



ULTRACHARGE

THE 3rd INNONATION CHINA-ISRAEL INVESTMENT SUMMIT

B2B Investment and Business Partnerships

WWW.CHINA-ISRAEL-INVESTMENT.COM


June 2017



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

UltraCharge Ltd (as at 16 June 2017)	ASX: UTR
Total Shares on Issue	635 m
Escrowed shares on issue	47%
Performance rights	46 m
Options (various)	82 m
Market Capitalisation @ 2.8c	AUD\$ 17.8m
Cash at bank (as at 31 Mar 17)	USD \$2.6 m

“The next big thing”

*Professor Rachid Yazami,
co-inventor of today's lithium-ion batteries*



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... Israel a Start-up Nation ...



A country of 8.6 million, only 69 years old, produces **more start-up companies** than Japan, China, India, Korea, Canada, and the UK all together.

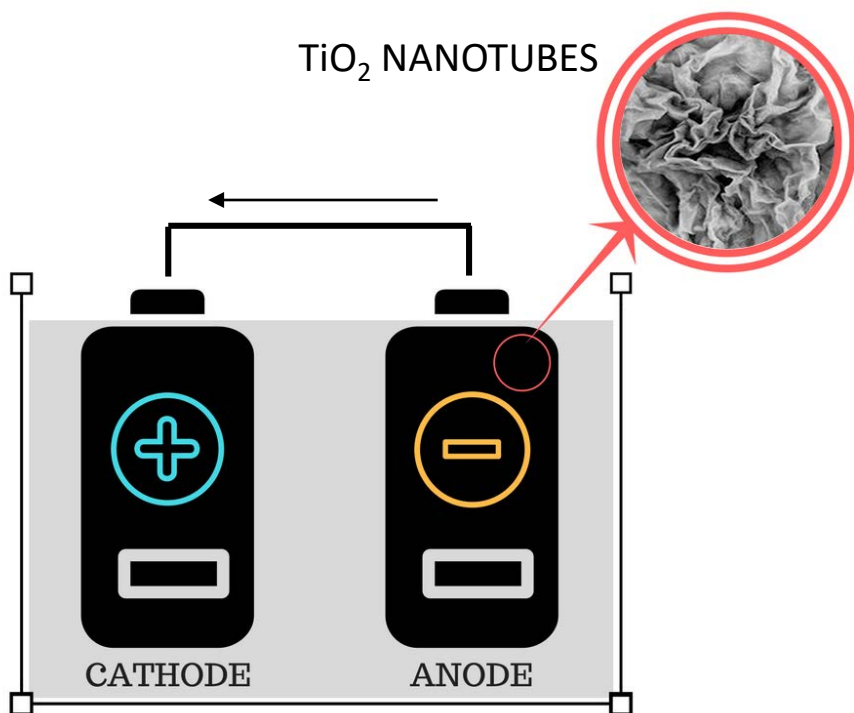
Israel has attracted over **twice** as much venture capital investment as the US and **thirty times more** than Europe per capita.

Israel has **more companies on the tech-oriented NASDAQ stock exchange** than any country outside the US – more than all of Europe and India combined.

Source: www.startupnationbook.com



TiO₂ NANOTUBES



LITHIUM BATTERY



Exclusive license to patented anode technology from the Nanyang Technology University in Singapore (NTU).



Breakthrough technology for lithium batteries replaces graphite used for the anode (negative pole) with UltraCharge's nanotube gel material made from titanium dioxide (TiO₂).



Significant benefits over current anode materials, including lower cost, higher density, safer, fast charging and has a longer life cycle.

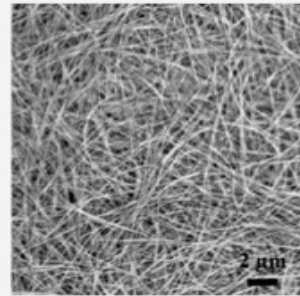




Patented Technology
Low-cost raw material.
Simple hydrothermal stirring.



