



Lithium Bank

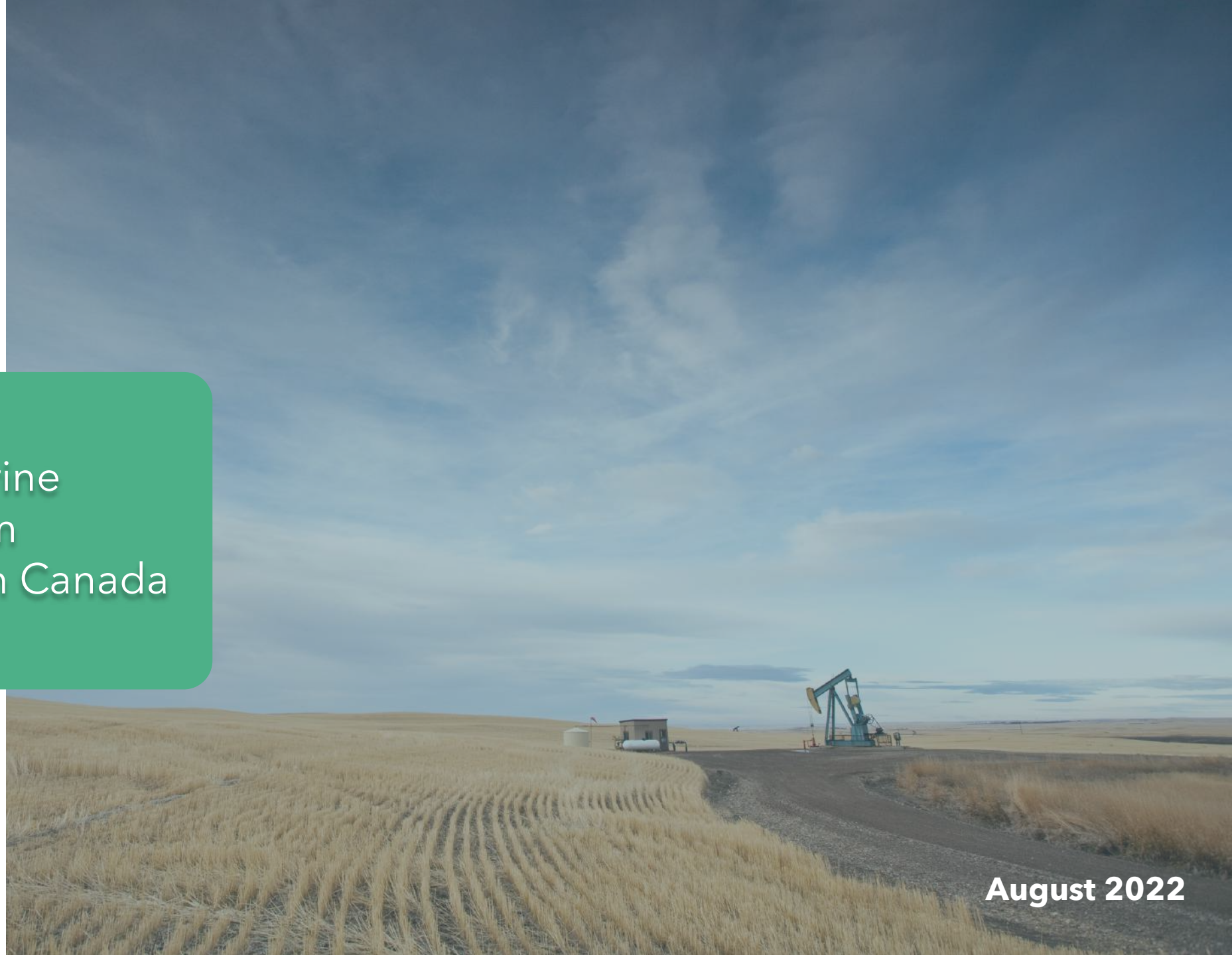
## Developing Direct Brine Battery Grade Lithium Resources in Western Canada

TSXv : LBNK  
OTC : LBNKF

Rob Shewchuk  
Chairman & CEO

✉ [rob@lithiumbank.ca](mailto:rob@lithiumbank.ca)

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The financial information included in this presentation is preliminary, forward-looking, unaudited and subject to revision.

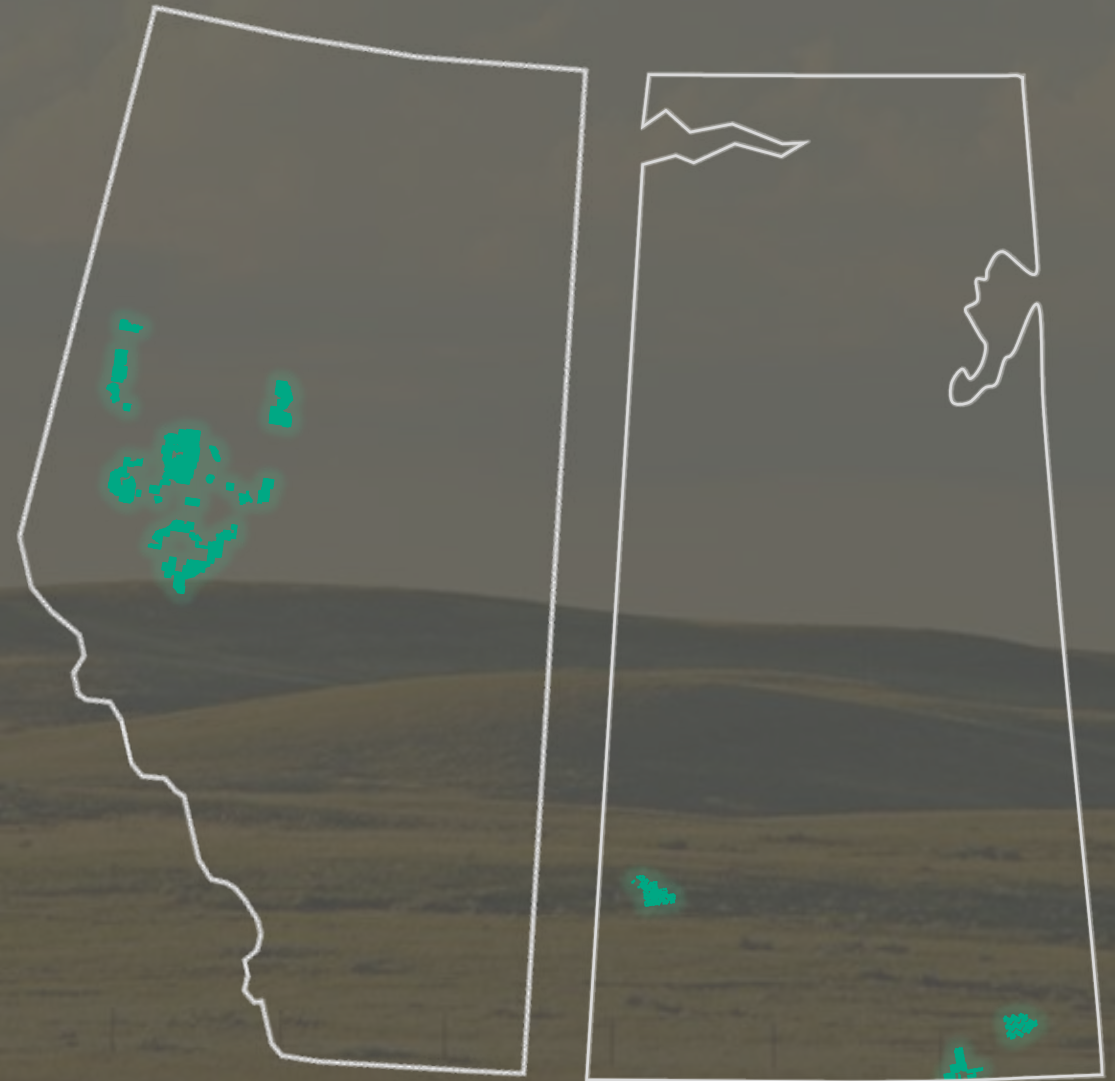
All forward-looking statements attributable to the Company or persons acting on its behalf apply only as of the date of this document and are expressly qualified in their entirety by the cautionary statements included elsewhere in this document. The financial projections are preliminary and subject to change; the Company undertakes no obligation to update or revise these forward-looking statements to reflect events or circumstances that arise after the date made or to reflect the occurrence of unanticipated events. Inevitably, some assumptions will not materialize, and unanticipated events and circumstances may affect the ultimate financial results. Projections are inherently subject to substantial and numerous uncertainties and to a wide variety of significant business, economic and competitive risks, and the assumptions underlying the projections may be inaccurate in any material respect. Therefore, the actual results achieved may vary significantly from the forecasts, and the variations may be material.

