

# 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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## PURPOSE

# Sustainable Lithium Production Without Evaporation Ponds

Demand for lithium forecasted to grow 4.5x by 2035\*



# EVAPORATION PONDS

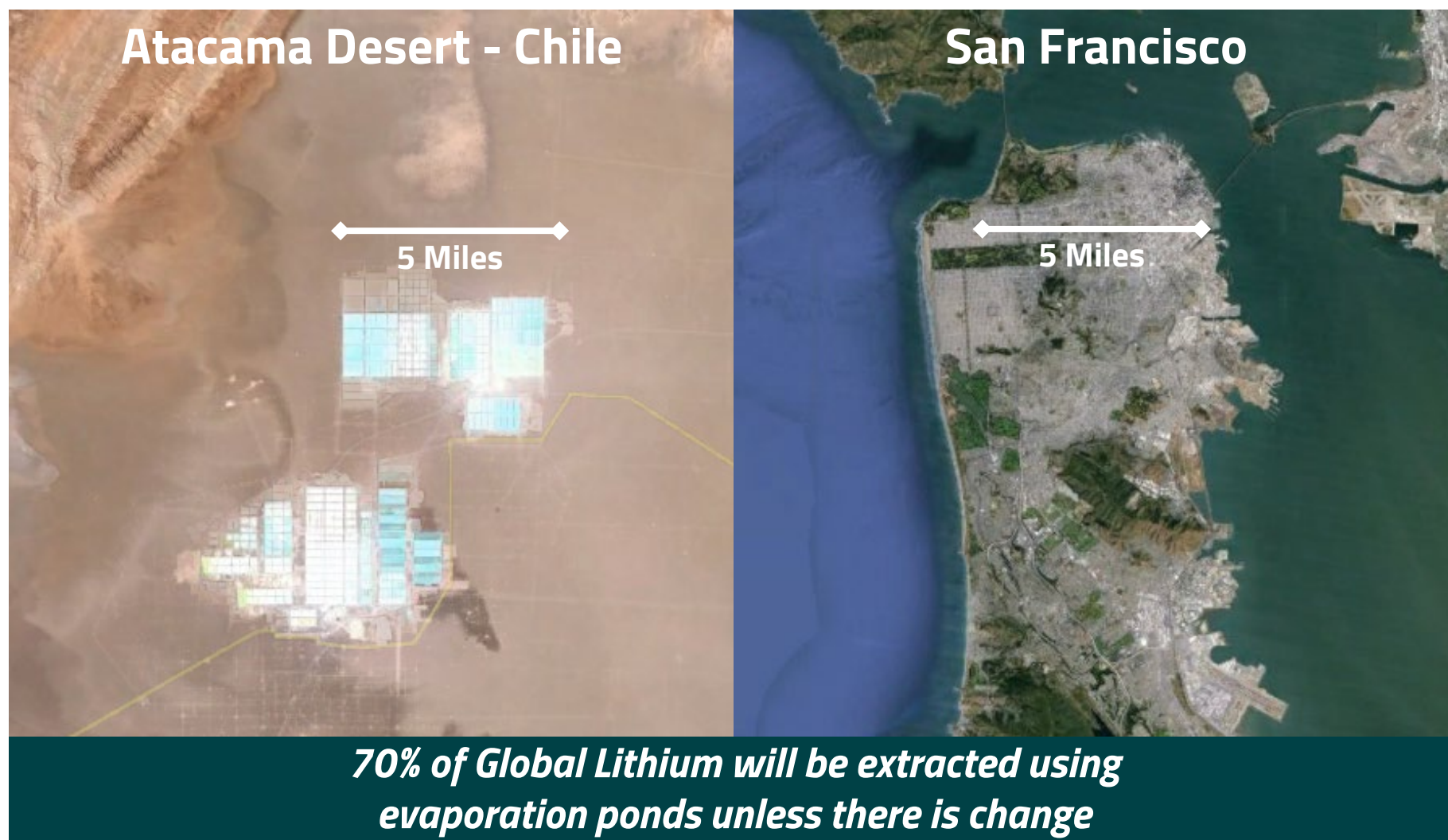
Existing production method employs plastic-lined pits stretching for miles



**Ponds consume equivalent of 40 Panamax cargo vessels 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





# PROBLEM

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

### UNSUSTAINABLE & INEFFICIENT EXTRACTION

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

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

# KEY INVESTMENT HIGHLIGHTS

**AcQUA™ technology is patent-pending and field-proven at Industrial Scale**

- Dramatically increases lithium production
- AcQUA™ pre-treatment technology for brines that eliminates the need for evaporation ponds, reagents and fresh water