TiO₂ nanotube gel



Electron microscopy
of titanium dioxide
nanotubes.



The graphite is replaced
by titanate powder.

Titanium dioxide (TiO₂) is an abundant, cheap and safe material commonly used as a food additive and as a key ingredient in sunscreen lotions as it absorbs harmful ultraviolet rays.

Naturally found in spherical shape, UltraCharge has patented a unique but simple method to turn titanium dioxide particles into long (micronised) nanotubes.





**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



**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.



Yuri Nehushtan

Managing partner of Nehushtan, Zafran, Scharf, Jaffe & Co., Law degree from Hebrew University in Jerusalem. Masters from the London School of Economics.



John Paitaridis

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





Prof. Rachid Yazami
Advisory Board

Co-inventor of Li ion, rechargeable and fluoride ion batteries. Cheng Tsang Man Chair Prof. in Energy at School of Materials Science & Engineering of NTU. Currently the Director of Battery Program, Energy Research Institute and Principal investigator, TUM Create Centre of Electromobility, Singapore.



Prof. Gideon Grader,
Advisory Board

Dean. Chemical Engineering, Technion. Founder & director of the Technion Energy Program. BSc. in Chemical Engineering, UC Berkeley. PhD in Chemical Engineering, Caltech.



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

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



Dr. Linoam Eliad,
VP, R&D

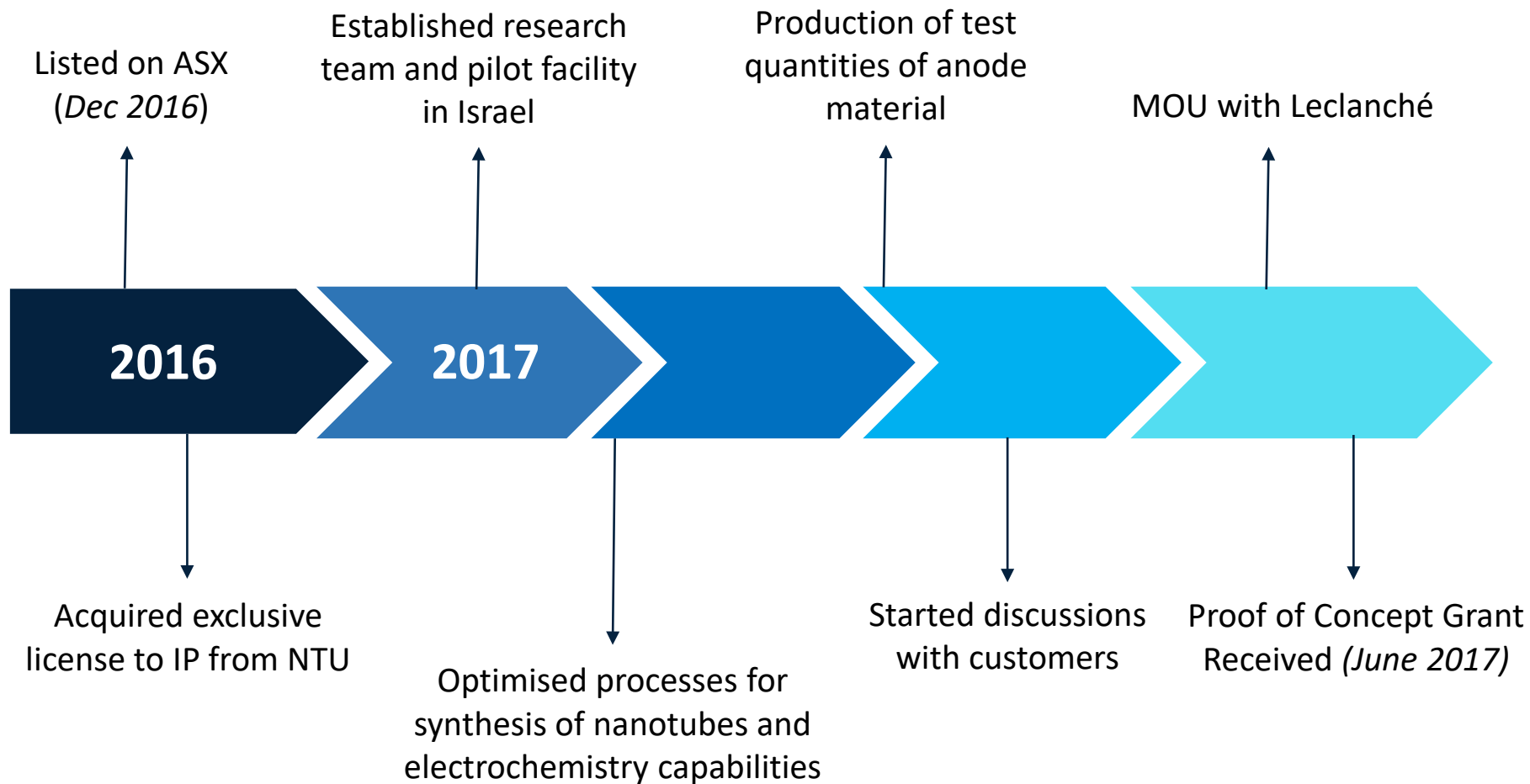
15 years in R&D of nano-materials for batteries and super capacitors. Lead projects for large corporations, smaller start-ups, and the US Air Force. Holds a PhD in Physical Chemistry and Electrochemistry from Bar- Ilan University, Israel.