Technical information in this report has been reviewed by Mr. Kevin Piepgrass (Chief Operations Officer, LithiumBank Resources Corp.), who is a Member of the Association of Professional Engineers and Geoscientists of the province of BC (APEGBC) and is a Qualified Person (QP) for the purposes of NI 43 101. Mr. Piepgrass consents to the inclusion of the data in the form and context in which it appears.

# Explore. Develop. Produce.

 LithiumBank Mineral Titles

- ✓ LithiumBank Resources Corp. is an exploration and development company focused on lithium-enriched brine projects in Western Canada where low-impact DLE technology can be deployed. LithiumBank is advancing direct brine lithium projects to production.
- ✓ Over 3.76 million acres of mineral titles
  - ✓ 3.44M acres in Alberta
  - ✓ 326K acres in Saskatchewan
- ✓ Well known, highly prospective, brine aquifers where DLE technology may be effective
- ✓ Looking to Produce a Compelling Preliminary Economic Assessment (PEA) at Boardwalk in 2022

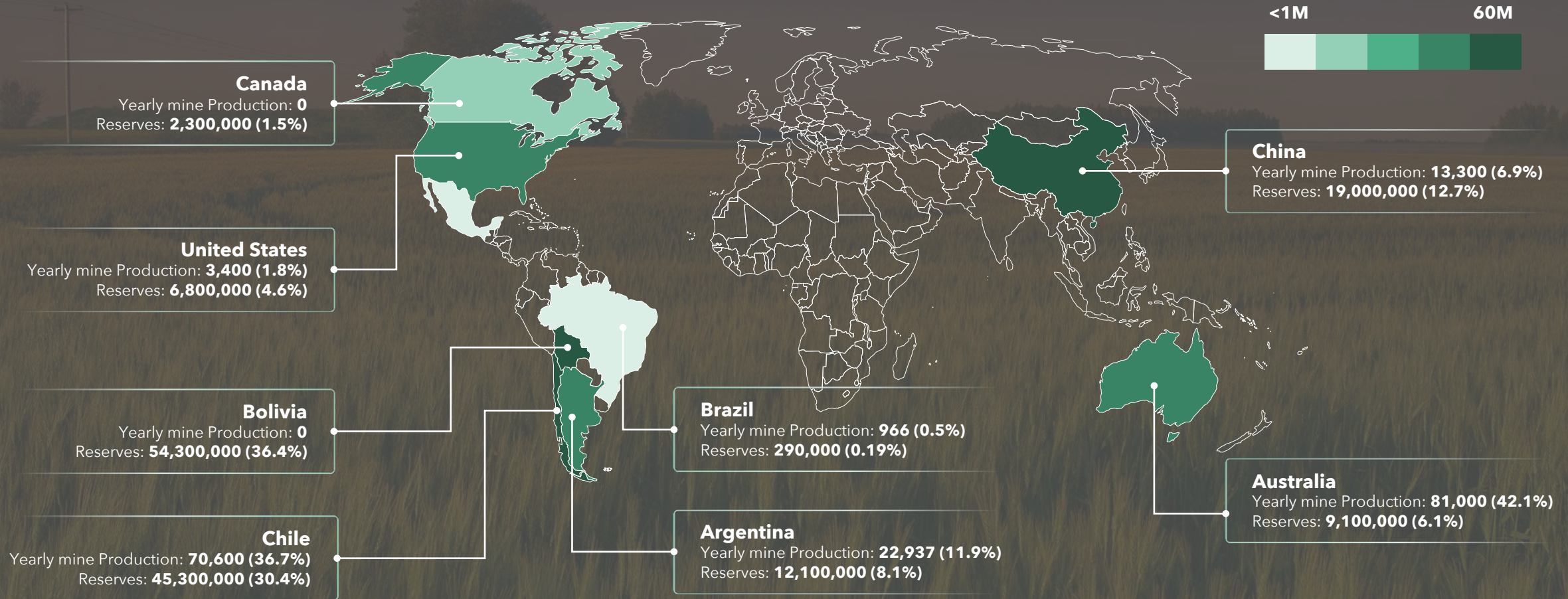


# The Problem

North American Lithium Production is Less Than 2% of Current Global Demand

# The Opportunity

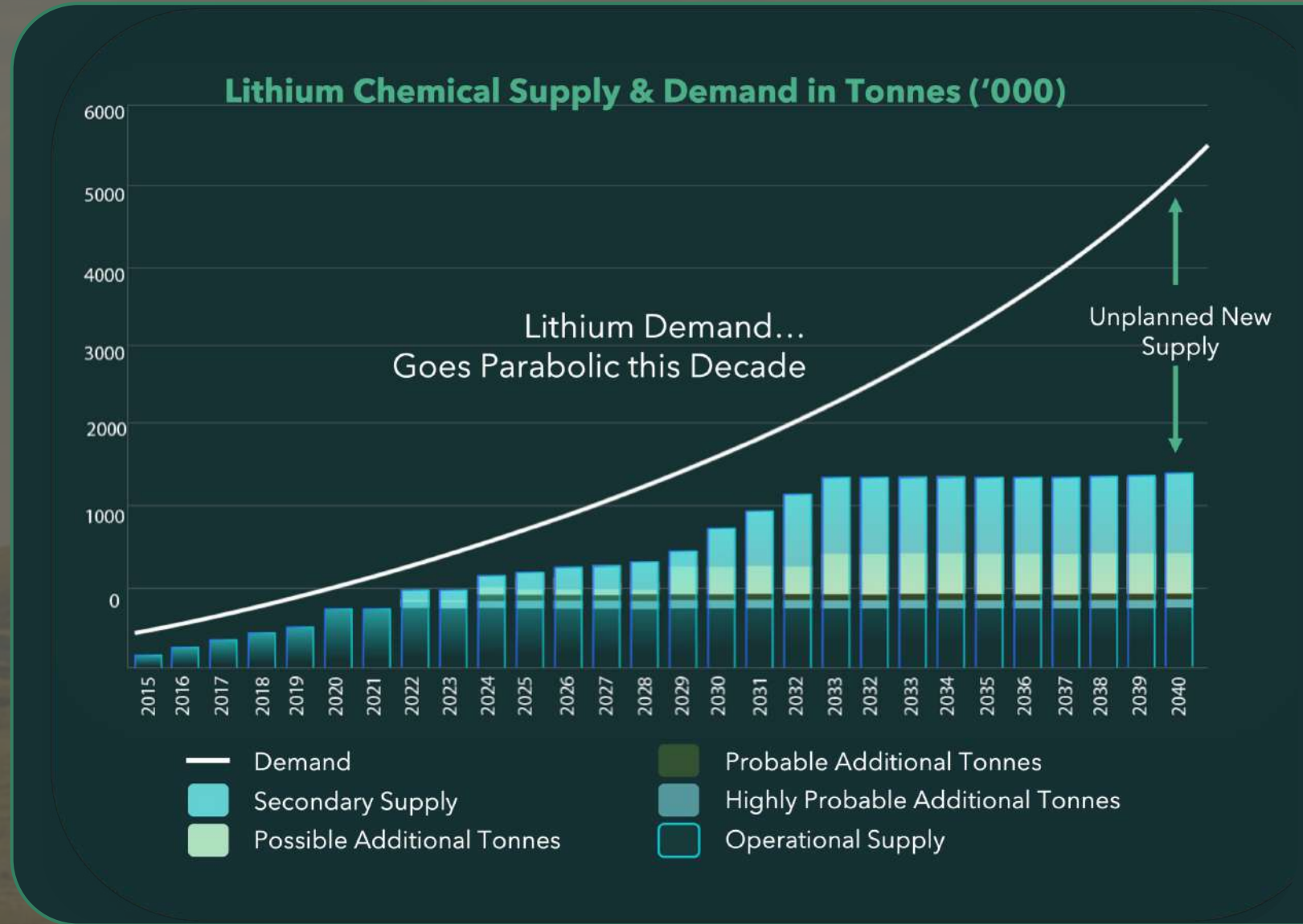
North America is Committed to Lithium Supply Independence



Lithium Resources Availability - Major Countries (Source: Benchmark Mineral Intelligence)

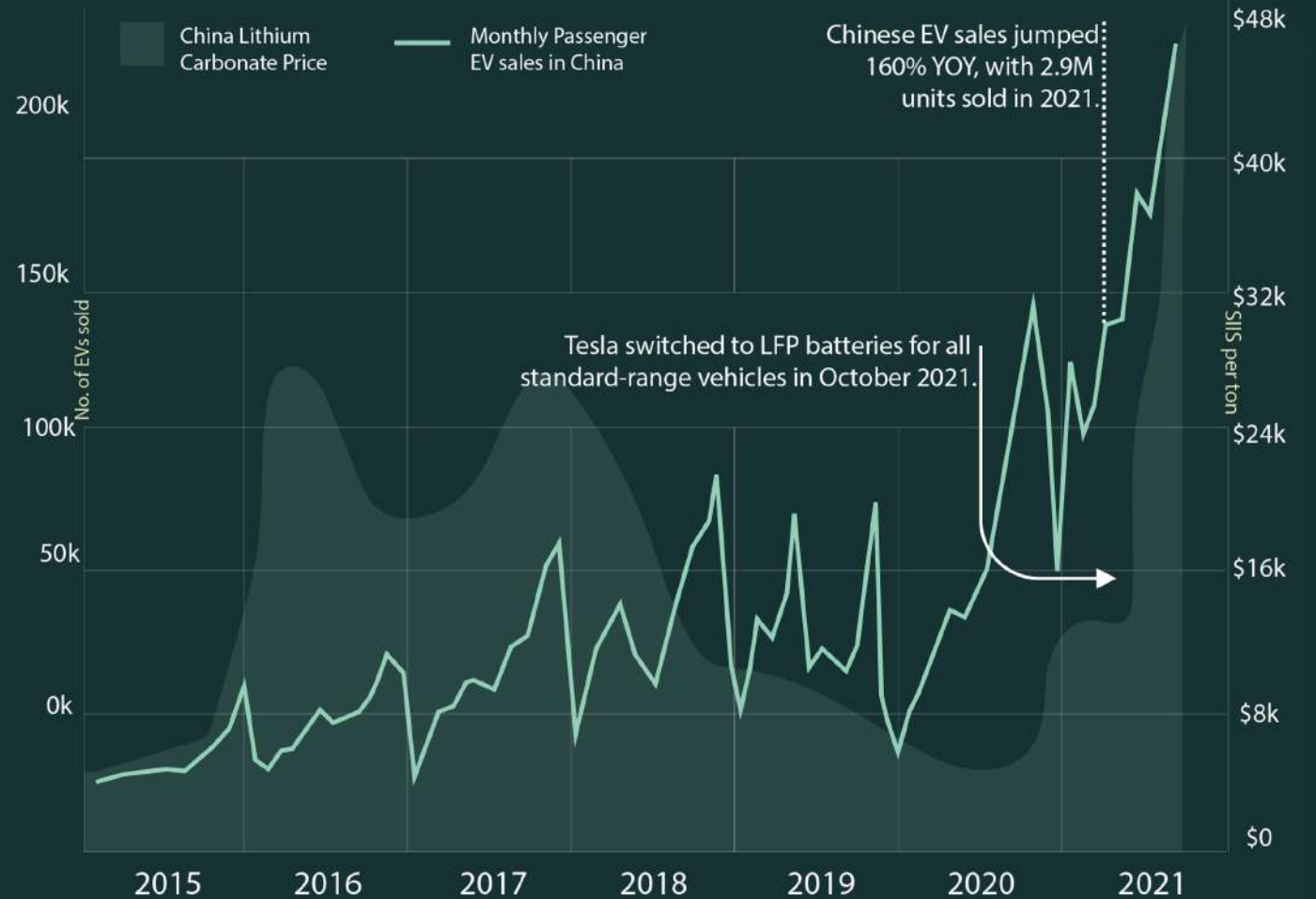
# The Opportunity

Lithium Demand Set to Surge Limited Supply Response Visibility



# The Explosion in Lithium Prices

Prices for lithium carbonate, a key ingredient in lithium iron phosphate (LFP) batteries for electric vehicles, rallied to record-highs on booming EV demand in China.



