

INVESTOR PRESENTATION

October 2017

*Battery technology that will
revolutionise the global
battery market*



ULTRACHARGE

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UltraCharge is a battery technology company which will revolutionise the global battery market

ASX Code: UTR

Total shares on issue: 635 m

Escrowed shares on issue: 25%

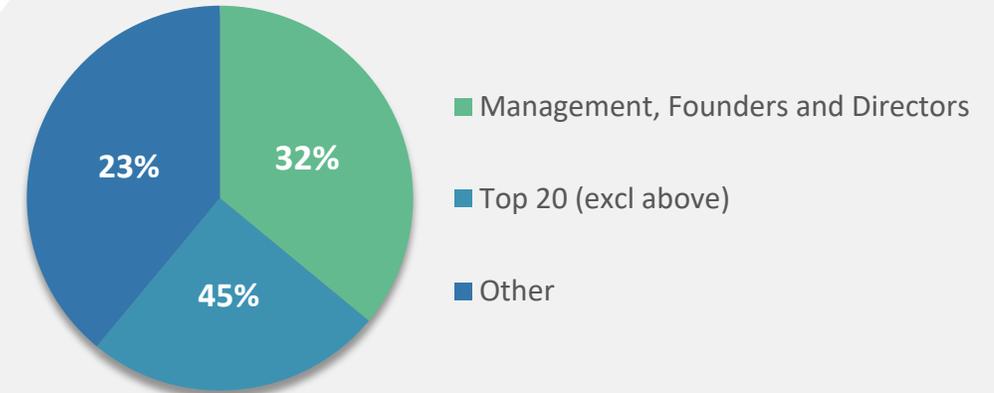
Performance rights: 41 m

Options: 82 m

Market Cap. @ 2.5c: A\$15.9 m

Cash (30 Jun 17): US\$1.8 m

CAPITAL STRUCTURE





Doron Nevo,
Chairman

Over 30 years experience in the high-tech industry. Co-founder & CEO, KiloLambda. CEO of NKO and of Clalco. BSc in Electrical Engineering from the Technion. MSc in Management from NYU



John Paitaridis

25 years executive experience. Optus managing director. Member of Australia's Institute of Company Directors. Chairman, Australia's Information Industry Association. Bachelor of Economics.



Kobi Ben-Shabat,
Co- Founder & CEO

Vast leadership experience. Founded OPS, with annual sales of \$14M, acquired by ASX listed Hills Limited. Holds an BA and MBA in Marketing and Information Technology.



David Wheeler

Over 30 years in executive positions. Experienced director & corporate advisor. Fellow of the AICD, Director of several ASX listed companies.



Sharon Ben-Shabat
VP Operation

Over 17 years of experience in senior management of operation & manufacturing. Global design transfer management & NPI programs in multi locations with most advanced technologies. Extensive practice with Lean & SIX sigma methods. BA Studies from Haifa University



Danny Hacoen,
VP Marketing, Sales, Bus. Dev.

Over 25 years in high-tech. Multiple senior positions in business operations. BA in Social Science & Mathematics. MBA studies, University of Bradford.



Dr. Linoam Eliad,
VP, R&D

15 years in R&D of nano-materials for batteries and super capacitors. Lead projects for large corporations, smaller start-ups, & US Air Force. PhD in Physical Chemistry & Electrochemistry from Bar-Ilan University, Israel.



Prof. Chen Xiaodong,
Advisor

Associate Professor, School of Material Science and Engineering, NTU, Singapore. Domain expert in nano-bio interfaces & programmable materials for energy conversion.

TECHNOLOGY TO ENHANCE ENERGY STORAGE IN LITHIUM-ION AND FLOW BATTERY MARKETS

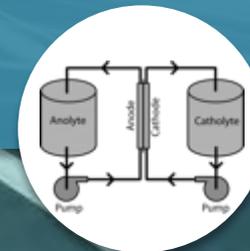
ANODE TECHNOLOGY

- New Lithium Ion Battery Technology
- Exclusive license to patented anode technology from the Nanyang Technology University in Singapore (NTU)



IRON FLOW BATTERY

- New Battery Storage Technology
- Exclusive license to patented iron flow battery technology from Epsilor
- This technology will allow efficient use of renewable energy production





ADDRESSABLE MARKET

- US\$93.1 billion lithium-ion battery market by 2025 [*Grand View Research*]
- US\$185 million flow battery by 2020 [*Businesswire*].



