



# LEADING INNOVATION IN SUSTAINABLE LITHIUM PRODUCTION

2023 Q2 Corporate Presentation

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# 500% More Lithium Required

More than 75 Massive New Lithium Mines Required by 2035 to meet electric vehicle and energy storage batteries. Averaging production of 45,000 tons per year, each mine:

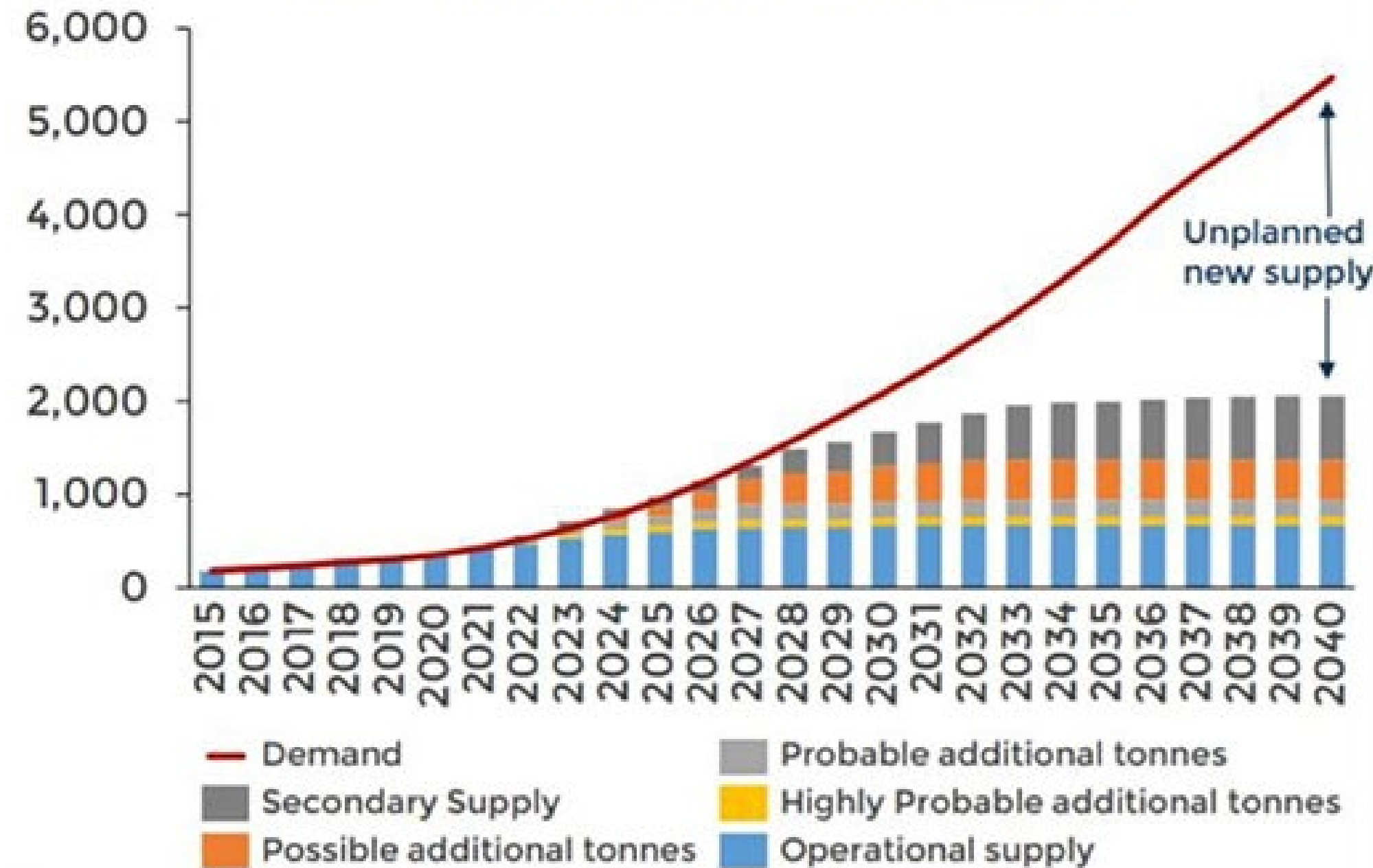
