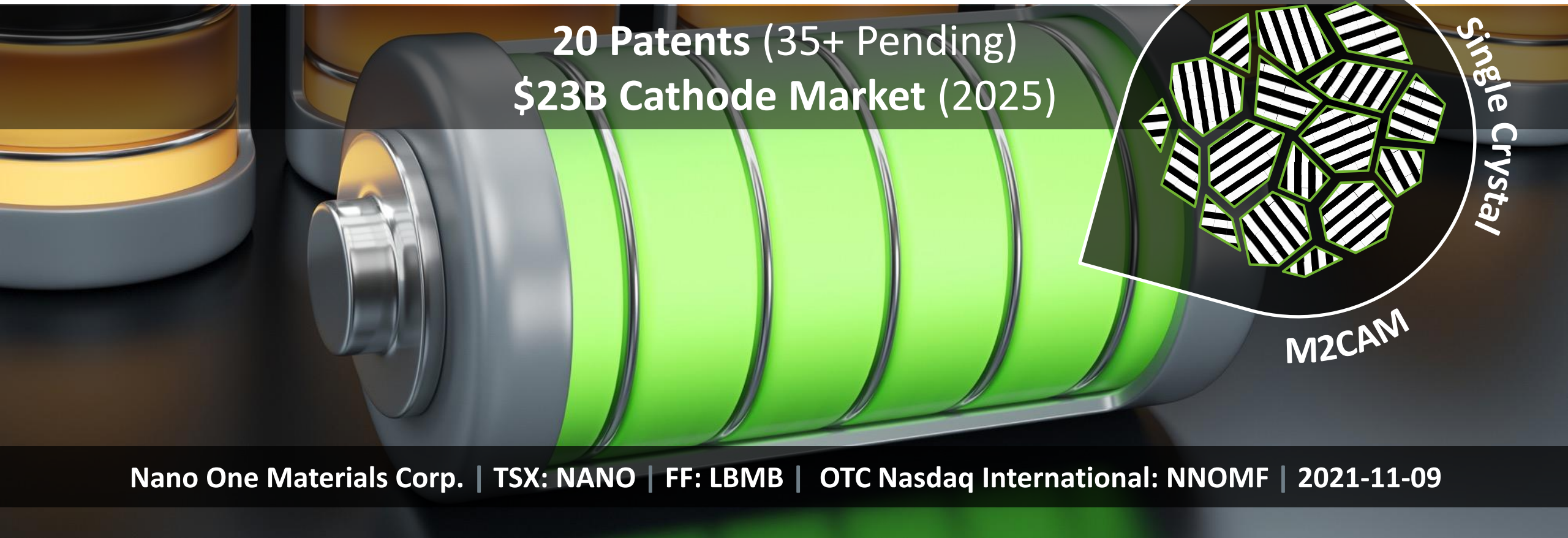
nanoOne

Changing How the World Makes Battery Materials

Corporate Overview



20 Patents (35+ Pending)
$23B Cathode Market (2025)

Disclaimers

TSX: NANO | FF: LBMB | OTC Nasdaq International: NNOMF

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Leadership

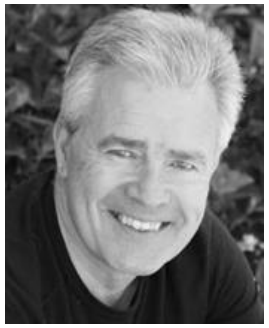
Dan Blondal
CEO
30+ yrs in tech at Kodak, Creo, General Fusion & Nano One

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

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

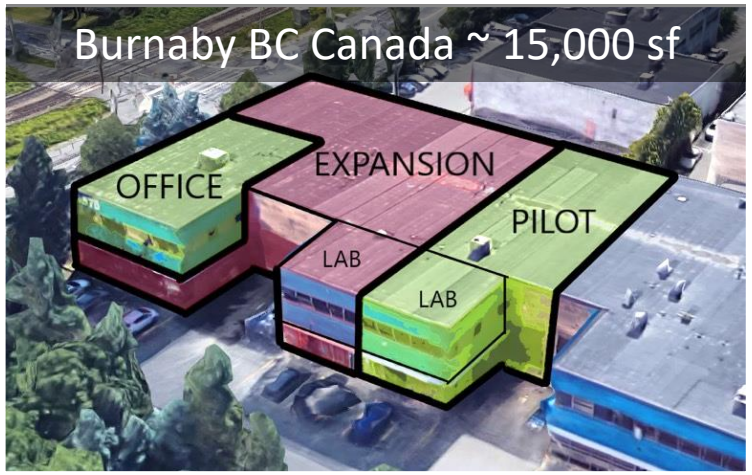
Alex Holmes
COO
CEO @ Plateau
Tech Founder
BD @ Oxygen Cap
Investment Banker