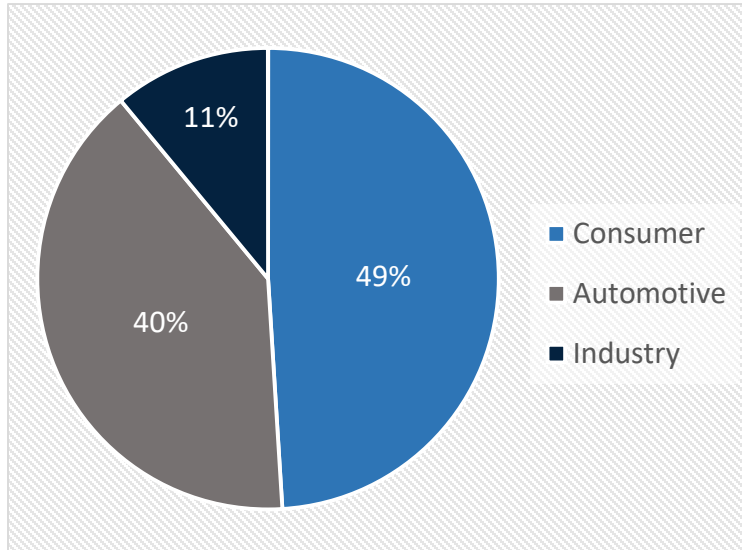


Prof. Chen Xiaodong, Chief
Scientific Advisor

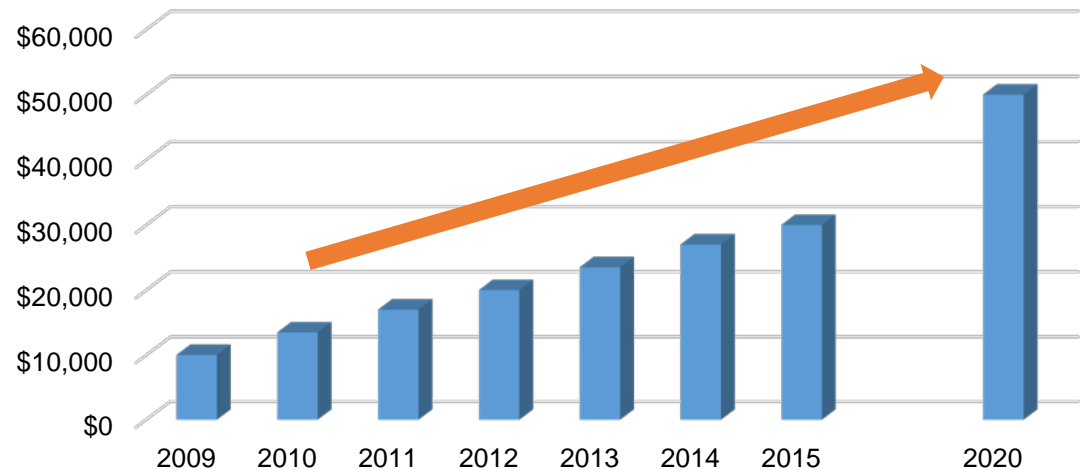
Associate Professor, School of Material Science and Engineering, NTU, Singapore. Domain expert in nano-bio interfaces and programmable materials for energy conversion.







