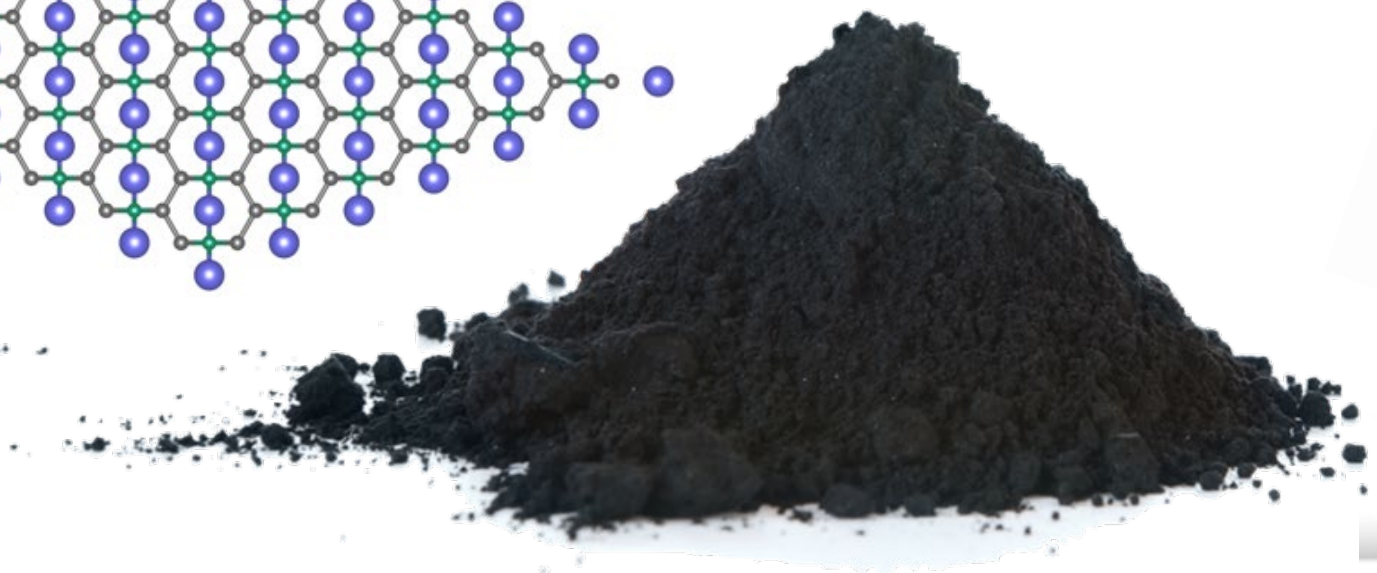
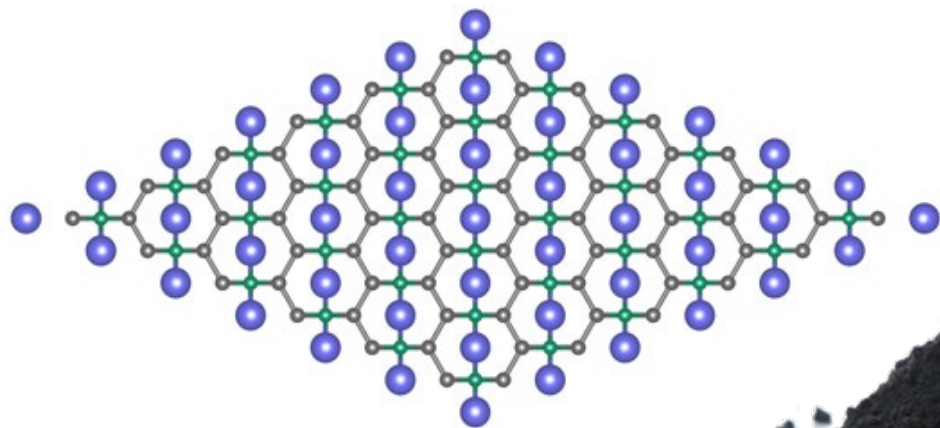




