



we extract lithium, efficiently, affordably, and **greenLi**

General Pilot Deck

Prepared on 6th of September 2026

Meet the **greenLi** Team:

We are a spin-out from [Prof Mamane's laboratory](#) at Tel Aviv University, backed by the deeptech-focussed incubator [Earth & Beyond Ventures](#), the founder-focussed venture capital fund [SUM Ventures](#), with other private co-investors.



Co-founder, C.E.O.

Dr. Eitan Benson

Engineer, Inventor, IP attorney



Co-founder, C.S.O.

Prof. Hadas Mamane

Expert Environ. Engineering,



Lead Engineer

Oded Yakir



Electrocnemist

Dr. Roy Marrache



Electrochemist

Dr. Boruch Zadok

+4
more elite
engineers



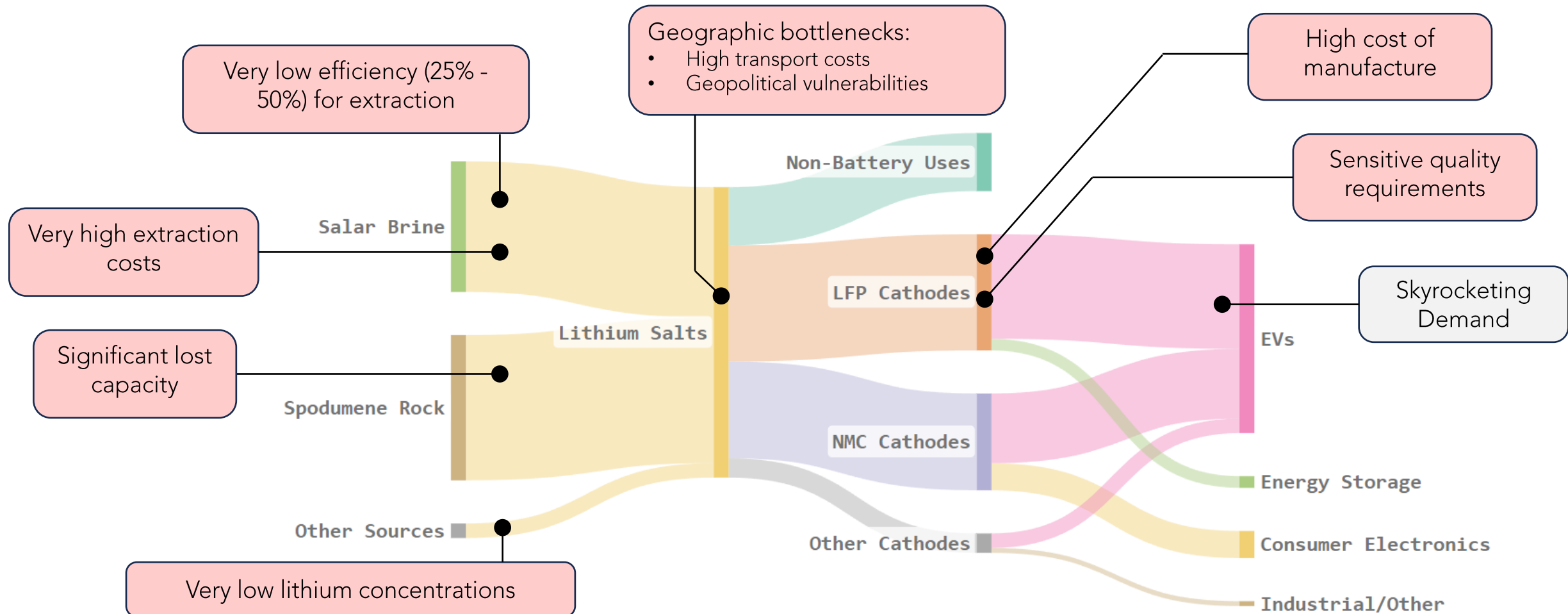
Co-founder, Chairman

Gal Zohar

Desalination Executive

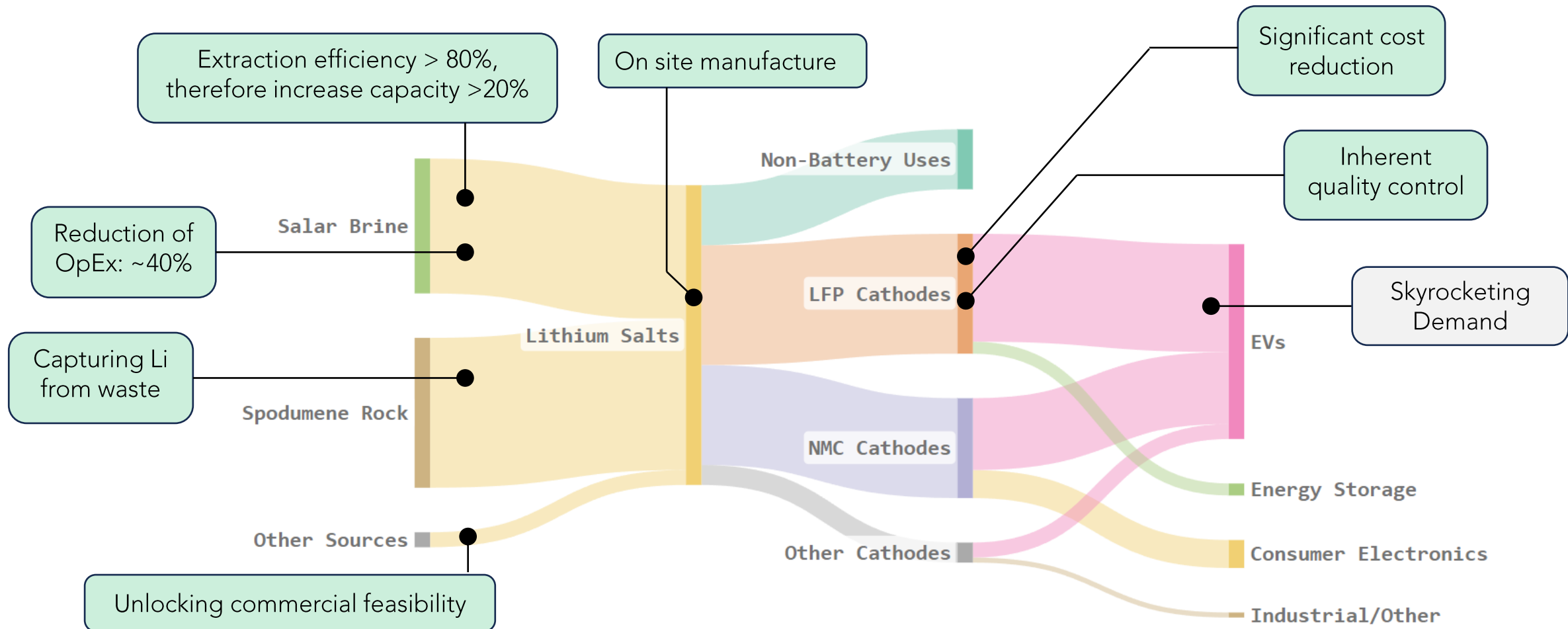
The Problem: A Vulnerable Supply Chain

The current lithium supply chain is plagued by fragmented locations, inefficient processes, and high levels of pollution. These problems threaten the growth of the EV industry, for which LIB cathodes are a critical component.



