



Changing How the World Makes **Battery Materials**

Corporate Presentation



US\$23B

global cathode market by 2025



16 patents

30+ pending



US\$1B

Royalty opportunity
based on 5% royalty

Disclaimers

TSXV: NNO | FF: LBMB | OTC Nasdaq International: NNOMF

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Leadership



Dan Blondal
CEO

30+ yrs in tech at
Kodak, Creo,
General Fusion
& Nano One



**Dr Stephen
Campbell**
CTO

30+ yrs as Principal
Scientist at Ballard
Power & AFCC



Paul Matysek
Chairman

\$2B+ growth
LithiumX, Lithium1,
GoldRock, Energy
Metals & Potash One



John Lando
President

30+ yrs at RBC
Dominion & equity
market finance



Joe Lowry
Strategic Advisor

Global Lithium LLC
25 yrs as global
lithium expert



Robert Morris
Strategic Advisor

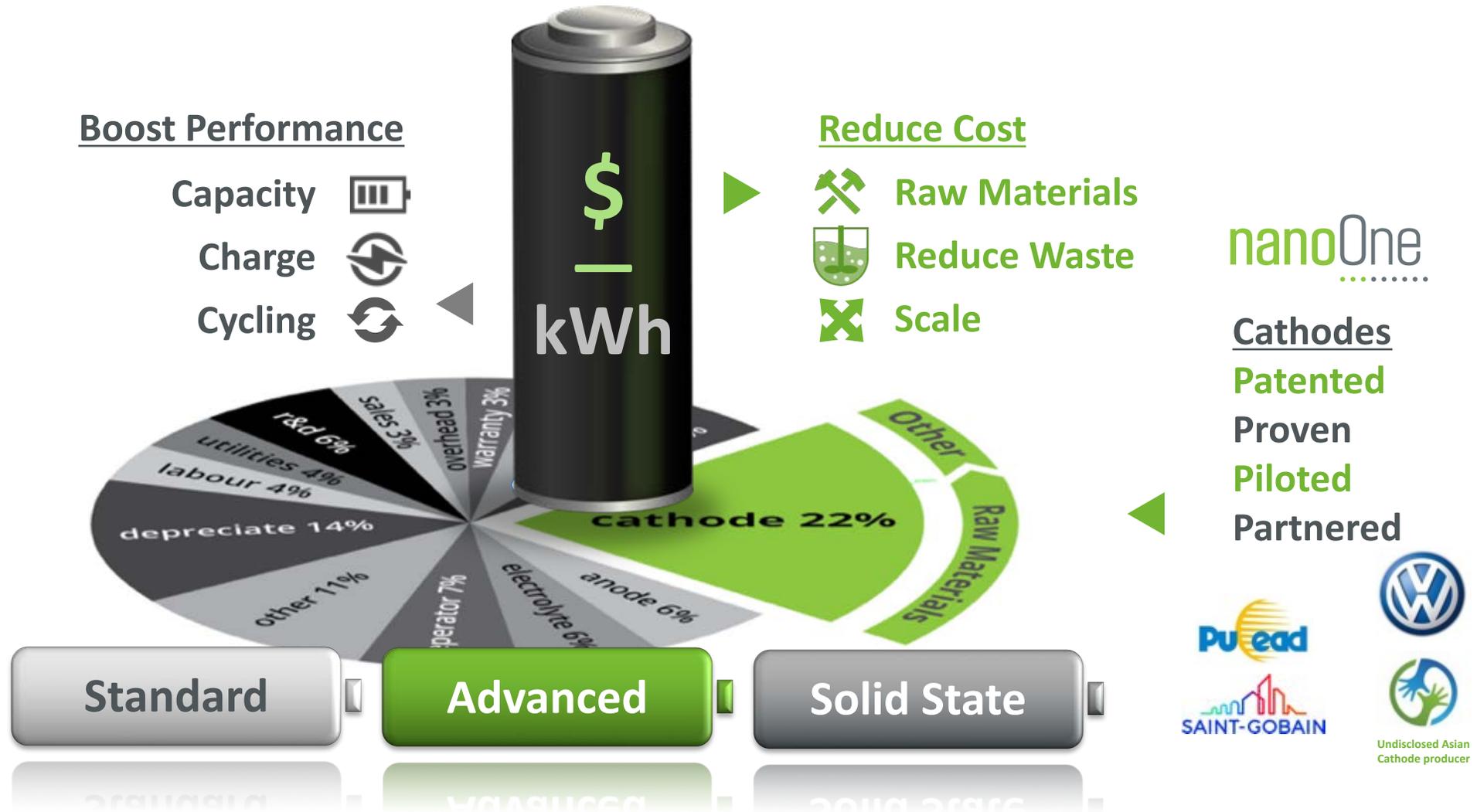
Morris Consulting
Battery Metals expert
EVP Vale, MD Umicore

+ 30 employees | 6 PhDs | 16 Patents (30+ pending)