ON TRACK

- Shipment of anode material for commercial clients by end of 2017.
- Likely production of 1000mA/P pouch cell battery by end of 2017.



EXCELLENT DEVELOPMENT RESULTS

Working on increasing production efficiencies to meet customer requirements



MARKET DRIVERS

Massive increase in demand due to growth of renewable energy, consumer demand for faster charging, longer lasting batteries



KEY PARTNERSHIPS

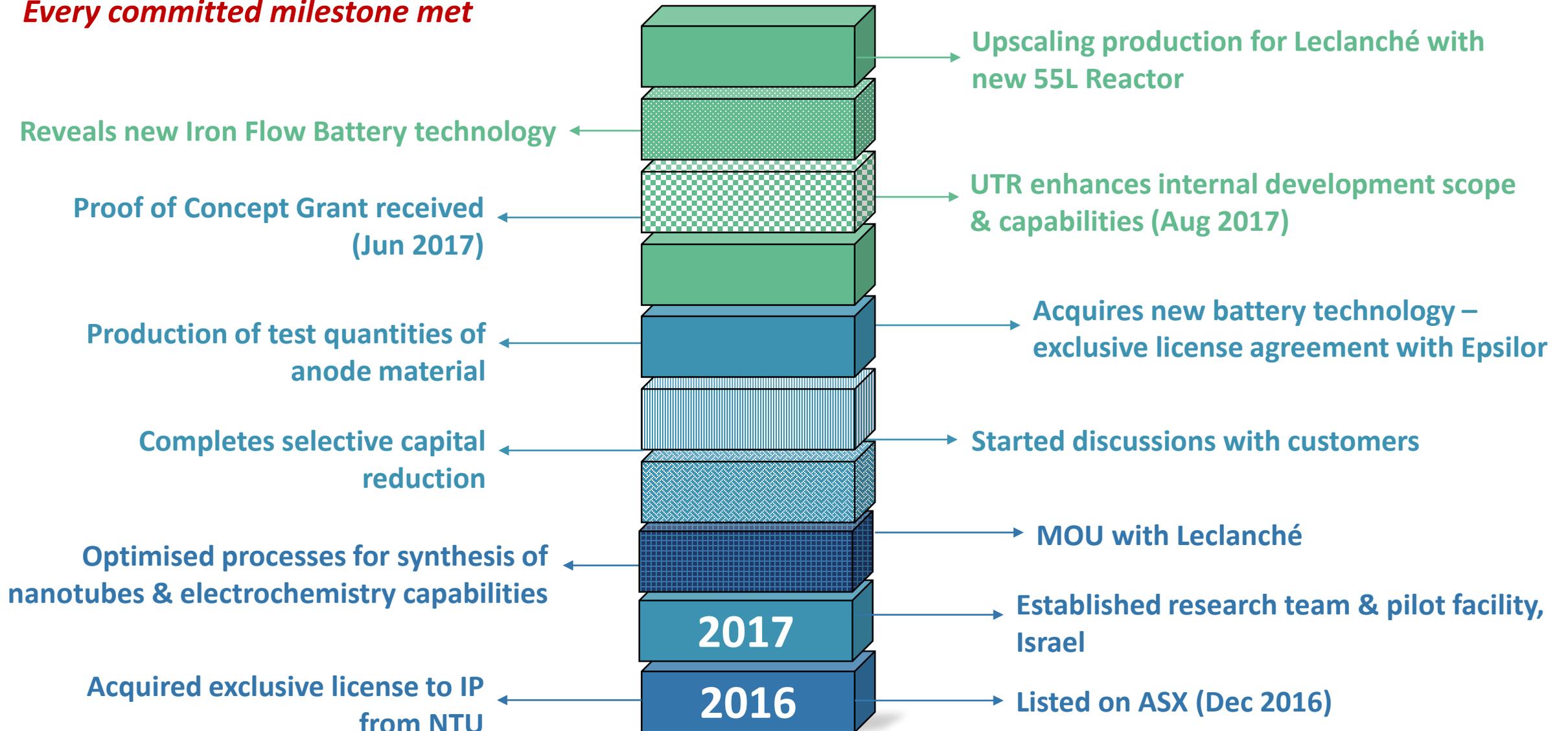
In place with NTU, Epsilon and Leclanché.



