

Phinergy The Future is in the Air

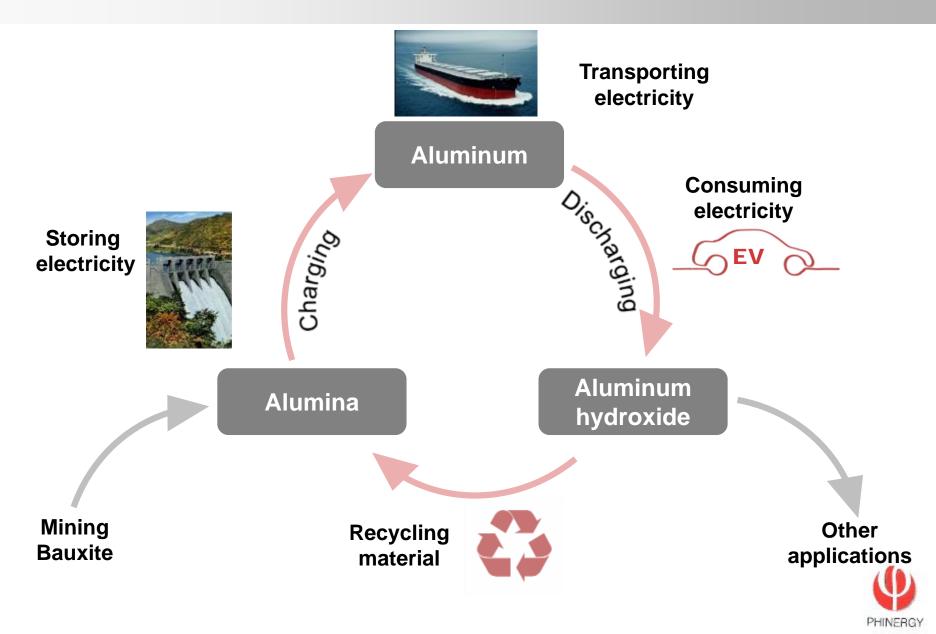
PRESENTATION AT ON DEMAND MOBILITY AND EMERGING AVIATION TECHNOLOGY

Avi Yadgar

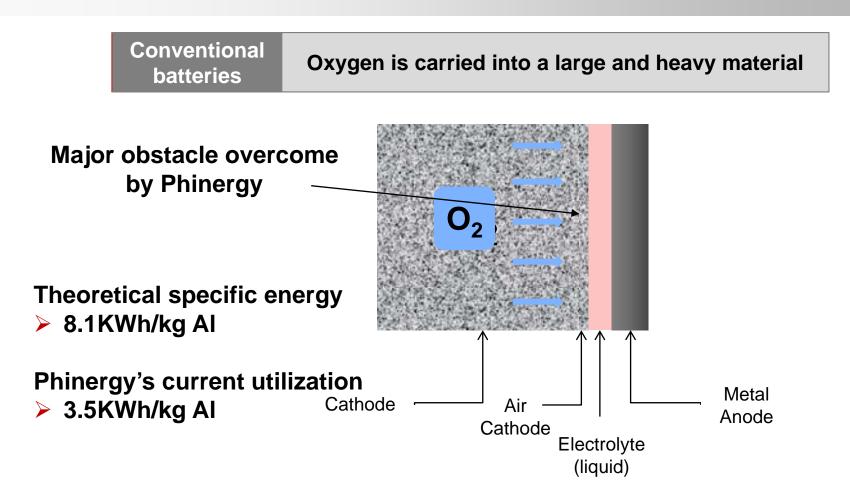
OCTOBER **21**ST , **2015**



Aluminum is a means to store and transport energy



Metal-Air: Lighter batteries breathing the air



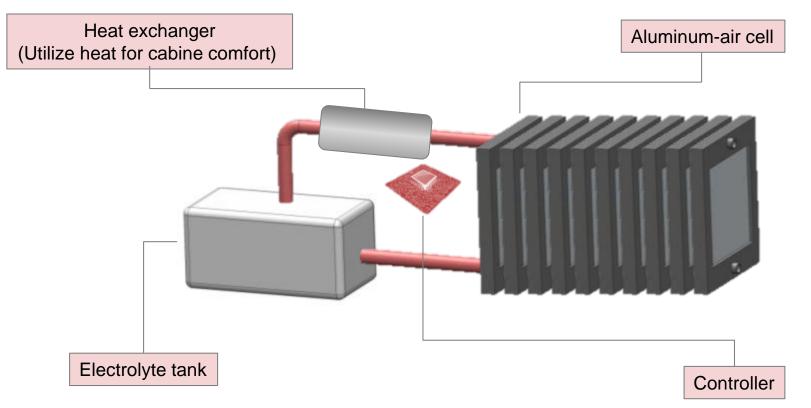