Global Lithium Market with Focus on Lithium-ion Batteries: Industry Analysis & Outlook (2016-2020)"



Global Lithium Ion Battery Market Revenue Forecast (Millions of U.S. Dollars)

Source: IHS iSuppli August 2011

Growth rate of Li battery 18.5% p.a.

US\$31.55 billion (2016)

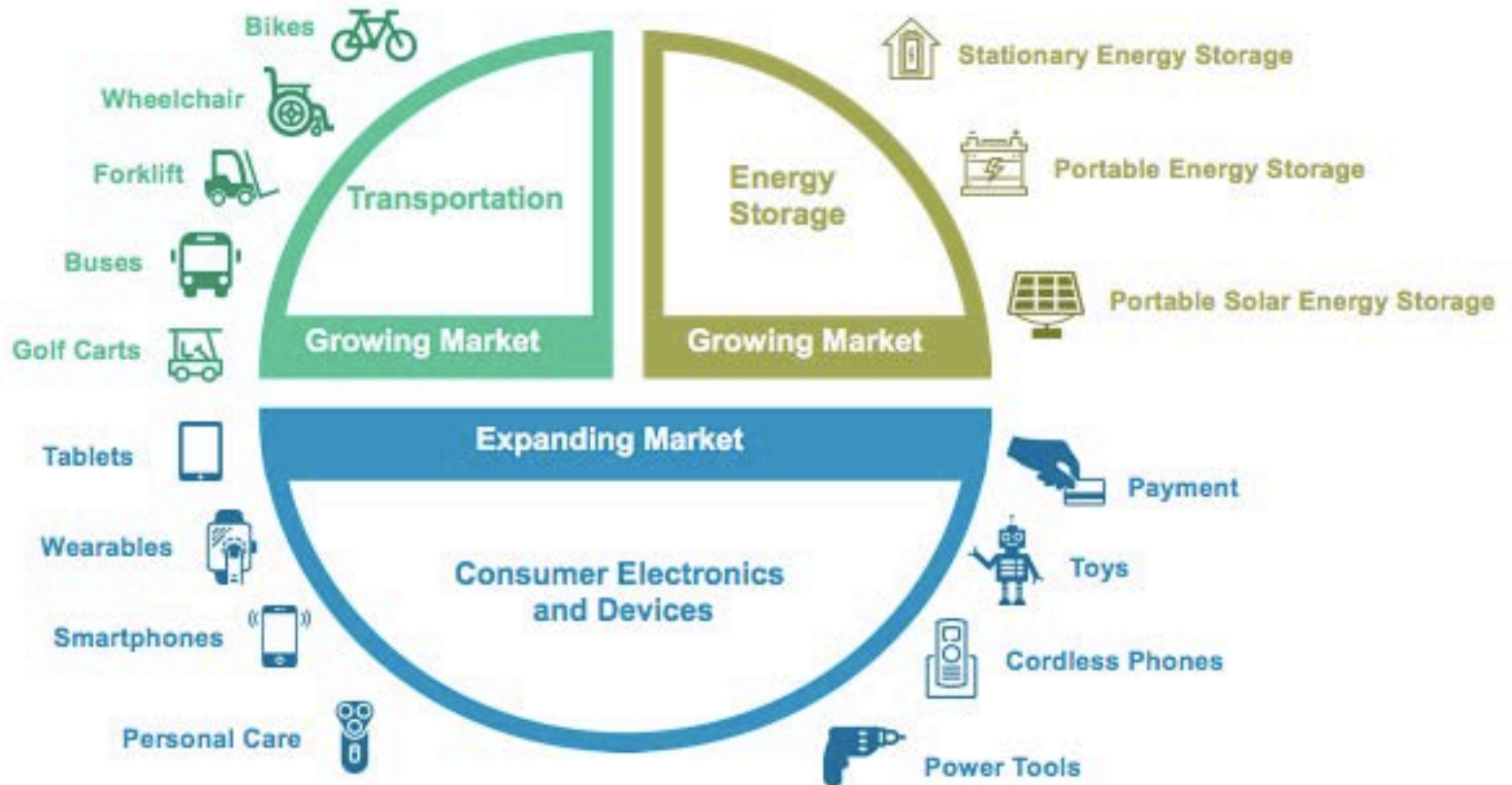
The lithium-ion battery business valued at US\$140 billion in 2026