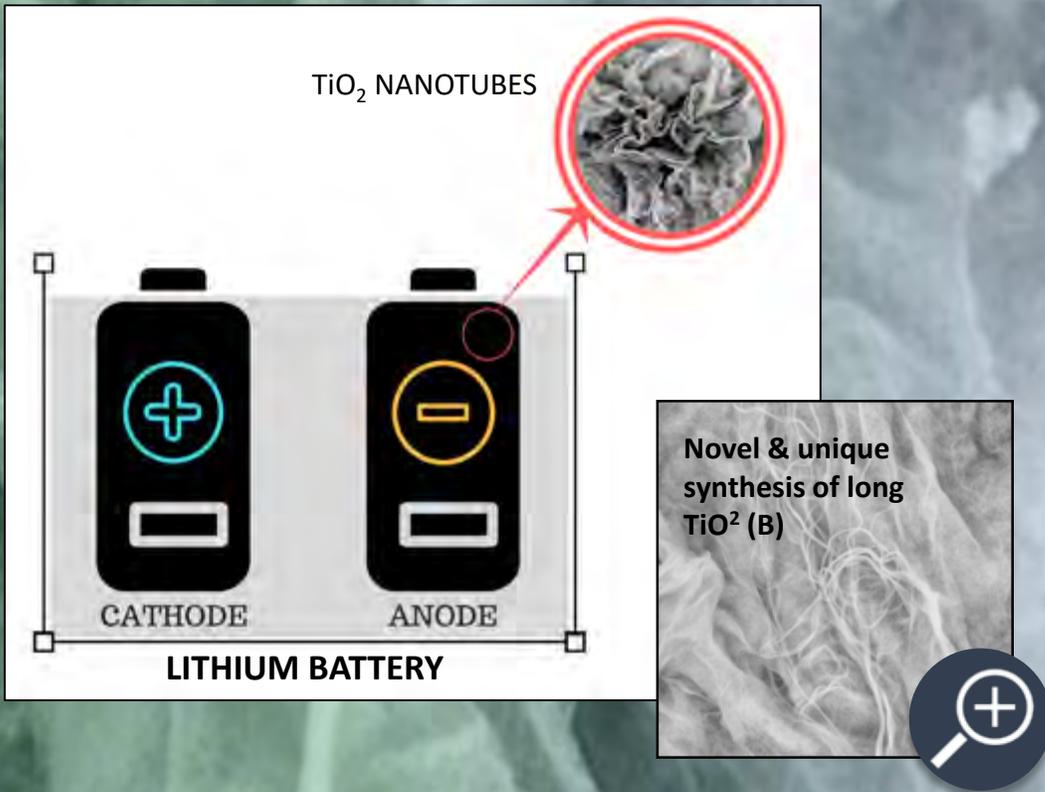
LEADERSHIP & MANAGEMENT

Experienced team with key expertise in battery technology

Every committed milestone met



Breakthrough technology for lithium batteries replaces graphite used for the anode (negative pole) with UltraCharge's nanotube gel material made from titanium dioxide (TiO_2).