**Destroys 2500 acres of land**

**Consumes 10 billion gallons of water**

**Produces 250,000 tons of CO2**

**Takes up to 2 years to evaporate and deliver supply**

### Lithium Demand vs Supply Forecast

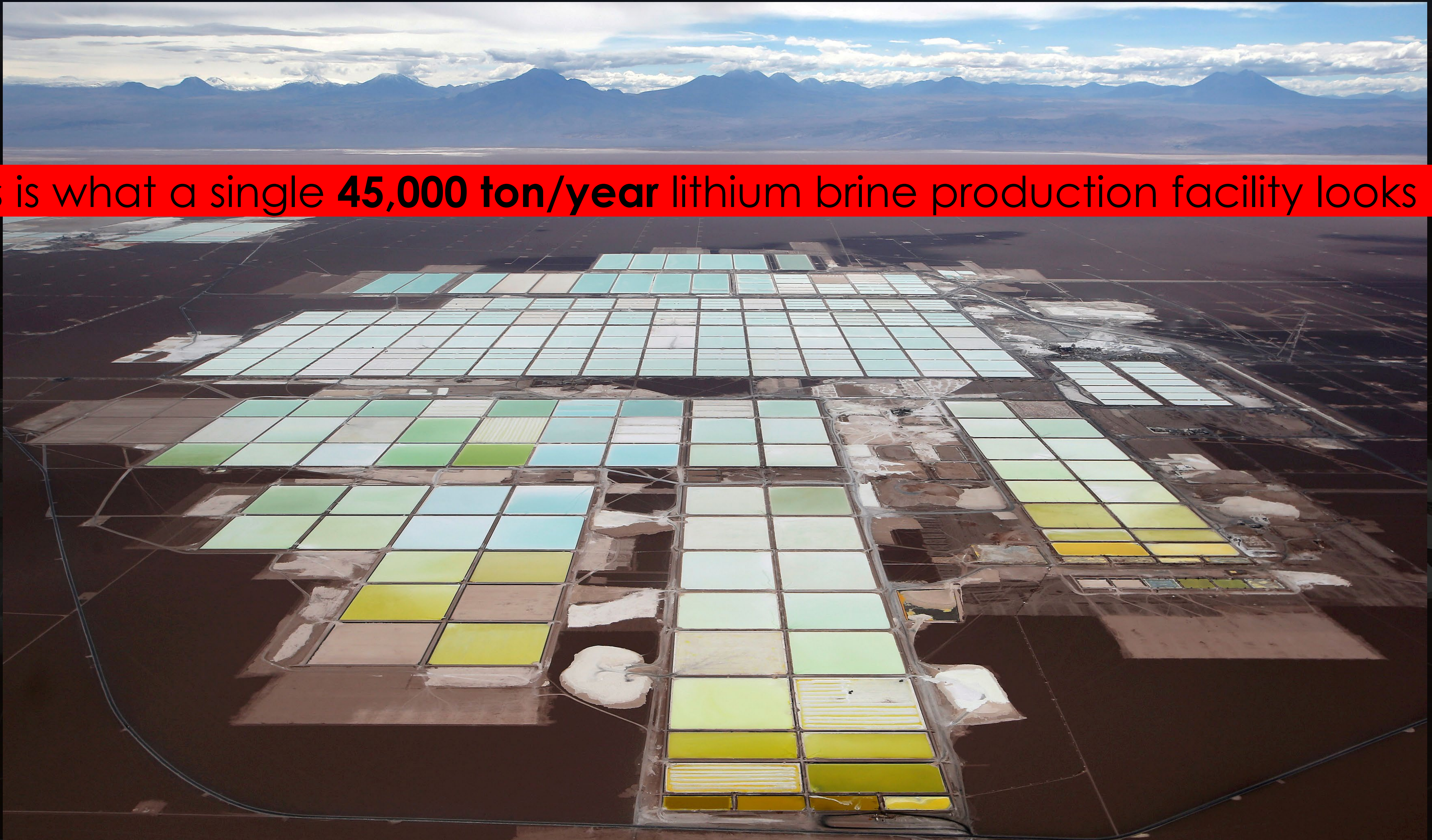


source: Benchmark Minerals



1%

This is what a single **45,000 ton/year** lithium brine production facility looks like

