

Member Update



NAATBatt 2022



**120+** Employees

**3** Business Divisions,  
incl 6K ADDITIVE &  
6K ENERGY

**>\$200M** Funding Secured &  
Committed via TS

**124** Patent Families  
Across Portfolio  
of Products

**300+** MWh PILOT  
Capacity in New  
Battery Center of  
Excellence

**150K** Sq. ft. of R&D and  
State-of-Art  
Production Space



### Strong Executive Leadership & Board of Directors & Advisors

#### Seasoned Battery Executives



Sam Trinch  
President, 6K ENERGY



Richard Holman, PhD  
SVP, Battery Products



Chad McDonald  
SVP BD/Strategy,  
6K ENERGY



Thanh Nguyen  
SVP, Deployment,  
6K ENERGY



Mary Cronin  
Vice President  
Government Affairs



#### Industry and Policy Leaders on BoD



Dr Aaron Bent  
CEO



Joe Kennedy III  
DEM



Bob Galyen  
CATL



Dr Joe Felter  
REP



Ed Liddy  
AIG



#### HEADQUARTERS AND BATTERY CENTER OF EXCELLENCE



BOSTON



► UniMelt® Plasma R&D  
Center

► 6K ENERGY Division /  
Battery R&D

► 6K Equipment Division

► 6K Innovation Team (New  
Products)

► Sales & Marketing



#### GLOBAL POWDERS AND ALLOYS PRODUCTION



PITTSBURGH



► ISO9001 Certified,  
AS9100 2Q22

► 24/7 Operation, Started  
Production in Q32021

► High Volume Titanium  
Expertise (2M lb/yr)

► 40K sq. ft. State-of-Art  
Powder Manufacturing

► 45 Acres, Fully Permitted  
and Licensed

# UniMelt® Plasma System

6K

6K is the first to create a plasma-based system for high throughput synthesis of advanced materials with engineered microstructures