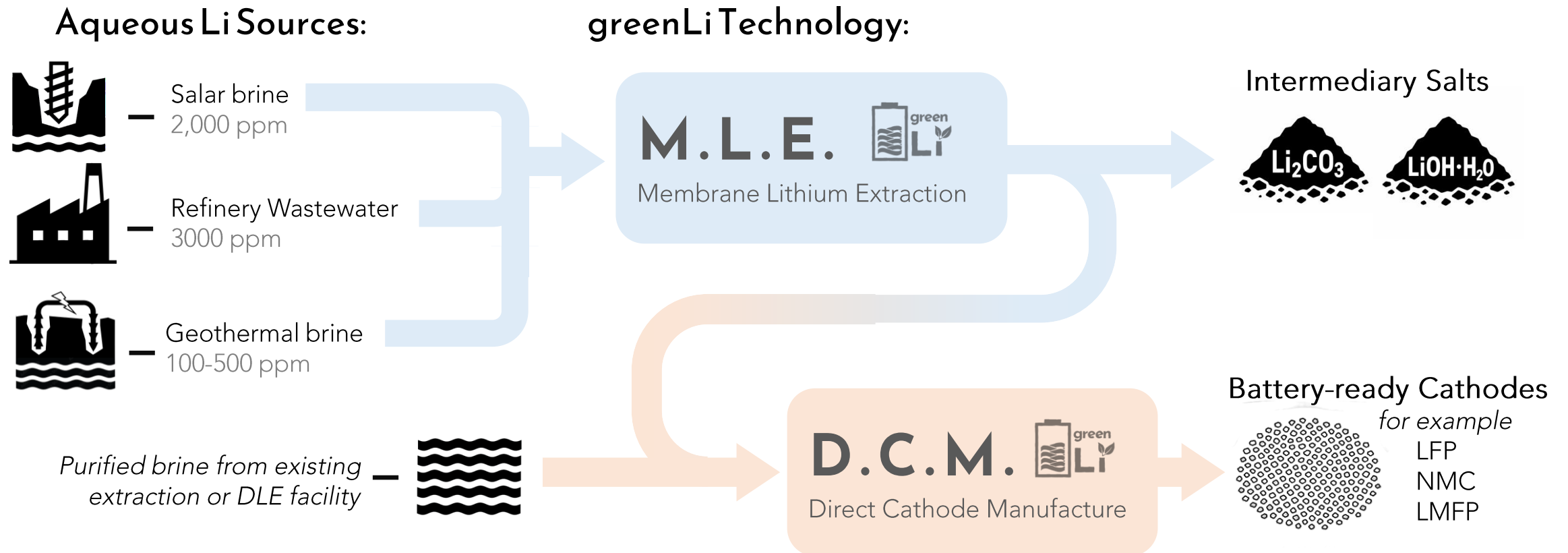
The Opportunity: greenLi Technology

With our technology, the inherent inefficiencies and vulnerabilities of the existing lithium supply chain can be remedied, drastically reducing cost and multiplying revenues, whilst being genuinely environmentally sustainable.



The Solution: The greenLi Vision

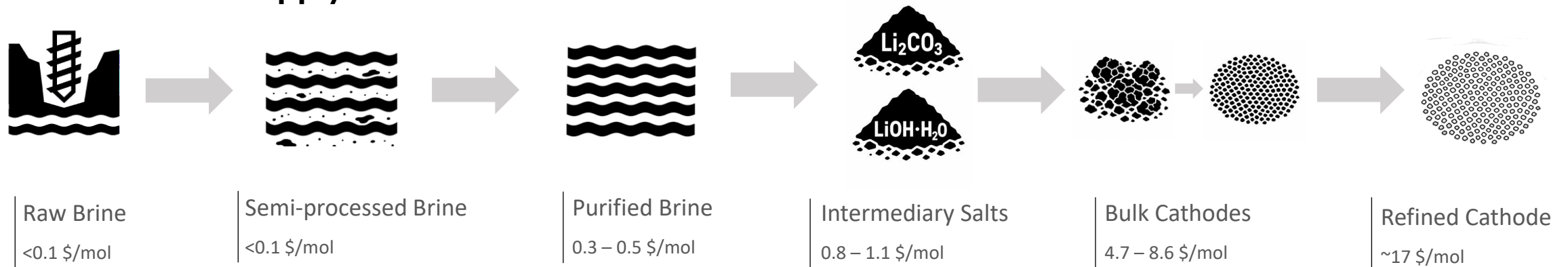
At greenLi we have two complimentary technologies, that together can extract (purify) lithium in aqueous sources, then directly manufacture high value LIB cathode materials. These technologies can also be deployed independently of one another, as bolt-on modules to a range of existing facilities.



Overview: Revolutionizing the Lithium Supply Chain

With our revolutionary Li extraction technology, any aqueous Lithium (Li) asset can be capitalized to generate high value battery-ready cathode materials. Our solution bypasses the wasteful and expensive steps in the conventional Li supply chain, empowering proprietors of Li assets to directly manufacture the final product (battery-ready cathode materials), thus vertically integrating the supply chain, and multiplying the saleable value of Li atom extracted from the original Li source exponentially.

Conventional Supply Chain



M.L.E.

Our membrane lithium extraction system purifies any aqueous lithium asset.



D.C.M.

Our direct cathode manufacture system, generates battery-ready cathode materials directly from purified Li brines



Overview: Two Processes, One Platform

Our two technologies are complimentary, applying to different parts of the Li supply chain. First our M.L.E. system purifies the raw Li asset, then our *"brine-to-battery"* direct cathode manufacture system generates the final product.