\*EV sales as of November 30, 2021  
Currency converted to USD as of Jan 17, 2022

Source: Asian Metal, China Automotive Information Net via Bloomberg

# Sources of Lithium Production

## Conventional Sources

### Hard Rock



- ✓ High Capex
- ✓ High Opex
- ✓ Environmentally Challenging

### Salars



- ✓ South America Centric
- ✓ High Capex
- ✓ Long Development Timelines
- ✓ Environmentally Challenging

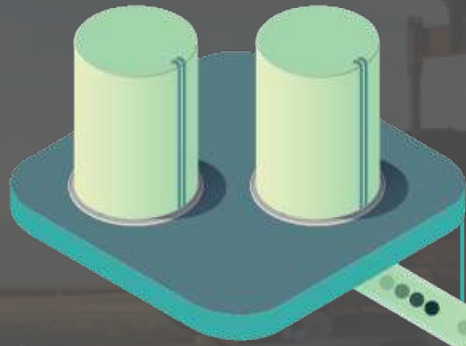
## Next Generation

### DLE Brine



- ✓ Speed to Market
- ✓ Relatively Low Capex & Opex
- ✓ Environmentally Friendly & Potentially Carbon Neutral

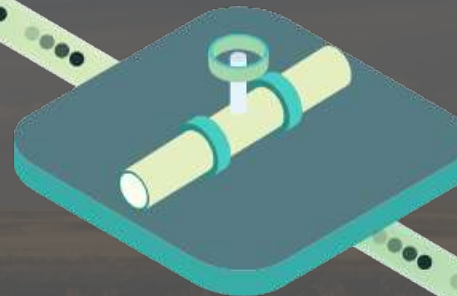
# Our Strategy



Acquire claims in known lithium high grade hot spots with existing wells and infrastructure.



Over 500 wells exist on LiBank's existing claims which could be leveraged to quickly and cost effectively establish large-scale lithium inferred mineral resources. (each well would cost more than \$1M to drill today)



Well established infrastructure exists from a long history of oil and gas production which includes roads, rail, pipelines and power with potential to be repurposed for lithium production.



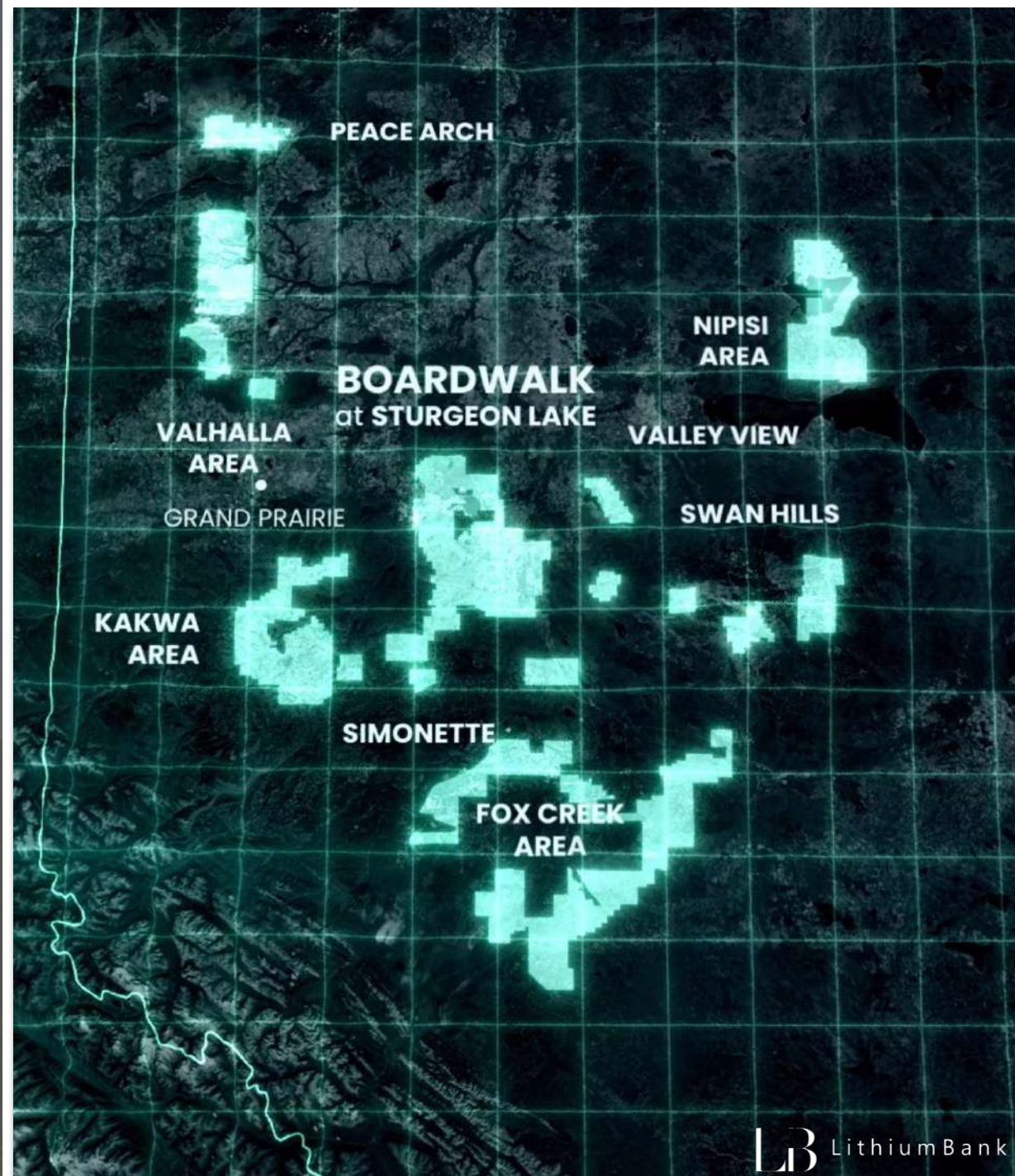
Positioned in reservoirs that provide a unique combination of scale, grade and exceptional flow rates that are necessary for direct brine lithium production.