Significant benefits over current anode materials:



RAPID CHARGING

Smartphones: 70% charged in <6 mins
Electric cars: dramatic increase in capabilities with just 10-15 minutes charging



COST EFFICIENCY

Use of raw materials and patented affordable production method



ENHANCED SAFETY

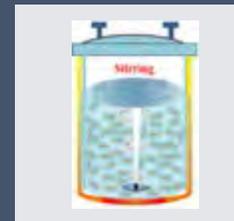
Less carbon in batteries = No thermal runaway & overheating – safer than traditional lithium-ion batteries



LONGER LIFE CYCLE

Handle 20 times more charging cycles than today's batteries (between 10,000 and 20,000 charging cycles)

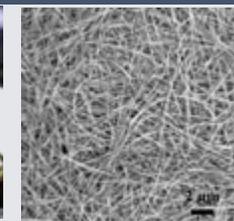
The Innovation:



Patented technology low cost raw material. Simple hydrothermal stirring



TiO_2 nanotube gel



Electron microscopy of titanium dioxide nanotubes



Graphite replaced by titanate powder

UTR'S TECHNOLOGY IS AN IMPROVEMENT ON CURRENT ANODE TECHNOLOGIES

	Capacity (mAh/g)	Typical Charge Time (hours)	Cycle life	Safety	Cost	Technology Complexity
UTR's Nanotubes (Titanium Dioxide)	~250	0.02	> 10000	Medium	Low - Medium	Market Standard
Graphite	< 350	> 2	< 1000	Low	Low	Market Standard
Silicon	400 – 2500	2 - 3	700 - 1000	NA	Low	High
LTO	~ 170	0.02	7500	Medium	Medium	Low

Global lithium-ion battery market expected to reach **US\$93.1 billion by 2025**, growing at a CAGR of 17%
[Grand View Research].



ELECTRIC VEHICLES



PORTABLE CONSUMER ELECTRONICS



GRID STORAGE SYSTEMS

High drivers of lithium-ion battery demand *[EPS News]*

Immediate market is electric vehicles and industrial applications:



CARS



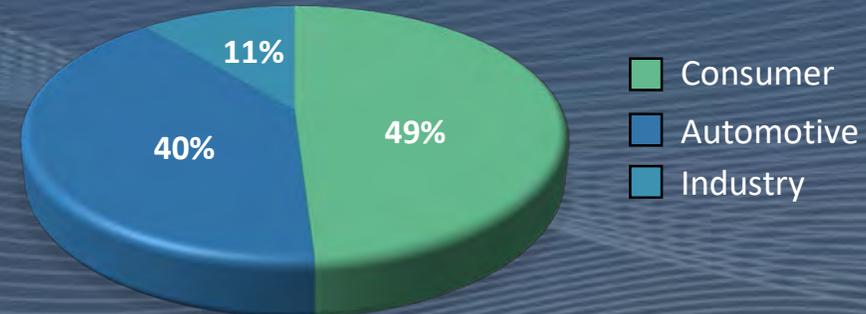
BUSES



FORKLIFT

Electric vehicle market predicted to be worth US\$731 billion by 2037
[Global Newswire]