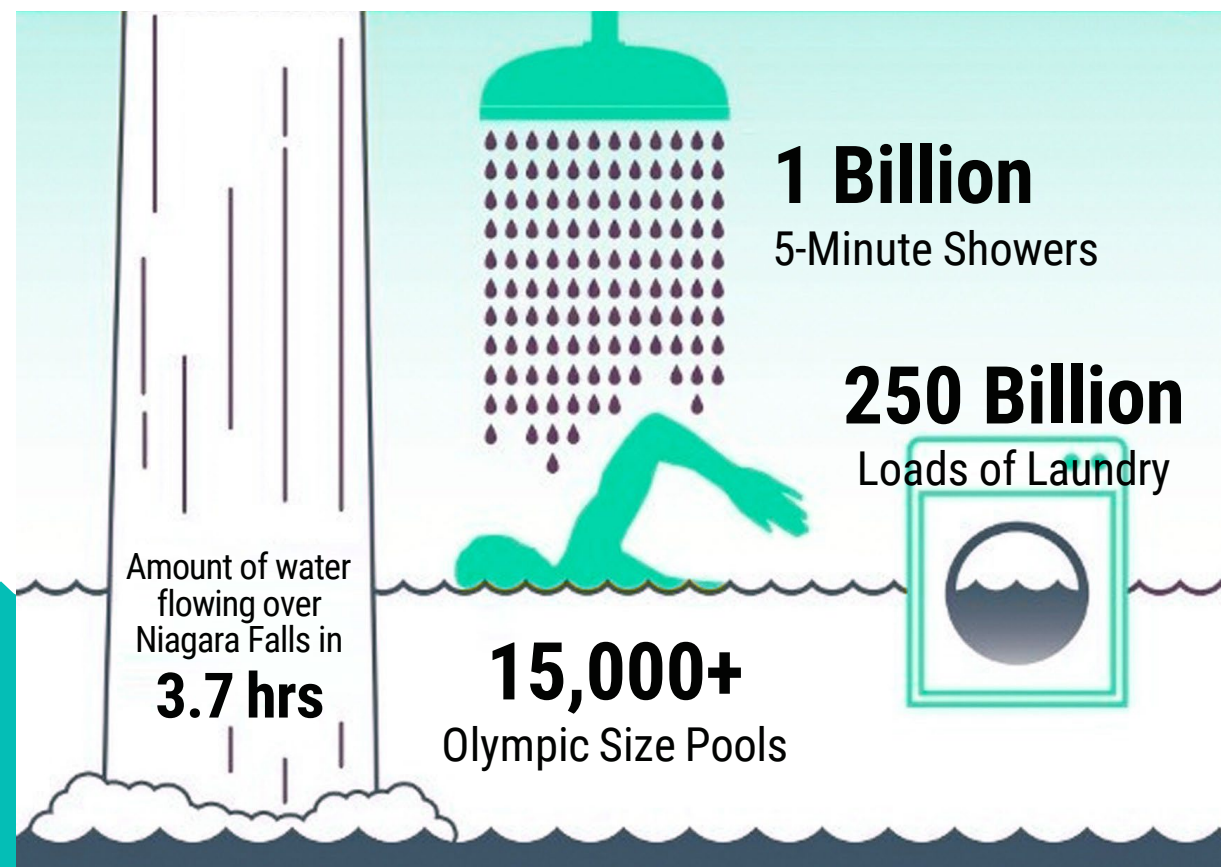


This is what working at a lithium brine production facility looks like



# Massive Water Consumption

10 BILLION GALLONS OF WATER EQUATES TO:



To meet the demand for lithium, a total of 856 billion gallons of water per year will be necessary, which is equivalent to filling the Empire State Building over 3,000 times in just one year.

**EACH OF THE 75 REQUIRED MINES WILL CONSUME 10 BILLION GALLONS OF WATER PER YEAR.**

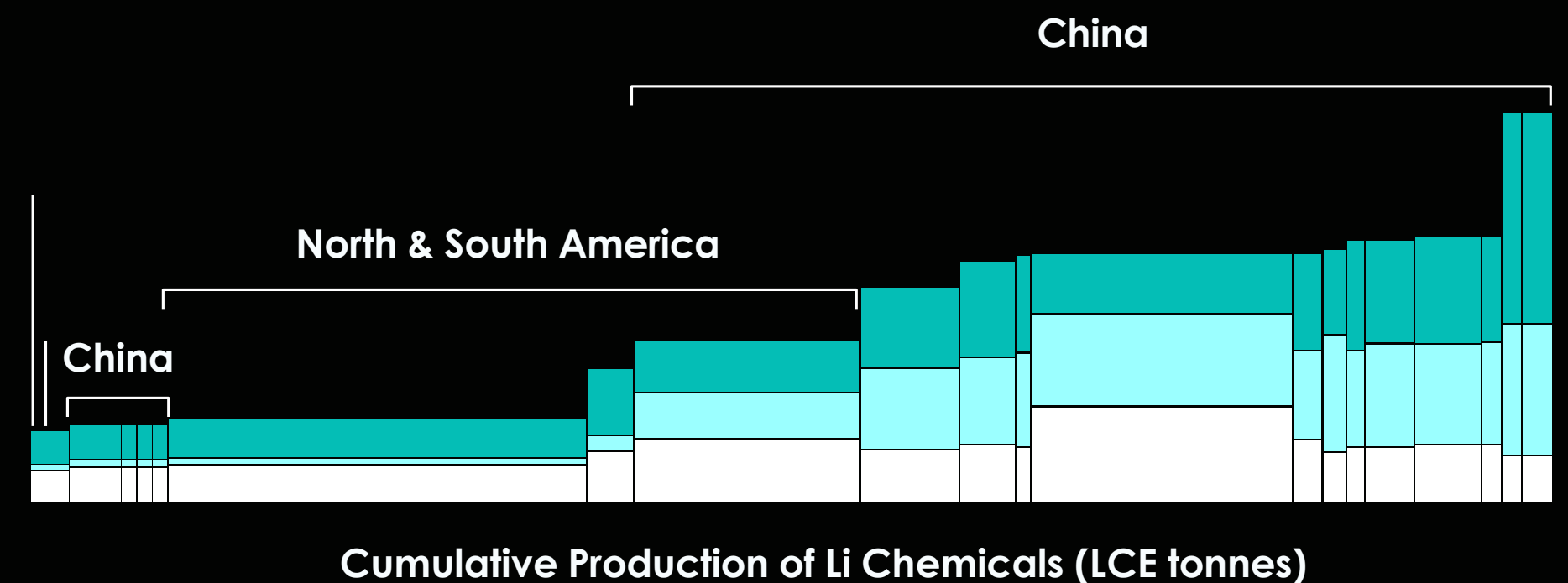
# Significant Carbon Emissions

Carbon intensity curves are a key tool to compare emissions of different operators, ore extraction and processing methods and how emissions are expected to be affected as companies scale up production in the future.

## LITHIUM CARBON INTENSITY CURVE IN 2022

GHG emissions intensity of lithium chemicals production in 2022 (tonnes CO<sub>2</sub>eq/tonnes of Li Chemicals produced)

