



# Investor Presentation

California Nanotechnologies Corp.

January 2025 | [calnanocorp.com](http://calnanocorp.com)

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# Cal Nano is on a **mission** to bring next generation materials to market with cutting-edge technologies

We imagine a world in which our **advanced technologies** are used to make the most innovative products on this **planet** and **beyond**

We help companies process advanced materials from **powder to part**

**By partnering with Cal Nano, our clients develop and produce materials for cutting-edge applications, enhancing material properties such as strength and lightness.**

## Examples of Applications

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Rocket Engine Components

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Nuclear Reactor Materials

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Sputtering Targets

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Military Armor

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Deep Cycle Battery Parts

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Specialized Conductors

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Thermoelectrics

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Automotive Brakes

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Metal Alloy Disks

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# Backfilling new manufacturing capacity

Aiming to scale manufacturing services in new Santa Ana facility while diversifying revenues with customer wins

**\$6.1M**

TTM<sup>(1)</sup> Revenue  
(up 130% YOY)

**150+**

Global and local customers who partner with Cal Nano

**15,000+**

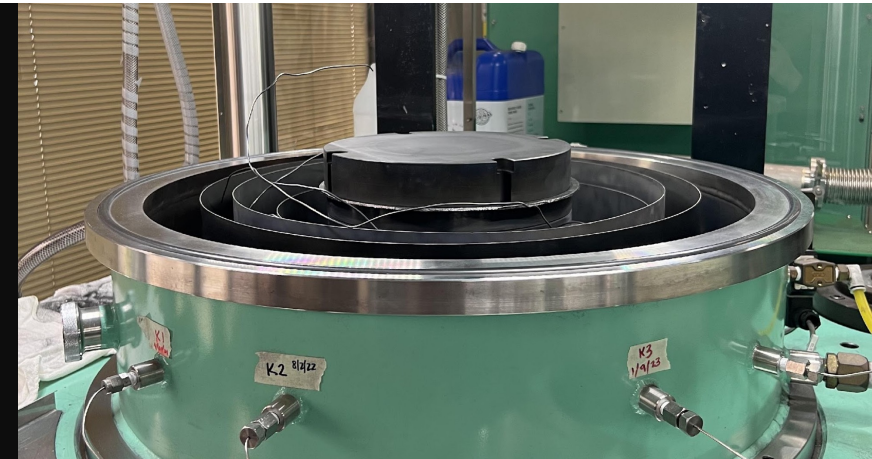
Runs performed on proprietary equipment for customers

**20 Dedicated**

Employees headquartered in Los Angeles County, California

**2 Core**

Technologies (SPS<sup>(2)</sup> and Cryomilling) driving new material innovations



# Cryogenic Milling

A specialized grinding/mixing process conducted in a cryogenic liquid environment of  $-190^{\circ}\text{C}$  used to make nanomaterials & high-performance alloys

- 01 Particle Size Reduction**  
Rapidly reduces particle size in materials that smear
- 02 Custom Alloys and MMCs**  
Create unique materials by combining different
- 03 Material Properties Improvement**  
See 2x increase in strength in certain applications like aerospace
- 04 Moisture, Oxygen or Heat Sensitive Materials**  
Can process dangerous materials very effectively and safely



**One Process  
Patent Granted**

# Spark Plasma Sintering

A novel process that turns powder into solid parts. SPS rapidly creates materials and components with unique properties that are not possible with traditional manufacturing techniques

01

## Extremely Versatile

Compatible with many materials such as ceramics and alloys

02

## Shorter Cycle Times

Up to 10x faster than traditional techniques

03

## More Cost Effective

Energy savings of 80%+ compared to conventional sintering

04

## Bonding and Functionally Graded Materials

Bond metals to ceramics for complex electronic components



Services and  
Equipment Sales

# A unique asset with proven profitability and opportunities for significant growth

01

High technology service provider

Specialized manufacturing service provider in the growing field of advanced material processing

02

Growing SPS adoption in North America

Adoption for Spark Plasma Sintering (SPS) core technology at inflection point which will support more customer demand