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



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



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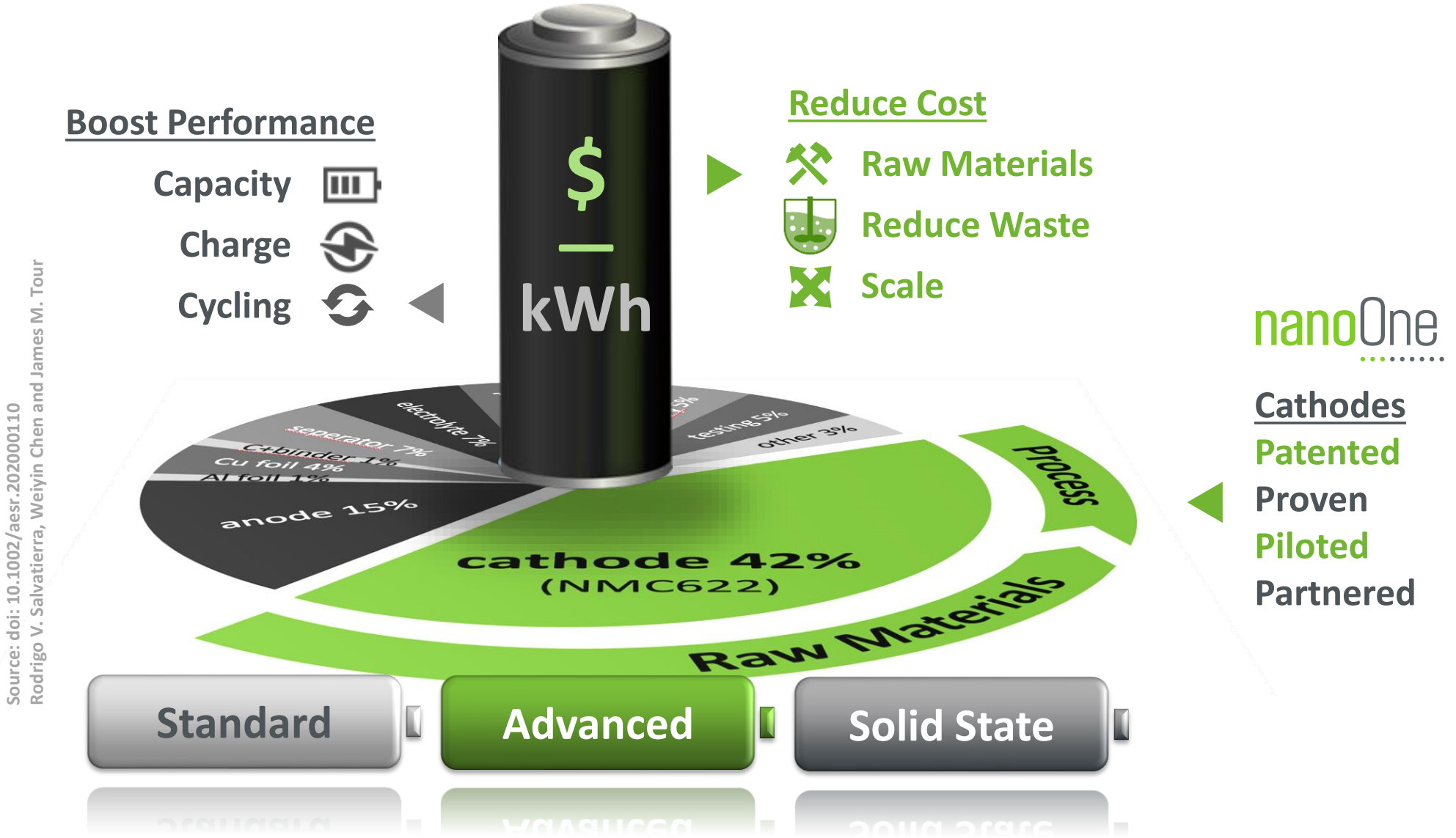
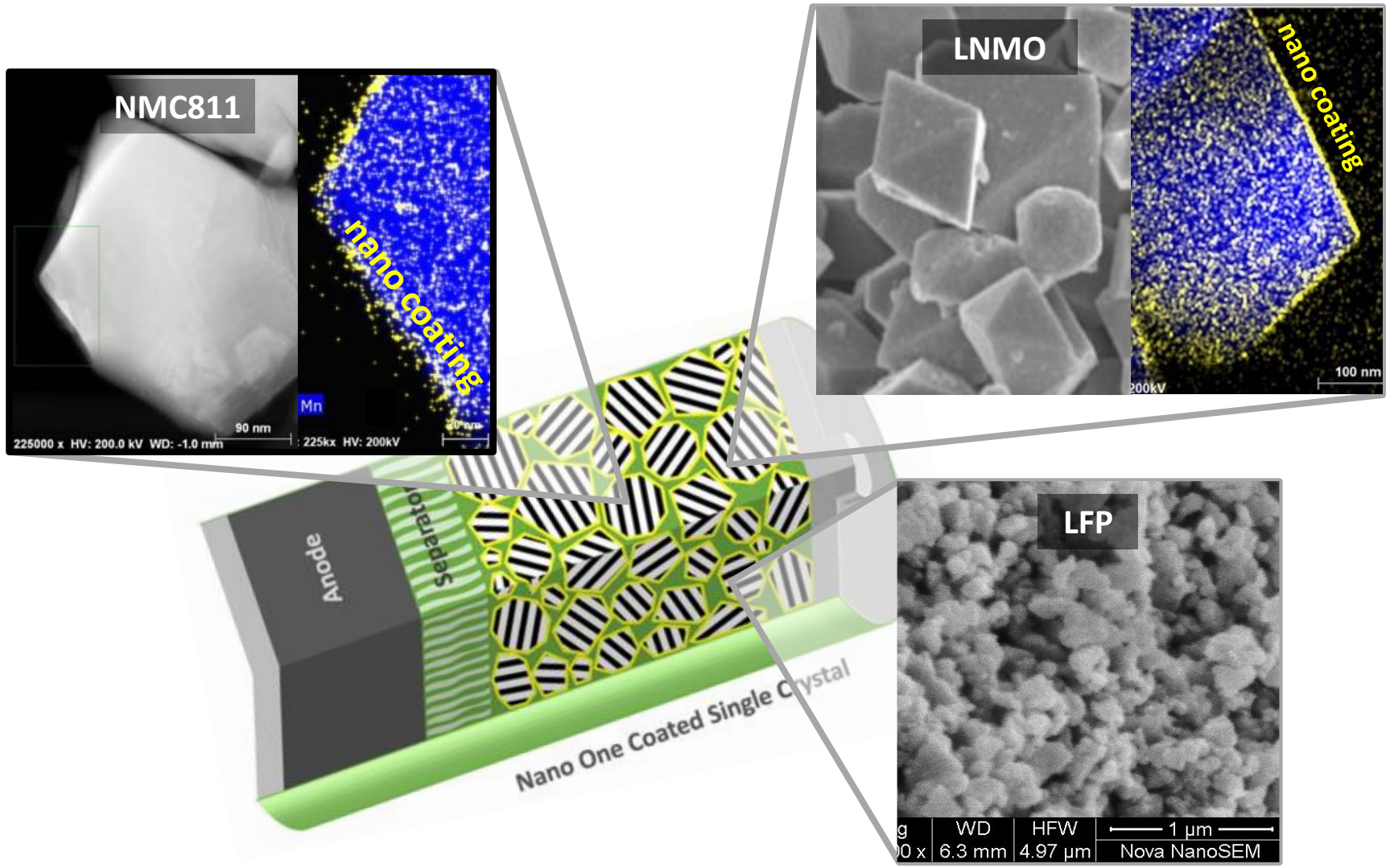
Lithium-ion Batteries



Source: doi: 10.1002/aesr.202000110
Rodrigo V. Salvatierra, Weiyin Chen and James M. Tour

One-Pot Process & M2CAM

a platform for making coated single crystal NMC, LNMO & LFP



partners

- JM Johnson Matthey
- Undisclosed OEM's x 2
- Undisclosed Asian Cathode producer
- SAINT-GOBAIN

