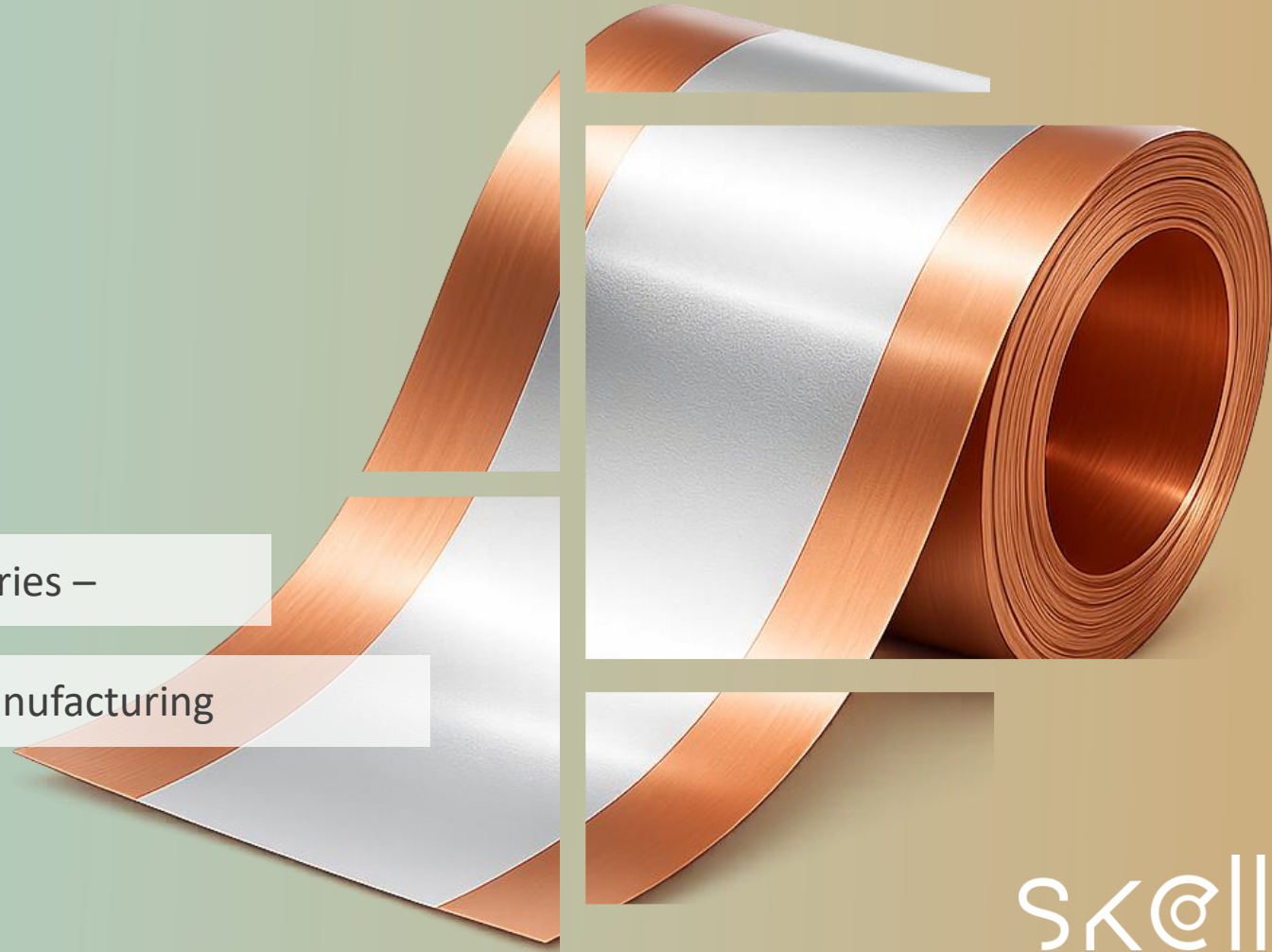


Aachen, September 2026

G. Bockey, J. Gorsch, J. Dietert, H. Minis Pai

Enabling the next generation of batteries –

by scaling lithium-metal electrode manufacturing



skellium

vision

The world needs batteries with higher energy densities

skellium

The diagram illustrates three key applications of batteries with higher energy densities, each represented by a green vehicle or robot, a central box with a symbol and text, and a background image of a truck.