1

Single pass continuous process



Designer particles – high yield



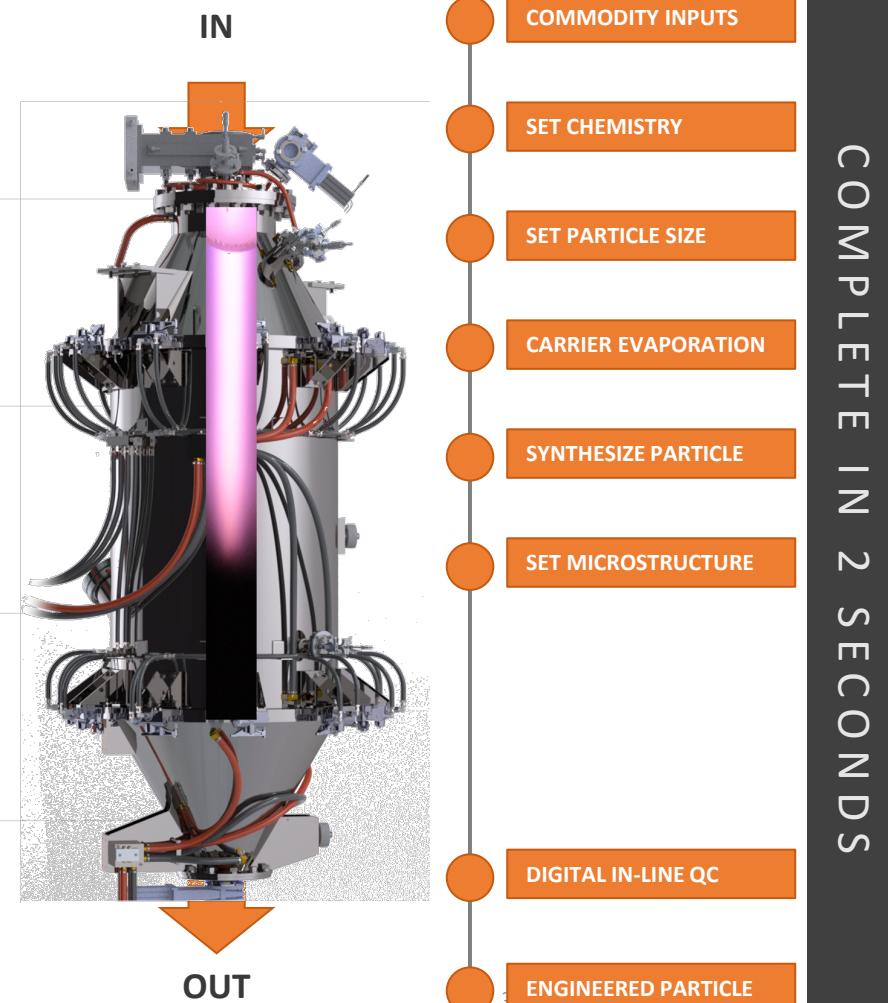
Low / Zero production waste



No moving parts – high uptime



Scalable & highly modular



6K can **produce virtually any battery chemistry**, allowing for the engineering of the optimal combination of energy, power, cost, and lifetime



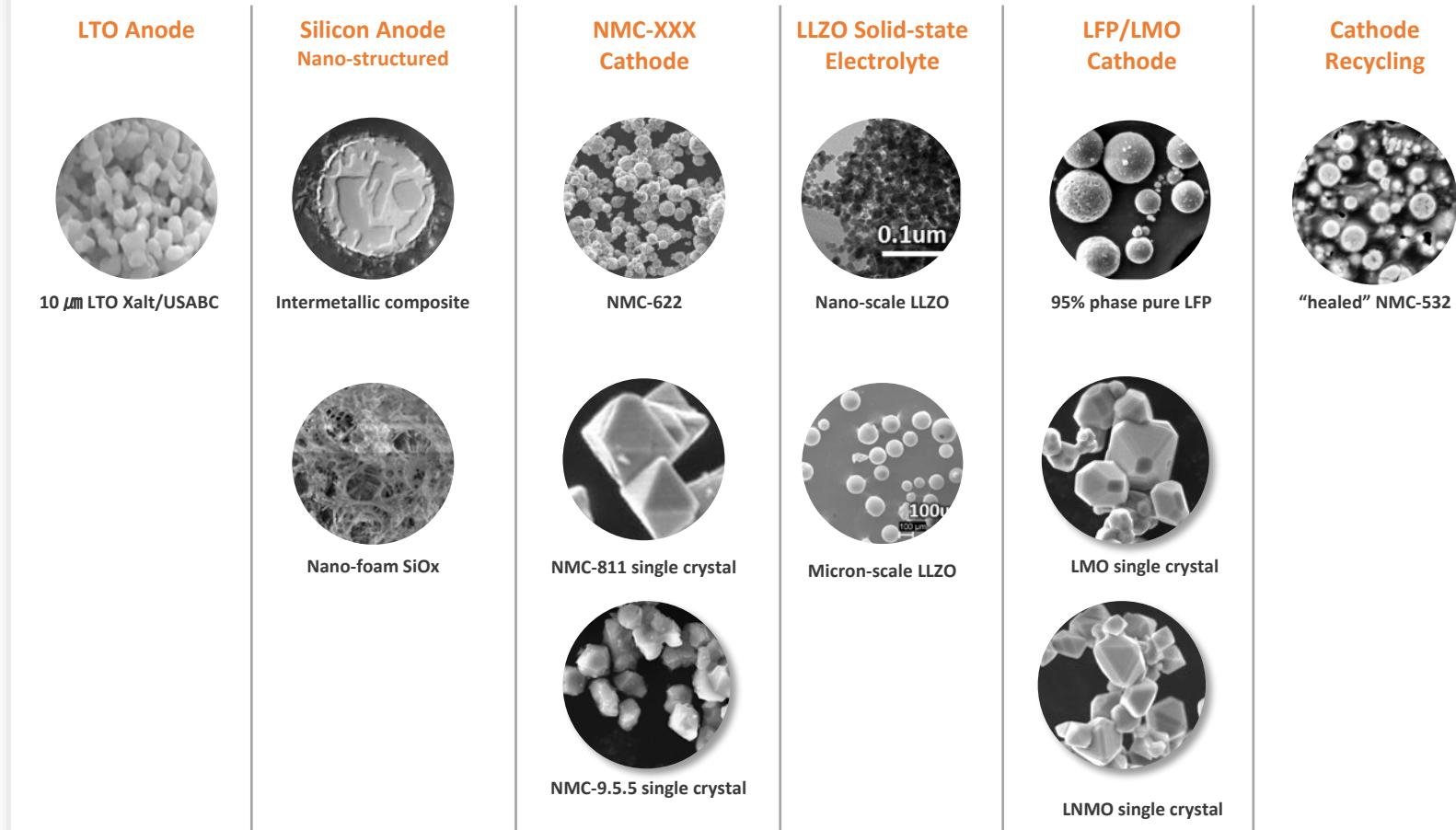
# 6K Can Produce Virtually Any Battery Chemistry With “Digital Tunability”