# Alberta Assets

OVER  
**3.7**  
MILLION

Acres of Titles  
Across West Central Alberta



# LithiumBank's Flagship Project Boardwalk

## Boardwalk

- ✓ Located in West Central Alberta 270 km northwest of Edmonton
- ✓ Comprises 28 Alberta Metallic and Industrial Mineral Permits that collectively form a contiguous package of land that totals 761,601 acres
- ✓ O&G production at Sturgeon Lake has been active since 1955 and was suspended by the operator Canadian Natural Resources Ltd in 2020

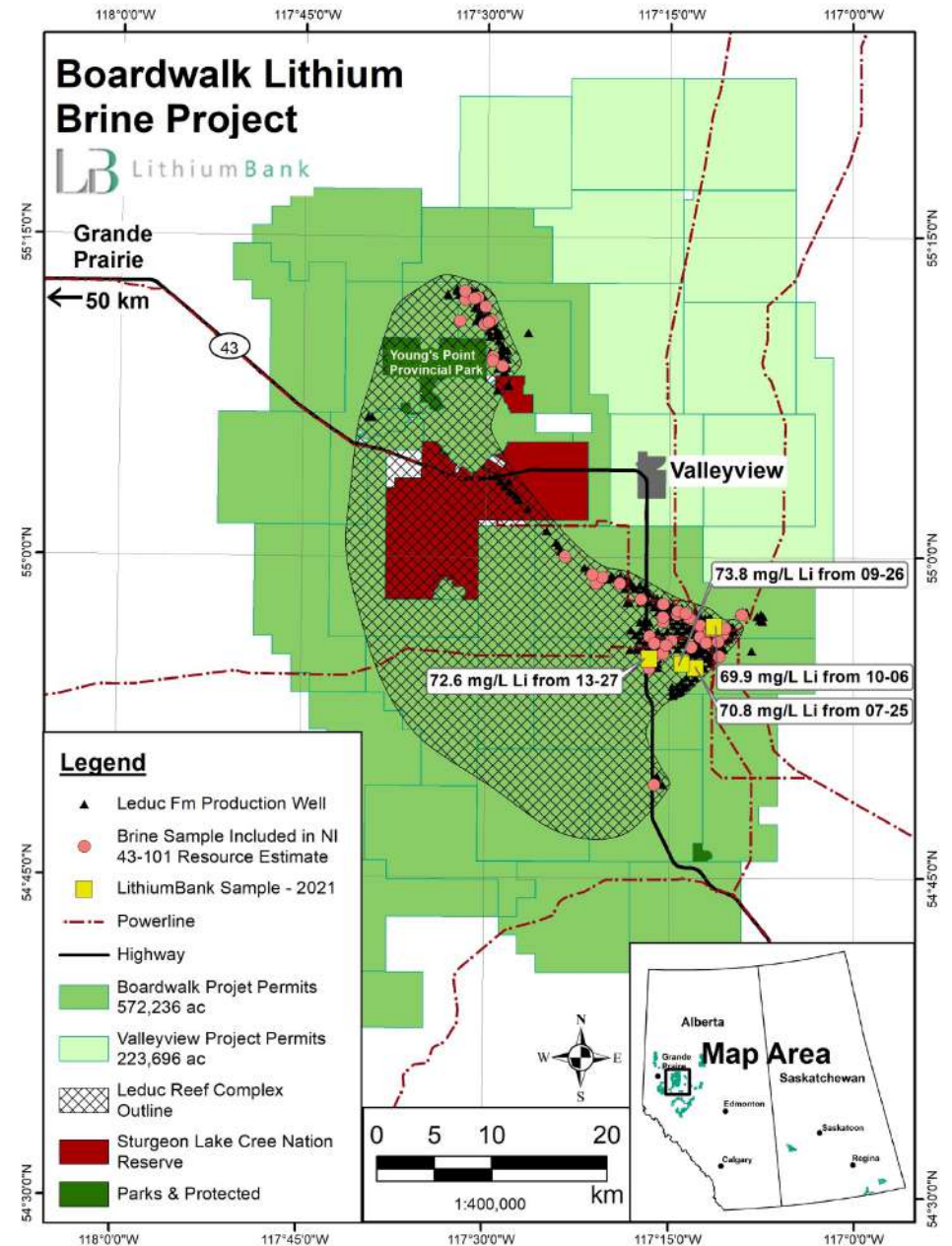


# LithiumBank's Flagship Project Boardwalk

On June 17, 2021 Apex Geosciences provided LithiumBank a NI 43-101 Mineral Resource Estimate and Technical Report on Sturgeon Lake (Boardwalk)\*. Highlights include:

- ✔ **5.97M** tonnes LCE
- ✔ Average lithium concentration of **67.1 mg/l**
- ✔ Total elemental Li Inferred Mineral Resource of **1.12M** tonnes
- ✔ Average brine in pore space of **98%**
- ✔ One well expected to have production potential of over **1,100 m<sup>3</sup>/day**

\*Report is titled: "NI 43-101 Technical Report, Inferred Resource Estimate on LithiumBank Resources Corp.'s Sturgeon Lake Lithium-Brine Property in West-Central Alberta, Canada" is available on SEDAR at [www.sedar.com](http://www.sedar.com). Mineral resources are not mineral reserves and do not have demonstrated economic viability. There is no guarantee that all or any part of the mineral resource will be converted into a mineral reserve.