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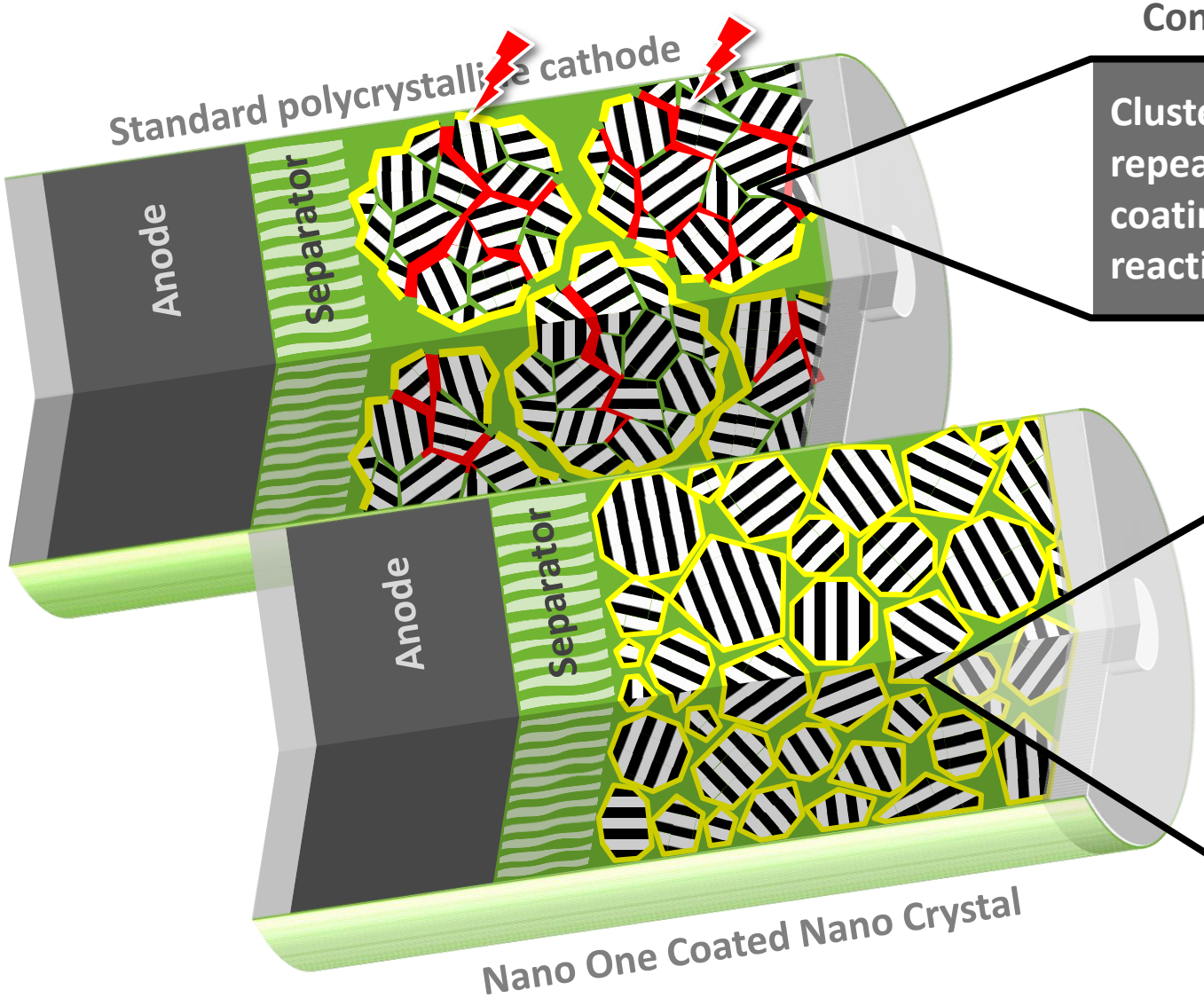
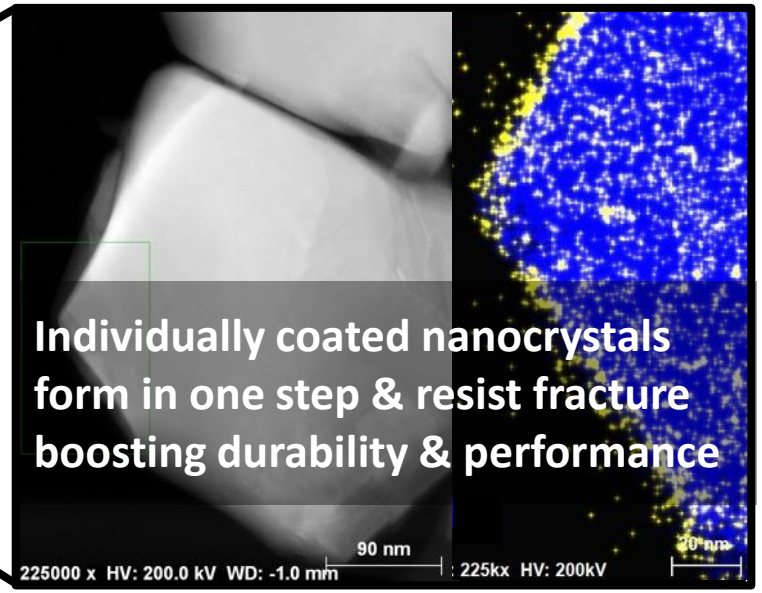
Nano One – Coated Single Crystal Ni Rich NMC