M.L.E. (Membrane Lithium Extraction)

Using a proprietary Li-selective membrane, our MLE system separates Li from competing ions, purifying Li-containing aqueous resources at any concentration. Our system effectively *transposes* the desalination industry into an effective, continuous, D.L.E. solution.

+ Agnostic to Li source

+ Rapidly scalable

+ Modular deployment

+ Pilot-ready Q4 2026

D.C.M. (Direct Cathode Manufacture)

With a revolutionary approach, our proprietary system offers a *"brine-to-battery"* solution that generates high quality battery-ready cathode powders directly from purified Li brines. With D.C.M, proprietors of lithium assets can vertically integrate down the supply chain.

+ Agnostic to Cathode Chemistry

+ Bolt-on to Mines / DLE

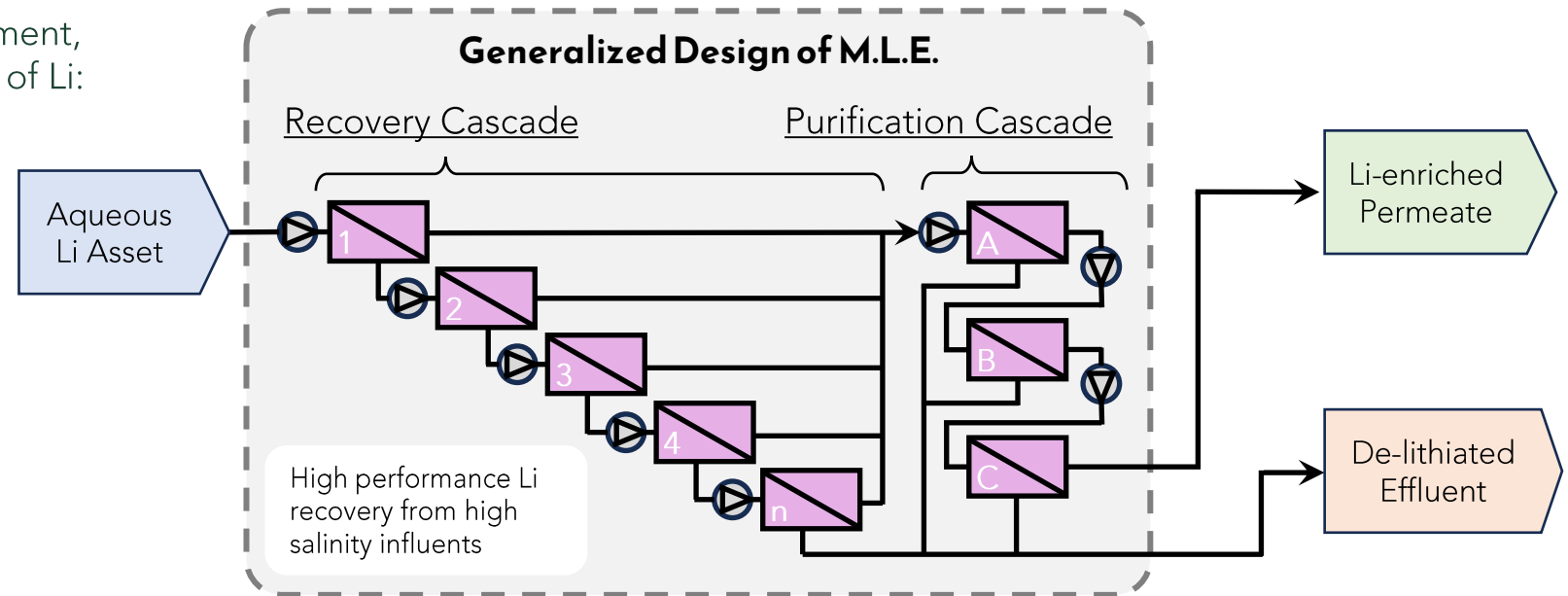
+ Pilot-ready Q2 2027

M.L.E. General Overview of Technology

Utilizing a proprietary Li-selective membrane developed at Tel Aviv University, greenLI's M.L.E. system brings the modularity and scalability of the Israeli desalination industry into the global D.L.E. market.

