

Sustainable Lithium Extraction

"The urgent need for cost-effective and sustainable lithium is transforming the industry landscape." – Scott Taylor, CEO, Lithos



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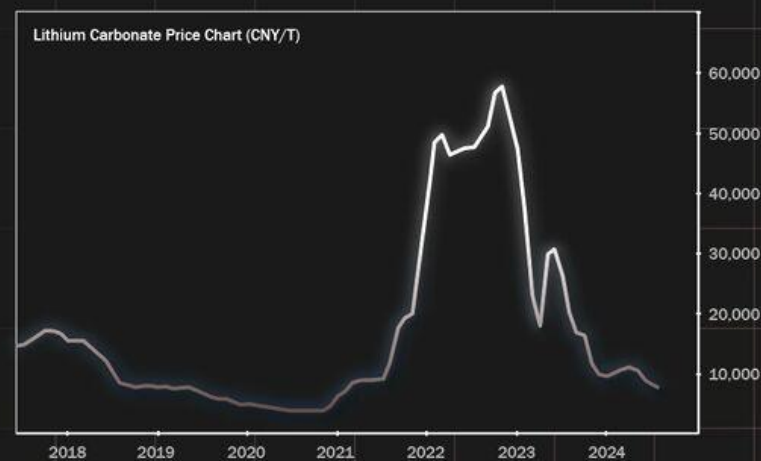
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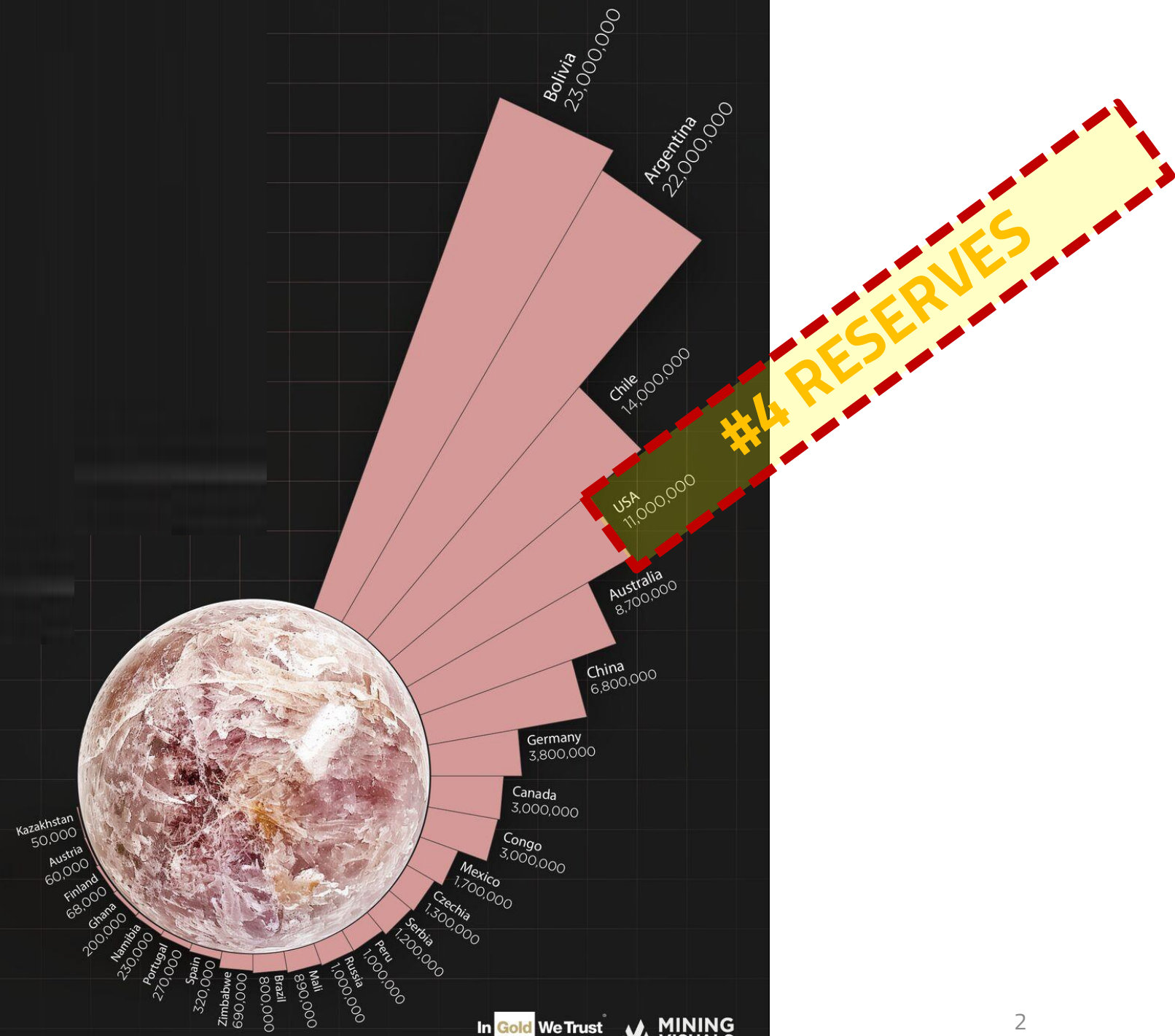
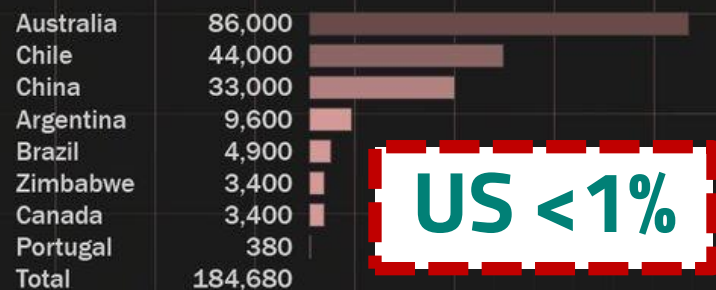
Lithium:

Resources, Price & Production
by Country (metric tons)

Price Chart



World Lithium Production



EVAPORATION PONDS

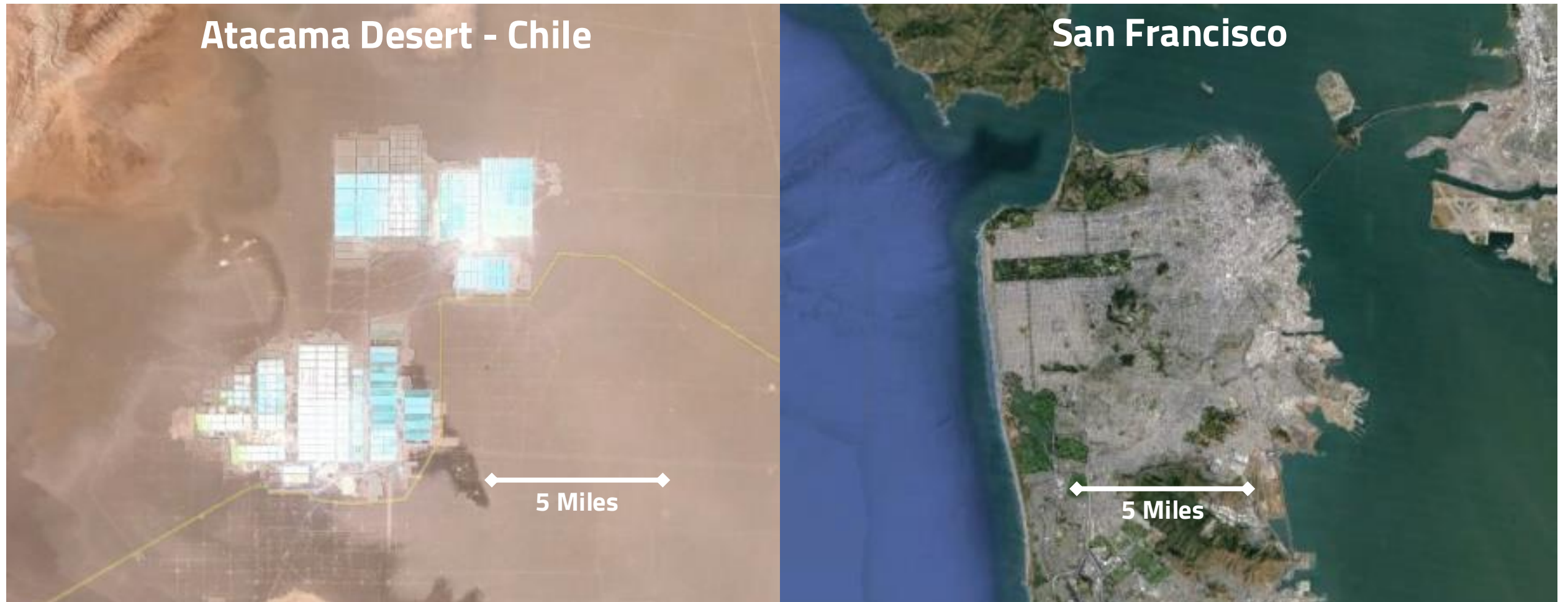
Existing production method employs plastic-lined pits stretching for miles