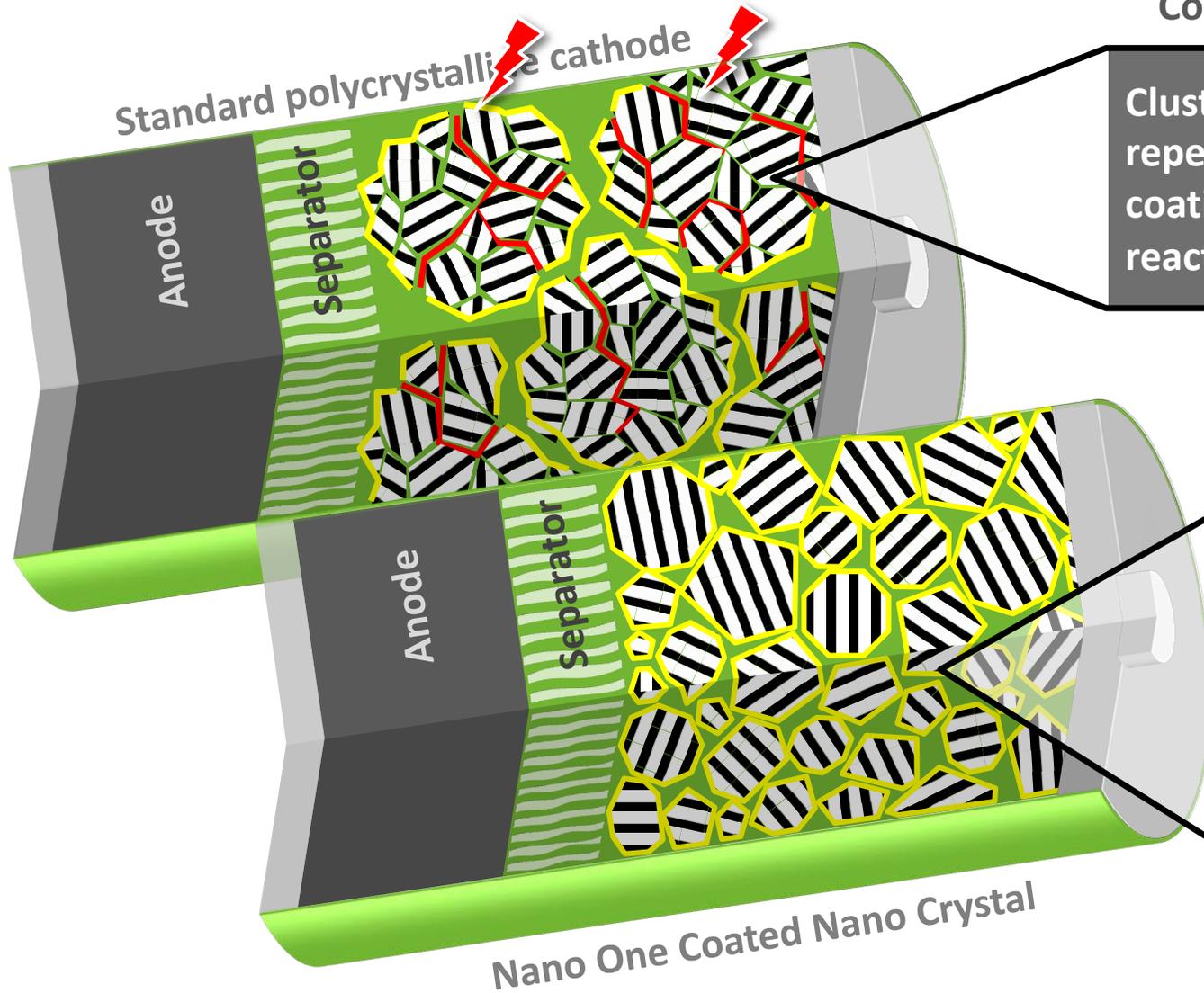
~20 collaborators/joint developers/partners in lithium ion battery supply chain



Lithium Ion Batteries



Nano One Performance Advantage

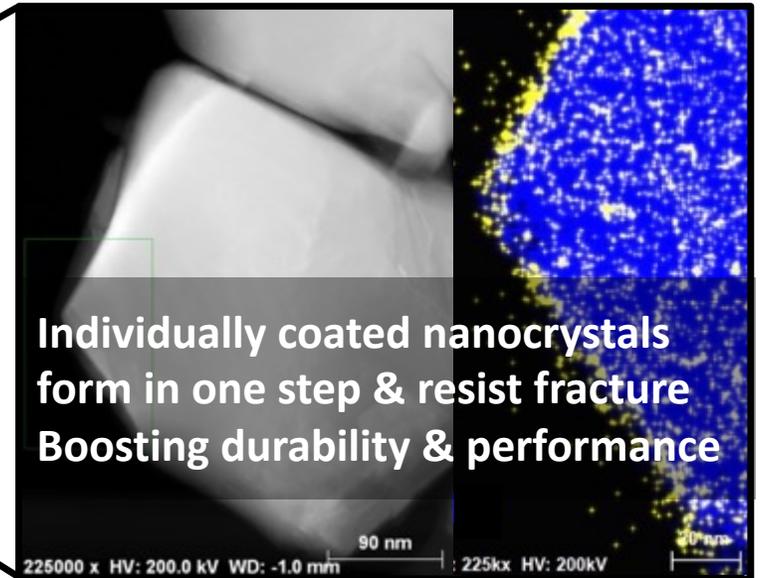


Conventional Polycrystalline Cathode Particles

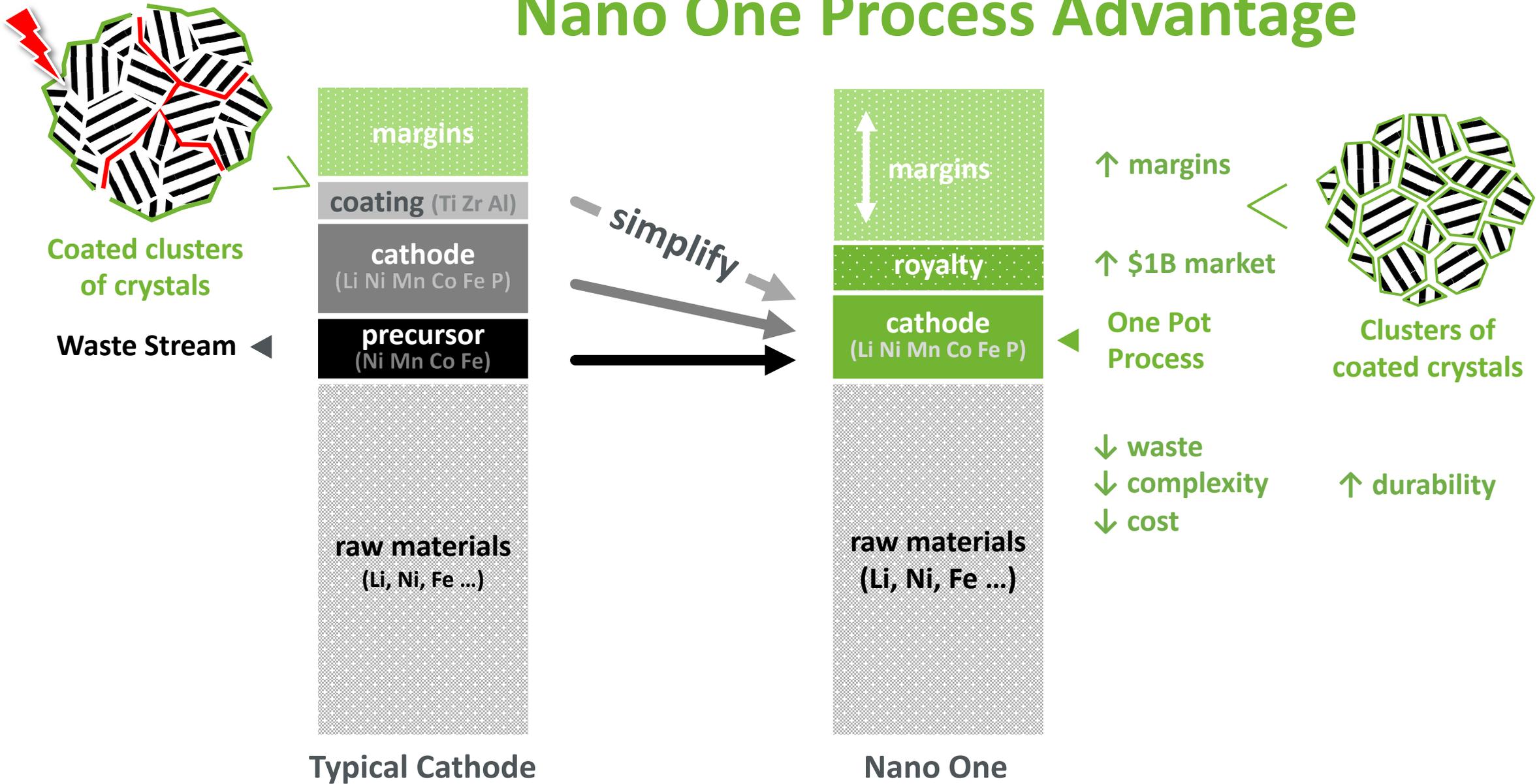
Clusters of crystals break apart from stress of repeated charging, which fractures the protective coating and exposes the inner crystals to side reactions – Reducing Range, Life & Charge