REVOLUTIONARY MATERIALS FOR EVOLUTIONARY SOLUTIONS



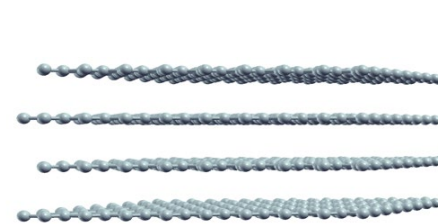
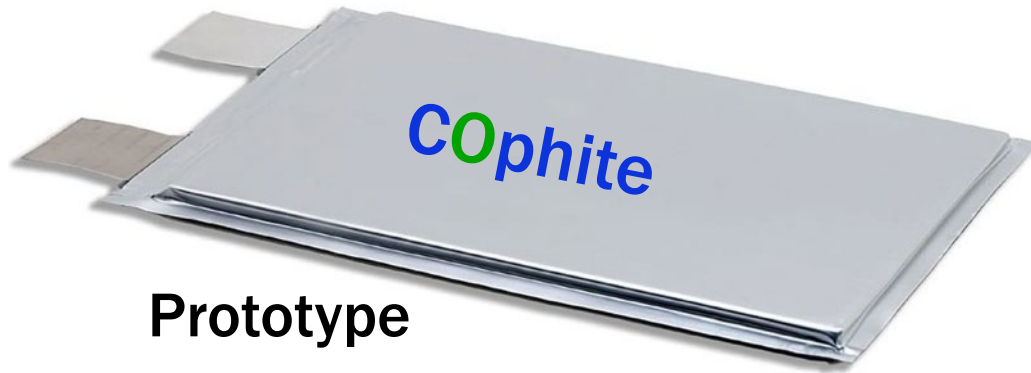
Carol Hirschmugl, PhD

dr.carol.h@conovateinc.com

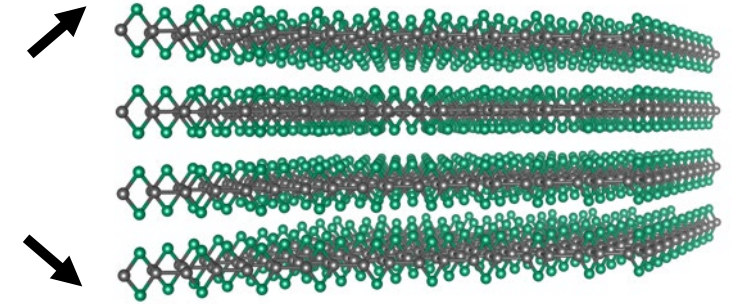
414-248-0846

www.CONovateInc.com

LARGER SPACING AND OXYGEN ENABLE BETTER PERFORMANCE



Graphene Layers
in Graphite
372 mAh/g (LiC_6)



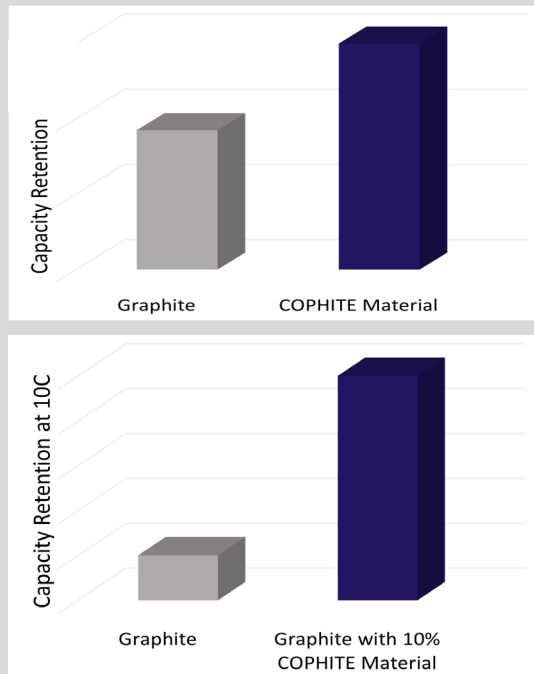
Graphene Monoxide Layers
in COpwhite Material