03

Onshoring of U.S. manufacturing

Trend towards supply chain resiliency bringing manufacturing back to U.S. with attractive tax and grant incentives

04

Transition from R&D to commercial-scale

Significant growth opportunity from move to include larger-scale commercial product manufacturing

05

Proven and profitable business model

Company has successfully generated 60%+ gross margins, 30%+ EBITDA<sup>(1)</sup> margins and positive operating cash flow

06

High barrier to entry

Over a decade of know-how (15,000+ trials) and technology infrastructure to successfully deliver on projects at scale

(1) Non-IFRS Measure



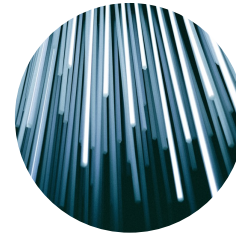
COMPETITIVE ADVANTAGE

# A blend of rare equipment and specialized know-how, makes us **one-of-a-kind** in North America



## Largest SPS machine available in North America for R&D and commercial services

Deployed a new Dr. Fritsch MSP-5 Model in September 2024



## Technology moat through 20+ years of experience and 1 process patent granted

Reputation for premium R&D services shown through strong unit economics



## R&D processing times exceed those of competitors

In some instances, timelines have been cut from weeks to hours, resulting in significant savings of time and money for customers

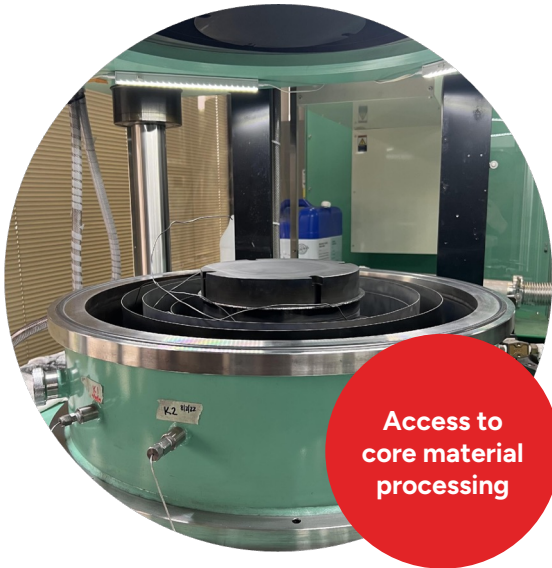


## One-stop shop for all powder metallurgy needs

In some instances, timelines have been cut from weeks to hours, resulting in significant savings of time and money for customers

# Our business model helps make **innovative products**

Our technologies deliver key material improvements that enable new products to get to market



## Manufacturing Services

87% of FY2024 revenues

- Selling toll access to key technologies (SPS and Cryomilling) to manufacture customers' key components
- Includes post-processing production services



## Equipment Sales

13% of FY2024 revenues

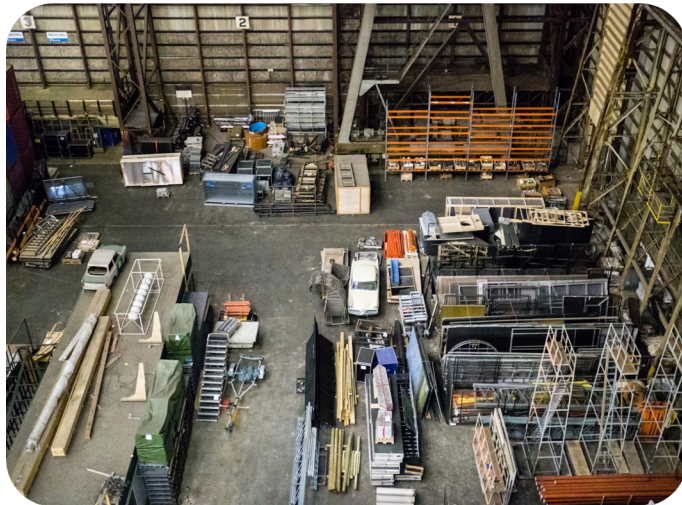
- Selling the key technologies for customers to use in-house
- Includes aftermarket service & support