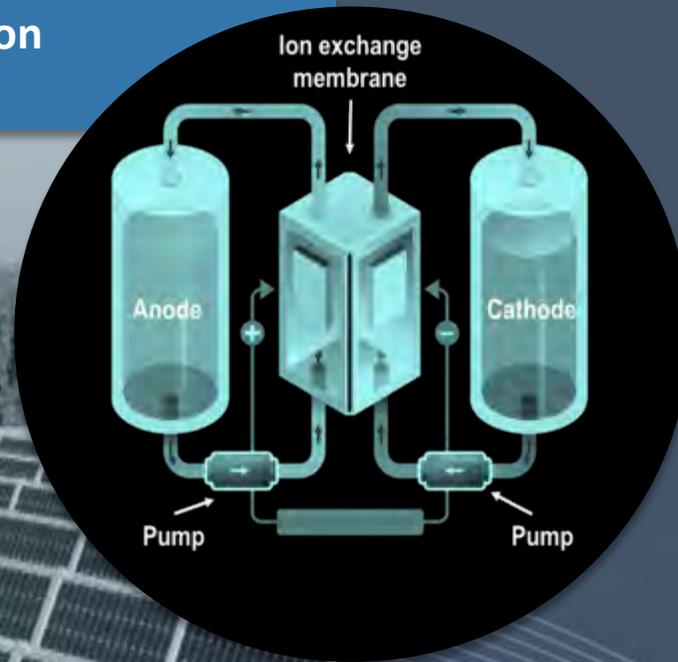
Global Lithium Market*



**IDTechEx Research report, Lithium-ion Batteries 2016-2026*

High power density flow battery based on breakthrough Nano-iron anodes

- Storage of billions of Watt-hours from renewables
- Load shifting to peak demand
- Efficient utilization of production
- UPS for large users and long times



ADVANTAGES

- Very high MW capabilities
- Low installation cost - \$250/kwh vs CAPEX: ~\$200/kwh DC
- Long term stability
- Safer & more environmentally responsible than traditional lithium-ion batteries
- Low manufacturing & running costs – lifecycle costs by 2020: 13c/kwh vs Telsa’s PowerPack: 15-16c/kwh
- Ability to supply 4-12 hours continuous power without recharge

Energy storage systems expected to witness fastest growth over forecast period at CAGR of 21% from 2017-2025 [EPS News].

MARKET



Electrification of Rural Areas - \$154B



Replacement of Gensets on Remote Islands - \$18B



Replacement of Gensets in Developing Countries - \$11B

Global flow battery market to reach **US\$185 million by 2020.** [Businesswire]



Nanyang Technological University (NTU), Singapore

Leading technology university. UltraCharge has an exclusive license over the anode material developed at NTU.



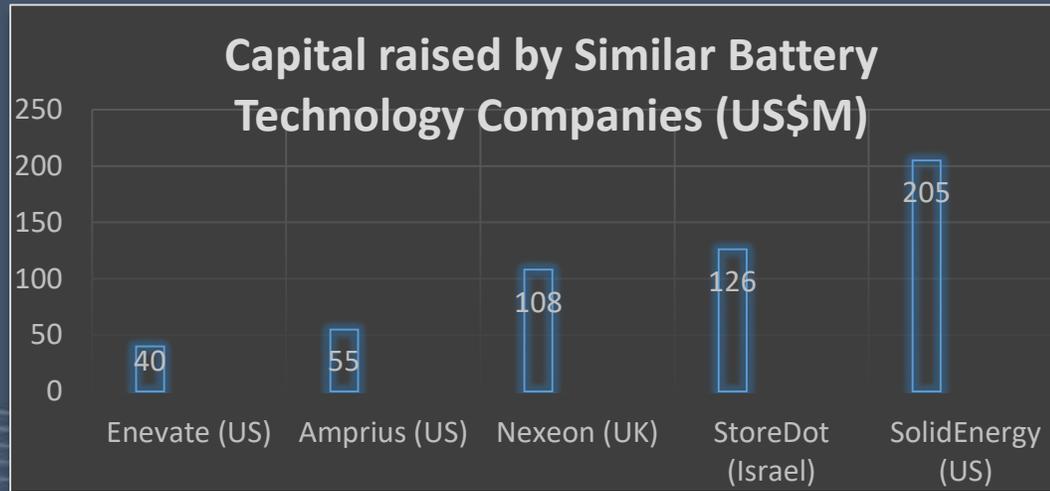
Leclanché, Switzerland

One of the world's leading fully integrated battery energy storage solution providers. Ultracharge has a MOU in place to undertake a project, focused on the electrical bus market.



Epsilon Electric Fuel Limited, Israel

Subsidiary of Arotech Corporation's power sources division. UltraCharge has a licensing agreement which provides an exclusive license option for new battery intellectual property (Iron Flow Battery).