**Major Market Drivers Accelerating Demand for AcQUA™**

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

**Strong Sales Pipeline with 6 Global “Tier 1” Customers**

- 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

**Strong and Experienced Management Team**

- Track record of successfully developing and commercializing technology based industrial solutions

# AcQUA™ TECHNOLOGY

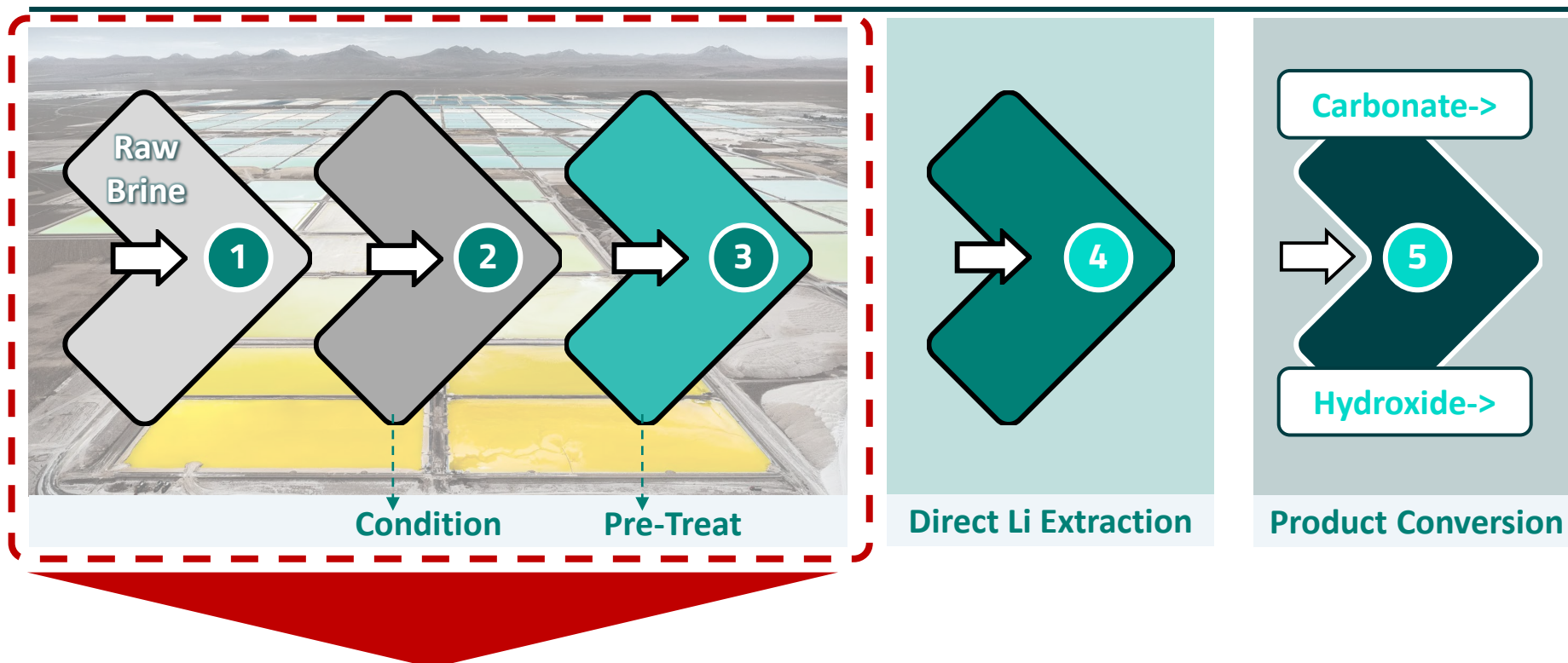
Patent-pending process eliminates need for freshwater and reagents and has demonstrated a proven 93% lithium yield from complex field brines





# AcQUA™ ENABLES DLE

## Direct Lithium Extraction (DLE) Lithium Brine Value Chain



- **The upstream pre-treatment efficiency represent the key bottleneck to the commercial viability of any DLE technology used downstream**
  - Company commercial focus is on pre-treatment to make any downstream process work more efficiently
  - Evaporation ponds are prohibited in the US and being phased out by the regulator in Chile
- **AcQUA™ technology solves the pre-treatment challenge for any project with proven rejection of 100% of impurities (HBO<sub>3</sub>, SO<sub>4</sub>, Ca) and over 99% of Magnesium from supersaturated brines**