Ponds consume the equivalent of more than 1 million tons of water and chemicals per year

MASSIVE SCALE OF EVAPORATION PONDS

Footprint of SQM's production facility in Chile rivals the size of San Francisco



70% of global lithium will be extracted using evaporation ponds unless there is change

PROBLEM

Chemical-Intensive Evaporation Ponds: The Unsustainable Bottleneck in Lithium Production

UNSUSTAINABLE & INEFFICIENT EXTRACTION

- ➔ 40%+ OF RESOURCE LOST
- ➔ CHEMICALLY INTENSIVE
- ➔ SLOW (9+ MONTHS)
- ➔ CONTAMINATES GROUNDWATER

Environmental regulators have instructed producers to cease using evaporation ponds and an alternative solution is desperately needed

PURPOSE

Sustainable Lithium Production without Evaporation Ponds



Demand for lithium forecasted to grow 4.5x by 2035*

IMPENDING SUPPLY IMBALANCE

LITHIUM MARKET IS AT A BOTTOM – CAGR CONSUMPTION TO CREATE ANOTHER SHORTFALL 2025-27

“Something drastic needs to happen to close this gap if one of the key pillars of the energy transition is to exist at scale”

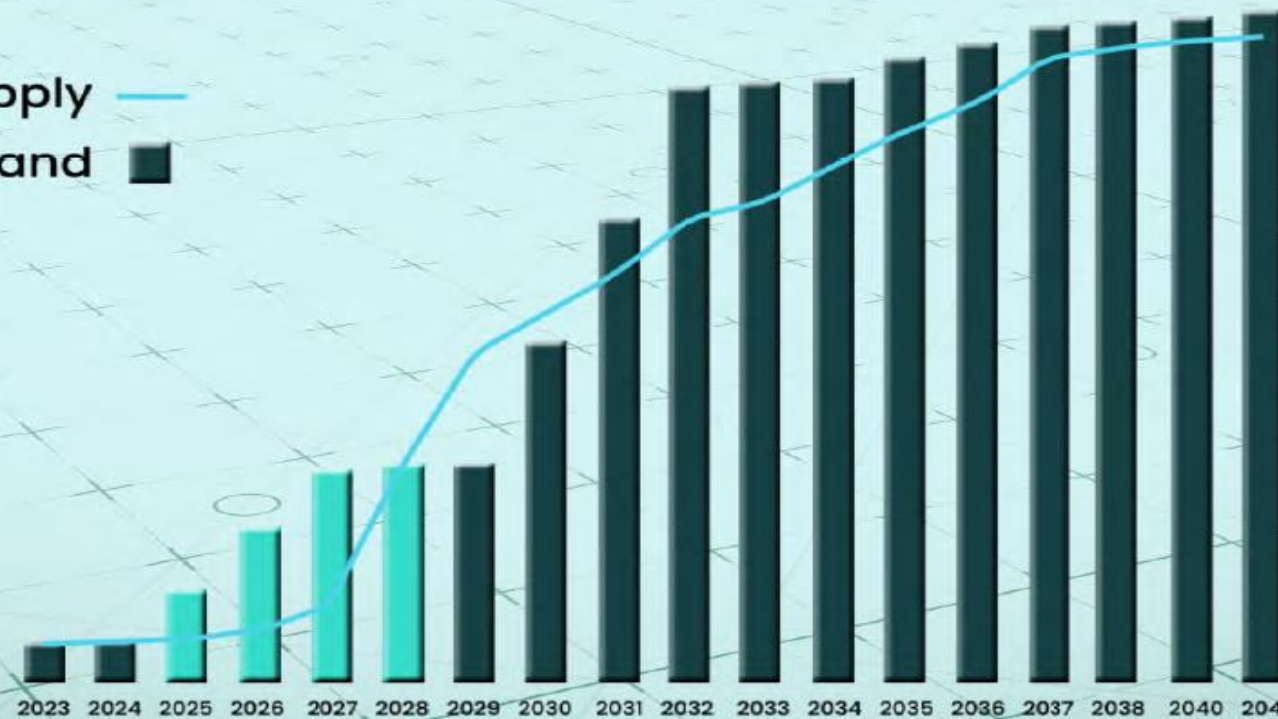
- SIMON MOORES

CEO Benchmark Minerals



Battery Grade Supply and Demand Forecast (KT LCE)

Supply —
Demand ■



MARKET SIZE

Global production process transformation away from evaporation ponds drives massive addressable market growth for **AcQUA™** & **TiERRA™**

TAM – Current (2024):

\$14 Billion

350,000-ton LCE / year cumulative current lithium brine productions

TAM – Projected (2035):

\$70 Billion

Additional 3.3 million-ton LCE / year requirement by 2035¹



1. Source: Benchmark Mineral Intelligence

KEY ACHIEVEMENTS TO DATE

FUNDRIASING

- Secured \$5 million in funding to date
- \$1.55 non-dilutive grant funding
- Finalist for \$30mm grant