- EVs:** A green sports car is shown in the foreground. The central box contains the symbol >1000 and the text "km". Below the box, it says "EVs. One Charge. No anxiety.".
- Drones:** A green quadcopter drone is shown in the foreground. The central box contains the infinity symbol ∞ and the text "Range". Below the box, it says "Drones reach every target.".
- Robots:** A green humanoid robot is shown in the foreground. The central box contains the symbol $8+$ and the text "h". Below the box, it says "one shift covered by humanoid robots".

status quo

Graphite was never the answer.

It was the compromise.

Lithium metal held ten times the capacity in 1976. Nobody could recharge it safely.

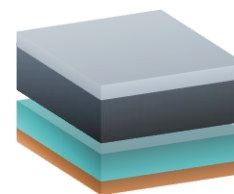
We can.

skellium

10×

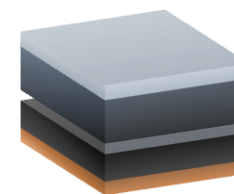
the capacity per gram of anode

Invention 1976



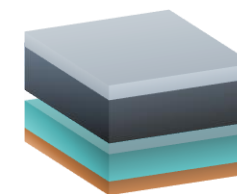
Lithium metal
3,860 mAh/g

Since 1991



Graphite
372 mAh/g

Skellium



Lithium metal
3,860 mAh/g



Sometimes you step back to run.

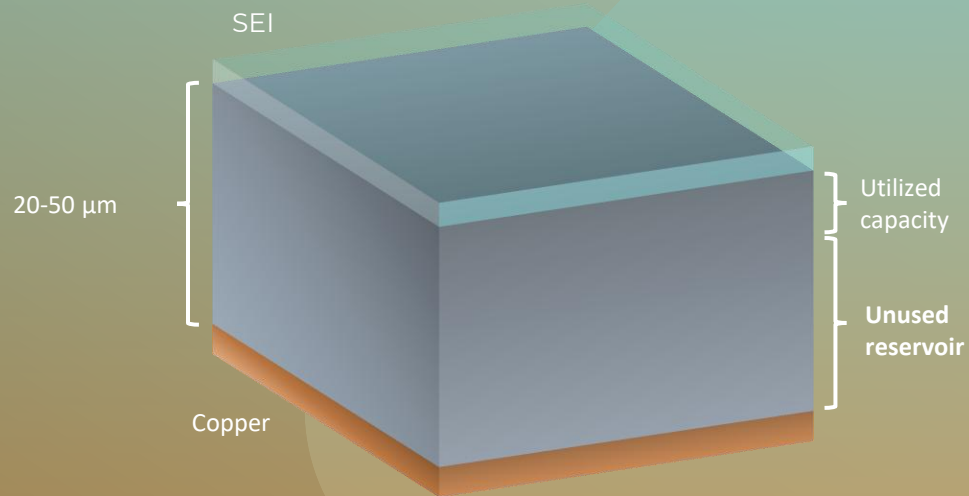
problem

Today's manufacturing processes of lithium metal anodes are too expensive



Lamination

Lithium foil is rolled down to the current collector

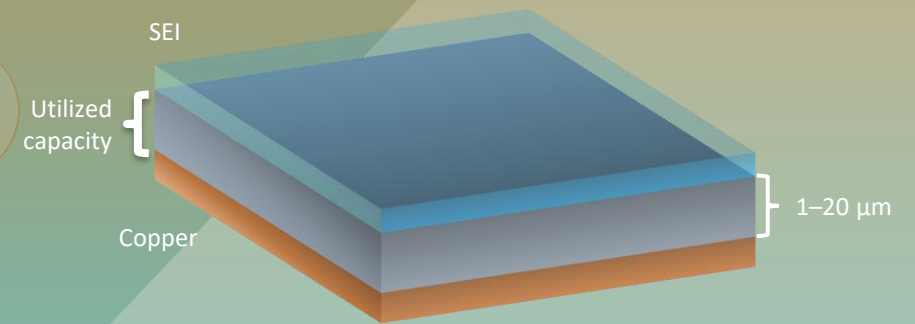


Too thick

- Material waste
- Add-on cost: up to 10€/kWh

Physical Vapor Deposition

Lithium is vaporized & applied on current collector



Too slow¹⁾

- High investment cost
- >700 machines required to meet demand

Lithium
metal anode
manufacturing

our technology

We build lithium alloy electrodes.