Cal Nano's **business model** addresses each part of the customer's advanced manufacturing supply chain

# Growing market supported by **several key trends**

Cal Nano is well positioned to benefit from these trends from its **first mover advantage** and **local presence**



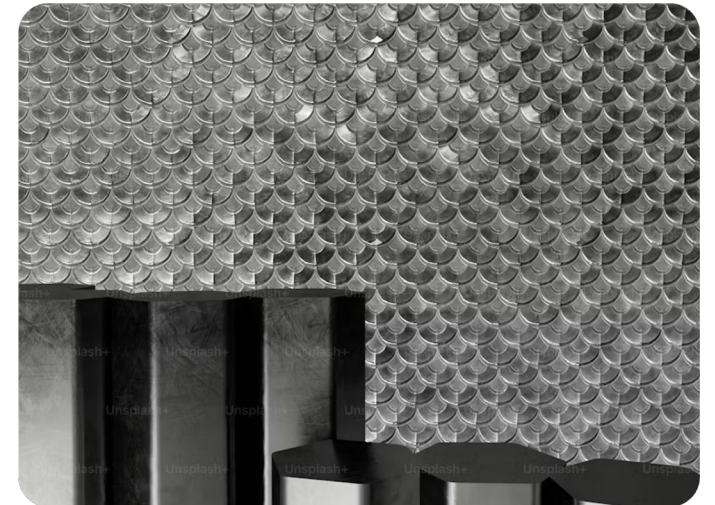
## U.S. Manufacturing Onshoring

Push towards bringing manufacturing back to the U.S. will create demand for advanced manufacturing processes



## Need For More Advanced Materials

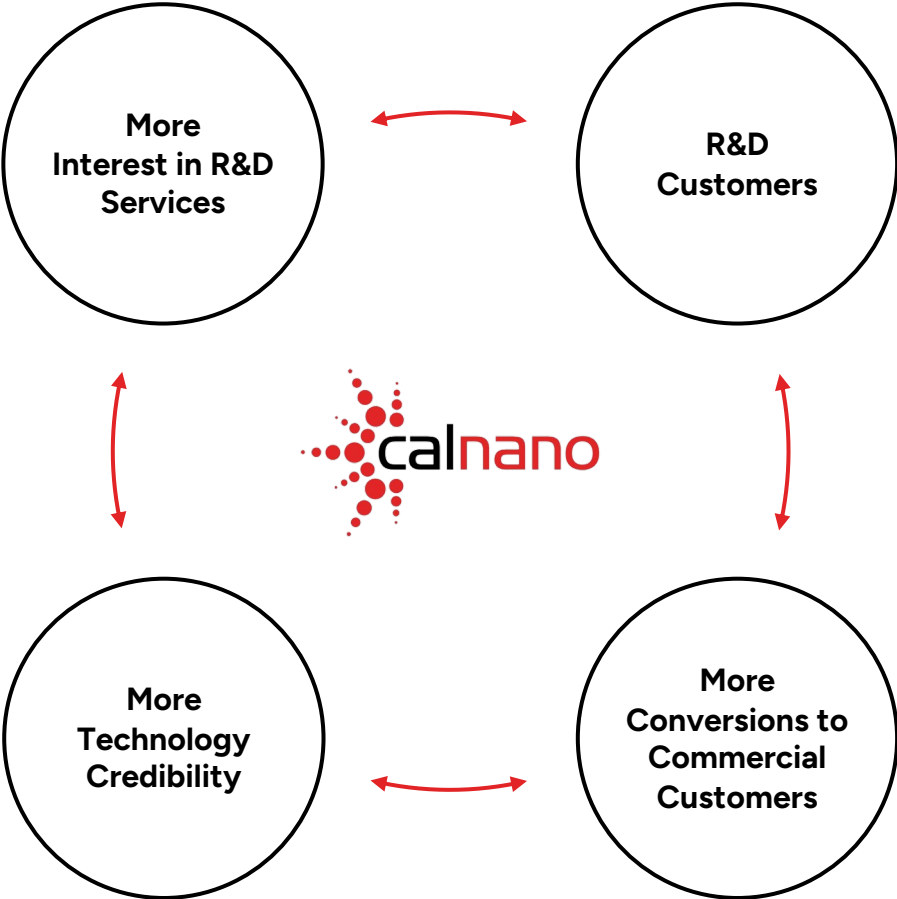
Industries such as nuclear energy, semiconductors, power generation are demanding innovation and new materials to satisfy growing demands