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

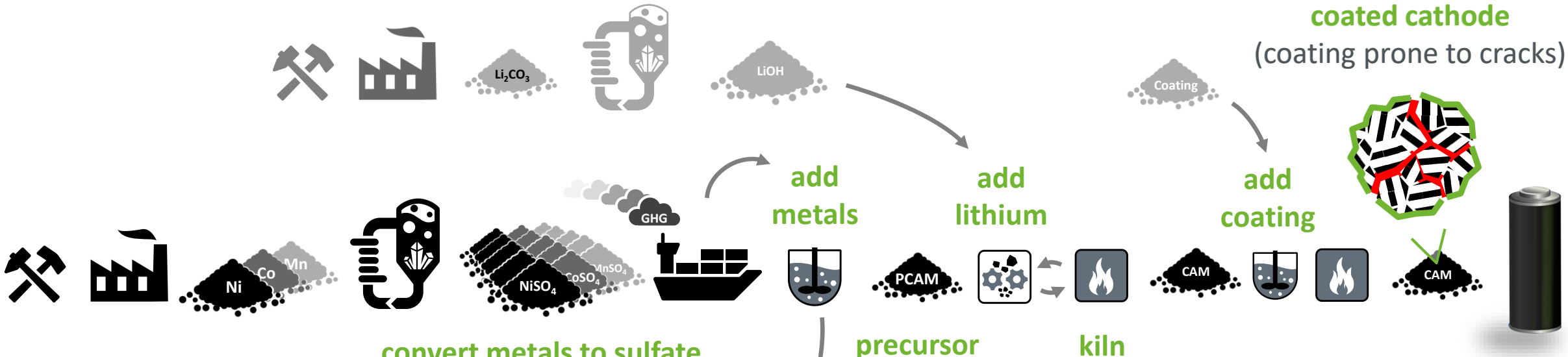
Nano One Coated Single Nanocrystal Cathode



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

The Cathode Supply Chain is LONG and COMPLEX

convert lithium to hydroxide
Adds Energy, Cost and Handling



coated cathode
(coating prone to cracks)

add metals

add lithium

add coating

convert metals to sulfate
Adds Energy, Water, Cost, 5x Weight, CO2, Logistics, Shipping

precursor
(PCAM)