— PATENT PENDING —



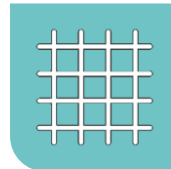
Patent pending Liquid application



Ultra-thin & customizable
thickness of the coating



Alloys are enabled by liquid coating



Higher cycle life: enhanced
bonding of materials & inhibiting dendrites

skellium



technology compatibility

Our lithium-metal anodes integrate seamlessly across any battery platform



Liquid electrolyte –
Lithium-Metal-Anode

*Improved Li-Cu
interface –
suppression of
dendrites*



Solid state –
Silicon Anode

*Pre-lithiation of silicon
anodes to cover lithium
losses at first charge*



Solid state –
Lithium-Metal-Anode

*Scalable production of
ultra-thin lithium anodes*



Lithium sulfur

*Scalable production of
thicker lithium anodes*



Lithium air

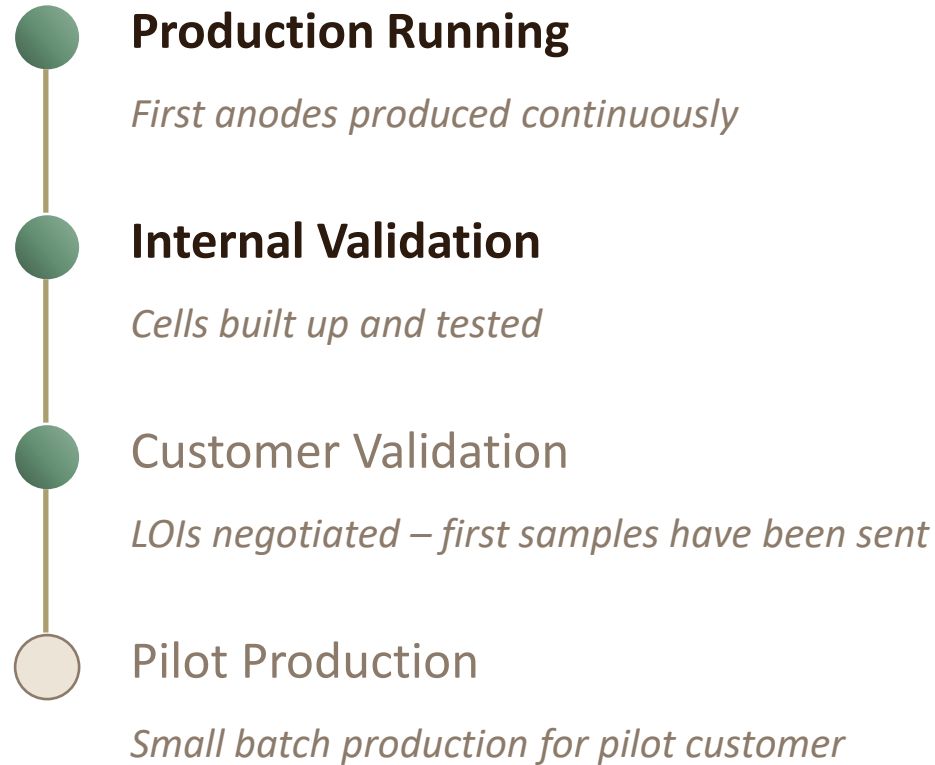
*Scalable production of
thicker lithium anodes*

Today

2035+

status & outlook

We are building this future right now



skellium

Meet the Team



Jonas
CEO · Industry & Sales



Gerrit
CEO · Production & Scale



Junia
CTO · Electrochemistry



Hendrik
CFO · Investor relations

Interested?
Let's connect!

Schedule a meeting with us:



hendrik@skellium.com
+49 160 95175727



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Prices and recognition

2026



Made in Germany Award – among top 3 start-ups



TUM Accelerator (XPREENEURS)
– participation in batch 20



High.Tech NRW Accelerator
– participation in batch 9



Senkrechtstarter Award
– sustainability price



Female founders contest NRW
– 2nd place

2025



ChioTech
– 350 k€ investment price



RWTH Fast Forward Award
– 1st place

Gefördert durch:



aufgrund eines Beschlusses
des Deutschen Bundestages