Nano One Coated Single Nanocrystal Cathode

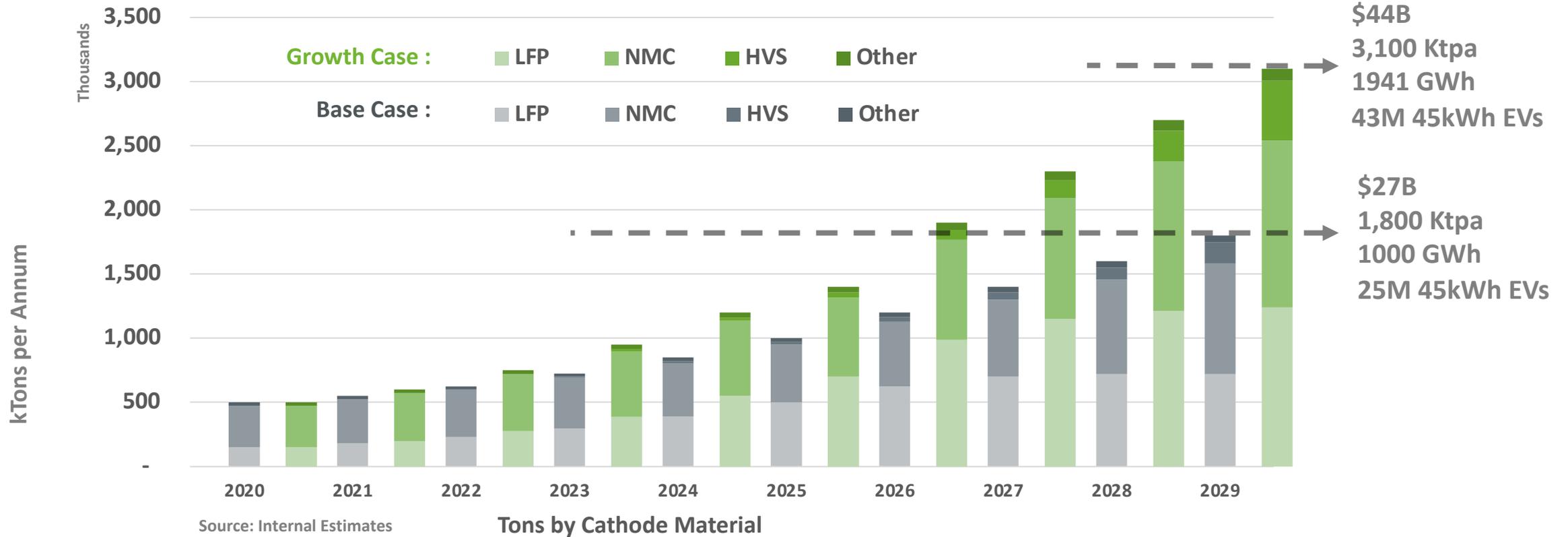
Individually coated nanocrystals form in one step & resist fracture
Boosting durability & performance



