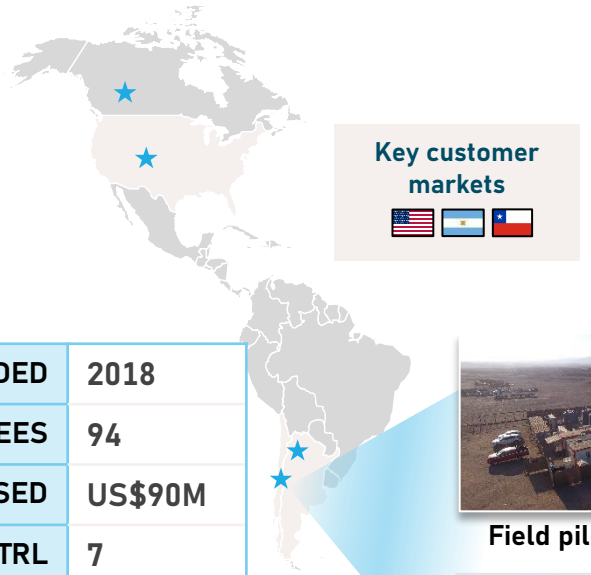
denaLi™ Commercial Progress

SUMMIT NANOTECH
DLE DONE RIGHT

August 2025

Summit Nanotech at-a-glance

Summit Nanotech delivers industry-leading direct lithium extraction (DLE) with breakthrough technology, cost leadership, and industrial scalability.



Key customer markets

FOUNDED	2018
EMPLOYEES	94
CAPITAL RAISED	US$90M
TRL	7
# BRINES TESTED	36

Field pilot (2022)

Field demo (2025)

Calgary, Canada (HQ)
Mechanical engineering, sorbent development, and pilot scale sorbent manufacturing facility

Denver, United States
DLE pilot plant and process development, continuous improvement, and in-house demo for U.S. projects

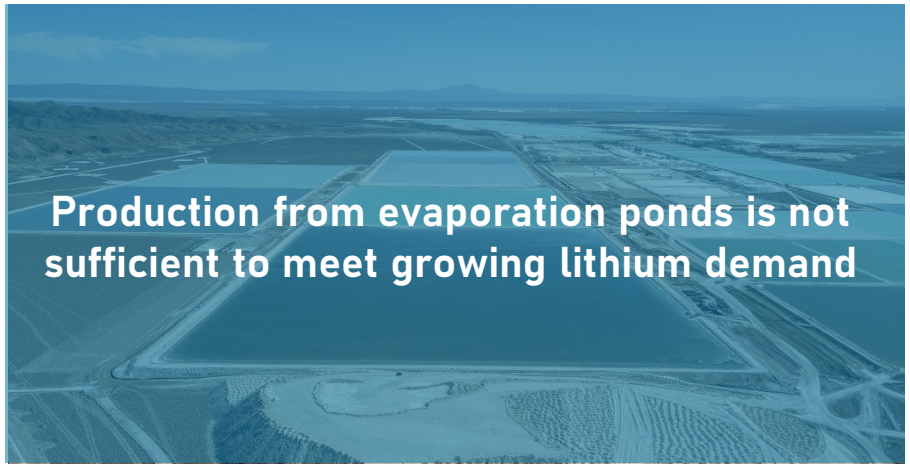
Santiago, Chile
In-field project development, joint ventures, operations center, and in-house demo for South American projects

Salta, Argentina
In-field project development and joint ventures

Overview of commercial progress

- Highly **successful field demo** with major mining company
- **Superior sorbent performance** with 3rd party validation
- In-house demo delivers faster path to **commercial plant design**
- Unparalleled combination of **low water use, high lithium recovery and high impurity rejection**
- **Commercial design for 25ktpa plant** in progress
- **Lowest levelized cost of lithium** of all DLE companies