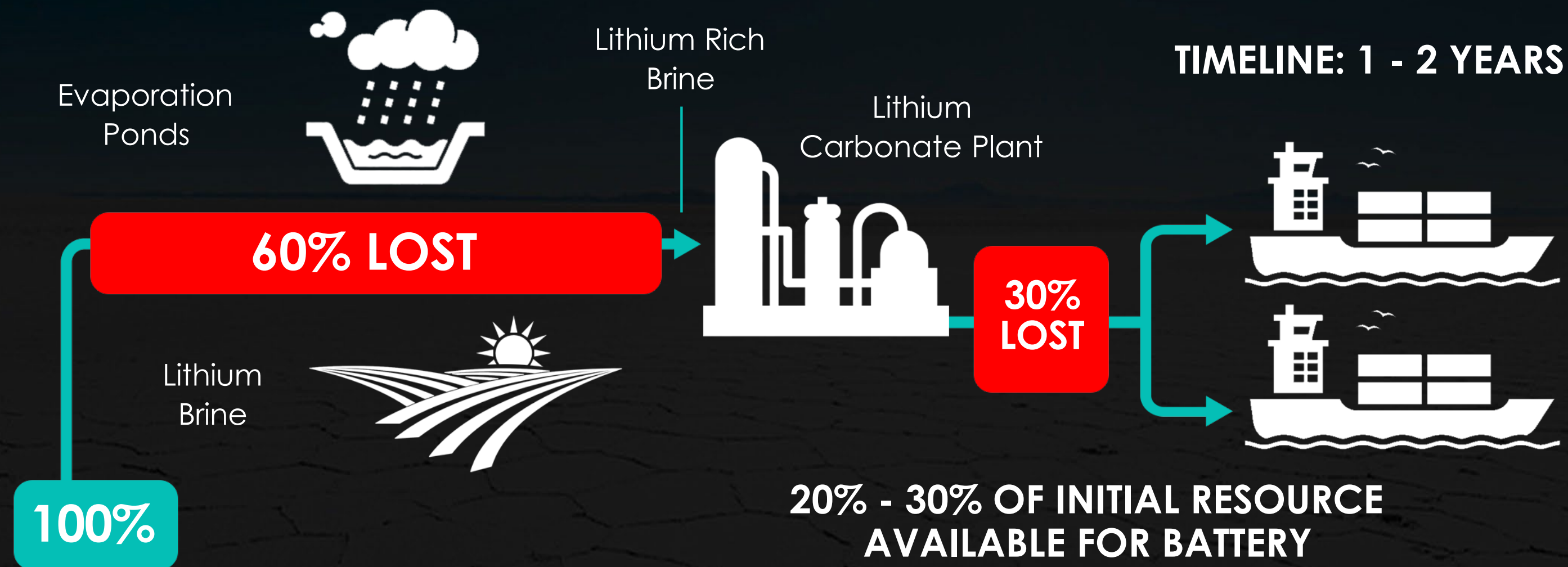
Scope 1
  Scope 2
  Upstream Scope 3



# Up to **80% Wasted** Lithium Resource

## THE LITHIUM EXTRACTION PROCESS IS INEFFICIENT AND UNSUSTAINABLE.

Current Value Chain - From Raw Brine to Refined Lithium Chemicals For Battery





## MISSION:

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Lead the lithium production industry with innovative and sustainable solutions for a clean energy future.

## VISION:

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Become the trusted standard of economic, environmentally efficient, and sustainable lithium resource development.

# Total Addressable Market (TAM): The Americas

**TAM Current (2022):  
\$14 Billion**

- ▶ **350,000 ton LCE / year cumulative** current lithium brine production
- ▶ **Recurring \$1.4 Billion annual OPEX** target market revenue

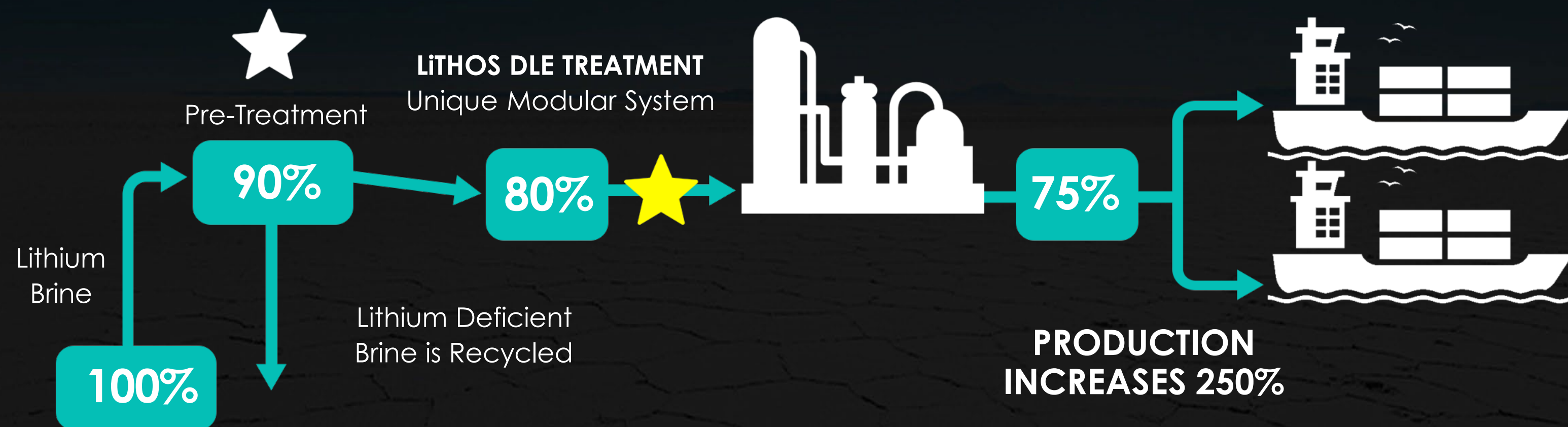
**TAM Growth (2035):  
\$133 Billion**

- ▶ **3,322,000+ ton of LCE supply requirement** by 2035
- ▶ **Recurring \$15 Billion annual OPEX** target market revenue

# Proven & Patented Solution

Field-proven, patented oil & gas produced water solutions technology for sustainable lithium production fulfillment, with **6 years and \$8 million invested** to commercialize this technology at scale.

Transforms generated brine water into thoroughly purified desalinated irrigation water simultaneously extracting high-quality lithium and other valuable minerals.