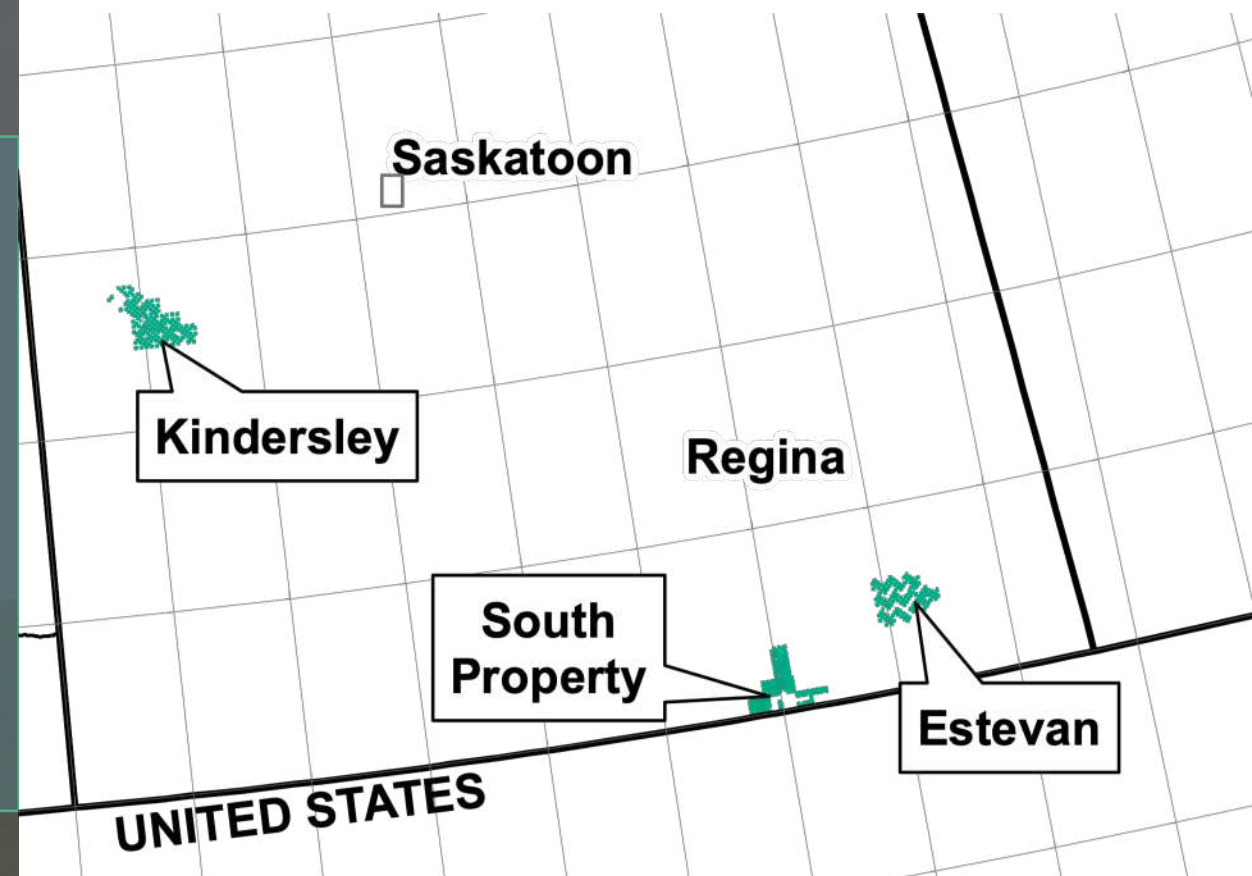


# Saskatchewan Assets

LithiumBank holds **326,459** Acres of mineral permits across 3 separate property areas.

- ✓ **Kindersley** - 101,347 Acres
- ✓ **South Property** - 134,229 Acres
- ✓ **Estevan** - 90,883 Acres

LithiumBank will be performing geological studies and water sampling with plans to create a resource estimate in 2022.



## LithiumBank Mineral Permits

# LithiumBank

## The Western Canada Advantage



Current provincial government push towards economic diversification



Available and re-purposable O&G infrastructure



Under-utilized work force with expertise in extractive industries



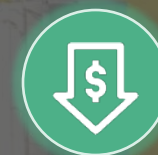
Mature O&G regulatory framework amenable to lithium brine production



Strong local social support for extractive Industries



Extensive geological data

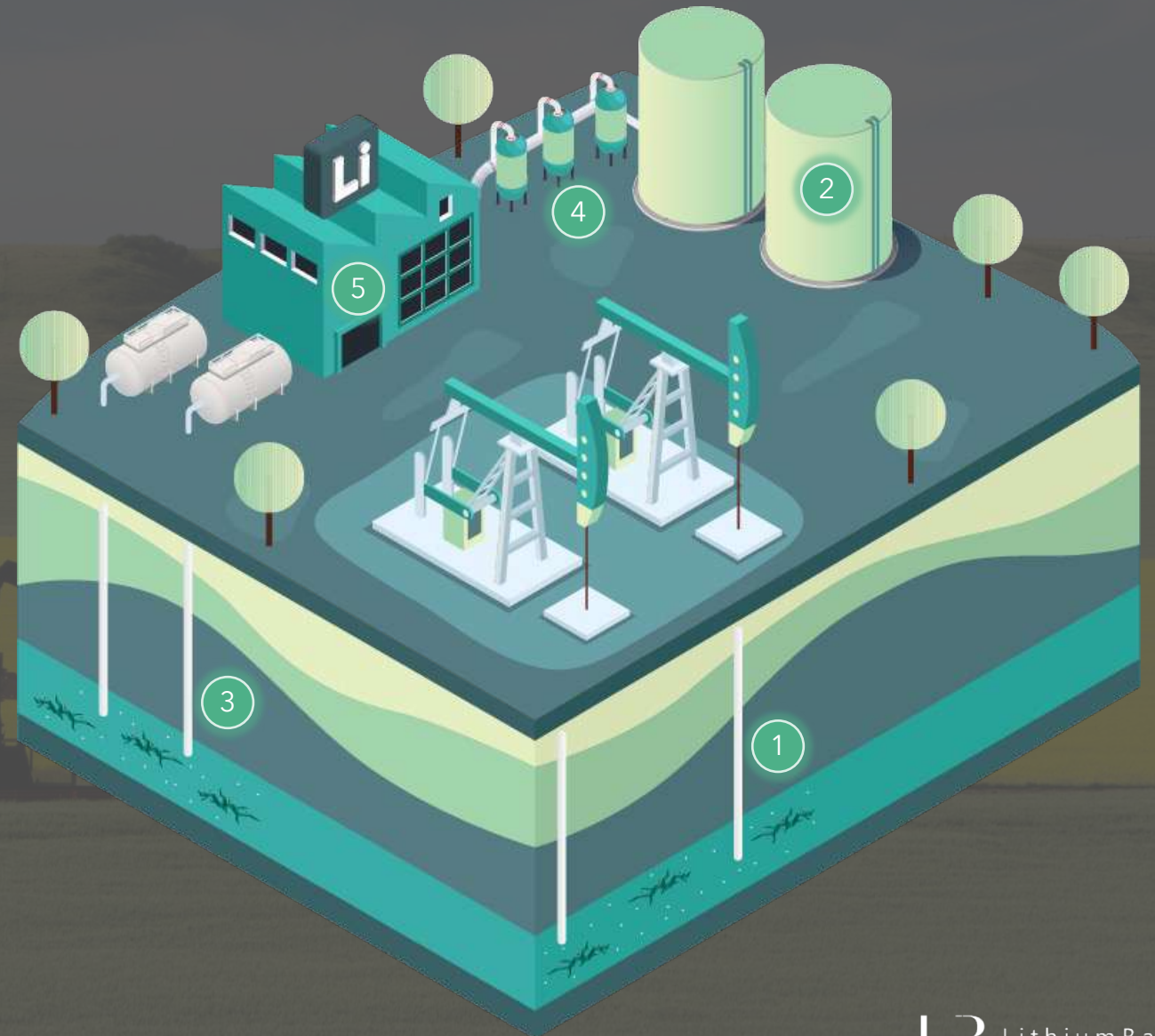


Low-cost resource delineation

\*These statements are based on management's best knowledge and belief as of the date hereof

