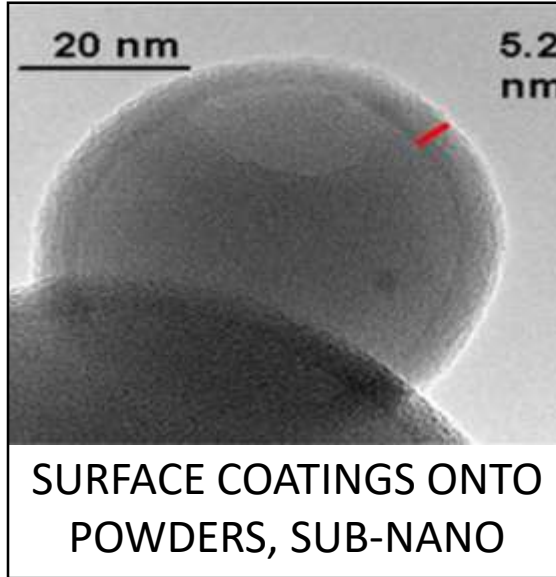


Company

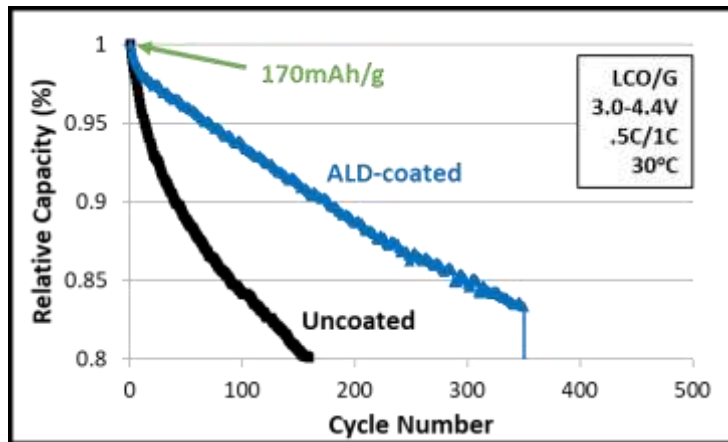
- Founded in 2013
- End-to-end materials solutions
- From lab to commercial-scale
- Scaling a platform technology
- Sub-nano surface control
- Enhancing materials in **many markets** to improve product performance
- 2019 VW Investment



www.volkswagenag.com/en/news/2019/01/Volkswagen_invests_in_US_start-up_Forge_Nano

ALD for Batteries

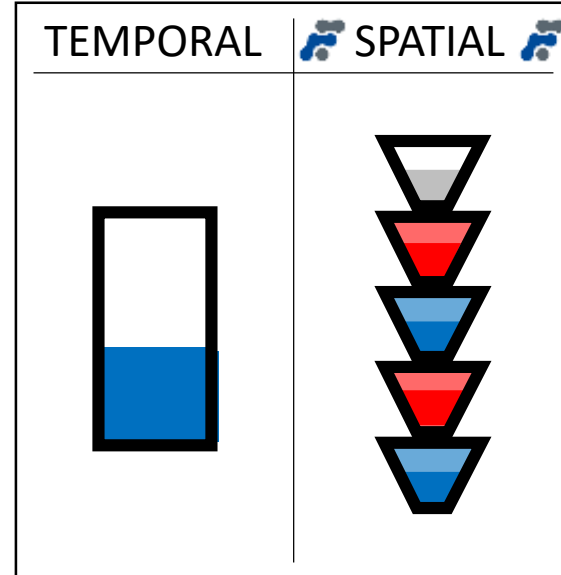
- Higher energy density, longer life, improved safety, faster charging
- Projected lower pack costs even with added process



Cathodes: LCO, NMC, NCA, LMNO, LMO
Anodes: Graphite's, Si's, Li-metal
Other: Solid-state, Li-S, Zn, Pb, Na, Mg

Technology

- Atomic Layer Deposition (ALD)
 - Elegant but **historically VERY high cost**
- Paradigm-shift to new high throughput "spatial" method for **low cost ALD**
- Comprehensive IP portfolio across methods, markets, and coating types



Business Model

- **R&D Services** – We'll design your coating
- **Tolling** – We'll coat your material (mg to **kton**)
- **Tooling** – We'll sell you a tool (Lab to Commercial)
- **Licensing** – We'll provide access to IP