# Industrial Scale Pre-Treatment Facilities & IP

**LiTHOS is the only operator with proven industrial scale pre-treatment facilities & IP.**

## PRE-TREATMENT CONTROLS PRODUCTION FULFILLMENT:

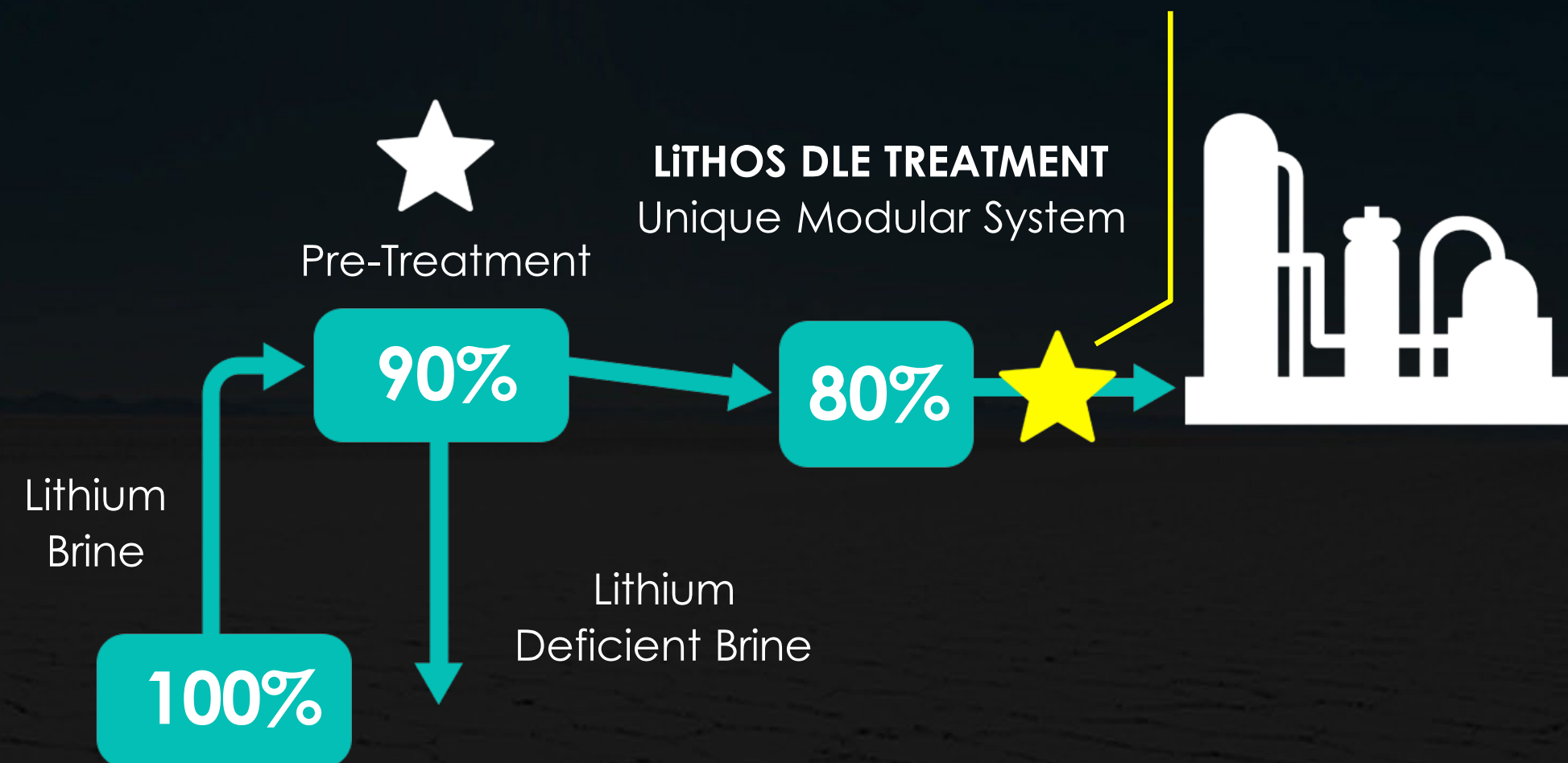
**Economics:** This is the primary step which can substantially improve both CAPEX and OPEX.

**Volume of Deliverability:** How much brine fluid can be extracted and run through the production facility.

**Efficiency of Deliverability:** Pre-treatment is where 60% of the resource is lost & where massive water consumption occurs.