# LithiumBank's Prospective DLE Process

- 1 Brine is extracted from a reservoir using traditional methods, potentially utilizing pre-existing O&G infrastructure.
- 2 Brine flows through a Direct Lithium Extraction (DLE) method using third party processing technology. This is highly effective in concentrating lithium.
- 3 The lithium depleted brine is re-injected into the reservoir approximately 10 km from the point of extraction.
- 4 Lithium concentrate then goes through traditional processes of polishing and electrolysis. Fresh water used in this process is recycled.
- 5 High purity, battery grade lithium hydroxide is produced on site as the end product.



# Project Development Phases





## 2022

	H1	H2
<b>Boardwalk</b>	<ul style="list-style-type: none"> <li>•Resource Update</li> <li>•Processing Results</li> </ul>	<ul style="list-style-type: none"> <li>•Reservoir Engineering, Pilot Plant Engineering &amp; Design, Permitting</li> <li>•<b>Preliminary Economic Assessment</b></li> </ul>
<b>Kindersley</b>	<ul style="list-style-type: none"> <li>•Geology Study (Matrix)</li> <li>•Water Sampling</li> </ul>	<ul style="list-style-type: none"> <li>•Commence Preliminary Economic Assessment</li> <li>•<b>Resource Estimate</b></li> <li>•Processing Results</li> <li>•Preliminary Economic Assessment</li> </ul>
<b>South Property</b>		<ul style="list-style-type: none"> <li>•Geological Study</li> <li>•Water Sampling</li> <li>•<b>Resource Estimate</b></li> </ul>
<b>Estevan</b>		<ul style="list-style-type: none"> <li>•Geological Study</li> <li>•Water Sampling</li> <li>•<b>Resource Estimate</b></li> </ul>
<b>Fox Creek</b>	<ul style="list-style-type: none"> <li>•Water Sampling and Geological Study</li> </ul>	
<b>Alberta (Other)</b>	<ul style="list-style-type: none"> <li>•Water Sampling and Geological Study</li> </ul>	
<b>BC</b>	<ul style="list-style-type: none"> <li>•Canadian Discovery, Geosciences BC, Matrix Solutions - Lithium Brine Study and Sampling Program</li> </ul>	

## 2023

	H1	H2
	<ul style="list-style-type: none"> <li>•Commission Field Pilot Plant</li> <li>•<b>Commence Pre-feasibility Study</b></li> <li>•<b>Field Pilot Plant</b></li> </ul>	<ul style="list-style-type: none"> <li>•<b>Pre-feasibility Study</b></li> </ul>
	<ul style="list-style-type: none"> <li>•Reservoir Engineering, Pilot Plant Engineering &amp; Design, Permitting</li> </ul>	<ul style="list-style-type: none"> <li>•Commission Field Pilot Plant</li> <li>•Commence Pre-feasibility Study</li> </ul>
	<ul style="list-style-type: none"> <li>•<b>Resource Estimate</b></li> </ul>	
	<ul style="list-style-type: none"> <li>•Water Sampling &amp; Geological Study</li> </ul>	
	<ul style="list-style-type: none"> <li>•<b>Resource Estimate</b></li> </ul>	

# Direct Brine Industry Comparables - Americas

Company	Symbol	Market Cap*	Resources Under PEA/PFS**	Projections in relation to PEA/PFS completion***	Stage
 Lithium Bank	TSXV:LBNK OTC:LBKMF	\$33.8M	5.97 (Proj. Q3/'22)	10.0 (Proj. H2/'23)	Direct Brine Pre-PEA
 E3 LITHIUM	TSXV:ETL OTC:EEMMF	\$142.7M	2.2	(Clearwater Project Only)	Direct Brine PEA
 Standard LITHIUM	NYSE:SLI	\$1.29B	4.335		Direct Brine PEA
 LAKE RESOURCES	ASX:LKE.AX OTC:LLKMF	\$1.46B	4.40		Direct Brine PFS

\* All Market Cap Information is in Canadian Dollars as of August 23, 2022

\*\*As of February 1, 2022. Please note, the sizes are not indicative of actual number

\*\*\*See slide 11

<sup>1</sup> [https://www.e3metalscorp.com/\\_resources/reports/technical/20210917-NI43-101-PEA-Report-Amended-Final.pdf?v=0.484?v=0.617?v=0.700?v=0.209?v=0.074](https://www.e3metalscorp.com/_resources/reports/technical/20210917-NI43-101-PEA-Report-Amended-Final.pdf?v=0.484?v=0.617?v=0.700?v=0.209?v=0.074)

<sup>2</sup> <https://www.standardlithium.com/investors/news-events/press-releases/detail/104/standard-lithium-files-preliminary-economic-assessment>  
<https://www.standardlithium.com/investors/news-events/press-releases/detail/52/standard-lithium-announces-positive-preliminary-economic>

<sup>3</sup> [https://lakeresources.com.au/wp-content/uploads/2020/10/lke\\_investor\\_presentation\\_20-oct-2020.pdf](https://lakeresources.com.au/wp-content/uploads/2020/10/lke_investor_presentation_20-oct-2020.pdf)



# Value Creation Roadmap

Shares Outstanding: 37,162,239

Warrants (WA \$1.58): 7,309,937

Broker Warrants (WA \$1.10): 848,179

Options: 3,259,625

**FDSO: 48,579,980**

## Shareholder Value Creation Strategy:

- ✓ Strategic acquisition and consolidation of high-quality lithium exploration & development assets.
- ✓ Established NI 43-101 Inferred Mineral Resource Estimate at Sturgeon Lake (Boardwalk), June 2021 (see slide 11)
- ✓ Raised \$6.84M at \$1.50/share in October 2021
- ✓ Update to NI 43-101 Inferred Mineral Resource Estimate at Sturgeon expected in H1/22.
- ✓ Hatch Engineering engaged to select a DLE technology provider to form the basis of a Preliminary Economic Assessment (PEA) for Sturgeon Lake (Boardwalk) Inferred Mineral Resource.
- ✓ PEA expected to be delivered in mid 2022.  
\* While this represents the Company's intentions, there is no guarantee that it will be achieved in the time frame presented, or at all.