Source: IDTechEx Research report, Lithium-ion Batteries 2016-2026



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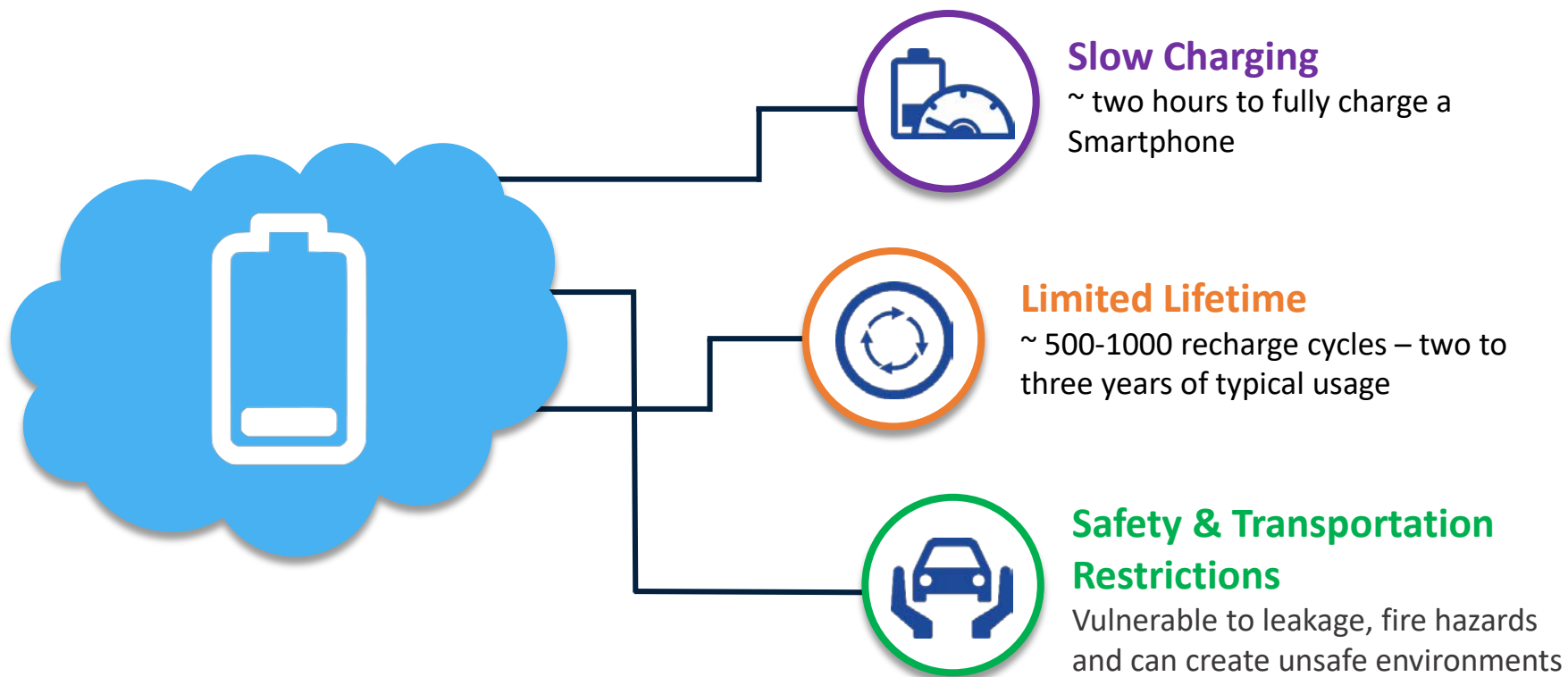
Future of Li Batteries