6K

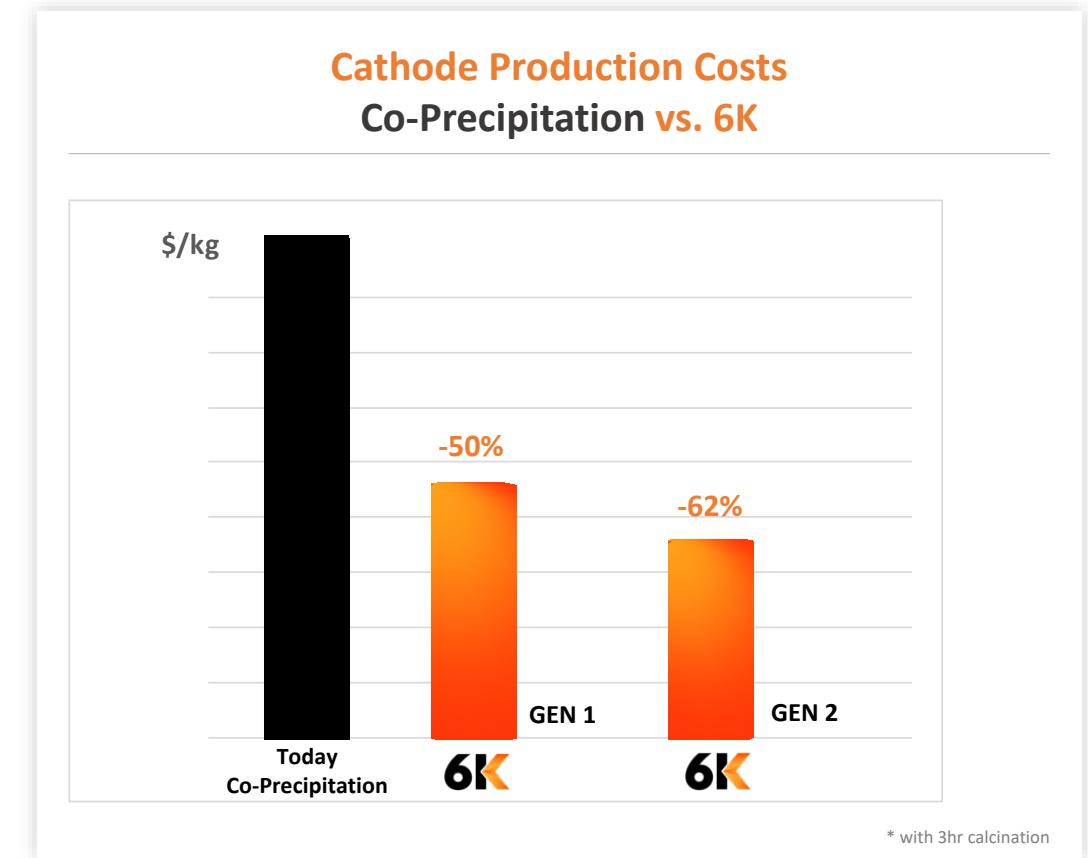
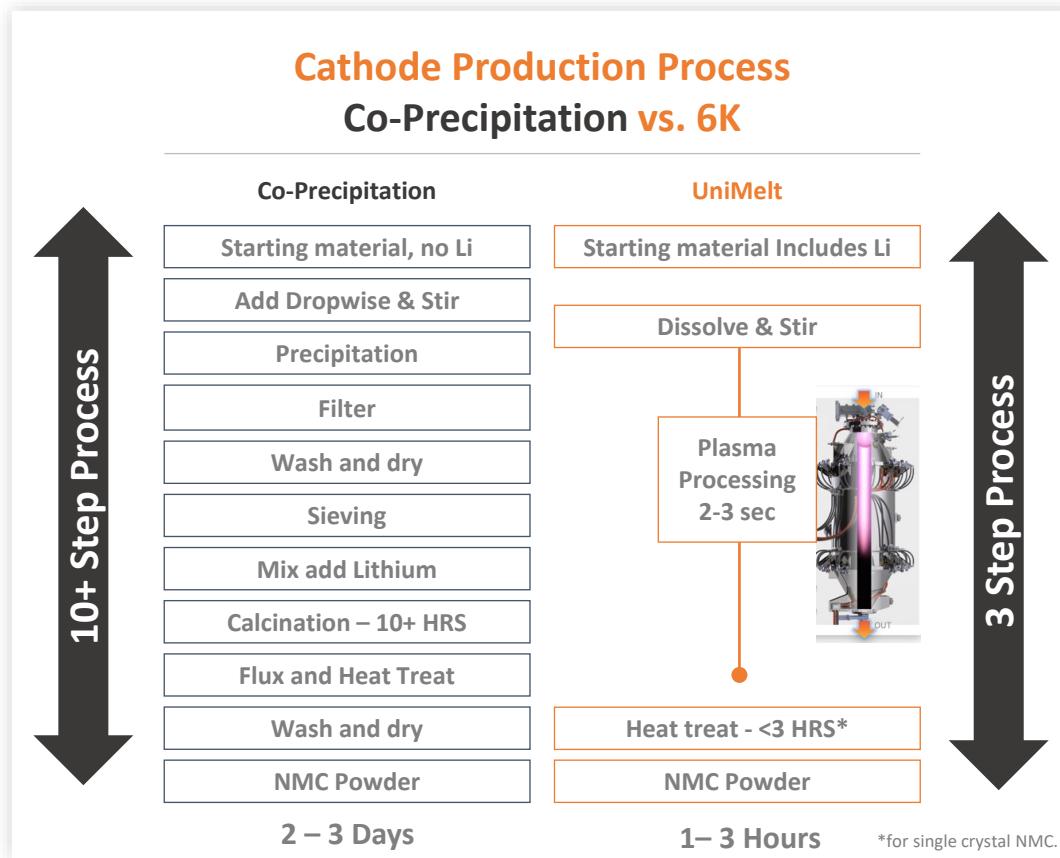
The **UniMelt®** process provides digital “tunability”, to flexibly produce nanomaterials of highly engineered characteristics.