# LithiumBank Team



**Paul Matysek, M.Sc. (Geol)**

Director

- 40 years of experience in the mining industry
- Sold 6 publicly listed exploration and development companies, in aggregate worth over \$2 billion

Career Highlights:

- Executive Chairman of Lithium X Energy Corp.
- CEO of Lithium One
- President and CEO of Goldrock Mines Corp.
- CEO of Potash One
- Co-founder and CEO of Energy Metals Corp.
- CEO of Gold X Mining



**Rob Shewchuk**

Chairman & CEO

Career Highlights:

- 25 years experience in the capital markets
- Chairman of Standard Securities Capital Corp.
- Managing Director of Wolverton Securities Ltd.
- Rob currently serves on the Board of Directors of:
  - Graphene Manufacturing Group Pty Ltd
  - Spectre Capital Corp.
  - Verses Technologies Inc.
  - Partner and Director at Caerus Capital Partners Inc.



**Gianni Kovacevic**

Co-Founder, Director

A graduate of electrical studies from the British Columbia Institute of Technology, he is an expert in the analysis of the global energy matrix and the impact technology and renewable energy are having on every aspect of society. Fluent in English, German, Italian, and Croatian, he makes his home in Vancouver.



**Taylor MacDonald, CFA**

Co-Founder, Advisor

- Taylor has over 15 years of Capital Markets experience
- Founder and Partner of Caerus Capital Partners
- Founding member of the Silicon Valley Blockchain Society (SVBS) and SVBS Canada
- Graduate of the Wharton School of Business at the University of Pennsylvania
- CFA Charter holder and a Director of STAND, a scholarship foundation for youth at risk.

# LithiumBank Team



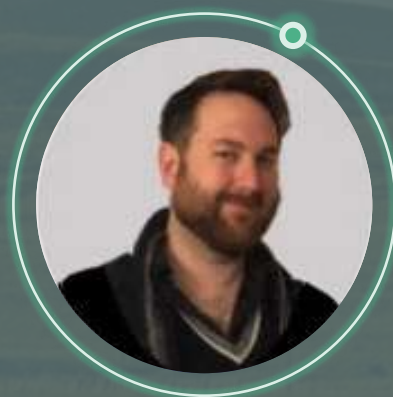
**Jon LaMothe, M.Sc**  
VP Exploration

Bachelor of Science degree in Geology from the University of Alberta and a MSc in Geology from the University of Alberta. Jon's ability has led to the discovery and capture of several fields with over two billion dollars spent to date on targets he has identified. He helped bring Black Swan Energy from no production making Black Swan Energy the 4th largest private producer of oil and gas in Canada.



**Kevin Piepgrass, P.Geo**  
COO

University of Alberta Graduate and Professional Geologist, registered at APEGBC. Over 15 years of experience managing the exploration and development of commodities including gold, silver, copper, lithium and rare earth elements. Mr. Piepgrass is a Qualified Person pursuant to National Instrument 43-101 standards for disclosure for mineral projects.



**Corey Shewchuk**  
Marketing Manager

Co-Founder Hammell Road Innovation Corporation, a company dedicated to investment and contributions to burgeoning technologies. Corey has a decade of experience in management and marketing across multiple industries.



**Fehr & Associates**  
CFO/Controller

Fehr & Associates provides consulting services to a number of mineral exploration companies with more than 25 years of business experience with management, complex transactions, corporate finance, financial reporting, governance, and regulatory compliance.

# LithiumBank Team



**Christopher Murray**  
Director

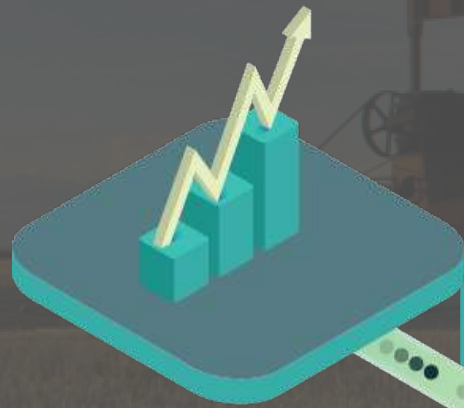
Chris has been a partner at Osler Hoskin & Harcourt for over 25 years. He leads Osler's Asia-Pacific initiative, having advised a number of Asian based enterprises principally on their investments in Canadian energy and mining businesses. Chris' practice focuses on mergers and investments for public corporations, private equity sponsors and pension funds. He has been fortunate to have been involved in a wide range of deal sizes with degrees of complexities from Lexpert Deals of the Year to smaller yet still business critical transactions for mid-cap and smaller public companies. Chris also has a wealth of experience in capital markets having advised on over 100 public offerings and dozens of IPOs in his career. He advises a number of public reporting issuers and their boards as well as Canadian pension plans as their principal trusted legal adviser on governance and a wide range of matters. Chris is widely recognized in Canada and internationally as a leading corporate lawyer by well regarded ranking organizations including, among others, Lexpert, Best Lawyers, and Chambers Global. Chris also practised in Australia early in his career while on a two-year secondment from Osler. Chris has experience as a trustee of a public REIT that was acquired by another public REIT, and as a director of not for profit and private entities.



**Steven Piepgrass, P.Eng, MBA**  
Director

Steven is the Vice President, Construction and Government Relations with Green Impact Partners (GIP). He is responsible for the construction of all new energy projects and building and maintaining constructive, respectful and transparent relationships with all levels of government. Steven joined GIP in August 2021 where he is currently leading the construction of 2 RNG projects in Colorado supporting the development of other low carbon energy projects in Alberta and BC. Prior to joining GIP, Steven was with ATCO/CU where we worked 18 years, and most recently as the Senior Vice President & General Manager, where he lead ATCO's Storage & Liquids business which included the development and execution of its Salt Caverns and Heartland Water Intake projects. Steven holds a degree in Chemical Engineering and a Masters of Business Administration from the University of Calgary, and is a member of the Association of Professional Engineers and Geoscientists of Alberta (APEGA). He is an alumnus of the Governor General's Canadian Leadership Conference.

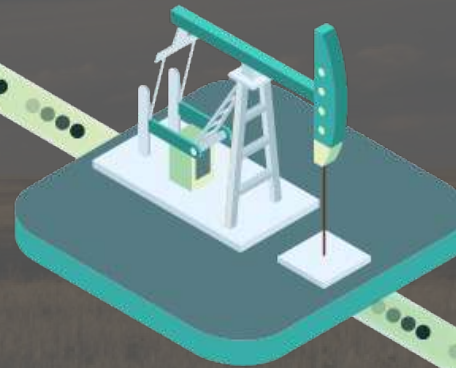
# Summary



Growing Global Lithium Supply/Demand Imbalance



LithiumBank holds over 3.7M Acres of Land Assets



**Western Canada Advantage**  
Social License, Available Infrastructure and Expertise



Multiple Potentially Licensable DLE Technologies