DLE is the key to sustainably increasing lithium recovery

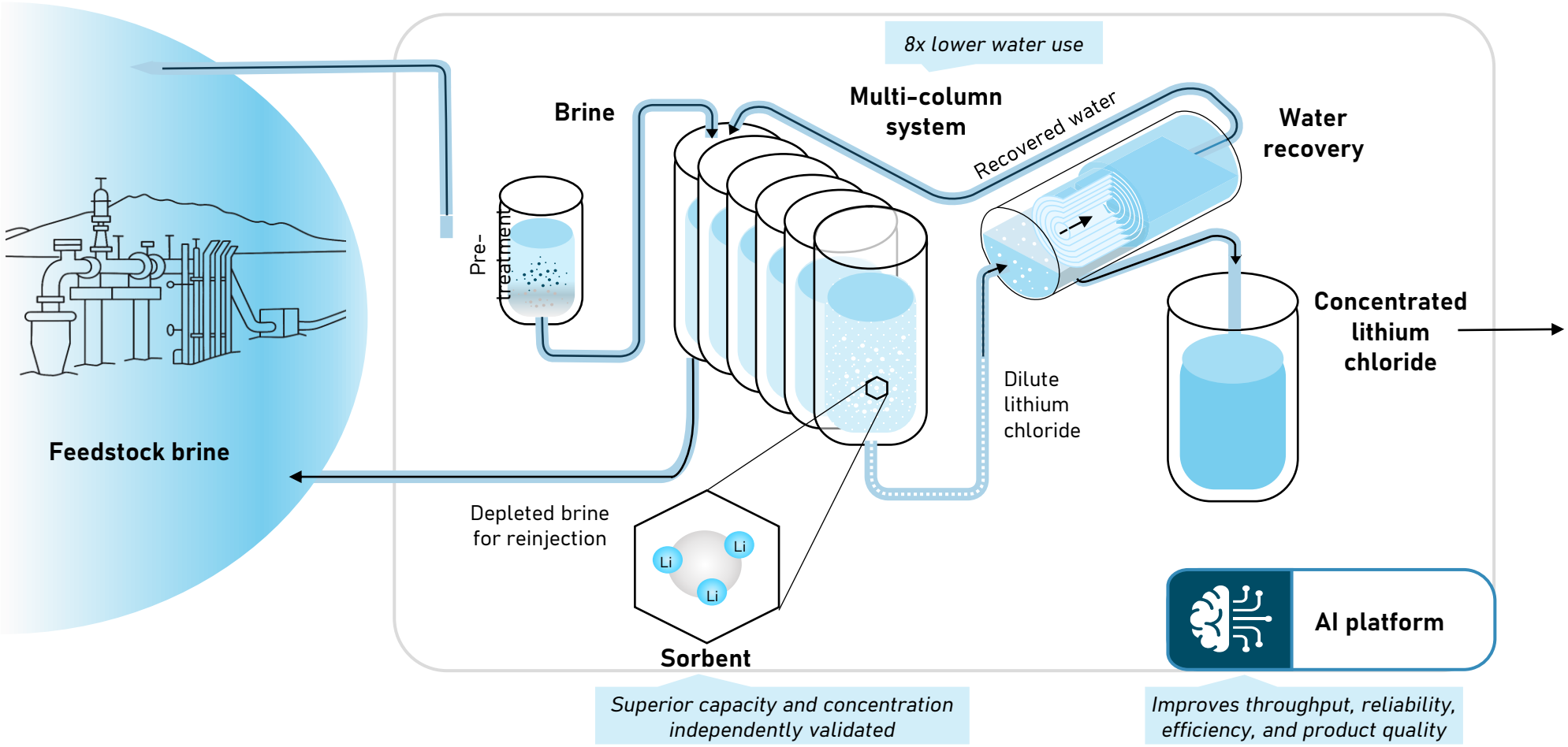


	DLE	Evaporation Pond
Lithium yield ✓	80+% end-to-end yield	40-65%
Fresh water ✓	~25m^3/t LCE	50-120 m^3/t LCE
Footprint ✓	4 ha/tLCE	30-60 ha/tLCE
GHG emissions ✓	3-4t CO_2e/t LCE	0-15t CO_2e/t LCE
Waste ✓	0.8-3.6 t/tLCE	>100 t/tLCE