## Transition from Traditional Sintering

Traditional sintering techniques are less effective than SPS which will move the technology along adoption curve

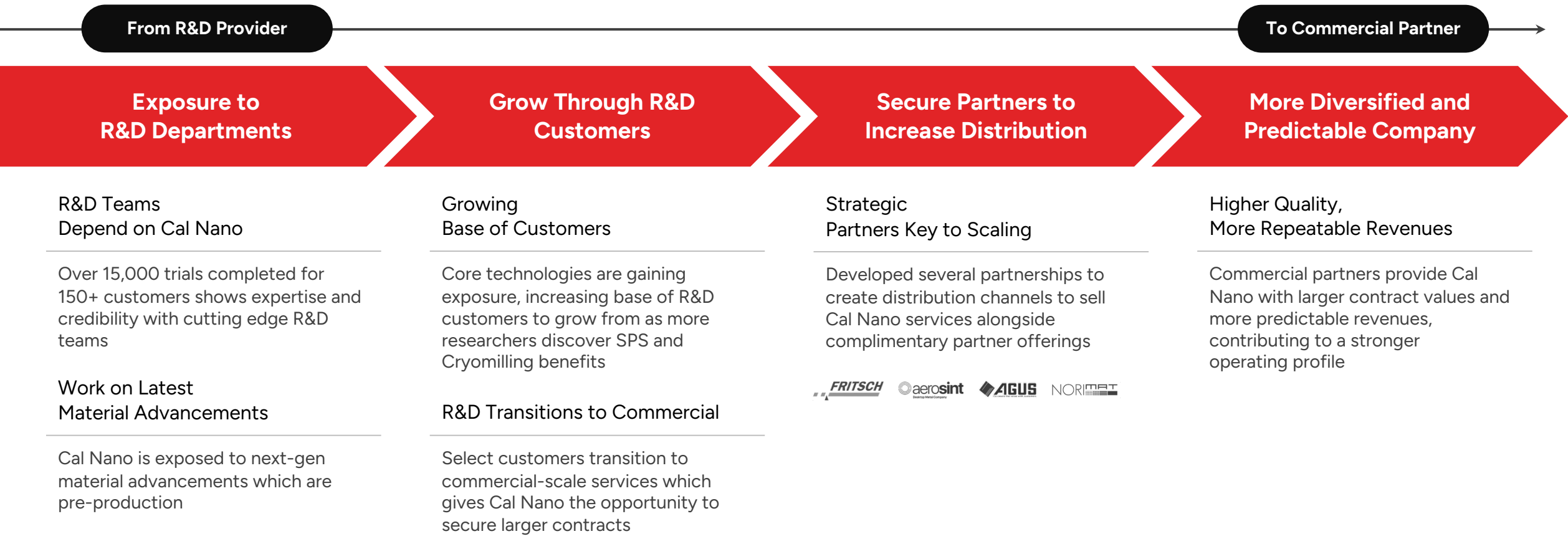
Cal Nano's flywheel creates a **growth engine** for future traction and success



GROWTH STRATEGY

# Growth strategy to become a more valuable company

Leveraging our profitable and expanding R&D base to become a commercial-scale partner



CUSTOMERS

# Top institutions trust Cal Nano's material expertise



## Low-Carbon Energy

High performance thermoelectrics, nuclear reactor components



## Aerospace

High-temp ceramics for shielding, engine components or hypersonics



## Cleantech

Cathode materials and magnetics for utility-scale batteries, biodegradable packaging, CO2 capture