 $4\text{AI} + 3\text{O}_2 + 6\text{H}_2\text{O} \rightarrow 4\text{AI(OH)}_3 + 2.71 \text{ V}$





Aluminum-Air Energy Core - Topology

High level architecture



- Quick electrolyte replacement
- Quick anode reload
- No prolonged rechage

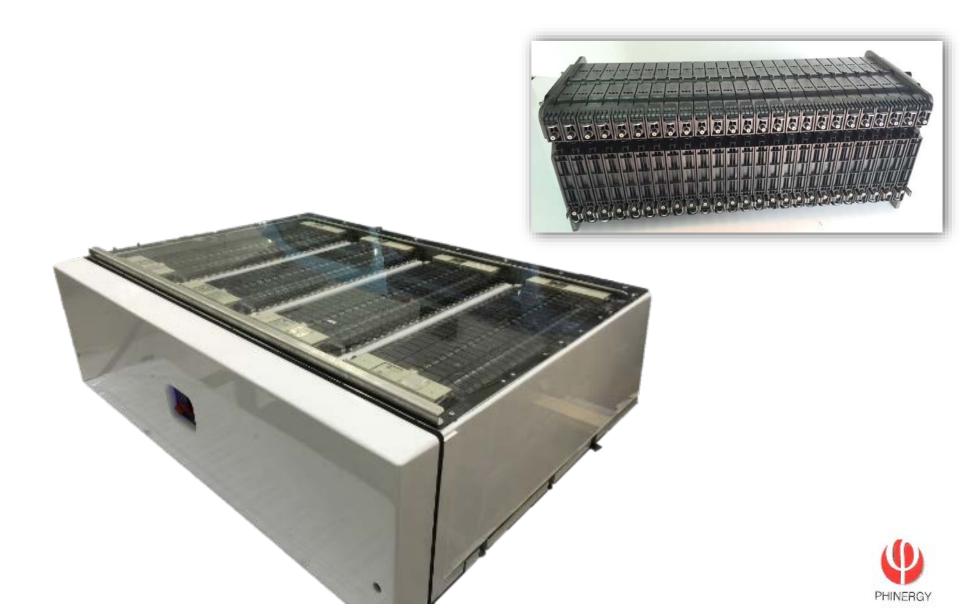


New Aluminum anode vs 90% depleted anode

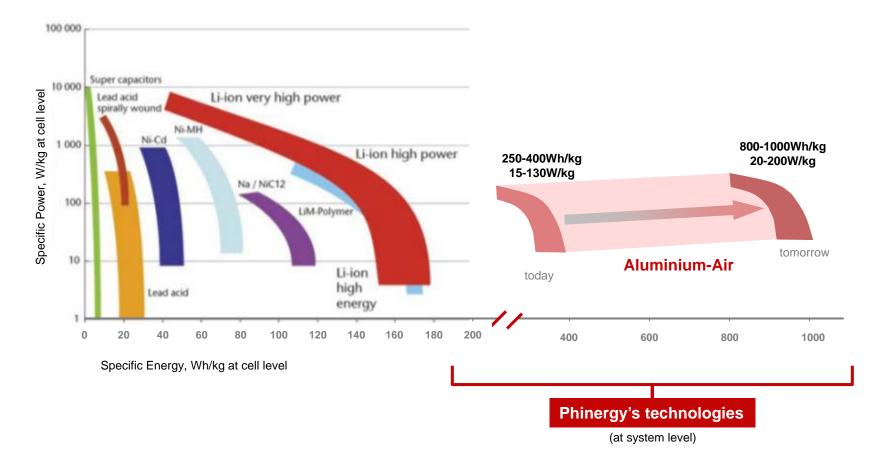




Phinergy's aluminum-air battery



Phinergy's technological roadmap targets





Phinergy – timeline