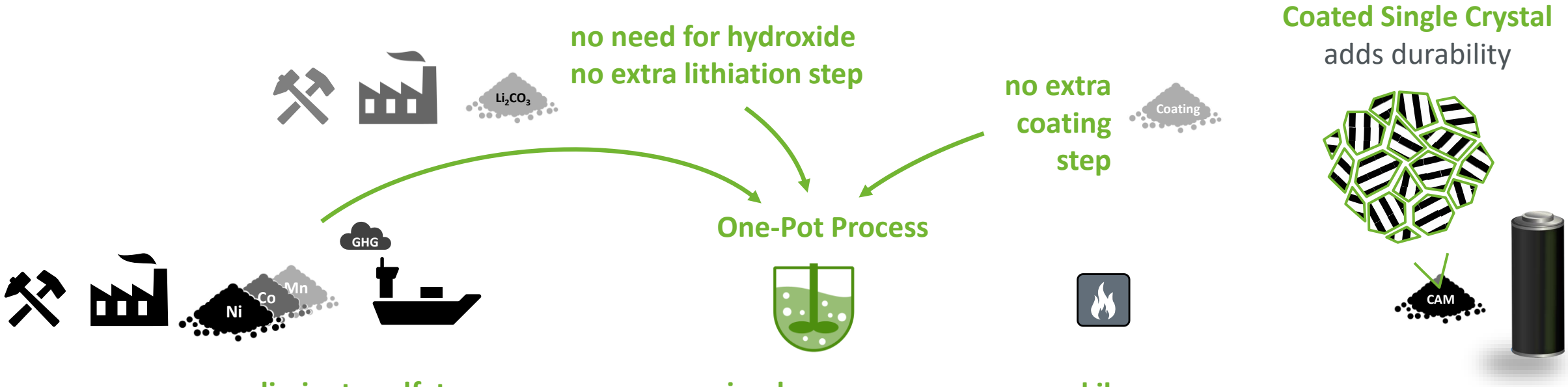
kiln
fire for days

SO_4

sulfate waste

Nano One's M2CAM Metal direct to Cathode

Eliminates Complexity, Waste, Cost & Carbon Footprint



eliminate sulfate
no SO_4 ↓ H_2O ↓ CO_2
↓ Energy ↓ $ ↓ Logistics
4-5x less to ship

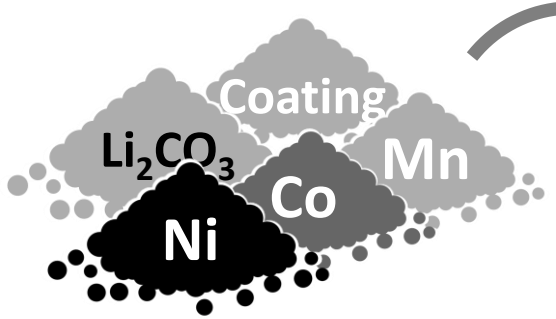
simpler process
no waste sulfate
precursor already lithiated
↓ $ ↓ Steps

kiln
fire for hours
instead of days

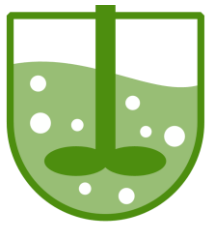
Nano One's M2CAM Metal direct to Cathode