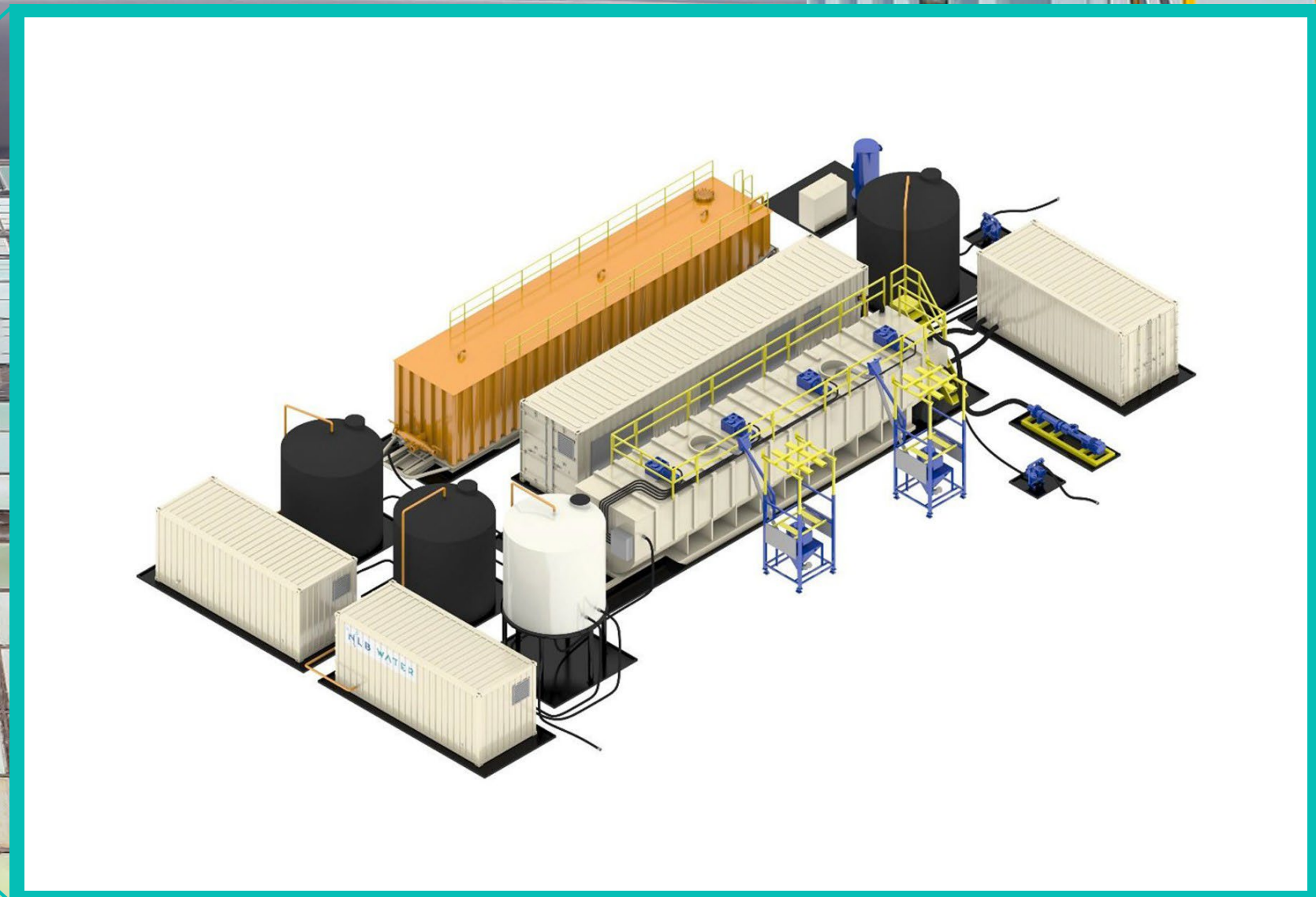
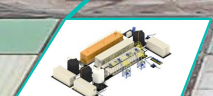
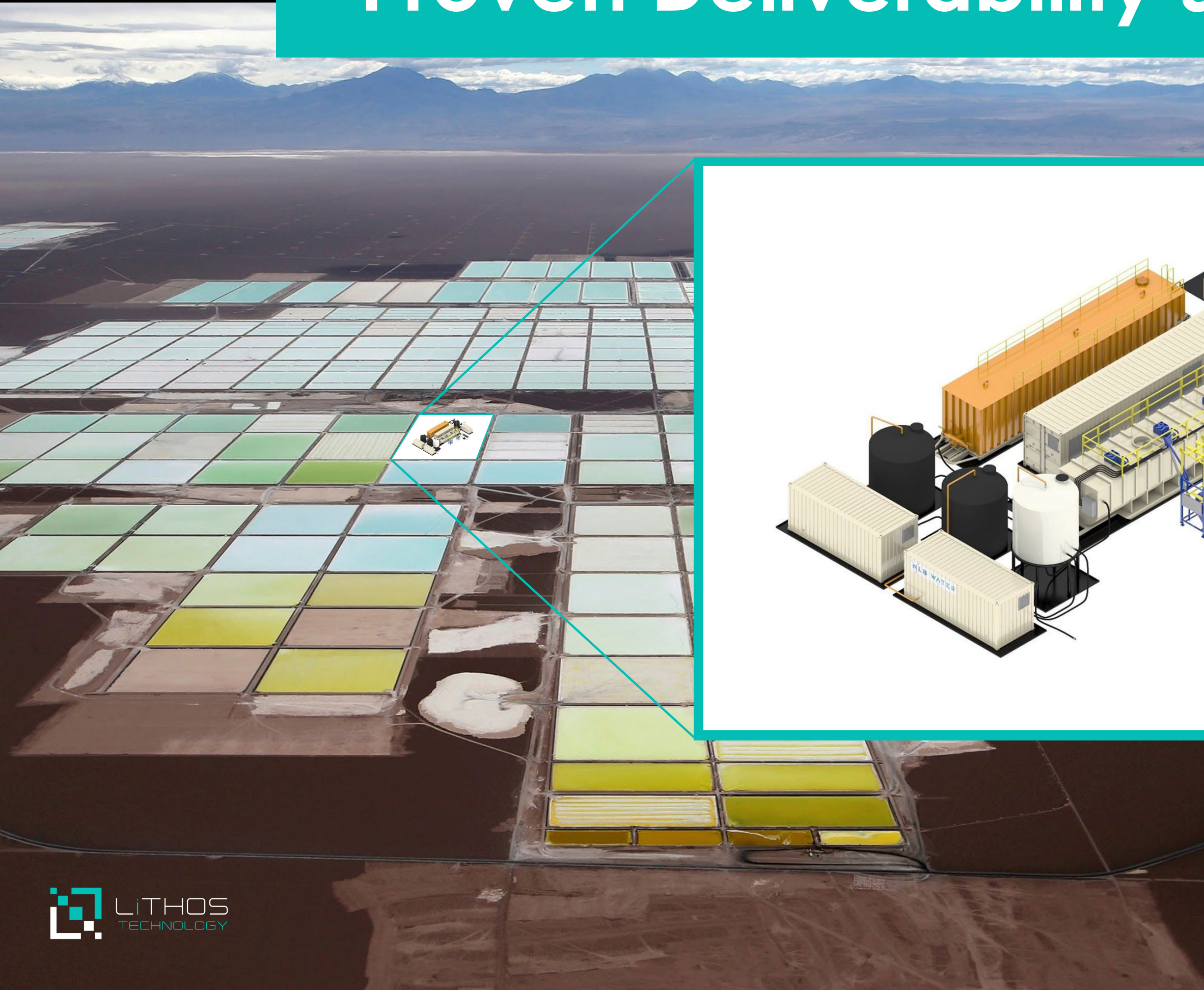
**Simplicity of DLE:** The 'cleaner' the input brine, the simpler the solution:  
**less chemicals - better recovery.**