Nano One Process Advantage



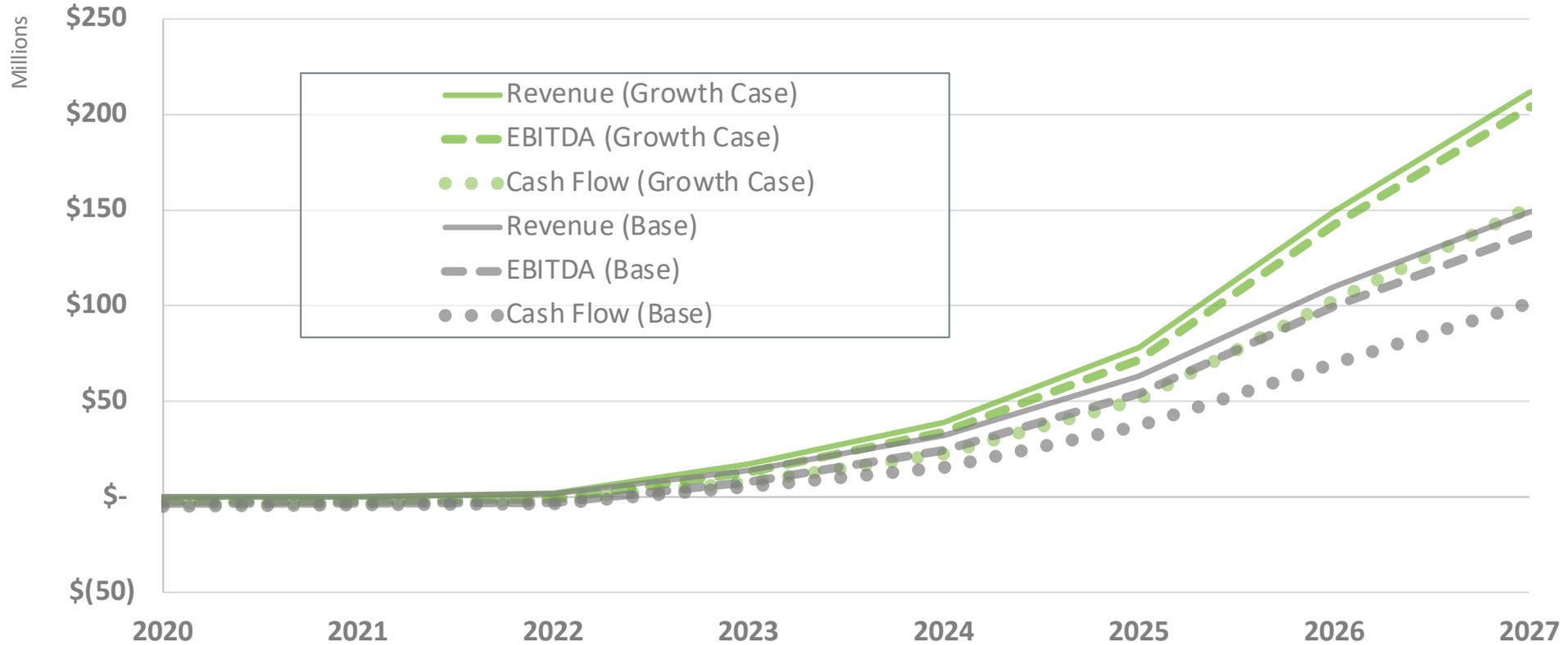
Total Addressable Cathode Market



- Internally generated data for cathode active materials (CAM) based on heavy LFP adoption & conservatively low CAM pricing.
- Total Market Value based on metals estimates (LME, Lithium chemical, converter costs), blended average ~\$23/kWh and LFP/NMC/HVS energy densities of 511, 770 and 654 Wh/Kg, respectively. Sources: Nano One Materials internal TAM modeling, Avicenne Energy August 2020 Report on Batteries & Raw Materials Supply (CAM Market = 700k-900ktpa by 2025, 1-1.5Mtpa by 2030), Reports & Data August Report on Cathode Material Markets (Estimate of \$28.28B market by 2027)
- LFP/NMC/HVS breakdown is the same in both cases, NNO can address all three
- EV numbers assume 45kWh LiB per Electric Vehicle (EV)

Economic Model

Pro-Forma – 7 Year Financial Projections



Source: Internal Estimates

Revenue derived from assumed market share / partner engagement

Cathode pricing (conservative) is derived from LME metals and Lithium LCE pricing

Base vs Growth based mostly on TAM differences

LFP, NMC, HVS market share same for both cases

Royalty pressure and TAM slowdown post 2026

Assumes NNO market share in 2025 @ 14%



Partnership Overview

Volkswagen Research Group

Backbone team within Volkswagen for expansion into EVs

\$66 Billion budget for hybridization and electric mobility in the next 5 years

Vested interest with 22 Million EVs planned for next 10 years

Collaboration Details

Focus on enhancing long-lasting battery materials

Results and work-to-date positive

Wide range of next steps

Pulead

One of China's leading Li-ion cathode manufacturers

Large supplier of LFP for e-busses & grid storage

Proven, respected licensee of Prayon, BASF & Umicore

LFP growing for long range EV

Joint Development Details

Develop and co-develop scaled production of LFP Cathode material using NNO technology

NORAM engineering report complete (plant design, budget & improved economics)

About Saint Gobain

400-year-old materials and solutions company based in France

Works on design, manufacturing, and distributing across verticals

Global presence with over 150k employees

Supplier to cathode kiln mfg & users

Joint-Development Details

Focus on enhancing high-temperature cathode processing

Use of Saint Gobain's NA R&D centers and Nano One's Li-ion technology

About "Asian Company"

Multi Billion \$ Cathode Mfg

Looking for mfg and cathode differentiation to expand market share.