Eliminates Complexity, Waste, Cost & Carbon Footprint

M2CAM
uses metals & Li_2CO_3
to eliminate cost and
environmental footprint

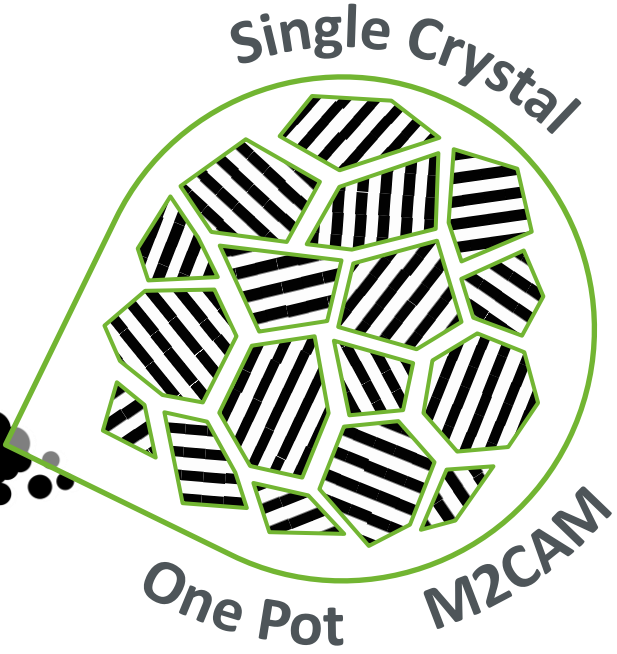


Everything
goes into
One-Pot



Less
thermal
processing

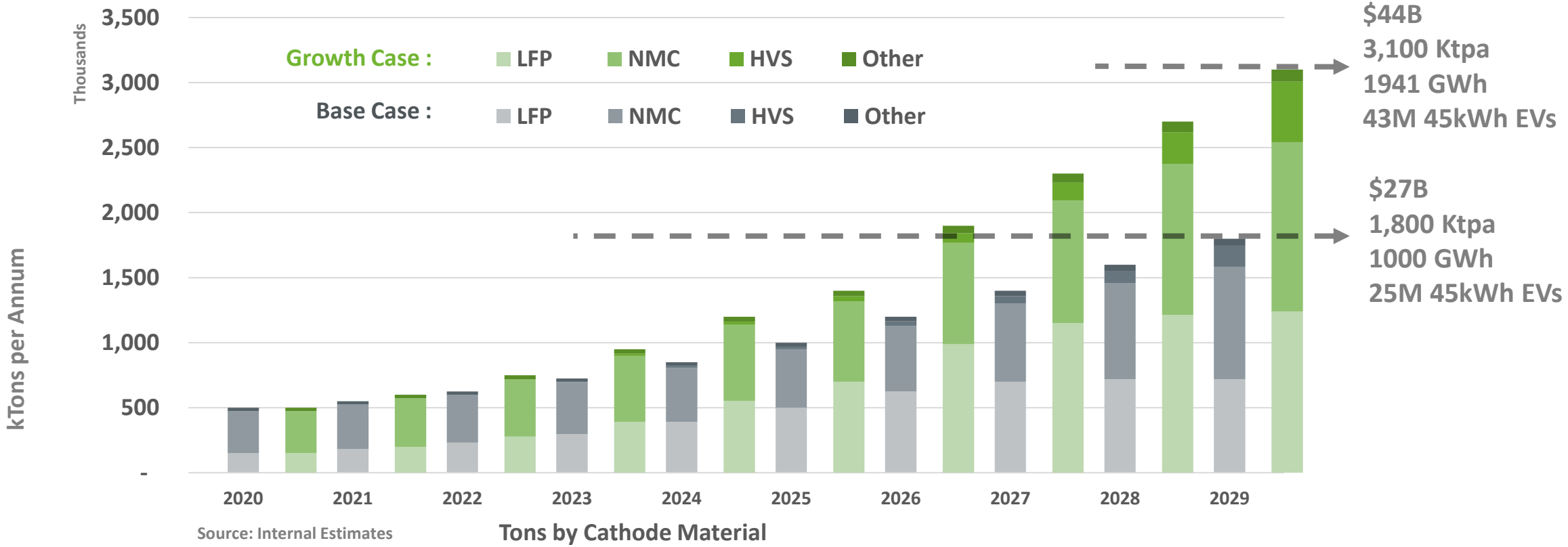
Finished
active
material



no SO_4	↓ H_2O	↓ CO_2	↓ energy	↓ $	↓ logistics	↓ shipping	↓ steps	↓ kiln	coated single crystal

a fraction of the carbon footprint and potential savings of many $1000s per tonne

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)