## Defense

Transparent ceramics, ultra-hard ballistic armors





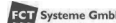



## Automotive

High volume disk brakes, rotors

COMPETITIVE LANDSCAPE

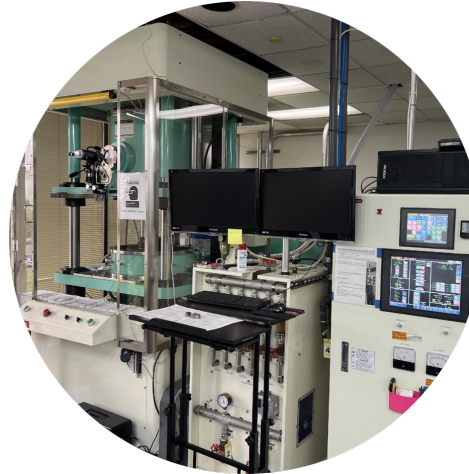
# A unique **service offering** in North America

Cal Nano’s incentives and portfolio of services result in a differentiated market offering

	 <b>Sell Manufacturing Services</b>	   Equipment Manufacturers	  National Labs & Universities
Incentive		<b>Sell Equipment</b>	<b>Provide R&amp;D Support</b>
R&D Service Offering	✓	✓	✓
Production Service Offering	✓	-	-
Cost Competitive	✓	-	-
SPS and Cryomilling Access	✓	-	-
Aftermarket Parts	✓	✓	-
Aftermarket Services & Training	✓	✓	-
Current SPS Capacity	<b>1,000s parts/yr</b>	<b>Not Applicable</b>	-
Current Cryomilling Capacity	<b>10,000s kg/yr</b>	<b>Not Applicable</b>	-
Trials Completed to Date	<b>15,000+</b>	-	<b>Varies by Institution</b>

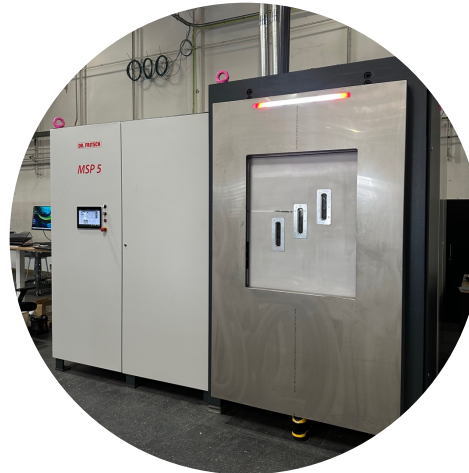
Sources: Management Estimates

# Two flagship facilities located in Southern California for core **SPS** and **Cryomilling** equipment



## Cerritos Manufacturing Facility

Original 3,500 sq. ft manufacturing facility co-located with sister company Omni-Lite Industries, hosts SPS machines, a cryomill, and associated aftermarket parts and service



## Santa Ana Manufacturing Facility

Commissioned in September 2024, the 19,500 sq. ft advanced materials manufacturing facility hosts the largest commercially available SPS machine (MSP-5) in North America along with cryomills, tooling shop, and warehousing