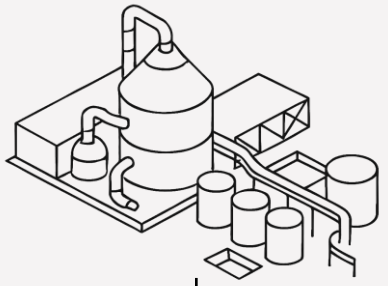
DLE increases lithium recovery from developed assets, and unlocks assets that are impossible to develop using traditional methods…

…and most oil & gas and mining companies are choosing sorbent-based DLE.

Summit's denaLi™ DLE is best-in-class



Carbonation or hydroxide plant (commercially available)

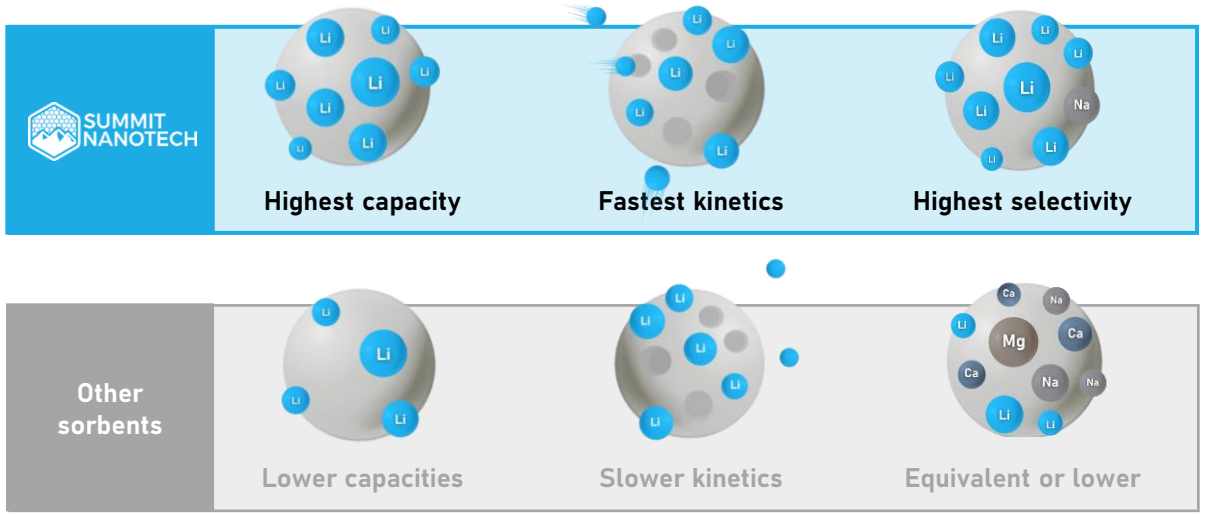


Battery-grade lithium

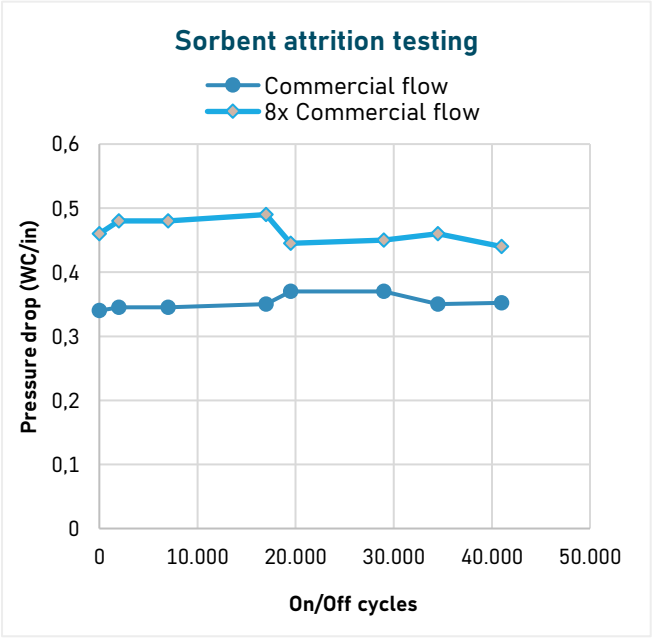
Superior sorbent performance with long-haul durability