CUSTOMER LED INVESTMENT

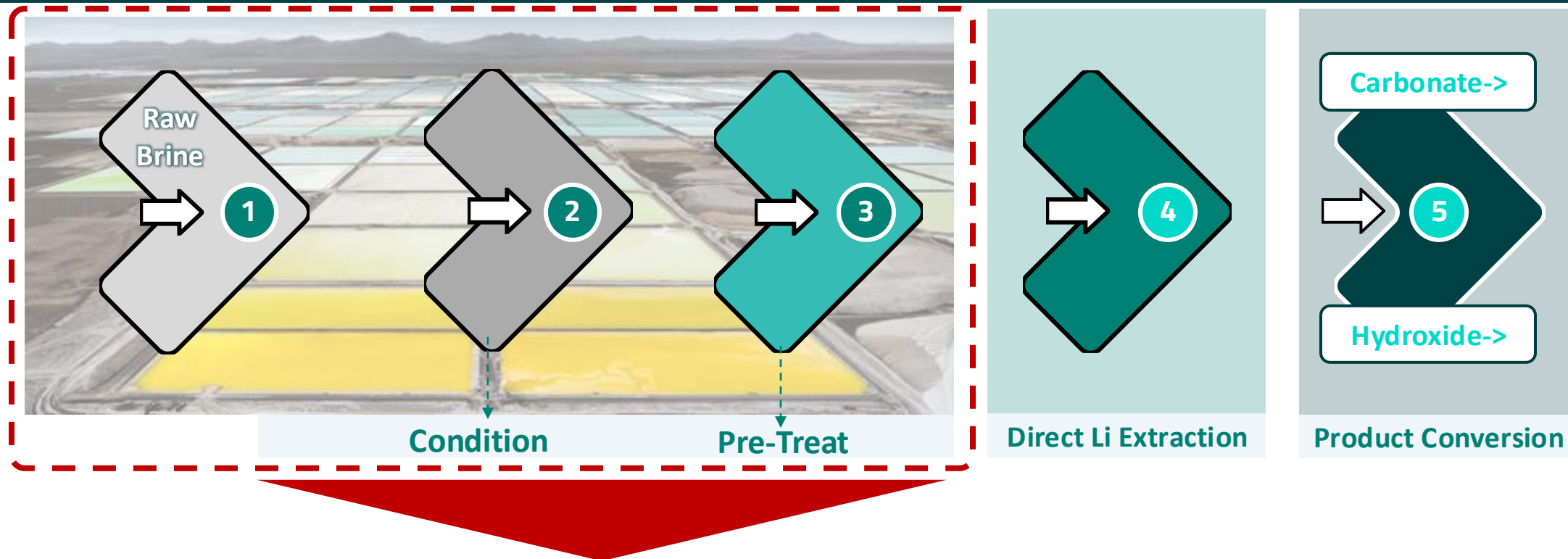
- Conversion of “pilot customers” to commercial deployment
- Negotiating \$30 million in pilot programs
- 2 customers actively negotiating direct investment

FINANCIAL

- Improved balance sheet significantly
- Pre-qualified to uplist in US to NASDAQ or CBOE