Established Asian presence and supplier to major Asian Auto OEM

Joint-Development Details

Combine technologies for superior product for next-gen batteries

JV business objective

Ready and eager to advance to production

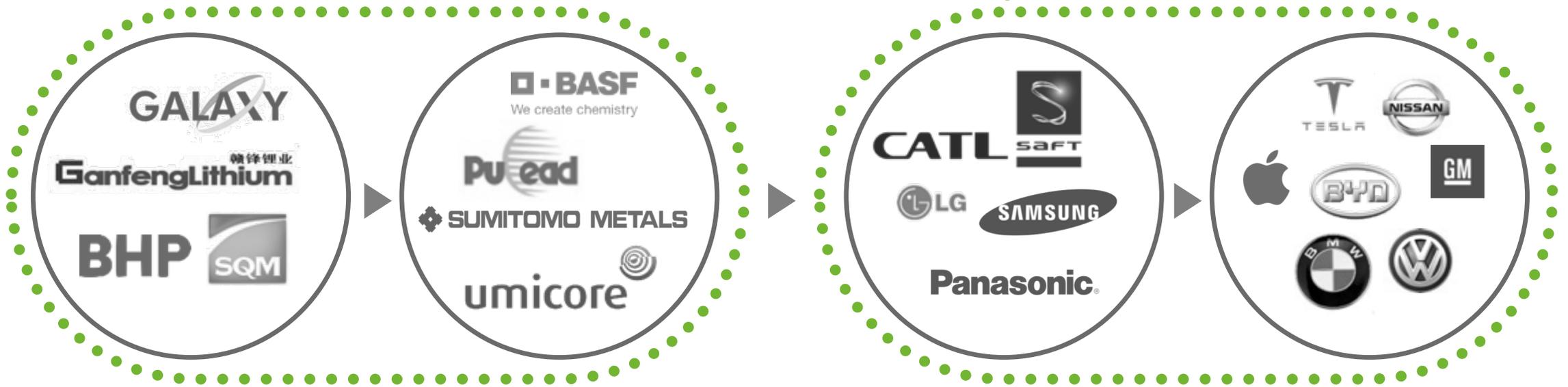


Nano One's Supply Chain Opportunities

Licensing, JV & M&A can add value across the entire battery supply chain

Materials Consolidation Drives Costs

Battery Consolidation Drives Innovation



Raw Materials Suppliers

NNO enables integration, consolidation, value add through licensing, JV and M&A

Cathode Producers

NNO Provides mfg advantage & differentiation thru licensing & JV

Cell Producers

NNO Enables next generation LiB & differentiation

OEMs

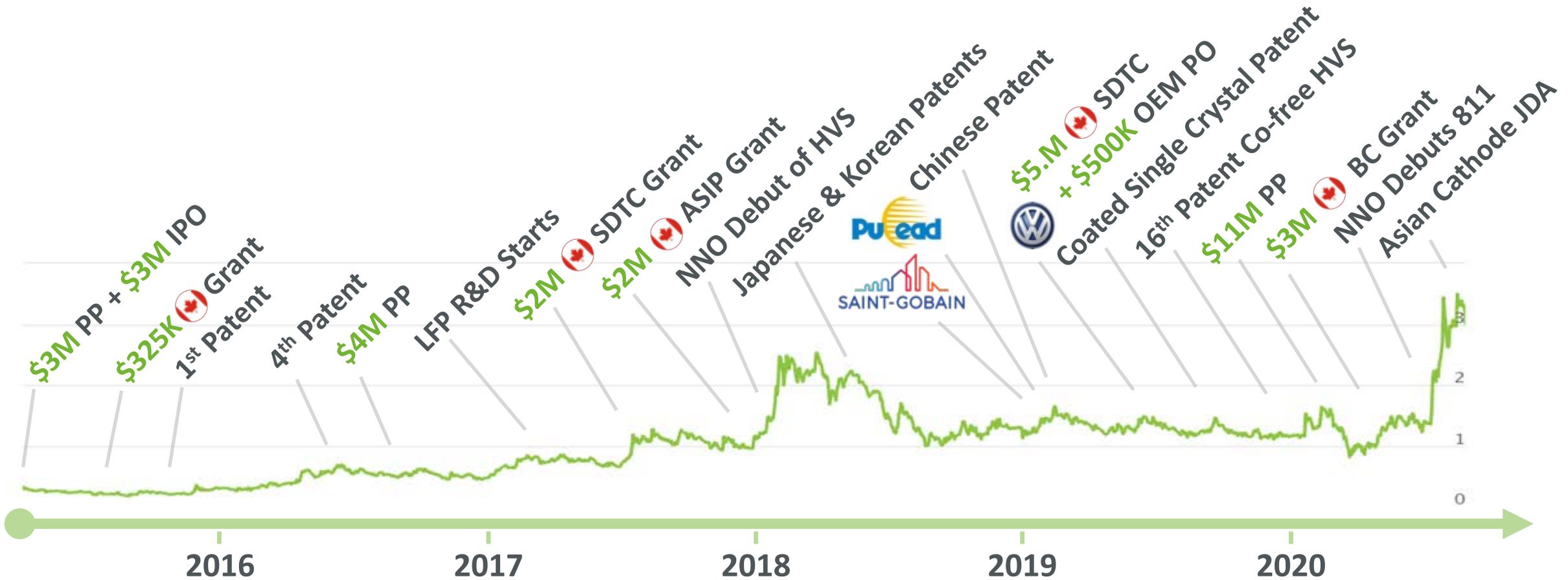
NNO enables IP rights, LiB innovation & supply chain control through licensing + M&A



\$27M Equity

\$13M Non-Dilutive  Grants

Cash & Runway thru 2024



Shares: 79M Outstanding | 88M Fully Diluted | ~15% Insiders

Catalysts: Partnerships | Licensing | Patents



Nano One Summary

Exciting Near-term Catalysts (1-3 Year Objectives)

Prototyping & Scaling Up

- Expand Nano One demo pilot plant/ Lab facilities to serve technology development, partnership and licensing objectives.

Building its First Commercial Plant(s)

- Advance partnerships (Pulead, VW, Asian Partner and others) to license agreements, first production pilot and revenues in 2021-22.

Continuous Third-Party Validation & Partner Identification

- 4 joint development partners in place with more in the queue and targeted, disruptive opportunities throughout supply chain.



Dan Blondal
CEO
30+ yrs in tech at Kodak, Creo, General Fusion & Nano One



Dr Stephen Campbell
CTO
30+ yrs as Principal Scientist at Ballard Power & AFCC



Paul Matysek
Chairman
\$2B+ growth LithiumX, Lithium1, GoldRock, Energy Metals & Potash One



John Lando
President
30+ yrs at RBC Dominion & equity market finance



Joe Lowry
Strategic Advisor
Global Lithium LLC 25 yrs as global lithium expert



Robert Morris
Strategic Advisor
Morris Consulting Battery Metals expert EVP Vale, MD Umicore

Substantial Long-term Opportunity (3-5 Year Goals)

First Revenues

- Targeting LFP production first with Pulead and others. NMC to follow as coated single crystal proves out. HVS for solid state through consortiums of OEMs and anode/electrolyte developers.

Rapid Commercial Expansion

- Manufacturing adoption of Nano One process, accelerated with differentiation, market growth and updates to non-competitive plants. Revenue expansion anticipated with scale of clients.

Anticipated Market Potential & Ongoing Innovation

- \$25B+ market with high margin opportunities in licensing, JV, M&A and supply chain consolidation. Continuous innovation in battery cathode adds value and preserves high margins.

nanoOne



Changing How the World Makes Battery Materials

www.nanoone.ca

Nano One Quick Reference

Quick Facts

Headquarters	British Columbia, Canada (c. 2011)
Employees	30+
Market Capitalization	C\$242M (USD\$181)
Business Model	License/Royalty Model
IPO	March 2015 at C\$0.25 a share
Patents	16 in US, Canada, Japan, Korea, China, Taiwan and 30+ pending
Partnerships	4 (Volkswagen, Pulead, Saint-Gobain, Undisclosed Asian cathode producer)

- **One Pot Process** improves cost and durability of cathode
- For license to manufacturing LFP, NMC and HVS cathode
- Coated nanocrystal durability adds range/charge/life
- For lithium ion and solid state batteries
- For electric vehicle, renewable energy storage and portables

- **Seasoned leadership** in financing, capital growth, technology management, chemistry, engineering, materials science, batteries, and intellectual property.
- **Lab, demonstration pilot plant** and engineering plans for full scale production.