Performance	=	*Capacity*	+	*Kinetics*	+	*Selectivity*

Summit's sorbent delivers superior performance in full range of commercial DLE opportunities in **Argentina, Chile, and the U.S.**



Durability	=	*Performance retention*	=	*Mechanical stability*	+	*Chemical stability*



Estimated **5-8 year lifespan**

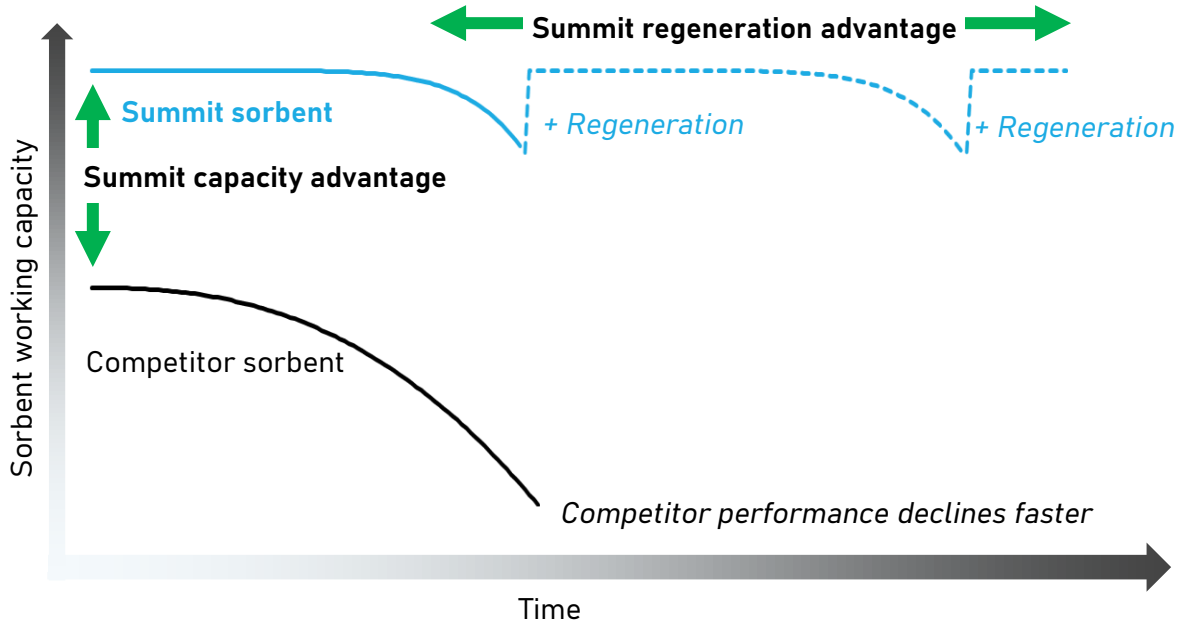
Extended lifetime testing protocols show **zero mechanical attrition**

Robust chemical stability validated across wide range of brine chemistries

Only Summit can regenerate sorbent to extend lifespan

Excessive sulfates and carbonates are known to poison all commercial DLE sorbents. Summit has developed the only regeneration process that can recover full sorbent performance after exposure to excessive sulfates and carbonates.