# 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

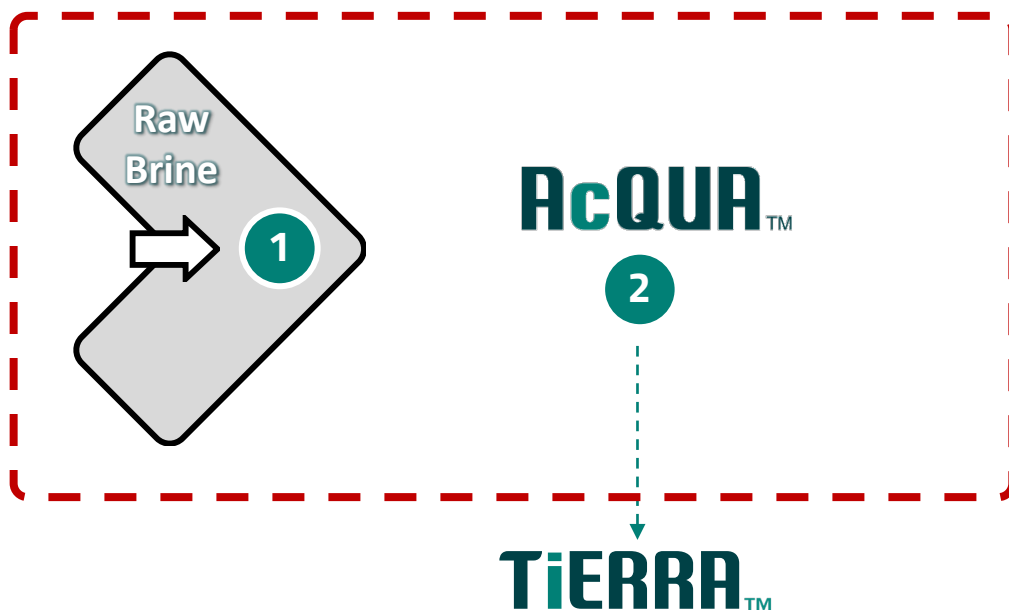
**Manufactured in USA:** ensures quality & rapid delivery



**Expected Customer Payback Period:**  
**<12 Months<sup>1</sup>**

# TiERRA™ BOOSTS PRODUCTION WITHOUT PONDS

## Re-Injection Enables up to 3x Production from Existing Mines



### BEST OF THE BEST



### 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 Best technology at SPE 2024 HFTC



# 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 2035<sup>1</sup>**



**TIER 1 – MOST URGENT IMMEDIATE NEED**

**TIER 2 – ACTIVE PILOTS**

# REVENUE MODEL

## Tolling Model – Recurring Sticky Revenue Insensitive to Lithium Commodity Price

- **AcQUA**<sup>™</sup> recurring, sticky, life of mine revenue stream scales with process transformation away from the use of ponds.
- **TiERRA**<sup>™</sup> recurring revenue for professionally managed re-injection and reservoir production enhancement pairs with each modular **AcQUA**<sup>™</sup> unit



**SOM – 2024**

**2035**

**1.6 million barrels / day**

**3x growth**



**1.1 million barrels / day**

**3x growth**

**RioTinto**

**250,000 barrels / day**

**4x growth**



# UPCOMING MILESTONES

Lithos began manufacturing multiple demo scale systems in Q1 2024. Large and growing executable sales pipeline

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	C D			
Demo System Manufacturing	AB	AB	A B C	C	C D	
Field Deployment				A B	C	
Recurring Sticky Revenue				A B	A B	C D
Scale Up					A	A – F



# COMPARATIVE LANDSCAPE

Commercial value of  **LiTHOS** has yet to be recognized by the market

- Competitor valuation have soared despite having inferior capabilities to Lithos



**\$2.2 Billion Market Cap. Raised \$145M Series C in Feb. 2024**

- X Processed only 14m<sup>3</sup>/day in 2023
- X Reliant on freshwater and chemicals
- X Reliant on pond pre-treatment



**\$300 Million Market Cap.** (Marginal Revenue)



**\$200 Million Market Cap.** (Marginal Revenue)



**\$50 Million Market Cap.** (\$250 Million Executable Sales pipeline )

# FINANCIAL SNAPSHOT **Cboe** 'LITS'

- **Issued & Outstanding:** 83.6 million
- **Reserved for Issuance:** 16.5 million
- **Insider Ownership:** 60% Management | 27% Institutional
- **Market Capitalization:** USD\$50 million



# EXECUTIVE 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.



**Joe Fuqua / COO** Joe brings over 20 years of experience across technology, entrepreneurship, and investment funds to LiTHOS. He holds a BA Computer Science from Brown university and an MBA from UCLA Anderson School of Management.



**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.



**Gabe Segal / VP – Strategy & Finance** Gabe has over 10 years of experience in private equity, investment banking, and consulting, specializing in energy investments. He has actively participated in the underwriting and due diligence of numerous investments, both in advisory and principal investor roles. Mr. Segal holds a BS and a MS in Industrial Engineering from the University of Wisconsin-Madison.





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