



Battery Innovation Group

Dirk Van Hyning, CCO

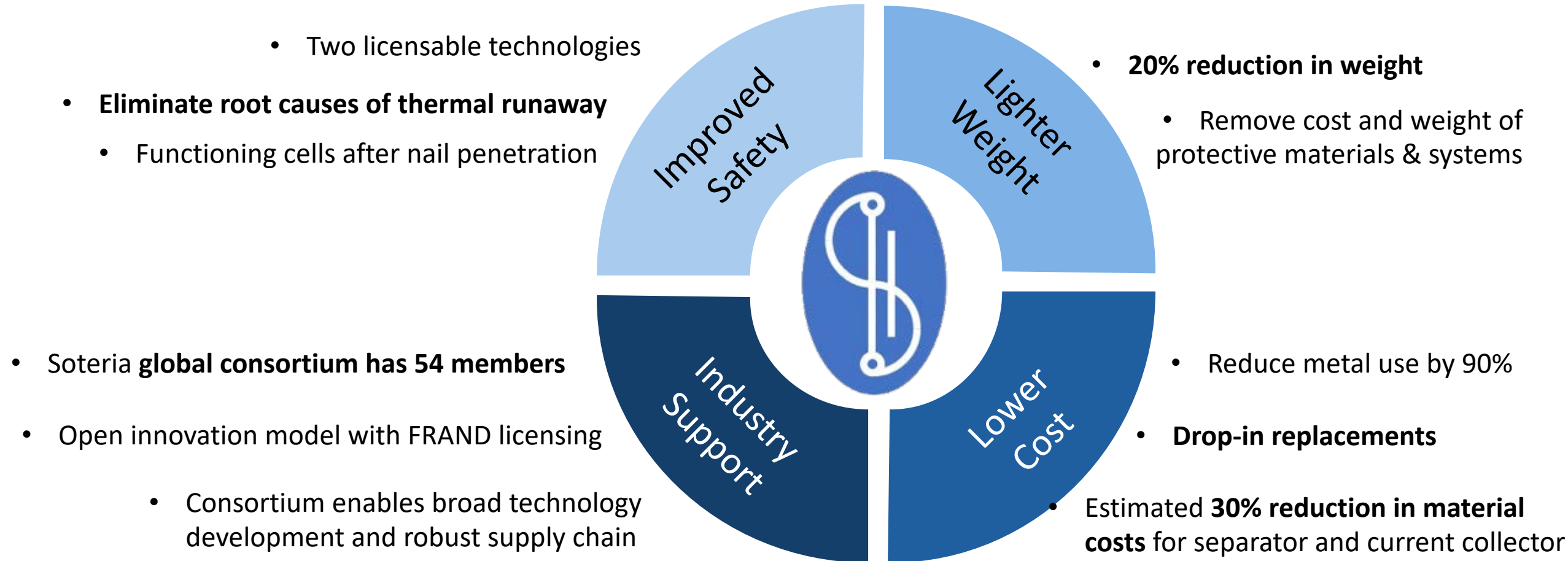
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SOTERIA VISION

To eliminate fires in all
lithium batteries, forever.

The Soteria Value Proposition:

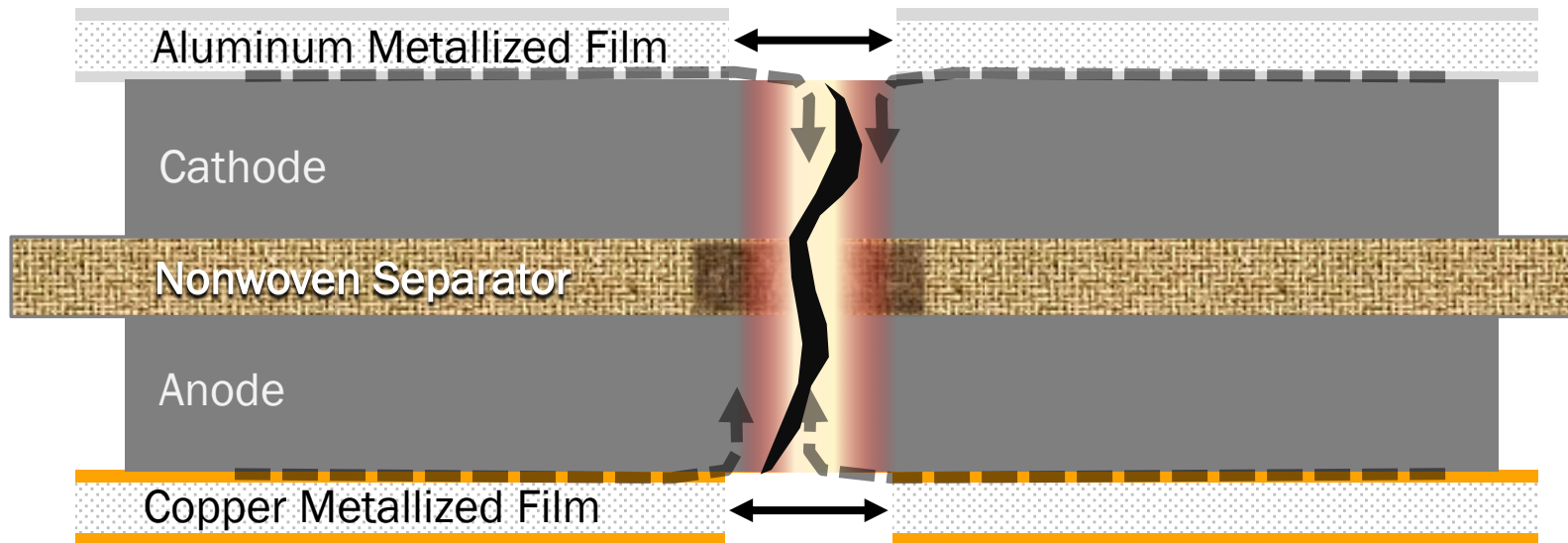
Safer, Cheaper, Lighter and Industry Supported



The Soteria Technologies

Mechanism of Eliminating Thermal Runaway

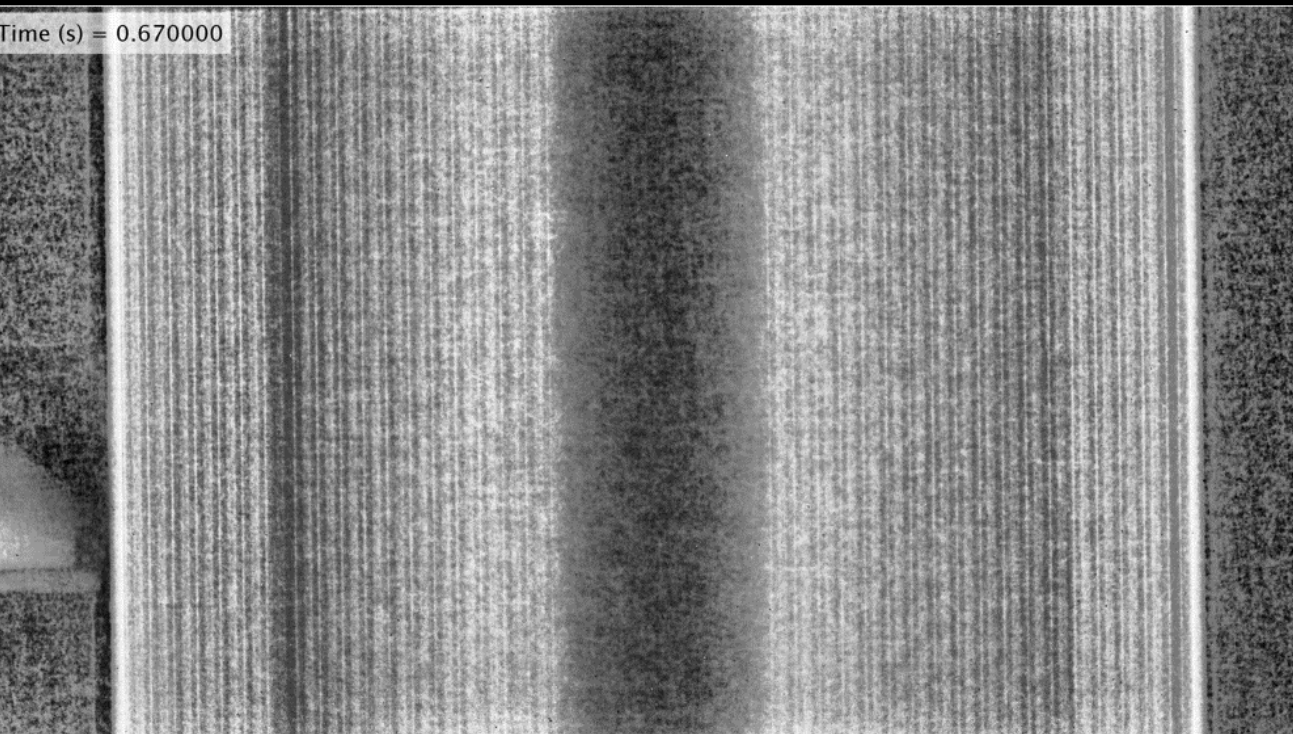
Dreamweaver Separator will char but not retreat from a short.