MANAGEMENT TEAM

# Strong leadership with deep materials expertise



**Eric Eyerman**  
**CEO & Director**

Intimate knowledge of Cal Nano with journey from intern to CEO



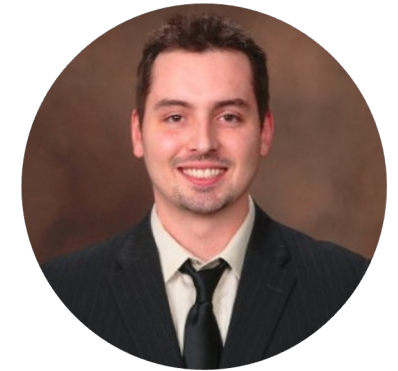
**Spencer Song**  
**VP of Operations**

Cryomilling and machining expertise, oversees all project execution



**Brian Weinstein**  
**VP of R&D**

Spark Plasma Sintering focus with 2,000+ logged hours in SPS and Cryomilling



**Chris Melnyk**  
**Director of Business Development & Director**

Returned Cal Nano insider with diverse expertise in industrials



BOARD OF DIRECTORS

# Backed by a board with diverse experience



**Roger Dent**

**Director**

Capital markets and smallcap investing expert



**Sebastien Goulet**

**Director**

Operations and manufacturing know-how from multinationals



**Dr. Enrique Lavernia**

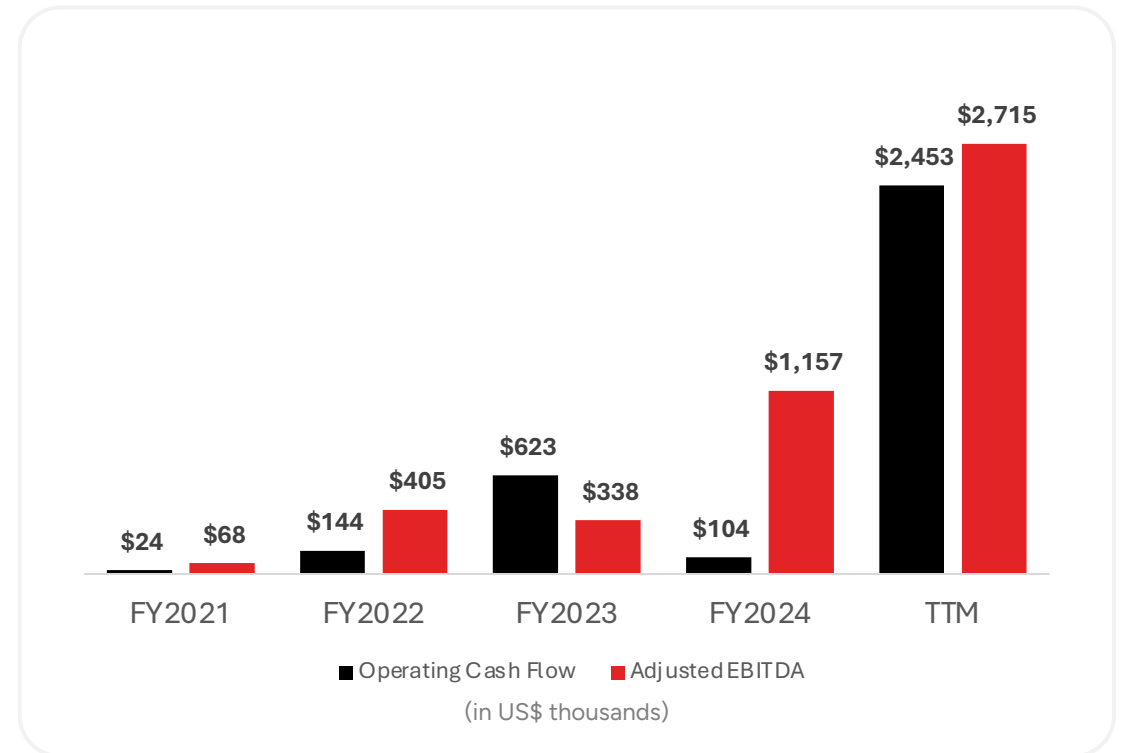
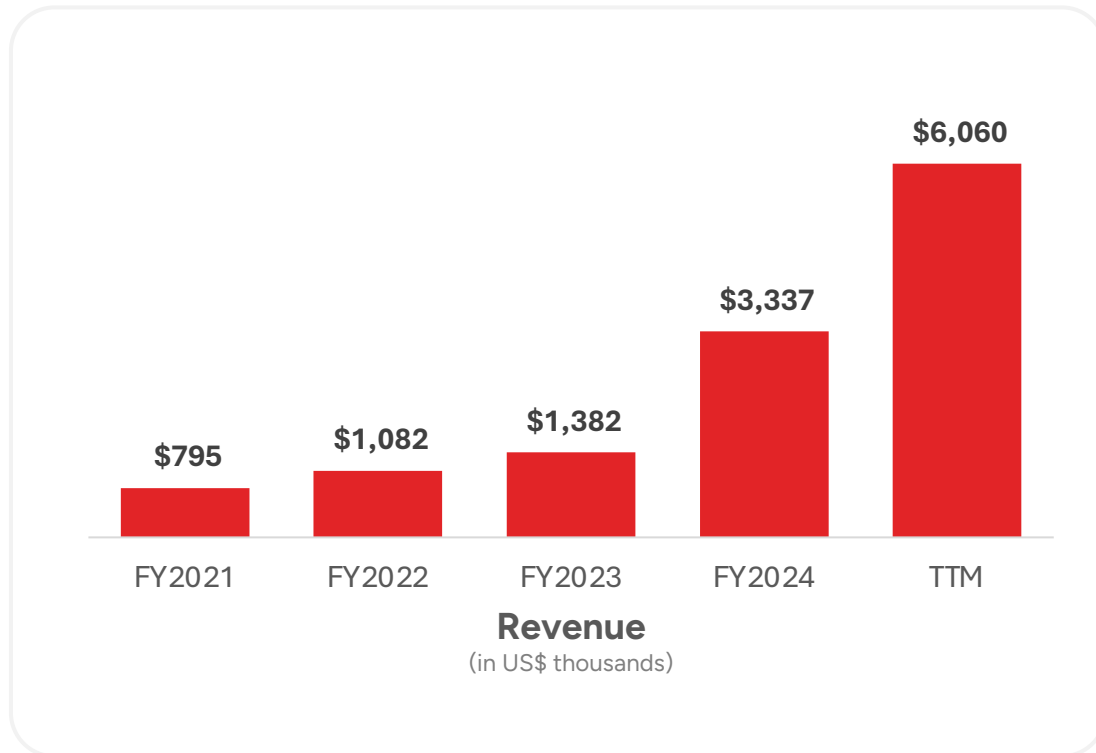
**Director**