Graphene Monoxide:
957 mAh/g ($\text{Li}_2\text{C}_2\text{O}_2$)*

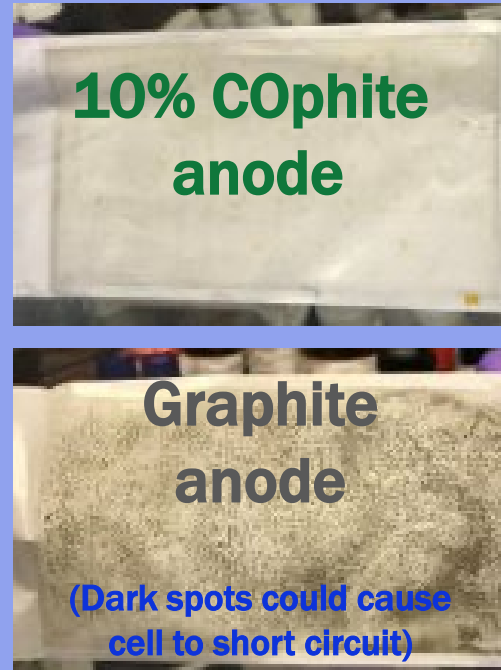
Large spacing between the carbon layers makes it easier for the lithium to move in, and oxygen sites for binding lithium

PATENTED COPHITE™ MATERIAL OFFERS SIGNIFICANTLY BETTER BATTERY PERFORMANCE, SAFETY AND SUSTAINABILITY

Higher Capacity (2x)
Faster Charging (6x)



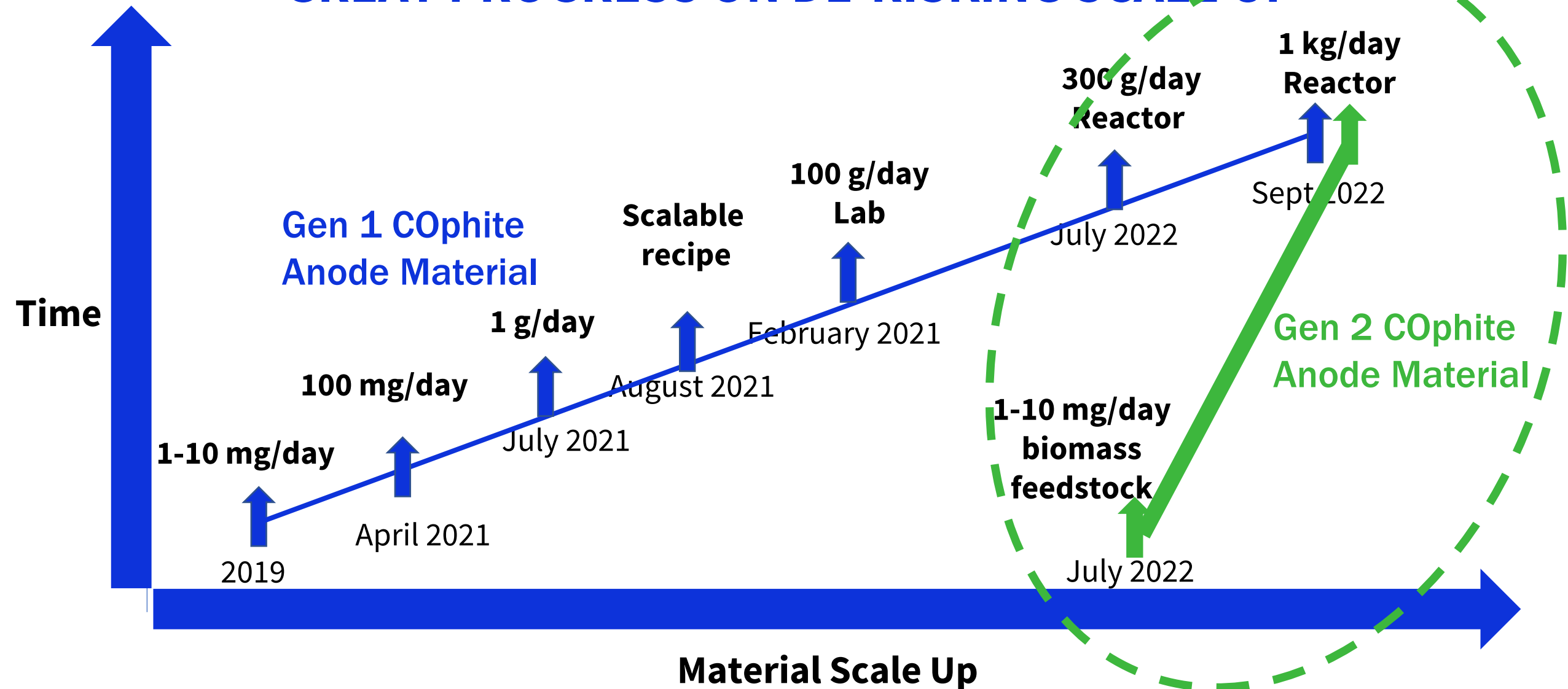
Better Safety after Low Temperature Operation