Every Single DLE Tech is Myopically Focused on Lithium Recovery from a 'Pre-treated' Brine



LiTHOS is the only operator with proven industrial scale pre-treatment facilities & IP

# Proven Deliverability & Tiny Footprint



# DLE Advantages & LiTHOS Further Value

## DLE ADVANTAGES OVER EVAPORATION

**REDUCE TIME** to move from in-situ resource to deliver production from 5+ years to 1 year

**REDUCE TIME** from YEARS to WEEKS for Processing

**IMPROVE EFFICIENCY** for resource production capture

**REDUCE WATER** Consumption

**REDUCE SURFACE FOOTPRINT**

**REDUCE CO2 EMISSIONS** as field modular systems amenable to solar power

## LiTHOS ADVANTAGES OVER OTHER DLE

**MANAGEMENT TEAM** build with multi-disciplinary experience to operate brine reservoir assets and deliver production at-scale

**CONSTRUCTION PHASE** ready technology. Proven ability to pretreat and clean input brines at scale on oilfields. Front-end engineering design, supply chain and manufacturing build over 6 yrs and \$8m CAPEX treating produced oilfield water

**RECOVER 250%** more resource with focus on efficiency gains in high volume input brine treatment where all other systems fail to have legitimate at-scale high input volume solution

**REDUCE WATER CONSUMPTION BY 98.5%**

**REDUCE COST BY 50%** for Lithium mine CAPEX to other DLE players and current evaporation ponds

**REDUCE CO2 EMISSIONS** as field modular systems amenable to solar power

# Management Team

## **SCOTT TAYLOR,** PRESIDENT AND CEO, BOARD MEMBER

Scott has over 20 years' direct experience in finance, energy, mining, defense, and civil engineering industries. Scott started his career raising money for both public and private markets as well as mining project in commodities trading. Mr. Taylor co-founded Reservoir Imaging Solutions (RIS) in 2019, a technology driven subsurface imaging company that was recognized by Darcy Partners as one of the top 10 subsurface oilfield technologies. Mr. Taylor has prior technical and financial experience in exploration, development, and pilot scale production on private mines in Canada, Mexico and the Russian Federation. His experience also includes five years working for an engineering company in the mining and energy space which included resource development and drill programs on mines and his skill set enables him to work hands-on in the field on drill programs which brought old mines into productions using modern geophysical techniques. Mr. Taylor graduated from Franklin College (Lugano) Switzerland with B.Sc in Finance 2002 and graduated with honors from St. Georges High School in Vancouver in 1998. He is a published author, invited speaker and member of the Society of Petroleum Engineers and the Society of Exploration Geophysicists.

## **FREDRIK KLAVENESS,** MBA

Founding Advisor worked as a private, early-stage investor in Europe for nearly 20 years before founding NLB Water LLC, a WY registered but Denver, CO based water technology, treatment and recycling company serving the on-shore US oil and gas market. As an investor, Fredrik focused on oil & gas related technology companies, oil services, renewable energy and cleantech. He has been an early-stage investor in a number of companies in the Nordic Region, including Song Networks, TS Marine, Chipcon, Ennox OilSolutions, MPU Offshore Lift, Vision IO and OptiLift. He was on the Advisory Board of SunToWater, a Dallas-based company that is in the process of commercializing an appliance producing drinking water from the air. Prior to being an early-stage investor, Fredrik was an Investment Banker with ABN Amro/Alfred Berg in London, UK and he holds a BSBA from University of Denver (1991) and a MBA from Columbia Business School in New York (1997). He lives in Denver, CO with his wife and two teenage boys.

## **CHRISTOPHER A. GREEN,** Ph.D. CHIEF TECHNOLOGY OFFICER

Chris holds a PhD in Physical Chemistry (Langmuir-Blodgett Films) 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. I is currently Chief Technology Officer e-Frac® where he has been involved in the UK ESIOS program and a member of the ESAG advisory group. e-Frac® services are targeted to maximizing economic output from subsurface reservoirs and specialize in chemical development, data collection and project managing service companies & new technology for international application. Chris has worked internationally as a leader managing interdisciplinary teams and have proven chemical and well engineering project management competency covering: Reservoir Engineering & Reservoir Characterization; Production Operations; Drilling & Completions Optimization, primarily using data analyses; Mature Fields specialist with experience implementing cost-effective technologies and practices that maximize depleted reservoir reserve recovery. Chris is responsible for delivering our DLE technology to market. He is a published author, invited speaker and member of the Society of Petroleum Engineers.

# Management Team

## **JUDSON LACAPRA,** FOUNDING ADVISOR, MBA, PRINCIPAL

LaCapra has more than 15-years managing, developing and implementing turn-key services focused on multi-year Private and Public Partnerships to build, operate, and maintain integrated homeland security and renewable energy projects. LaCapra dedicated and focused on Latin America has secured upwards of US\$2 billion in contracts, including the largest contracts of their type in the world. Additionally, LaCapra has advised, invested in, and helped raise more than US\$70M for real estate, energy, mobile communications, transportation, cardiac solutions, and operating companies. He graduated with a B.S. in International Business from Barry University and holds an MBA from Georgetown University. He is a four-year letterman with the Barry University Men's Soccer Team, which participated in two Final Fours and a National Championship. He is fluent in English, Portuguese and Spanish. Additionally, he is an avid marathon runner; his PR is 2:51.