When combined with the right pre-treatment, M.L.E is **agnostic** to the aqueous source of Li:

- Ore Refinery Wastewater (3,500 ppm)
- Salar Brine (~2,000 ppm)
- Geothermal Brine (10-200 ppm)
- Oilfield Brine (10-200 ppm)
- Groundwater (5-50 ppm)
- Seawater (0.17 ppm)

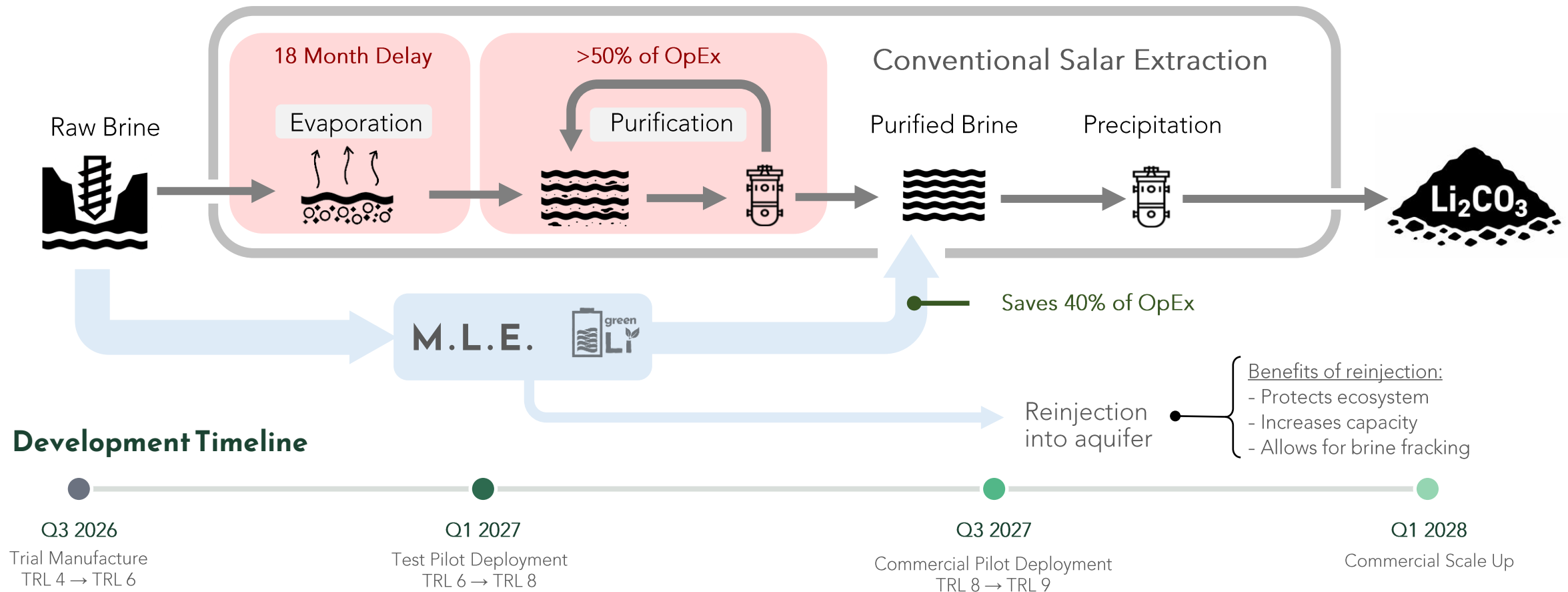


Development Timeline



M.L.E. Revolutionizing Salar Brine Extraction

Compared to conventional salar brine processing, M.L.E. dramatically improves OpEx, efficiency, and materials usage. Unlike competing D.L.E. methods, M.L.E can also scale rapidly with commercial-off-the-shelf (COTS) parts.



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>80%

Li Recovery

Higher recovery on the same feed

M.L.E. captures the Li that conventional evaporation and purification methods leave behind, lifting recovery from typical 25-50% baselines to over 80%, generating more product for the same asset.

-40%

OpEx per m³ feed

Simple processing, lower OpEx

Continuous, RO-style cascade replaces multi-step purification trains, reducing reagent use, footprint, and labour. Modular skids can be deployed rapidly, allowing flexible ramp up to accommodate dynamic conditions.