Can be derived from inexpensive, natural sources

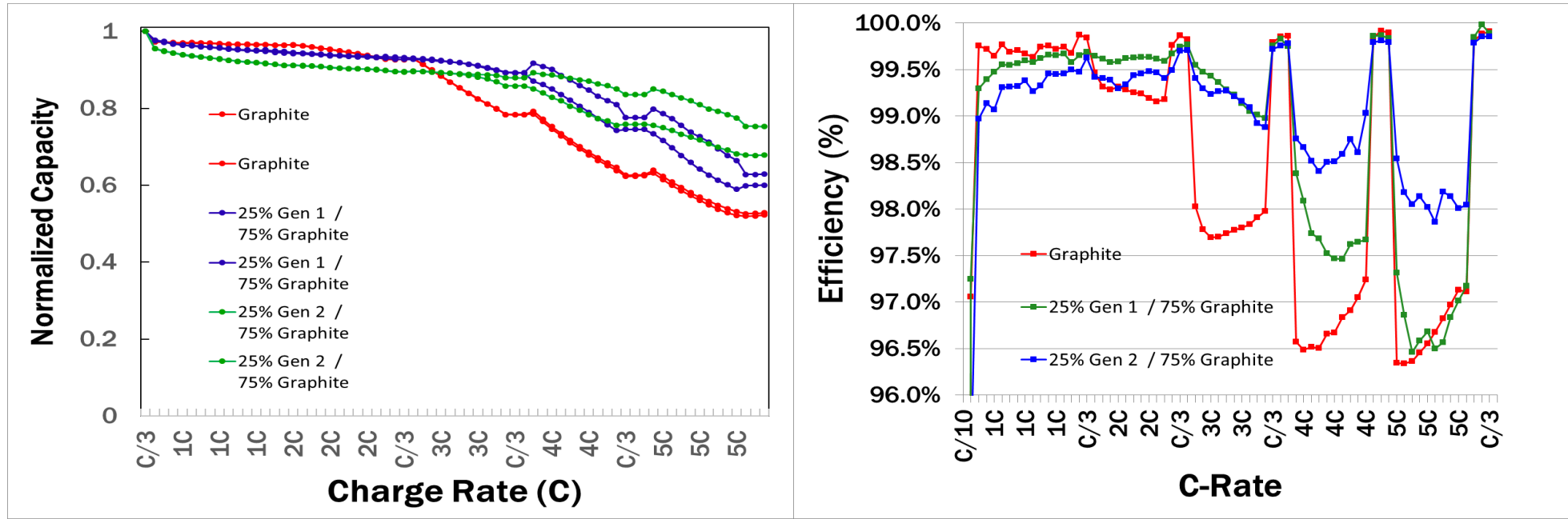


GREAT PROGRESS ON