- ✓ **Improves economics**
  Reduces opex and minimizes downtime for sorbent replacement
- ✓ **Expands DLE applicability**
  Enables profitable processing of high-contaminant brine
- ✓ **Validated**
  Proven on diverse brine chemistries found in existing commercial projects



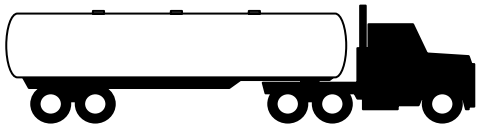
Proven in the field across various systems and brines

Key metric	Achieved
Lithium recovery	☑ **98%**
Impurity rejection	☑ **96%**
DLE-specific water use	☑ **7m³/tLCE**

Summit's multi-column DLE systems reliably deliver **industry-leading performance and water efficiency** across diverse brine compositions

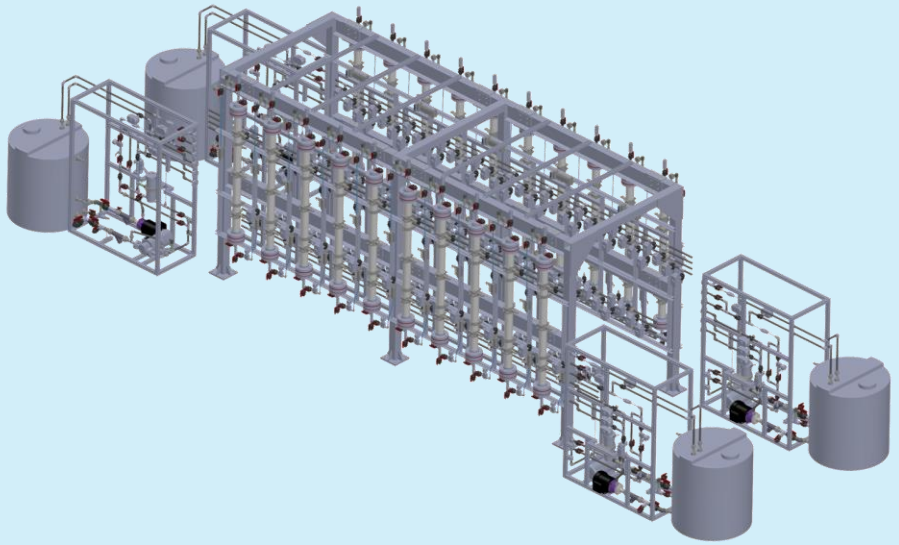
Accelerating commercial design validation in-house

Brine In



~30m^3 of field brine required

In-House Demonstration Plant



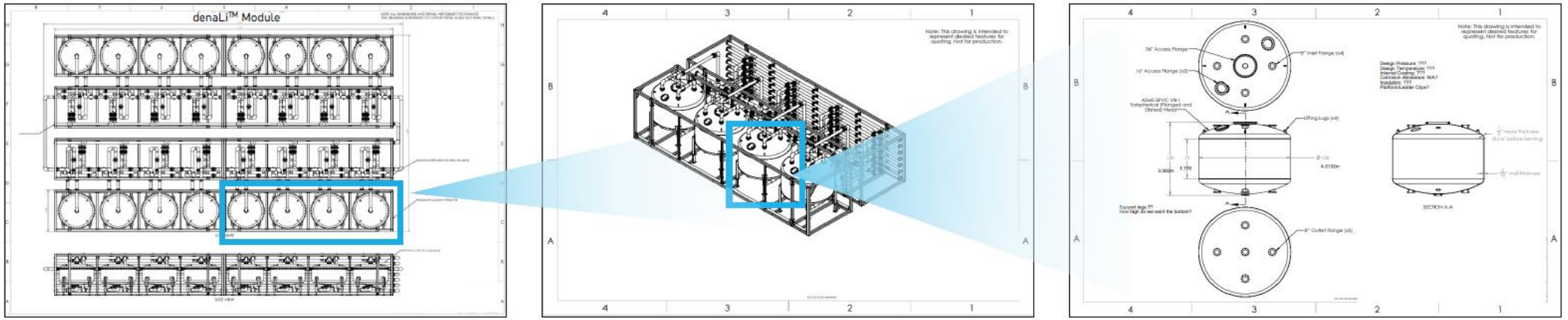
Santiago, Chile
Online January 1, 2026

Advanced plant design verified by extensive field experience

Commercial Proposal Out

- **Optimized operating parameters**
  - Lithium recovery
  - Water use
  - Energy use
  - Impurity rejection rate
- **All engineering design factors**
  - DLE plant layout
  - Equipment list
  - Budget pricing for CapEx and OpEx
- **Accounts for dynamic brine conditions** such as variable temperature, flowrate, composition, etc.
- **Requires 25% of the time and 10% of the cost of a traditional on-site demo**