Expert Commentary

Keiji Kata – EVP and GM of Toyota’s battery business Discussing the challenges for their next-gen electric powertrains:

"The hitch is, the more expansion and contraction there is, the more the electrolyte particles become deformed. And this deformation inhibits the flow of ions and electrons and degrades battery performance over time."

**“The key is developing a material that won't deform easily.”
“A breakthrough might come from new materials or new designs”**

(July 25, 2020 – Interview with Automotive News, www.autonews.com)

**Dr. Jeffrey Dahn, Dalhousie University
Head of Advanced Battery Research, Tesla**

“ The new battery tested is a Li-Ion battery cell with a next-generation “single crystal” NMC cathode and a new advanced electrolyte. ”



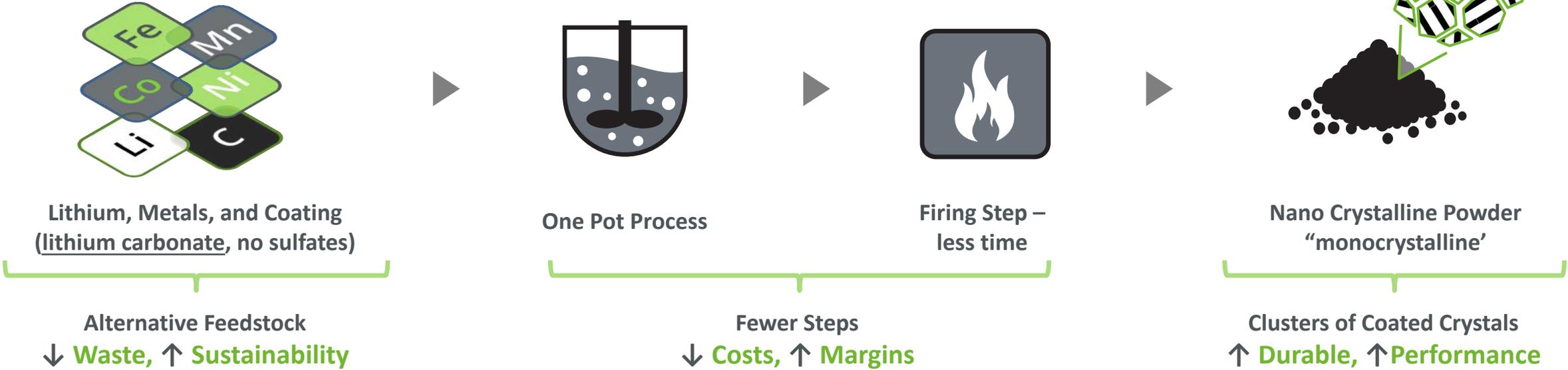


Appendices

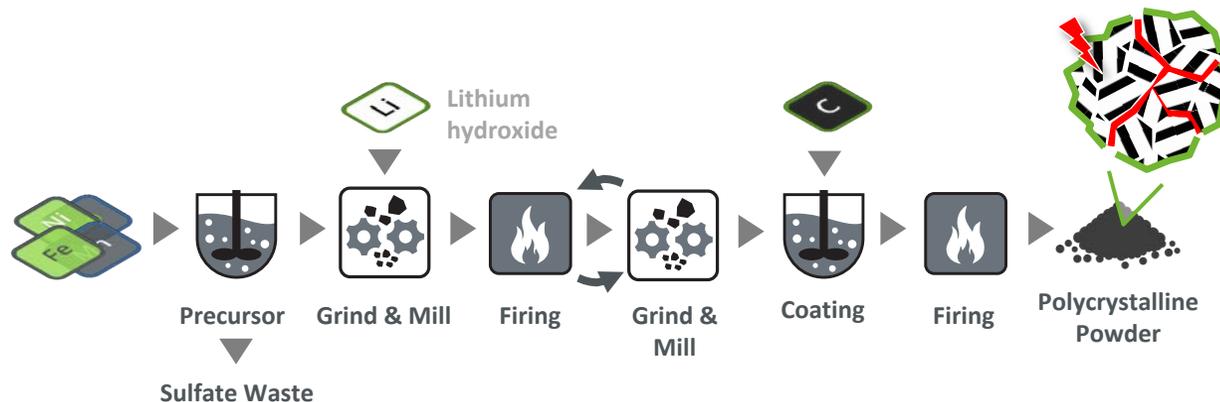
Nano One Process Advantage Details

Nano One Patented One Pot Process:

Half the Steps – No Waste



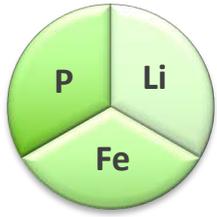
Standard Process:
Many Steps
Complex
Time Consuming
Less Sustainable