6K's UniMelt® can produce powders for all key material sets now, and in the future



# 6K Transformational Technology Delivers Significant Production Cost Reduction



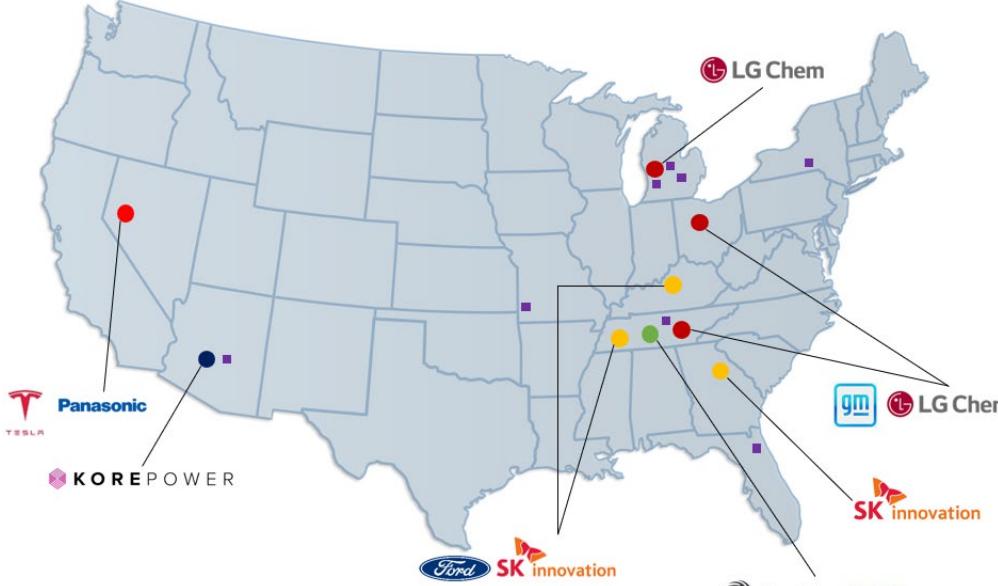
Simplified production process resulting in a **50%-60% reduction** in conversion cost