Licensing Scenarios

1 production line = 5M kg/yr cathode for ~70,000 45kWh EV batteries

An example of how a royalty could work …

Assume $4+/kg savings could earn $1/kg in royalties

= 5M kg/yr x $1/kg x 1 production line

= $5M/yr royalty revenue per line

Low Opex, High Margin, Modest Cash Flow per Line

An example of how a joint venture could work …

Assume cathode selling price of $20-30/kg

= 5M kg/yr x $20-30/kg x 1 production line

= $100-150M/yr shared product revenue per line

Higher Opex, Lower Margin, Higher Cash Flow per Line

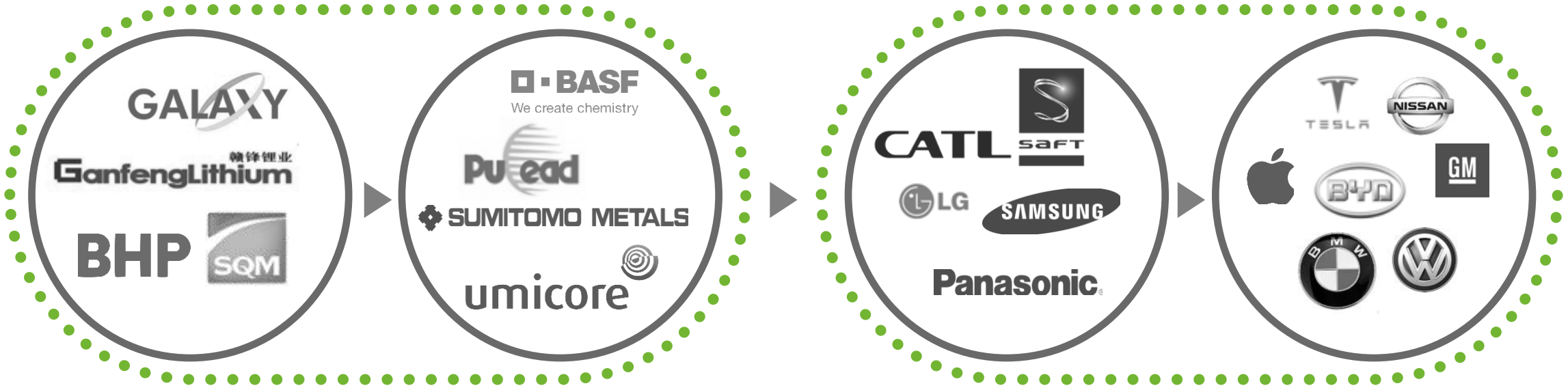
2025 Total Addressable Cathode Market (CAGR % 25+) = ~1-1.4B kg/yr `= ~200-280 production lines (5M kg/yr/line)

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

Cathode Producers
NANO Provides mfg advantage & differentiation through licensing & JV

Cell Producers
NANO Enables next generation LiB & differentiation

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

$76M Equity | **$13M Non-Dilutive Grants** | **Cash & Runway thru 2025+**

$3M PP (2011-14) $3M IPO (2015) $4M PP (2017) $54M (2020-21) $1M IRAP $7M SDTC $2M BC-ICE $2M ASIP

Shares: 95M Outstanding | 106M Fully Diluted

Catalysts: Partnerships | Licensing | Patents

Nano One Quick Reference

Quick Facts

Headquarters	British Columbia, Canada (c. 2011)
Employees	55+
Market Capitalization	C$458M (USD$365M) 2021-06-08
Business Model	License/Royalty Model
IPO	March 2015 at C$0.25 a share
Patents	20 in US, Canada, Japan, Korea, China, Taiwan and 35+ pending
Partnerships	8 – Johnson Matthey, VW, CBMM, Saint-Gobain, Undisclosed Asian cathode Co, Undisclosed US OEM x2, EuroMn,

- **One Pot Process** improves cost and durability of cathode
- Lower cost and carbon footprint using **M2CAM**
- **Coated nanocrystal** durability adds range/charge/life
- For lithium ion and solid-state batteries
- For electric vehicle, renewable energy storage & 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:

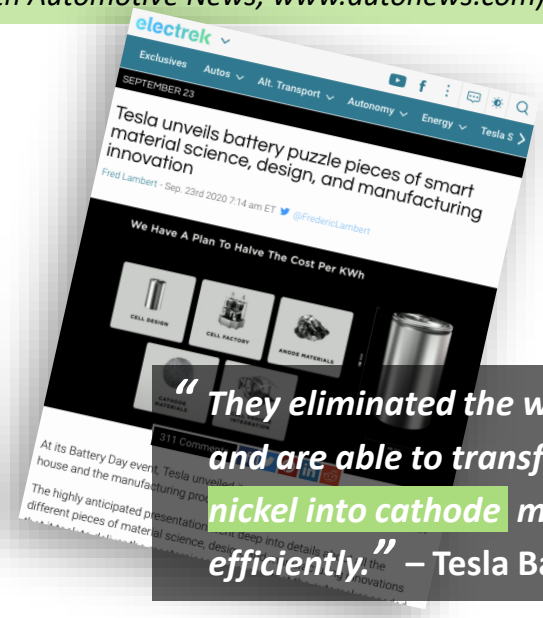
"The hitch is, the more expansion and contraction there is, the more the electrolyte particles become deformed. And this deformation inhibits the flow of ions and electrons and degrades battery performance over time."

"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)

"The new battery tested is a Li-Ion battery cell with a next-generation single crystal NMC cathode and a new advanced electrolyte."
– Tesla Battery Research



"They eliminated the waste water and are able to transform the nickel into cathode much more efficiently." – Tesla Battery Day

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Changing How The World Makes Battery Materials

Thank you