Coated clusters of crystals
↓ durability
↓ performance

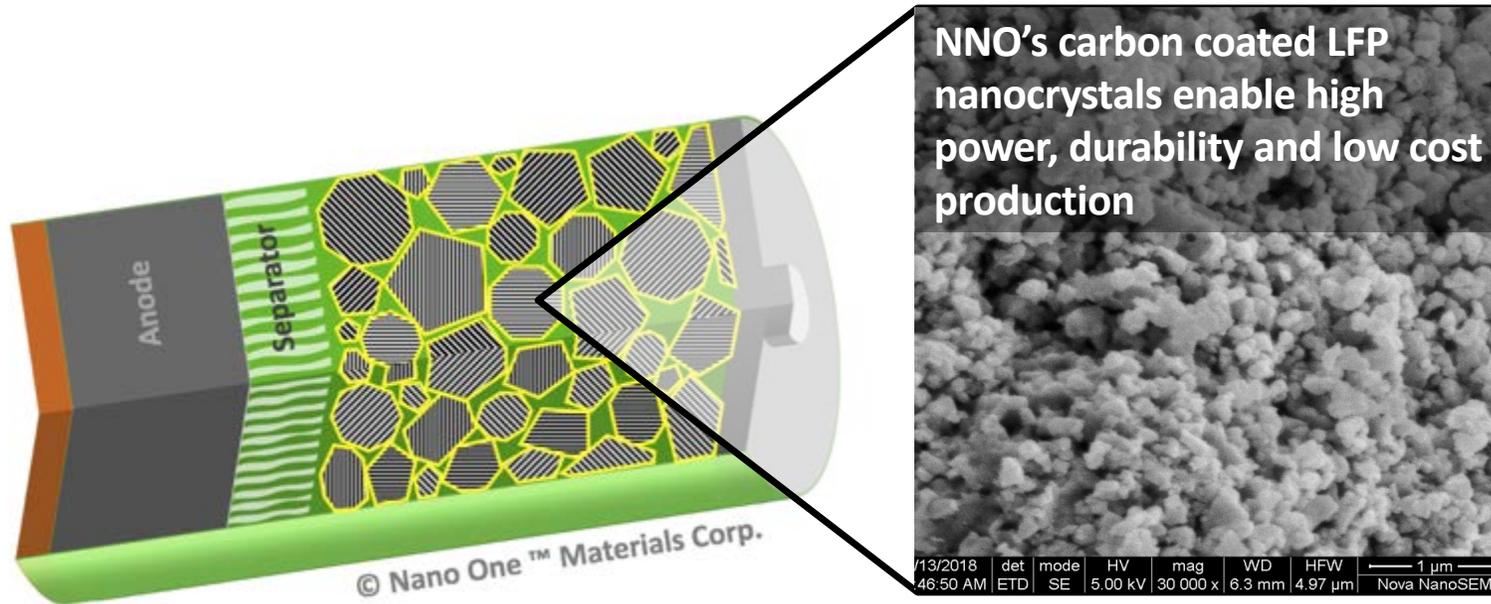
Many Steps
↑ cost

Standard feedstocks
↑ waste
↓ sustainability



Lithium Iron Phosphate (LFP)

Lowest Cost | Longest Lasting | Safest | Long Range Potential
for industrial, storage, heavy duty and long calendar life applications

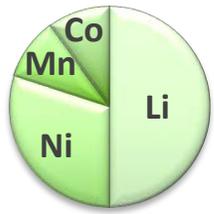


Engineering Report complete for commercial scale production of LFP using NNO technology (NORAM engineering)

- Enhanced 4800 tpa design specifications
- Tightened budgetary estimates
- Improved economics
- Joint Development Partnership with Pulead Technology

News: Engineering Report Enhances Value of Nano Ones LFP Battery Cathode Technology



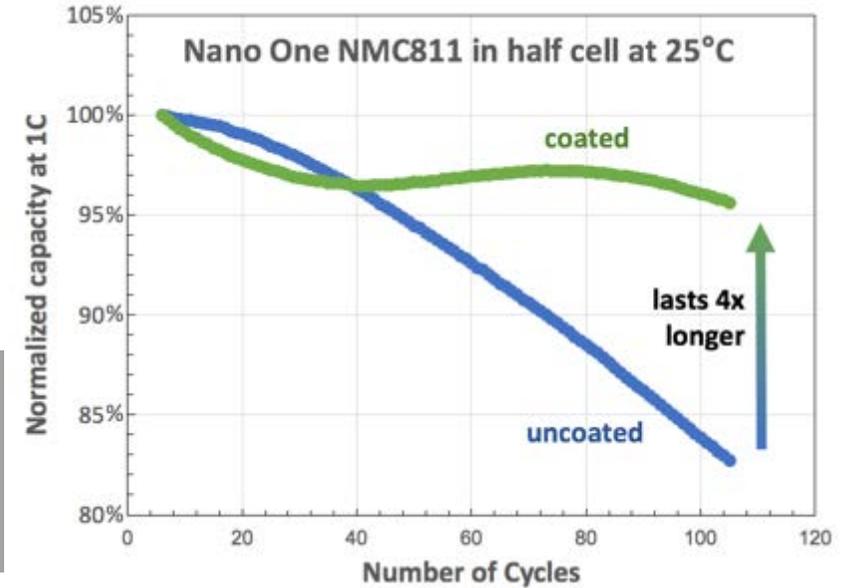
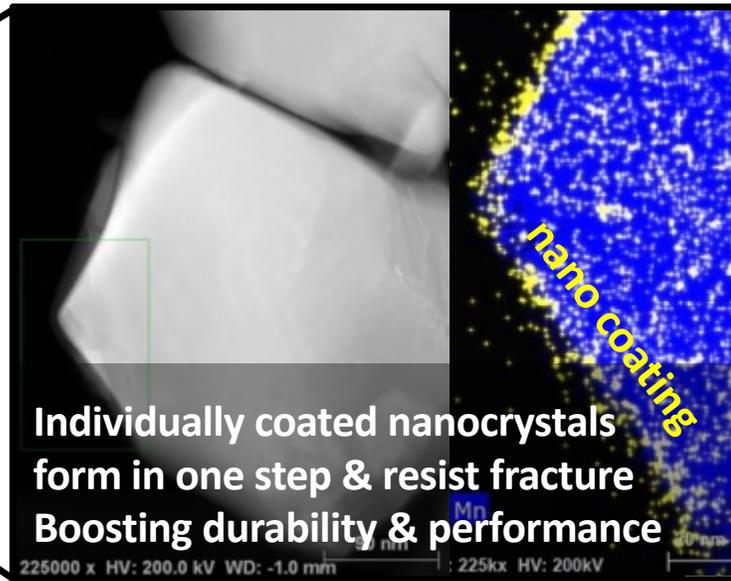
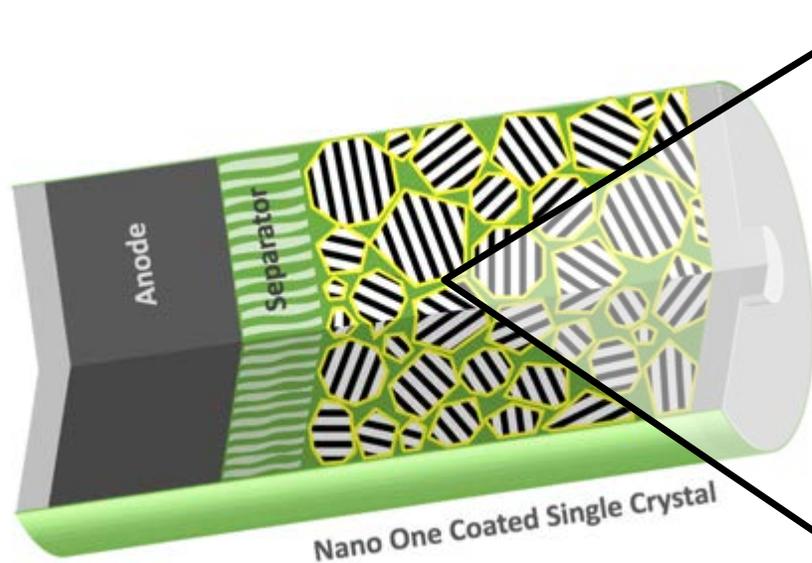