DE-RISKING SCALE UP



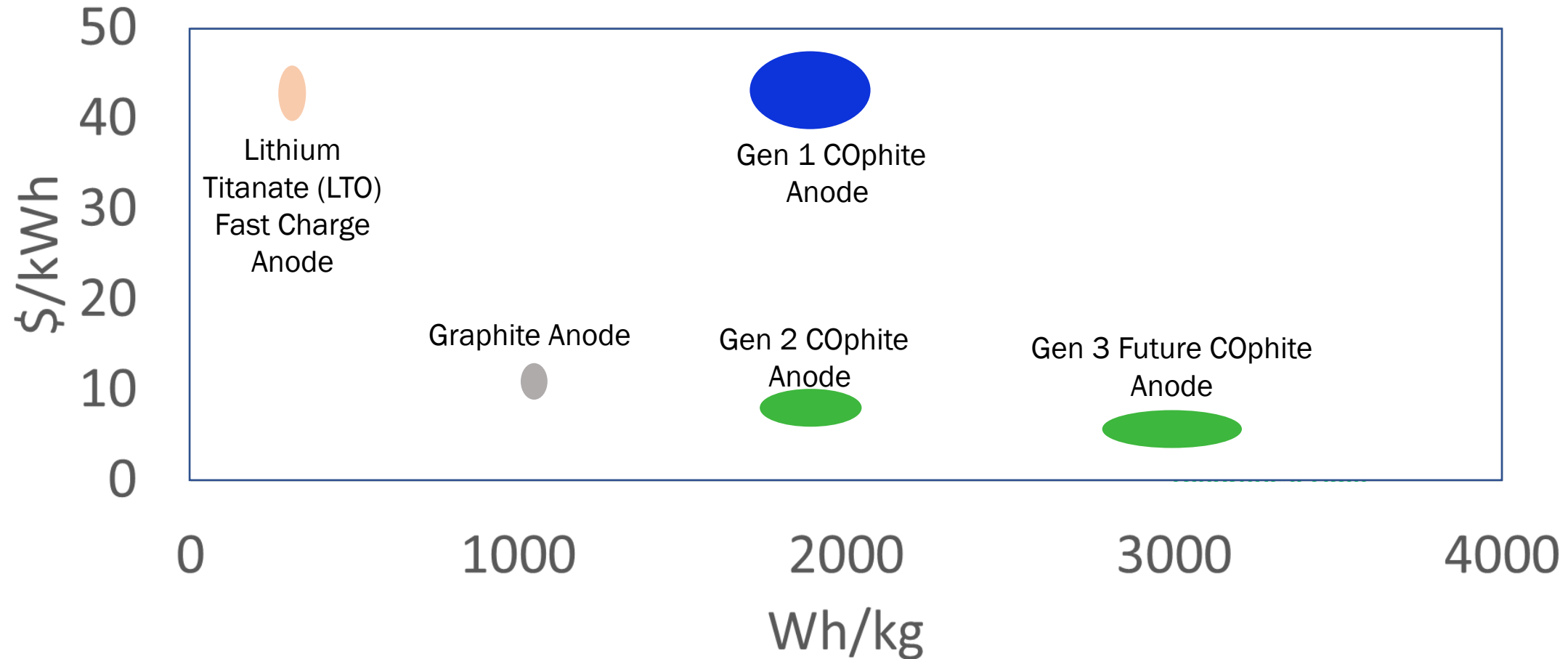
3rd party battery validation: Material Quality HIGH