AcQUA™ ENABLES DOWNSTREAM EFFICIENCY

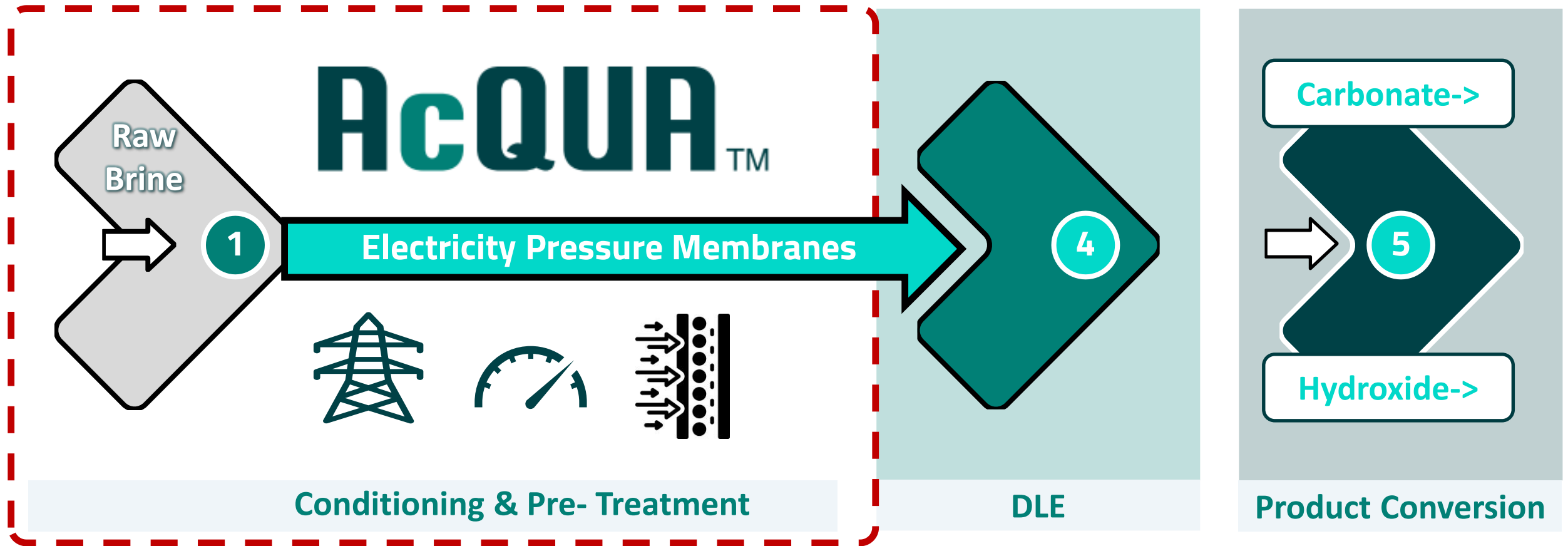
Lithium Brine Extraction Value Chain



- The upstream pre-treatment efficiency represent the key bottleneck to the commercial viability of any DLE technology used downstream
- AcQUA™ technology solves the pre-treatment challenge for any project with proven rejection of 100% of impurities (HBO_3 , SO_4 , Ca) and over 99% of Magnesium from supersaturated brines

AcQUA™ ENABLES DOWNSTREAM EFFICIENCY

LITHOS STREAMLINED Value Chain



AcQUA™ MULTIFACETED VALUE PROP FOR CUSTOMERS

For Existing South American Producers:

- **Higher Yields** – Recovery Factor of over 90% can **boost yields ~2x**
- **Increased Production Volumes** – Higher re-injection rates projected to **increase production volumes 3x+**
- **Shorter Lead Times** – Projected processing time cut from 9-12 months to **under 2 weeks**
- **Reduced OpEx** – Operating expenses are expected to be lower by **eliminating the need for freshwater and chemicals**

For Aspiring US Producers:

- **AcQUA™ enables access to “trapped” Li resources** where evaporation ponds cannot be permitted

