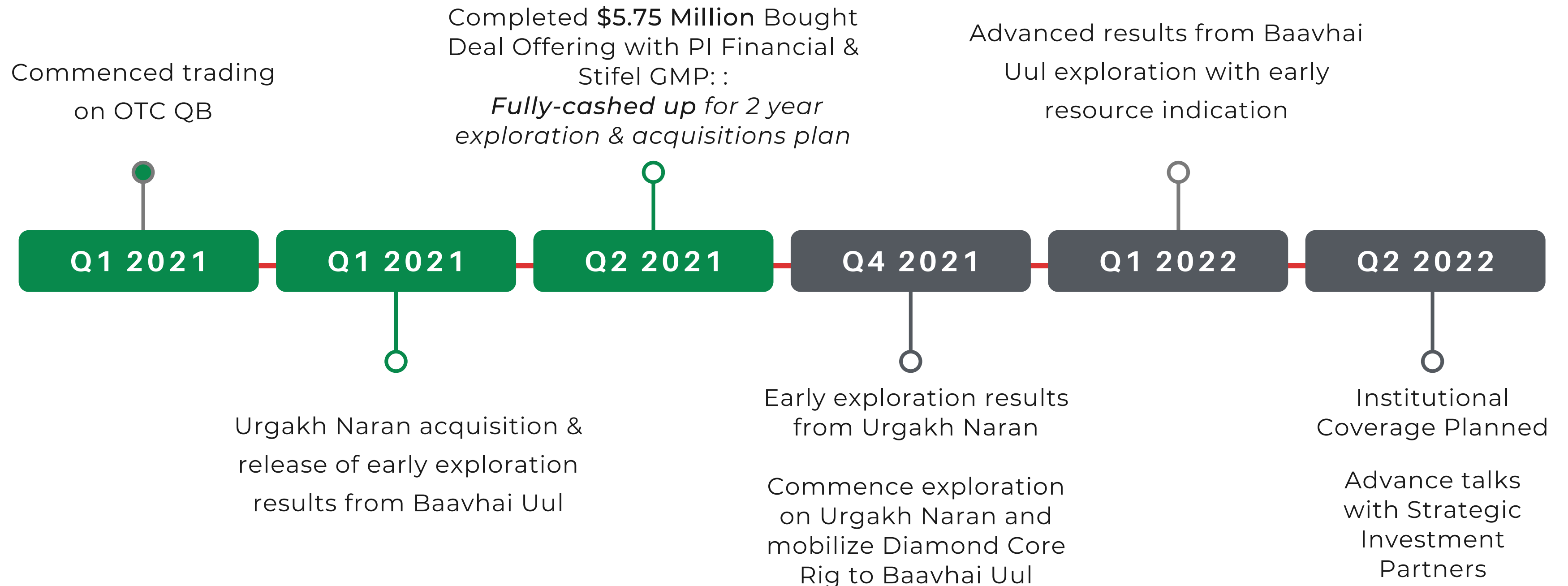
The Urgakh Naran Lithium Brine Project: acquisition of ~20,000 hectare licence

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# OUR 2021 CATALYSTS

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# INVESTMENT SUMMARY

When you invest in ION Energy, you can count on our team with over 100 years of combined in-country, mining and lithium-specific experience.

It has been one year since listing on the TSX Venture Exchange, and we have rapidly forged ahead in following through on our strategic objectives, including a \$5.75 million public offering to ensure that we have a fully-funded 2-year exploration & growth strategy.

## FULLY FUNDED

We're fully-funded to continue our aggressive growth strategy

## STRATEGIC LOCATIONS

Superior geographic locations in Mongolia and promising early results

## WE'RE EXPERIENCED

Strong in-country team and proven track record

## RISE IN DEMAND

Lithium is a commodity with high global demand

## MARGINS

Low cost production profile

## INVESTMENT

Well-positioned to create shareholder value



# CONTACT US



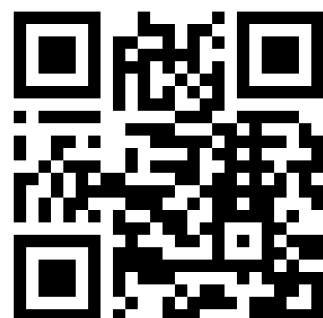
Contact our Chief Executive Officer,  
Ali Haji, to discuss your investment.



Ali@IONEnergy.ca



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