SINGLE LAYER POUCH CELL PERFORMANCE

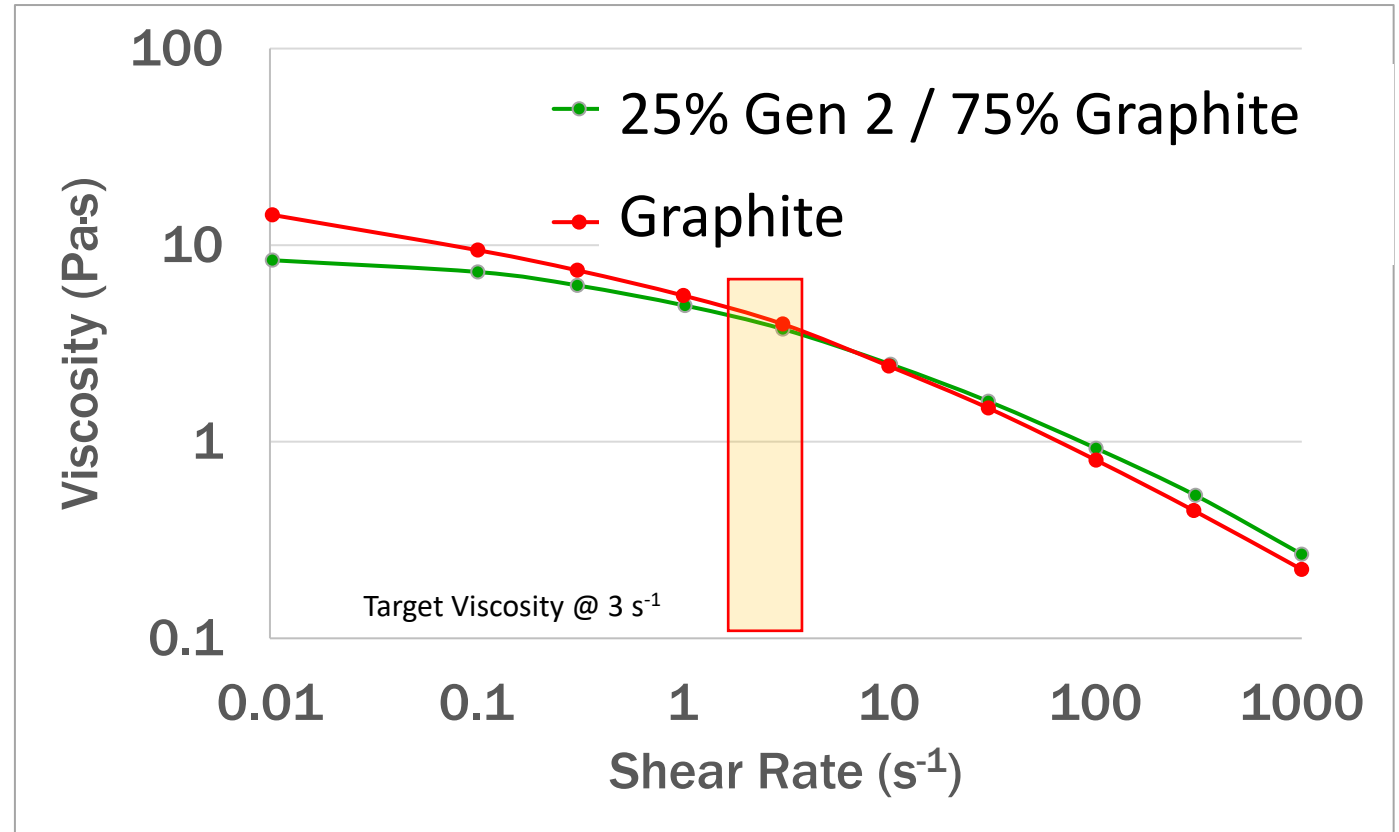


Remaining challenge: Leveraging \$1M NSF SBIR Phase II
to address 1st cycle irreversible loss

COPHITE ANODES ARE COST COMPETITIVE WITH INCUMBENT GRAPHITE



COPHITE MATERIAL WORKABILITY



COpHite material has desirable viscosity

SUMMARY

- Patented COphte material has demonstrated good capacity, fast charging, workability and safety
- COphte is compatible with incumbent materials (graphite) and anode processing with existing infrastructure
- We are developing and scaling a cost effective, domestic solution into the anode materials marketplace

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