World-leading professor and researcher in material science



# Focus on **profitable growth** is driving **performance**

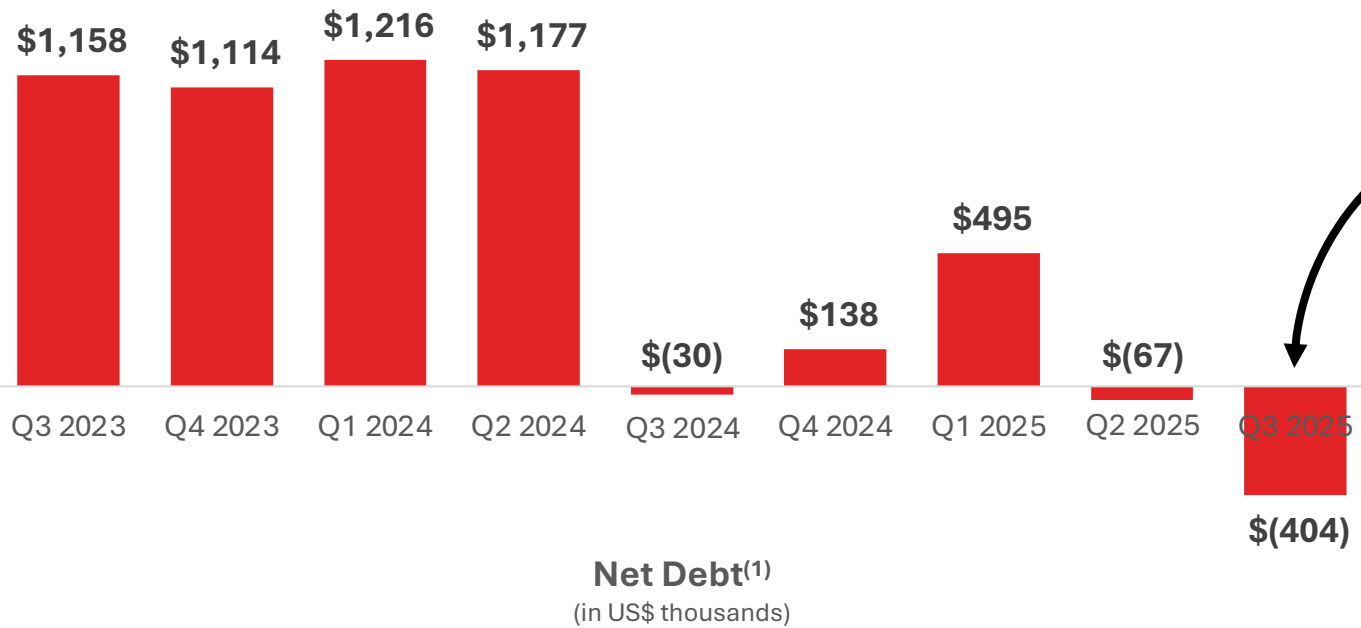
Cal Nano has grown revenues significantly while improving Adjusted EBITDA<sup>(1)</sup> and operating cash flow