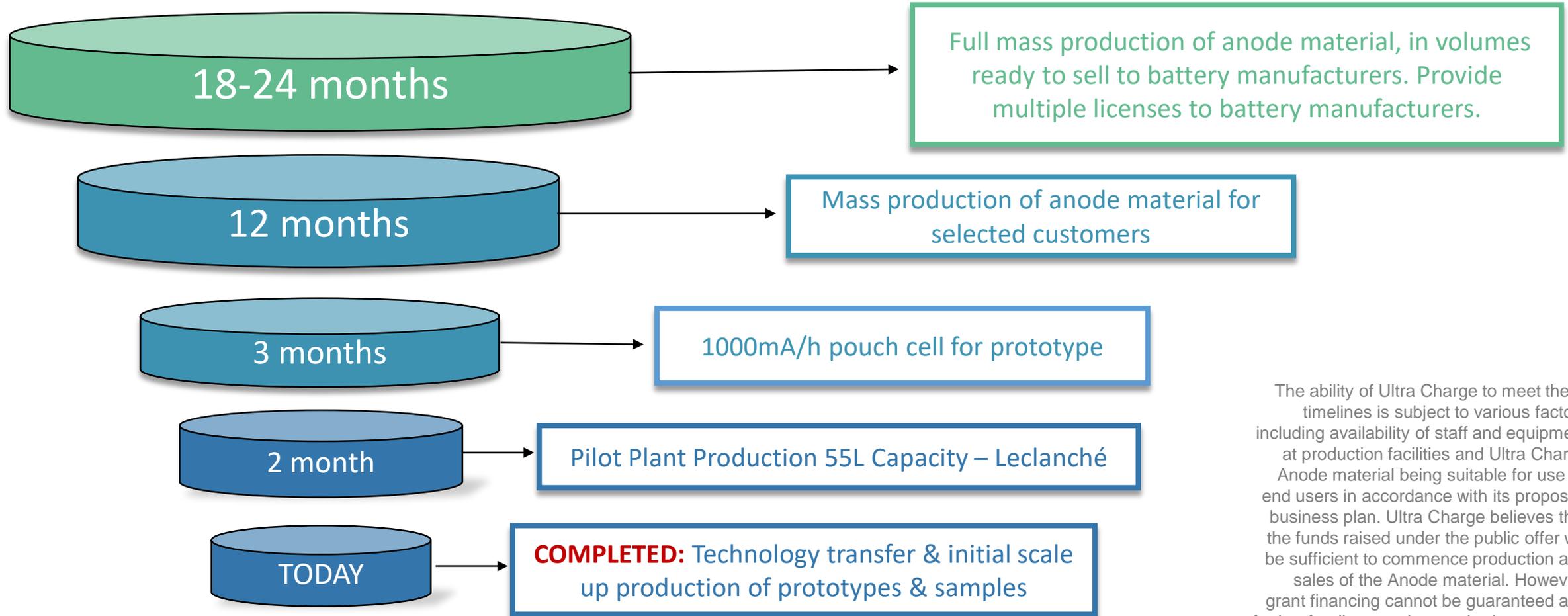
Source: CrunchBase, TMT Analytics

Examples of private companies established within the last five years similar to UTR. With Commercialisation slated within the next two to three years.



StoreDot is a similar Israeli company (private), which is two years ahead of UTR in terms of development, scaling facilities and pilot production. The company has a valuation of US\$500 million and has recently raised US\$60 million [Bloomberg].

UltraCharge’s energy storage technology is a game-changing battery that is: **Fast charging, has enhanced safety, is cost efficient, and has a longer lifespan.**



The ability of Ultra Charge to meet these timelines is subject to various factors including availability of staff and equipment at production facilities and Ultra Charge Anode material being suitable for use by end users in accordance with its proposed business plan. Ultra Charge believes that the funds raised under the public offer will be sufficient to commence production and sales of the Anode material. However, grant financing cannot be guaranteed and further funding may be required to meet the objectives stated above.