-95%

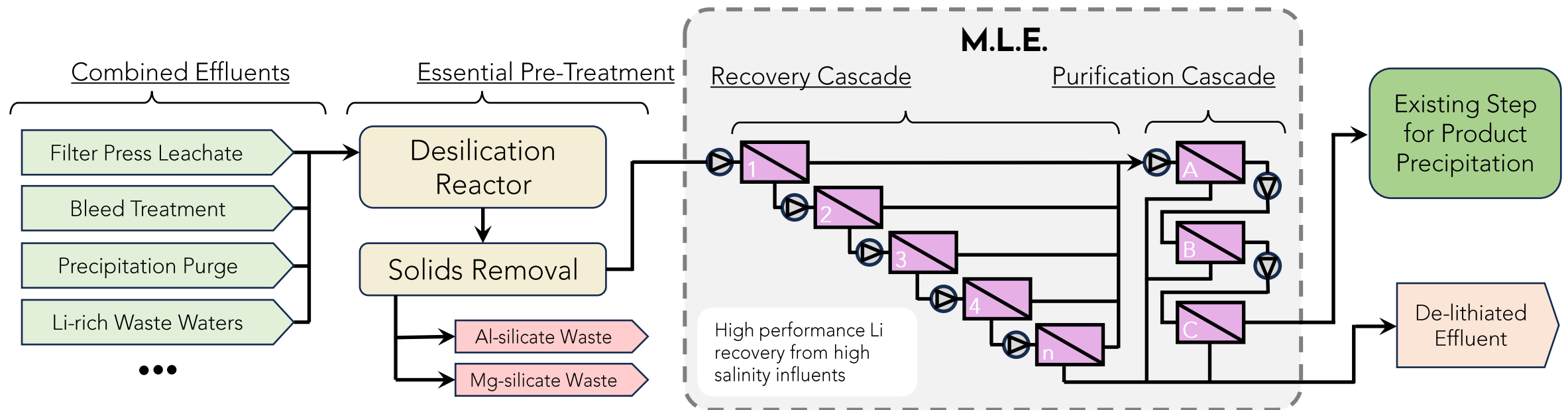
Chemical Usage

Clean, Sustainable Operations

By employing greenLi's patent-pending Li-selective membrane, M.L.E. can purify brines without requiring the precipitants of conventional processing, the acidic eluants of conventional D.L.E, or any of the associated transport costs.

M.L.E. Revolutionizing Spodumene Refineries

Because the M.L.E. technology can purify any aqueous lithium stream, the Li-rich waste streams generated by spodumene refineries can also be extracted, drastically improving the overall atom economy of the refinery.

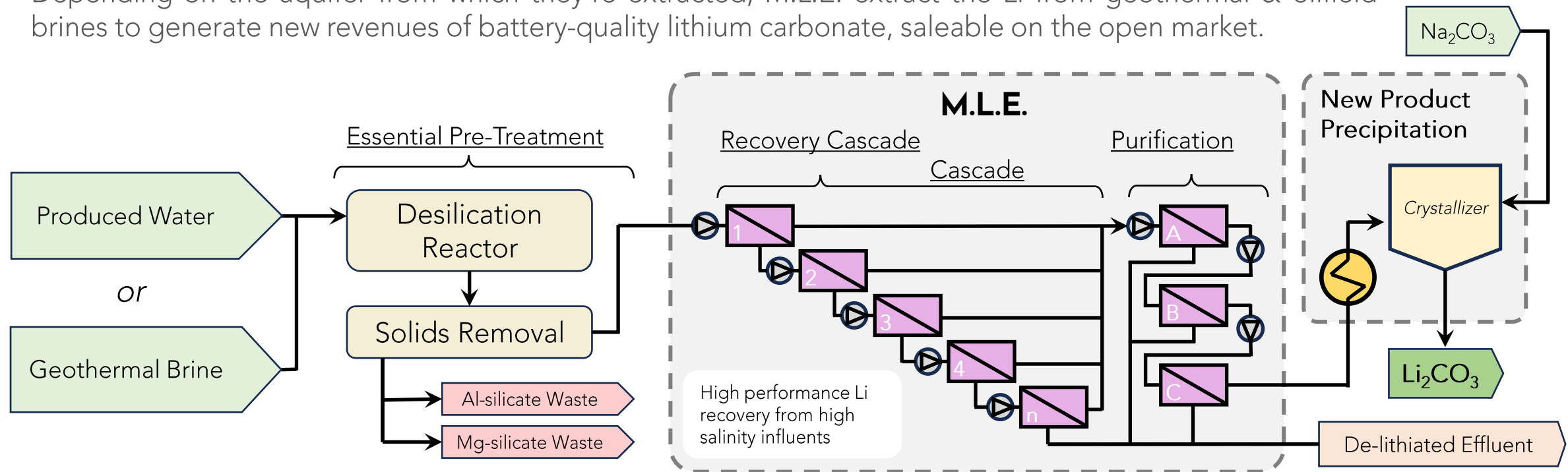


Development Timeline



M.L.E. New Revenue for Geothermal & Oilfield Brine

Depending on the aquifer from which they're extracted, M.L.E. extract the Li from geothermal & oilfield brines to generate new revenues of battery-quality lithium carbonate, saleable on the open market.