*"...the substantial expansion of lithium demand is hindered by life span, charging time, specific energy and specific power and safety issues"**



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Rapid Charging

Smartphones: 70% charged in <6 mins

Electric cars: dramatic increase in capabilities with just 10-15 minutes charging



Enhanced Safety

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



UltraCharge's Technology



Cost efficiency

Use of raw materials and patented affordable production method



Lifetime

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



Ultra Safe

UltraCharge's technology has less carbon than today's battery



No thermal
runaway



No
overheating



No Hazardous
materials leakage



Eliminates
fires



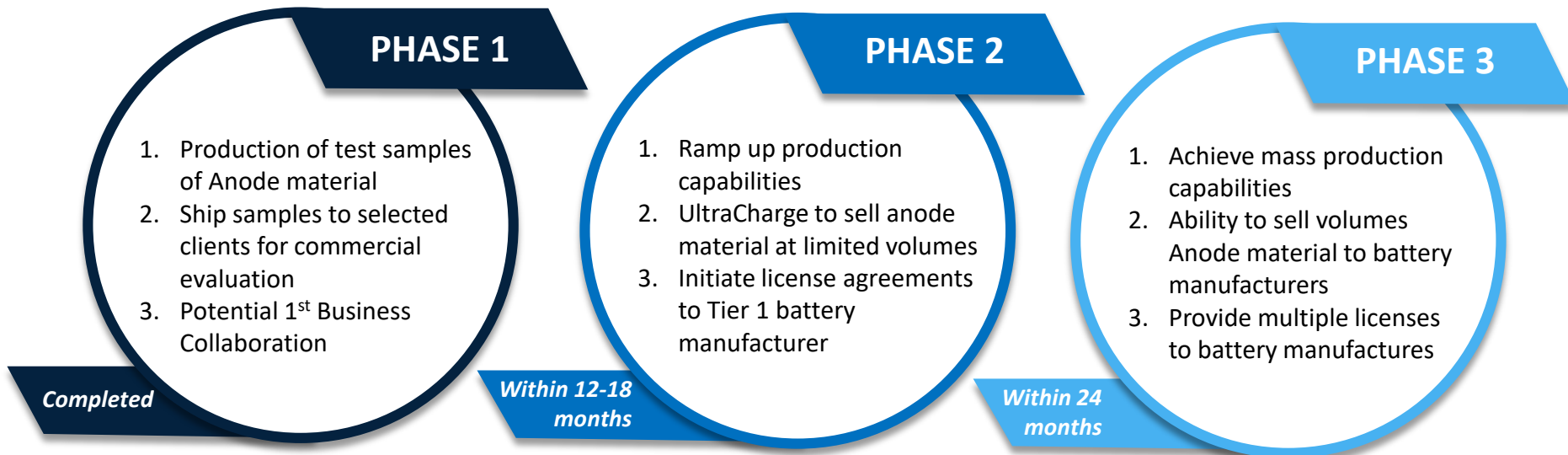
Eliminates
explosions



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UltraCharge will initially focus on applications that bring simplicity for the energy storage market, by offering 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.