# 6K Cost and Environmental Benefits Profound for US Electrification

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Virtually 100% waste elimination and more cost effective than China

## Environmental and cost benefits with 6K technology



### Possible Max Benefit Scenario

Announced Installed Capacity: ~400GWh/year

Cathode Powder: Most expensive component (~\$3K/vehicle)\*

## Cost Savings

\$500  
per vehicle\*

\$10B  
over five years

\*Assumes avg battery pack: 100kWh

### 135,000 Olympic Pools

worth of hazardous waste eliminated in this 5-year period  
(338B liters of hazardous wastewater eliminated)

100% reduction

### 122,000 Olympic Pools

worth of water saved over 5-year period due to reduced water usage  
(304B liters of water saved)

90% reduction

### ~30M Tons of CO2 Eliminated

Reduced power usage eliminates the equivalent CO2 emissions

70% reduction

Reduction over conventional cathode production

# 6K's Solution: Leapfrog Legacy Cathode Production

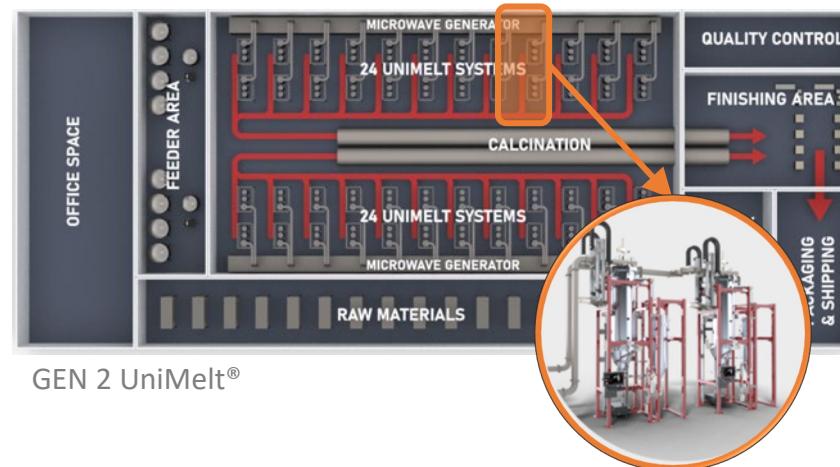


6K's clean, scalable production deployment supports co-location of CAM near partner

50% Factory Footprint Reduction



Modular & Scalable Building Blocks



Redeploy CapEx Effortlessly



## 6K Environmental Impact

**Zero** Hazardous waste (*solid/liquid*)

**90%** Reduction in water usage

**70%** Reduction in power usage & CO<sub>2</sub> emissions

## 6K Economic Impact

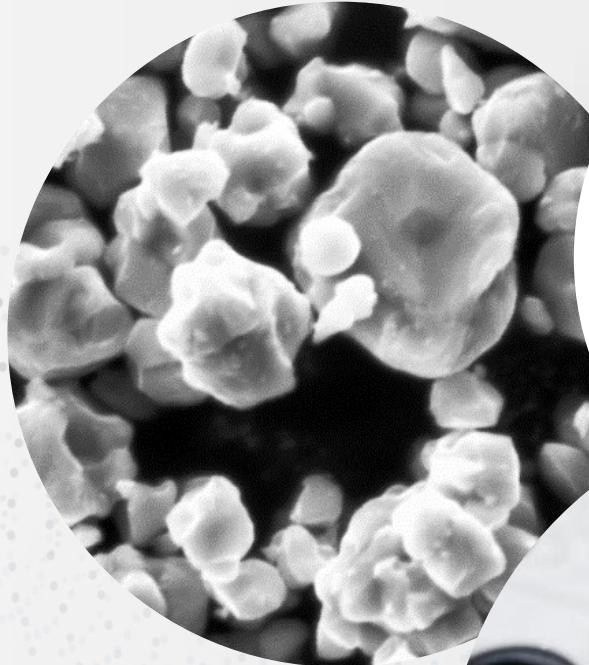
**50%** Smaller production plant footprint

**>20%** Lower production plant CapEx

**50%** Lower production conversion cost

# Thank You

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6K