Coated Single Crystal NMC (811)

Energy Dense | Long Range | Improved Durability
for advanced lithium ion and E mobility applications



Nano One Coated Single Nanocrystal Cathode

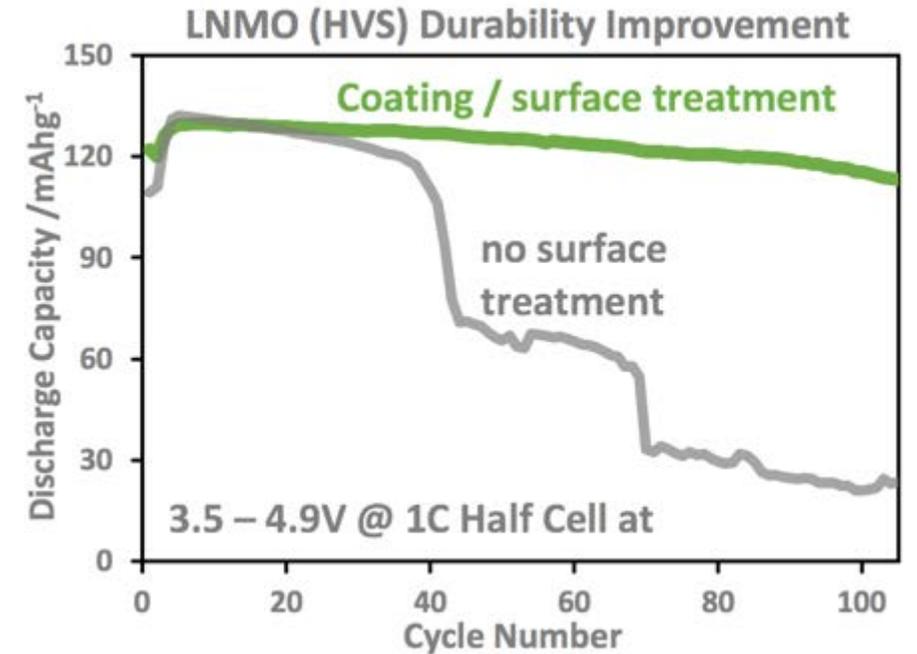
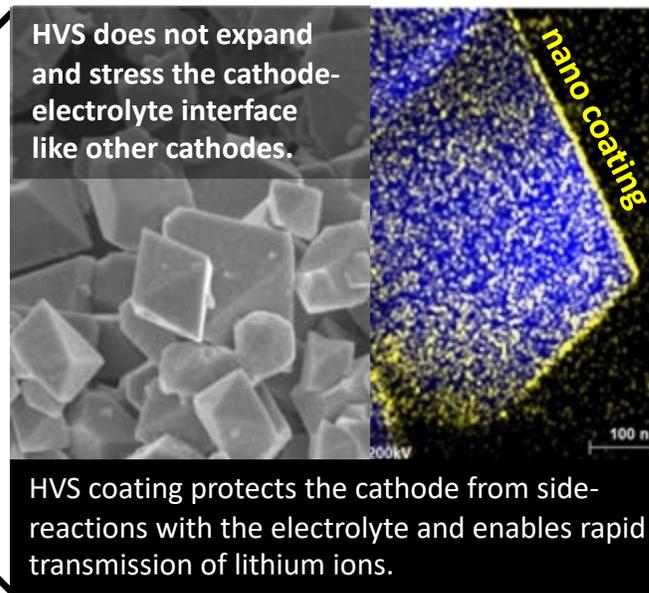
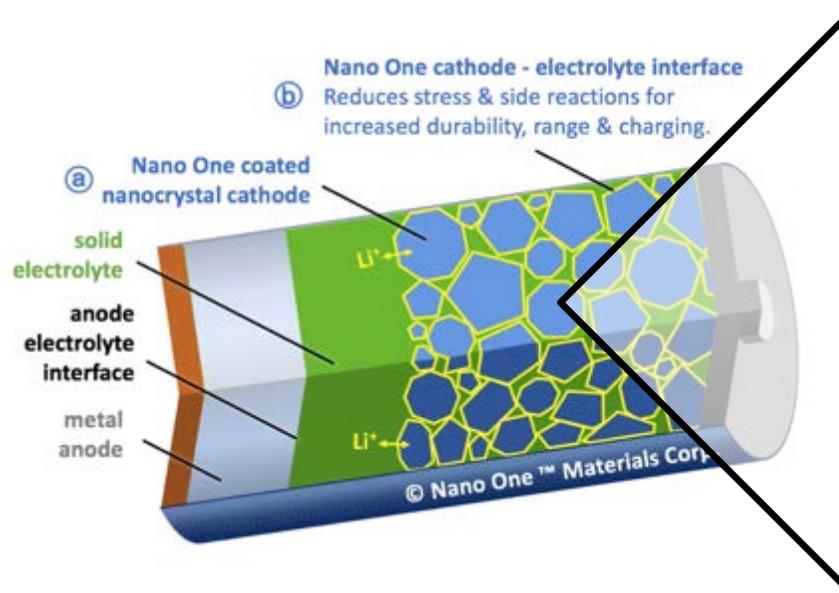


News: Nano One Introduces a Breakthrough in Longer Lasting Lithium-ion Cathode Materials



High Voltage Spinel (HVS, LNMO)

Cobalt Free | High Voltage | Fast Charge | Dimensionally Stable
for advanced lithium ion and solid-state batteries



News: Nano One Patented Cathode Tests Positively in Solid State Batteries





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Thank you