Nanyang Technology University (NTU), Singapore

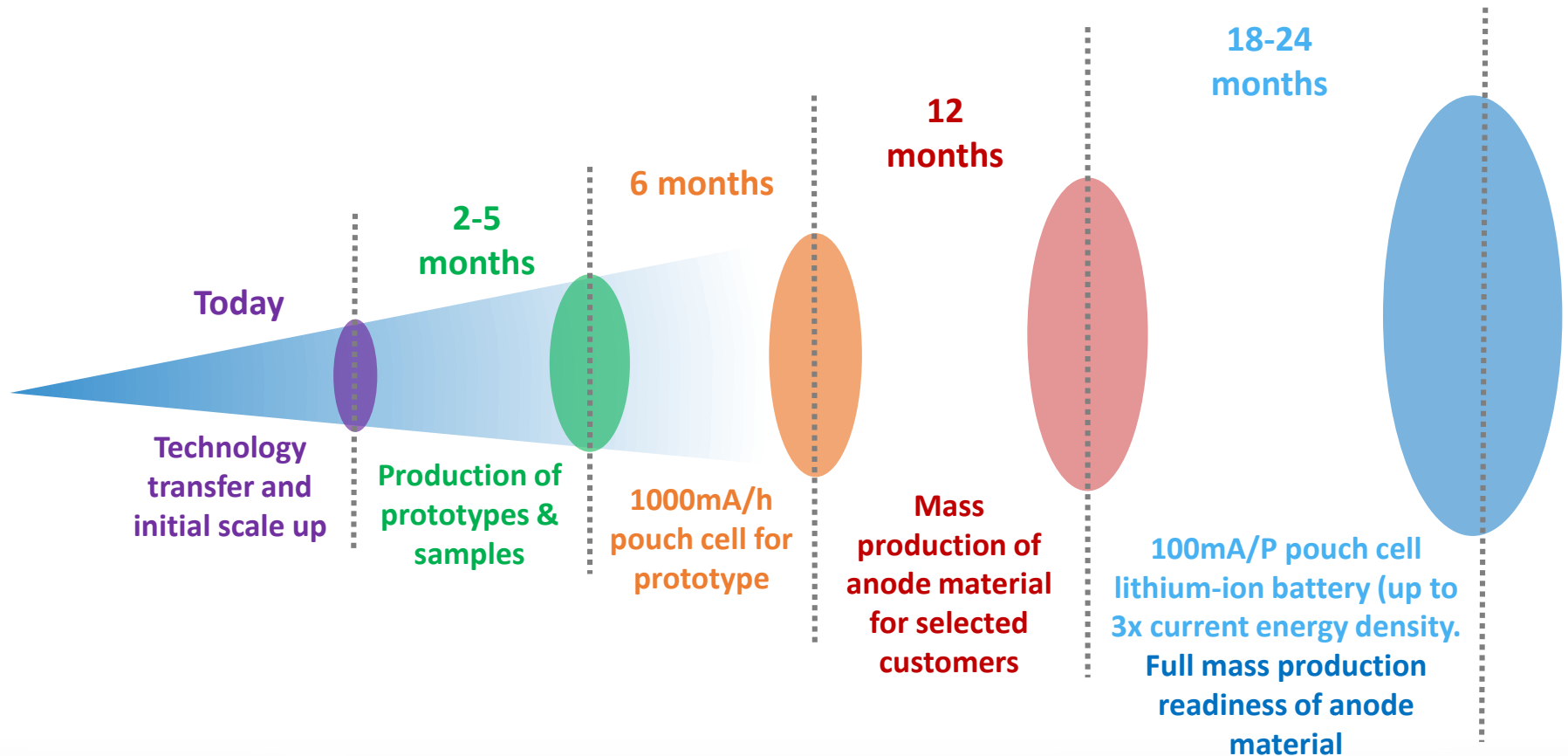
Leading technology university. Ultracharge has an exclusive license over the anode material developed at NTU.