FINANCIAL HIGHLIGHTS

# Improving **balance sheet** while **executing growth**

Management committed to reducing its legacy outstanding debt balance



Became **debt-free** after final repayment to Omni-Lite in **Nov. 2024**

(1) Non-IFRS Measure

CAPITALIZATION

# Capitalization Table and Insider Ownership

California Nanotechnologies Corp. – TSXV: CNO, OTC: CANOF	
Outstanding Shares	44,836,103
Stock Options	5,500,000
Warrants (Exercisable at CA\$0.25)	2,033,610
<b>Fully Diluted Shares</b>	<b>51,470,802</b>
<b>Market Capitalization<sup>1</sup></b>	<b>CA\$38.1M</b>
<b>Fully Diluted Market Capitalization<sup>1</sup></b>	<b>CA\$43.8M</b>

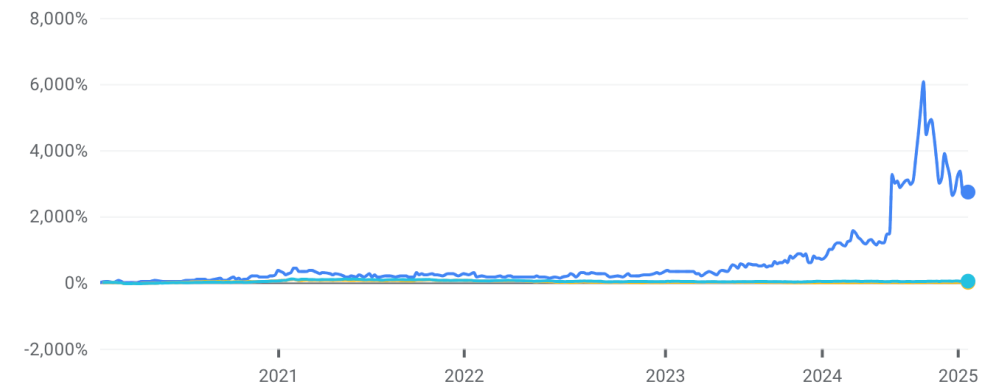
Insider Ownership	Shares	% Outstanding
Omni-Lite Industries Canada Inc.	6,974,670	15.6%
Roger Dent <sup>(2)</sup>	3,881,447	8.7%
Patrick Berbon	3,208,164	7.2%
Eric Eyerman <sup>(3)</sup>	2,432,220	5.4%
Other Insiders	1,307,960	2.9%
<b>Total</b>	<b>17,804,461</b>	<b>39.7%</b>

As of January 27, 2024, at a share price of \$0.85

(2) Includes ownership through Quinsam Capital Corporation

(3) Includes shares related to a loan agreement from an issuance of units (October 30, 2023) with Eric Eyerman, CEO & Director

## Cal Nano Relative Performance to Benchmark Indices



Last 5-year performance

● California Nanotechnologies	<b>\$0.85</b>	<b>+\$0.82</b>	<b>2,733.33%</b>
● S&P/TSX Venture Composite	<b>607.19</b>	<b>+0.68</b>	<b>5.39%</b>
● LD Micro Index (USD)	<b>2934.98</b>	<b>+520.30</b>	<b>41.16%</b>



## For more information

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