AcQUA™ Field Module for Brines

Manufactured in USA: ensures quality & rapid delivery



Customer Payback Period:
11 Months¹

AcQUR™ MANUFACTURED IN USA: ENSURES QUALITY & RAPID DELIVERY

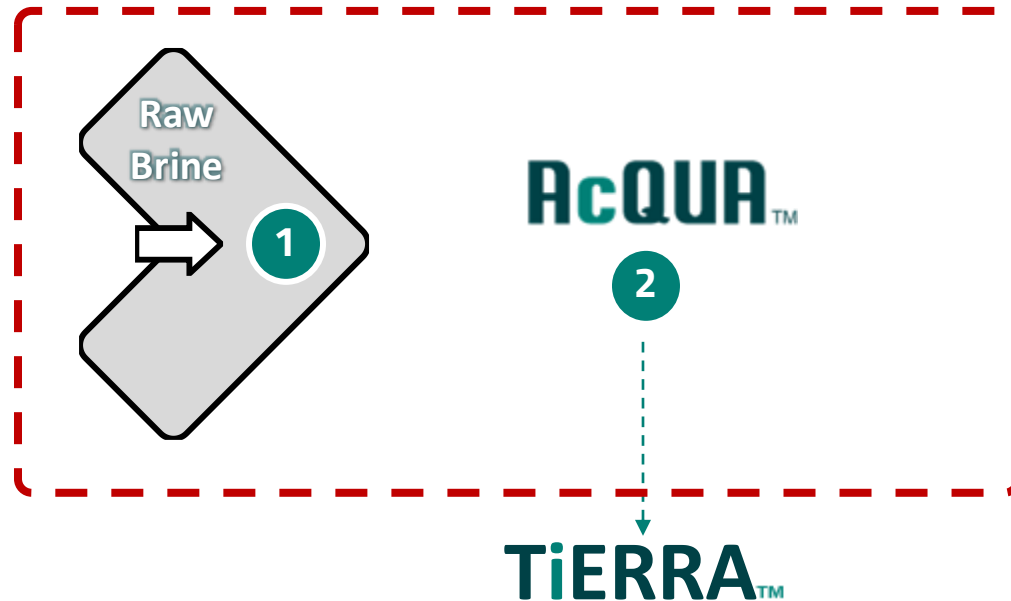


**Boosts Existing Mine Production
+40-300%**

**Customer Payback Period:
11 Months¹**

TiERRA™ BOOSTS PRODUCTION WITHOUT PONDS

Re-Injection Enables 3x+ Production from Existing Mines



BEST OF THE BEST

This Certificate Is Presented To

Scott Taylor and Jackson Haffener

SPE International

In recognition of exceptional work surrounding

Manuscript 24HFTC SPE-217815-MS

Presented at 2024 SPE Hydraulic Fracturing Technology Conference and Exhibition

Jennifer Miskimins

Event Program Committee Chairperson

2/26/2024

Date

Professionally Managed Pre-Treated Brine Re-injection

- Re-injection technology allows existing brine producers to **accelerate production expansion projects** by mitigating net water consumption
- Re-injection technology **proven over past 10 years** in oilfield to image frac fluid, production, and micro-earthquakes
- **Awarded Best of the Best technology** at the Society of Petroleum Engineers (SPE) 2024 Hydraulic Fracturing Technology Conference and Exhibition

UPCOMING MILESTONES

Lithos began manufacturing multiple demo scale systems in Q1 2024. Large and growing executable sales pipeline with customers A-F

Customer Status	Q1 2024	Q2 2024	Q3 2024	Q4 2024	Q1 2025	Beyond
Testing	Customer A Customer B	B C D	C D	E F		
Purchase Order		A B	ABC			
Demo System Manufacturing	A B	A B	A B C	A B C	C D	
Field Deployment				A B	C	
Recurring Sticky Revenue				A B	A B	C D
Scale Up					A	A – F

KEY INVESTMENT HIGHLIGHTS

Patent-pending AcQUA™ technology is field-proven at Industrial Scale

- Dramatically increases lithium production
- AcQUA™ eliminates the need for evaporation ponds, reagents and fresh water

Major Market Drivers Accelerating Demand for AcQUA™

- Global Lithium demand soaring
- Government pressure to replace evaporation ponds
- Only 1% of current lithium production comes from US