Basic design for 25ktpa plant complete



80%
Standardized

20%
Customized

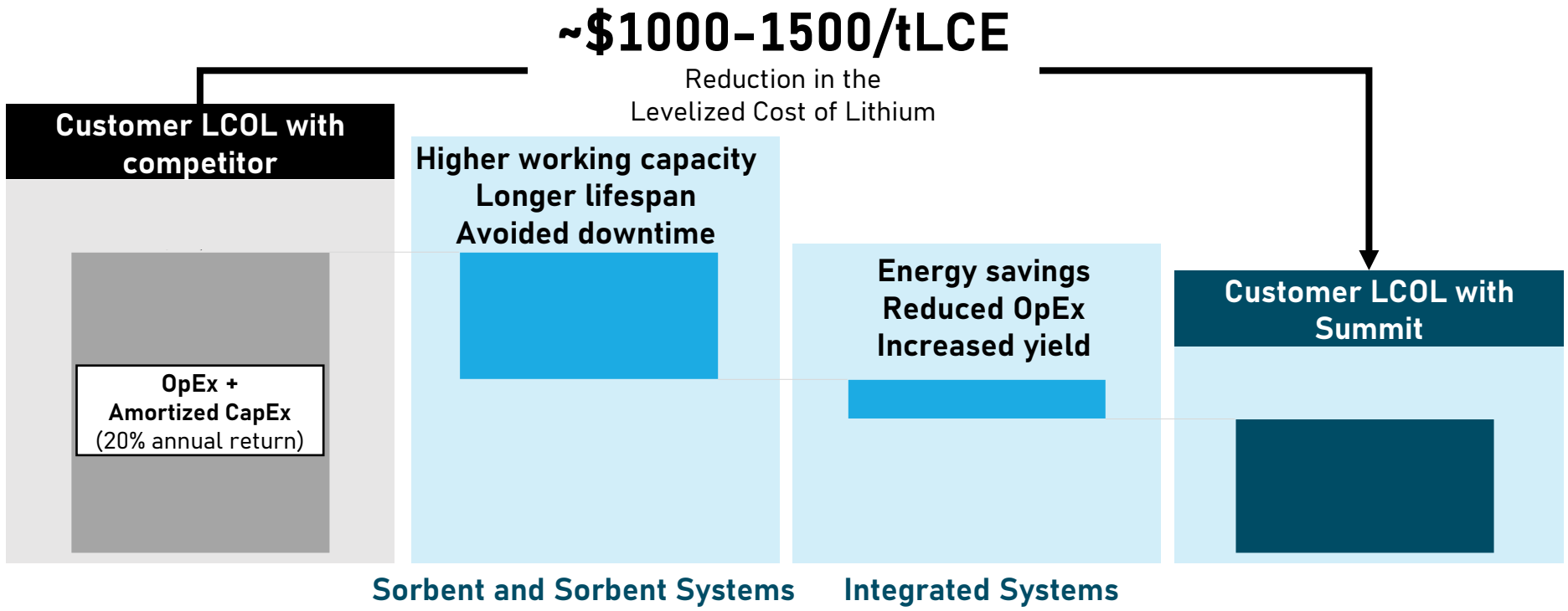
Modular plant design provides standardization and repeatability across multiple plant projects. **80% of the engineering will be the same for each future project**…

… **the remaining 20% will be tailored to brine chemistry and site considerations** for plot plan, utilities, and brine chemistry.