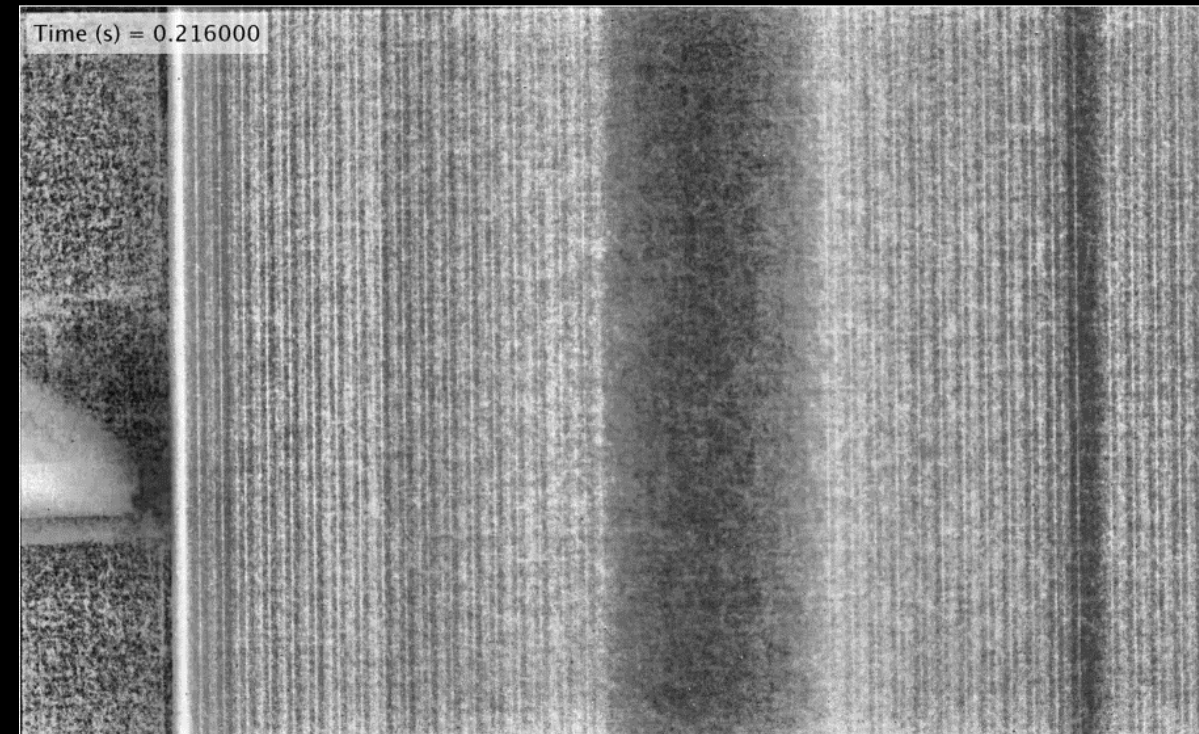
Soteria current collectors oxidize and retreat from short, acting as an internal fuse.



Do polymer collectors help protect against mechanically-induced thermal runaway?



2.1 Ah Cell – 100 % SOC (4.2 V)
Standard materials
Without ISC device



2.1 Ah Cell – 100 % SOC (4.2 V)
Al coated polymer current collector
Without ISC device

Watch Video: <https://youtu.be/LhlaHTKIggc>

Watch Video: <https://youtu.be/uIAPoho44tM>

The Soteria Consortium Model:

Bringing Expertise Throughout the Supply Chain

Separator Members

Equipment/Raw Materials



Paper Manufacturers



Current Collector Members

Equipment/Raw Materials



Metallizers



Cell Level Members



Pack Level Members



End User Members



Labs and Other Members



*Click on a company's logo to learn more

Soteria BIG: What we are doing now?

CONSORTIUM GOALS

- License technology
- Aggressive safety standards
- Associate brand with safety

2020-21 Commercialization

- Scale materials, cells, packs for
- E-bikes, scooters, fork trucks, power tools, industrial electronics





Thank you!

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