Strong Sales Pipeline with Existing Li Producers who form the “Tier 1” Customer targets

- Multiple paid customer projects ongoing at test facility in Alabama
- AcQUA™ boosts production at existing mines

Robust Revenue Outlook Projected in 2024

- Conversion of “pilot customers” to commercial deployment
- Strong sales funnel of prospective customer

Experienced Management Team Highly Invested in Company

- Track record of successfully developing and commercializing technology based industrial solutions
- Management owns ~60% of equity on a fully diluted basis

CORE MANAGEMENT TEAM



Scott Taylor / CEO, Director Scott has over 20 years of direct experience spanning finance, energy, mining, defense, and civil engineering industries. Scott has scoped, built and sold over US\$250 million in technical solutions. Scott graduated from Franklin College (Lugano) Switzerland with BS in Finance 2002.



Christopher A. Green Ph.D. / CTO Chris holds a PhD in Physical Chemistry from Salford/UMIST and a MS in Petroleum Engineering from the Colorado School of Mines. Chris has 28 years professional experience in the energy industry. Chris has worked internationally managing interdisciplinary teams spanning chemical - and reservoir engineering project management competency.



Dino LaCapra / Chief Development Officer Dino has secured more than US\$2 billion in contracts implementing turn-key services focused on multi-year private and public partnerships to build, operate, and maintain integrated homeland security and renewable energy projects. He graduated with a BS in International Business from Barry University and holds an MBA from Georgetown University.



Michael Westlake / President, Director Michael has over 20 years of experience managing complex projects, predominantly in remote locations of the Canadian Arctic which come with major logistical and technical challenges. He holds a BS in Chemistry and Environmental Studies from the University of Victoria and a MS from the University of Edinburgh in Environmental Change and Sustainability.



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