How to validate denaLi™ DLE for your project

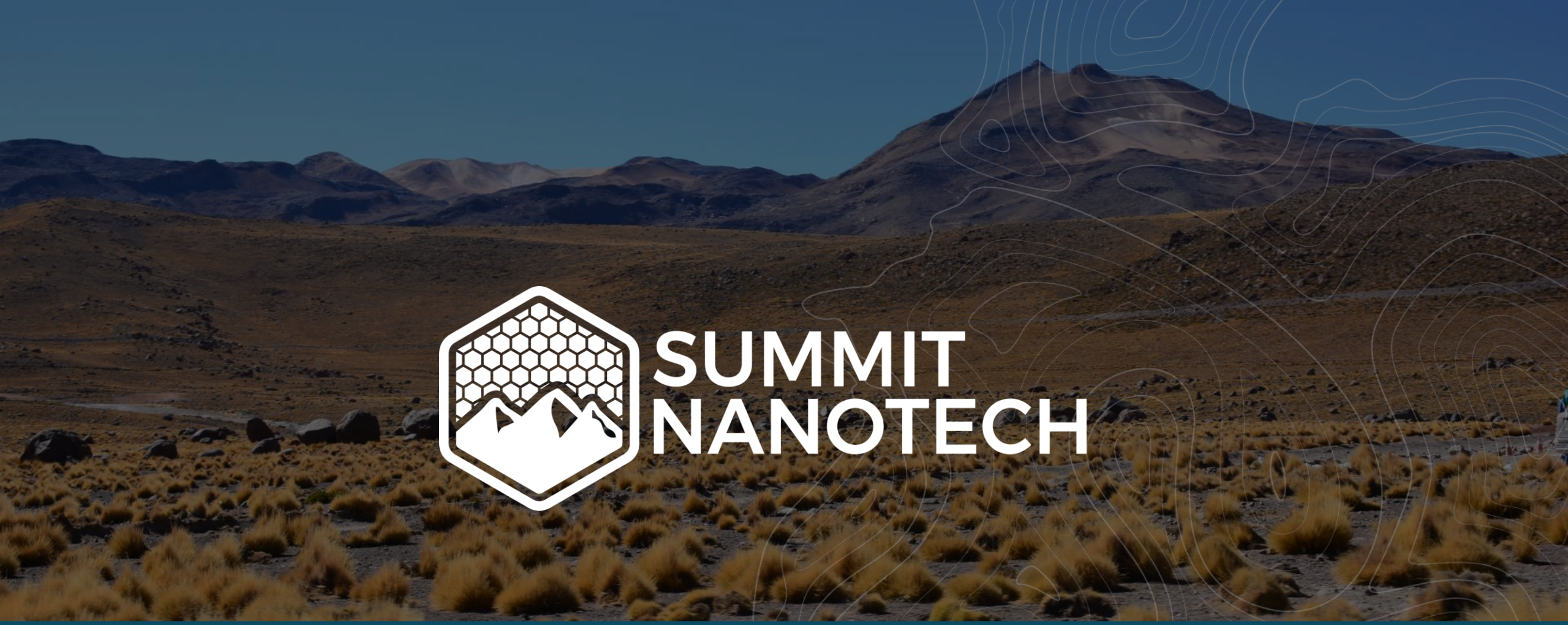
	Litmus Test Concept Study	Bench Test Prefeasibility Study	In-House Demo Feasibility Study
Objective	Quickly confirm your brine is compatible with denaLi™.	Lab-scale techno-economical assessment and initial view of operating parameters.	Fully optimized parameters, design and cost estimate for a commercial denaLi™ DLE system.
Deliverable	Summary report	Detailed report	Commercial proposal
Duration	2-4 weeks	8-10 weeks	12-16 weeks

Full-stack technology drives capex and opex savings



Additional sources of value:

- ✓ Non-"Foreign Entity of Concern" supplier
- ✓ Particle size / distribution flexibility to optimize flow through the columns
- ✓ White glove service (R&D, implementation, troubleshooting)



STAY CONNECTED

SUMMIT NANOTECH CORPORATION

#10 2638 Country Hills Boulevard

Calgary, AB T3N 1A7 Canada

SUMMITNANOTECH.COM