Development Timeline

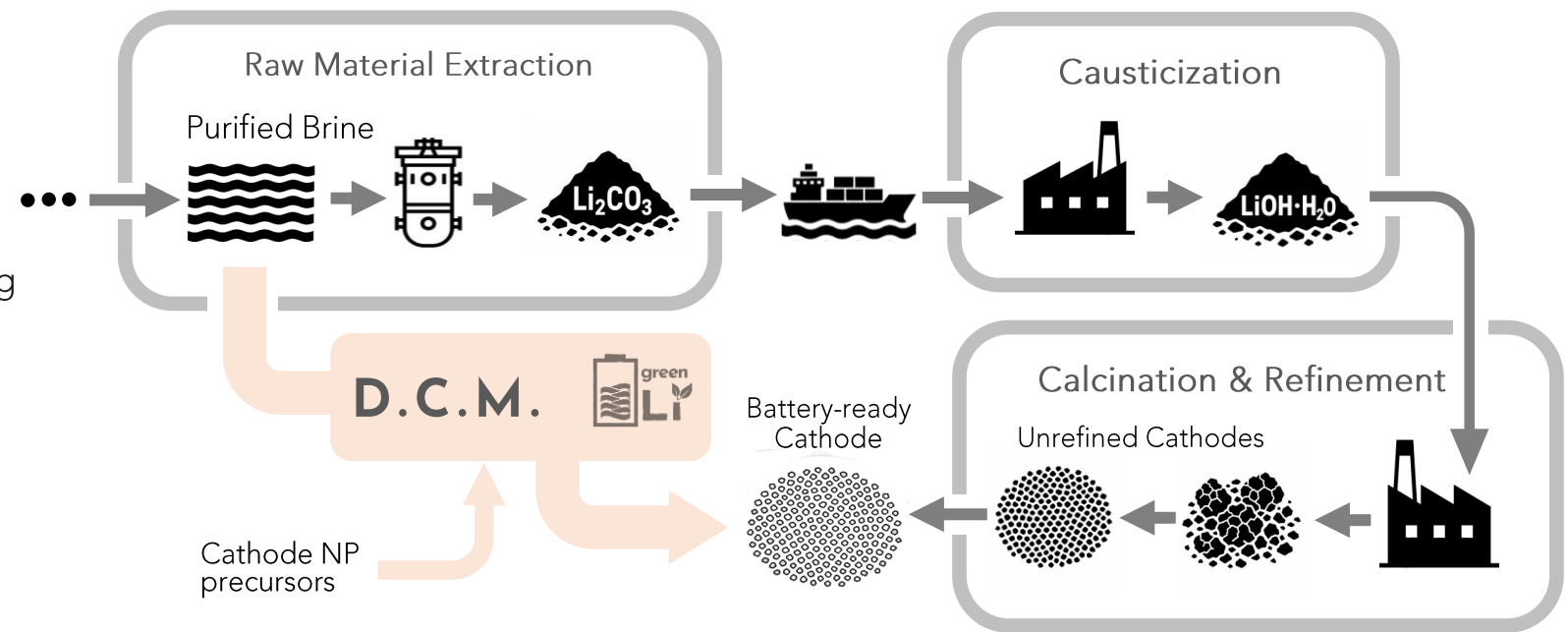


D.C.M. Overview of Direct Cathode Manufacture

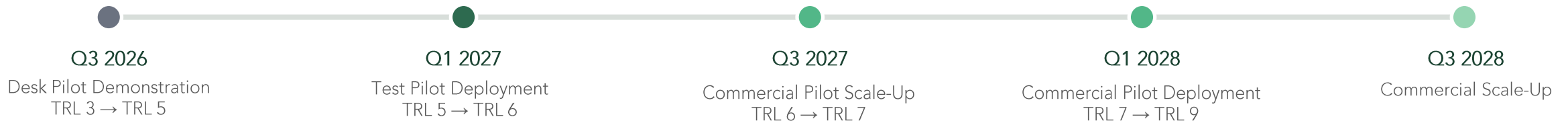
By manufacturing cathode precursors, then directly integrating lithium into them, greenLi allows for the direct “*brine-to-battery*” generation of highly valuable battery-ready cathode materials from purified Li brines.