Leclanché, Switzerland

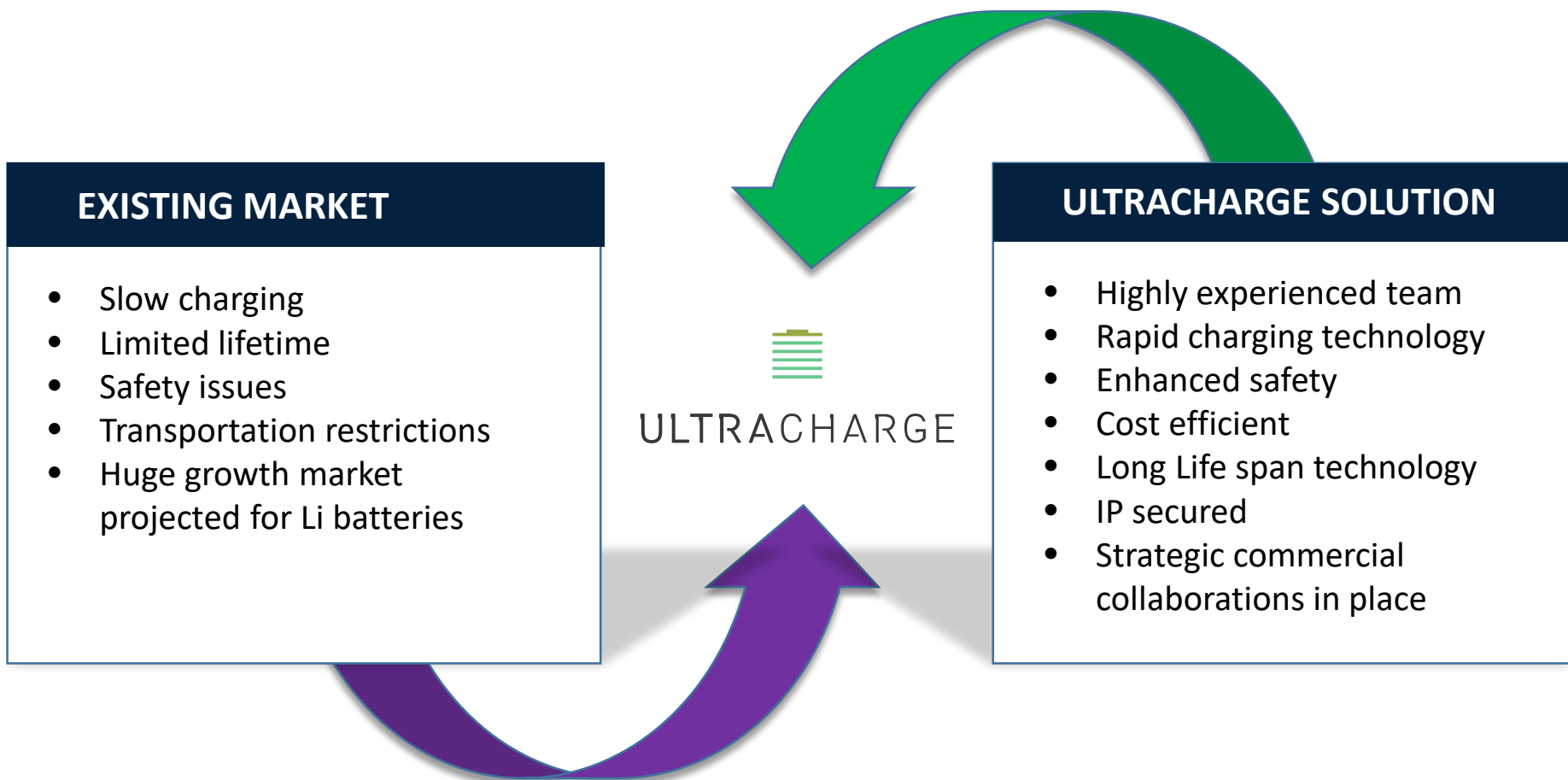
One of the world's leading fully integrated battery energy storage solution providers. Ultracharge has a MOU in place to undertake a project, focused on the electrical bus market.





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Israel
Head Quarters

Israel
R&D facility


Singapore
Research Centre (NTU)

Brisbane
Product Development

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@UTRASX



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