## **MICHAEL FEINSTEIN,** PhD., CPG, Qualified Person, VP EXPLORATION

Almost 20 years of experience in the metals-minerals exploration industry. Have held the previous positions: Senior Geologist, Project Manager, Exploration Manager, and VP Exploration for mineral exploration companies. Have managed the exploration/evaluation on more than 40 properties and participated in numerous property transactions. Dr. Feinstein's ability to analyze raw geologic information and infer probable outcomes has been described as impressive. Gold Deposit Specialist with extensive experience in Epithermal Precious Metals Systems. Passionate field geologist with knowledge of modern exploration techniques and boots on the ground mindset. Am a Qualified Person as defined by National Instrument 43-101. I hold a Bachelor of Science in geology from Sam Houston State University, a Master of Science in economic geology from the University of Texas at El Paso, and a Doctorate of Philosophy in geological sciences from the University of Texas at El Paso. Based out of Phoenix, Arizona; Fluent in English and Spanish.

## **COLTON DUDLEY,** GEOPHYSICAL ADVISOR

Colton holds a Master of Science in Geophysics from the Colorado School of Mines. Most recently worked for 3PL Operating as Geophysical lead on shallow (0-3k ft) lithium-bearing mineral brine & salt exploration. Managed and executed all Regional, high resolution 2D seismic, magnetotellurics, & advanced log integration including coring, XRF, XRD, ICP. Former lead geophysicist for entire Midland Basin Operations (2015-2020) which covered Midland, Martin, Andrews, and Ector counties. Highly experienced delivering top management Project type curve reviews to criticize well performance while considering geological, completion, spacing, & production variables. Reviewed/executed +200 well plans, up to 7 rig program for landing optimization, geohazard management, advise trip in, trip out procedures.



# Business Model: License & Operate

## License Composite Production Solution And Take A Working Interest In Lithium Production

- ▶ LiTHOS will finance initial testing and provide a production facility solution, for a working interest in the resource and subsequent production.
- ▶ LiTHOS will construct a demonstration-scale production facility on-site, for an additional working interest.
- ▶ LiTHOS delivers lithium chloride to the specified target specification, for an additional working interest.

## Operate Lithium Asset and Manage Brine Reservoir and Water Solutions

- ▶ Capture 50% of Incremental **Value in OPERATING** with each asset owner, leading to cost savings and increased % of **Resource Recovered**.



# Tactical Roadmap

## Short-Term Targets

- ▶ Working capital will be deployed towards partnering & delivering the production side of a **private, US-located \$k-1300 booked 82 million metric ton lithium-enriched brine resource.**
- ▶ Working with 2 additional domestic US private resource owners on pilot projects
- ▶ Working with 3 additional Chilean and Argentinian public co's on pilot projects

## Medium to Long-Term Targets

- ▶ Fabricate initial alpha field production system: 25,000 bpd throughput to yield ~2500 mt/yr LiOH-H<sub>2</sub>O
- ▶ Bring online a **sustainable and domestic lithium battery feed supply** with a **working interest.**



# LITHOS ESG

Our dedication to ensuring the well-being of individuals, safeguarding the environment, fostering meaningful community partnerships, and upholding ethical governance principles is unwavering.

As a socially responsible and environmentally conscious lithium company, our mission is to create sustainable value for all stakeholders by prioritizing safety, environmental responsibility, and inclusiveness in all of our operations. We are committed to reducing our impact on local communities and preserving the natural environment through responsible practices. Our goal is to exceed industry standards in reducing carbon emissions and GHG footprint, while leveraging innovative technologies to optimize the sustainability of our lithium brine extraction processes.

# Investment Highlights

## Proven AcQUA™ Water Recycling Technology for Sustainable Lithium Production

- **6 Years and US \$8M invested into field-proven, patented modular technology** converting produced brine water into completely purified desalinated irrigation water, and extracting pure liquid commodity chemicals (Lithium, Boron, Sodium Carbonate, etc., operating at 25,000 bpd)
- **Step change improvements** to direct lithium extraction (DLE) including:
  - **Reduce 98.5% Water Consumption**
  - **Recover 250% More Resource** with Efficiency at High Volume
  - **Reduce 50% CAPEX Costs**
  - **Reduce CO2 Emissions** with Field Modular Systems Amenable to Solar Power

## Exploring Resource-Rich Lithium Brine Assets

- **“Cactus Jack”**: Aggressively performing **basin scale reconnaissance** on a 100% interest virgin lithium brine basin in Arizona
  - **USGS water samples show 1400% lithium enrichment** in deep water wells used for farming irrigation
  - Lithium assay values in loose sand at surface host values **up to 292 ppm lithium**
- **“PacMan”**: Historical drill results grading **over 500 ppm Li** over 75 ft pay, with conductive brine reservoir at 2000ft having never been drill tested

## Robust Management Team, Partnerships and Revenue Pathway

- **Seasoned, entrepreneurial management team with decades of industry-leading experience in resource extraction and energy sectors**
- **Demonstrated experience building and scaling advanced technologies on the field.**
- **Clear pathway to acquisition of 3 foundation partners and revenue by Q4 2023.**



LITHOS  
TECHNOLOGY

c: Scott Taylor, Chairman and CEO

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