Our D.C.M. system provides a number of unique benefits:

- Agnostic to cathode chemistry
- Co-manufacture of graphene coating
- Uniform crystal structure
- Monodisperse particle distribution
- On-site, autonomous operation
- Bolt-on to existing mines or D.L.E.

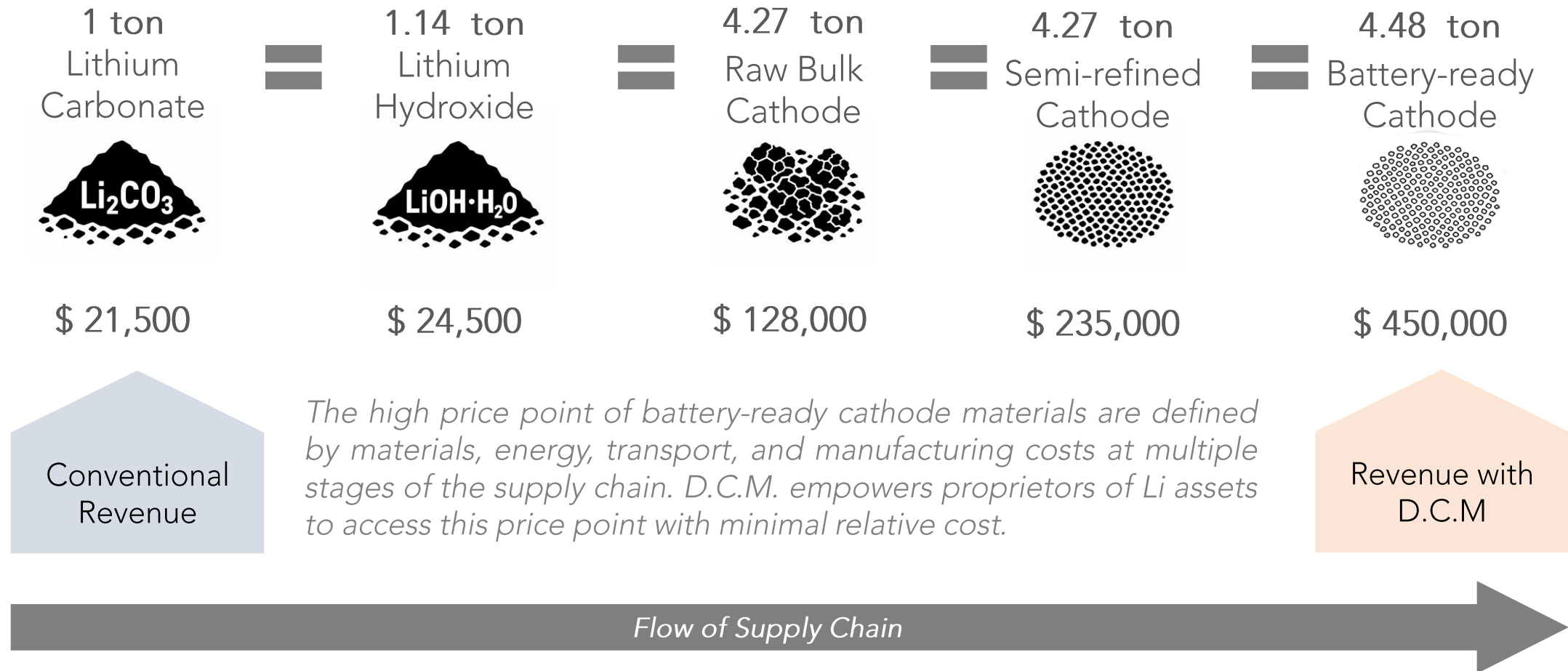


Development Timeline



D.C.M. Multiplication of Product Value

The saleable value of Li ions multiplies through the supply chain, from raw material to final cathode. Conventional operation limits the revenues of Li mines to low value intermediary salts. D.C.M. offers a high value alternative.



Working Together From Handshake to Facility

We are open to engaging a staged partnership model, with two possible remuneration paths agreed at each binding step: (a) contract services fee on successful operation, or (b) a purchase of the facility itself.





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Let's work together!

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