RAPID CHARGING TECHNOLOGY



LONG LIFE SPAN TECHNOLOGY



ENHANCED SAFETY



COST EFFICIENT



**HUGE GROWTH MARKET
PROJECTED FOR LI-BATTERIES**



**STRATEGIC COMMERCIAL
COLLABORATIONS IN PLACE**



IP SECURED



FAVOURABLE ECONOMICS

CONTACT

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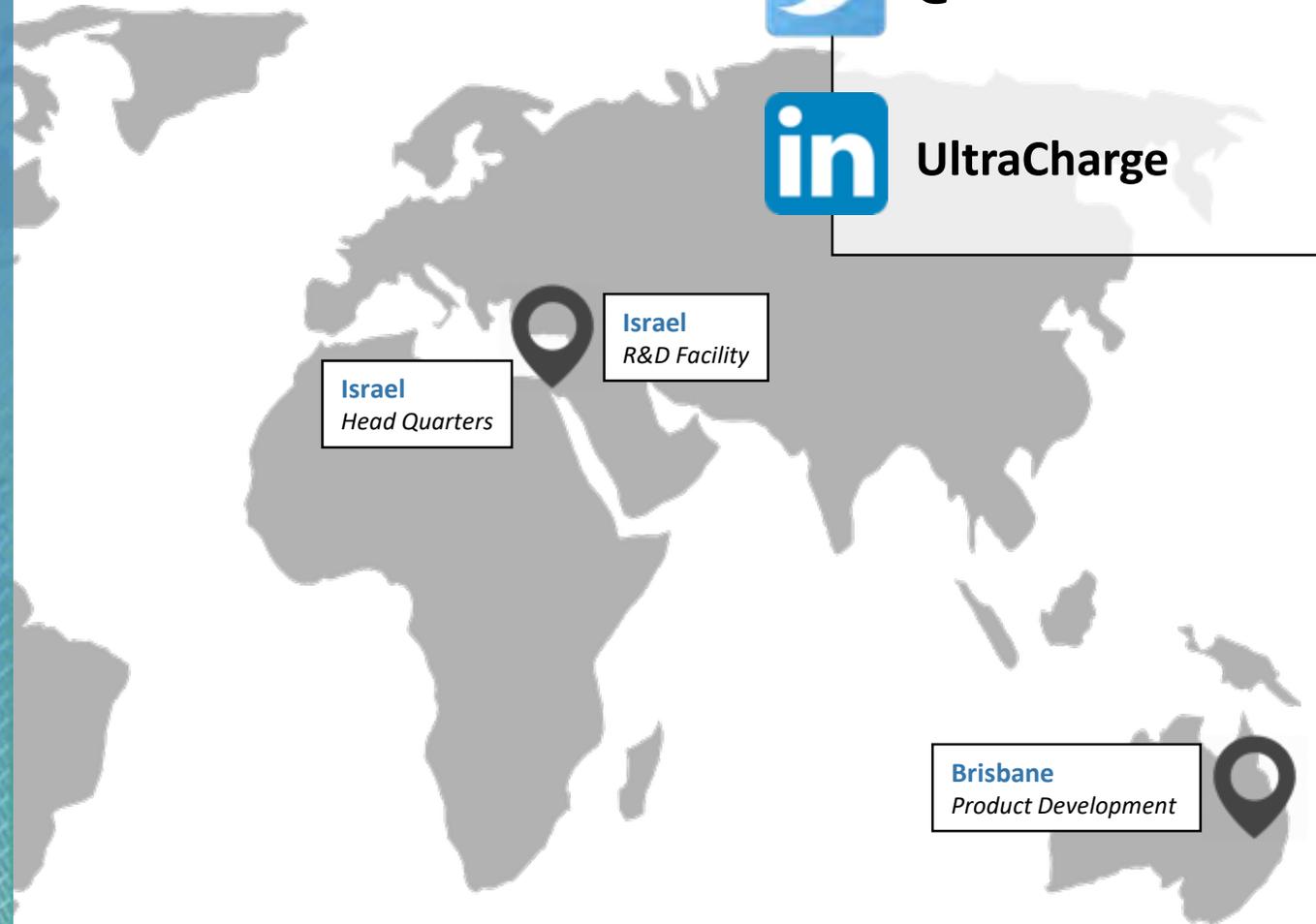
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@UTRASX



UltraCharge



Israel
Head Quarters

Israel
R&D Facility

Brisbane
Product Development