



ULTRACHARGE

LEADING EDGE LITHIUM-ION BATTERY TECHNOLOGY

Breaking Battery Barriers

RAPID CHARGING



ENHANCED SAFETY



LIFETIME



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To revolutionise the global battery market
by developing and delivering
game-changing battery technologies.

GAME CHANGING BATTERY TECHNOLOGY



Rapid Charging



Enhanced Safety



Cost efficiency



Longevity



Simplicity

“The next big thing”

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



First Mover Advantage: exclusive rights to technology



Patented technology



Strategic collaboration: Nanyang Technology University in Singapore



Market: huge growth trajectory projected



Multiple benefits: economic and ecological



Kobi Ben-Shabat, Co-Founder & CEO

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



Danny Hacoheh, VP Marketing, Sales, Biz 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



Prof. Chen Xiaodong, Chief Scientific Advisor

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

**Doron Nevo, Chairman**

- 25 years experience in high-tech
- Co-founder & CEO, KiloLambda
- CEO of NKO and of Clalcom
- BSc in Electrical Engineering from the Technion
- MSc in Telecom Management from Brooklyn Polytechnic

**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

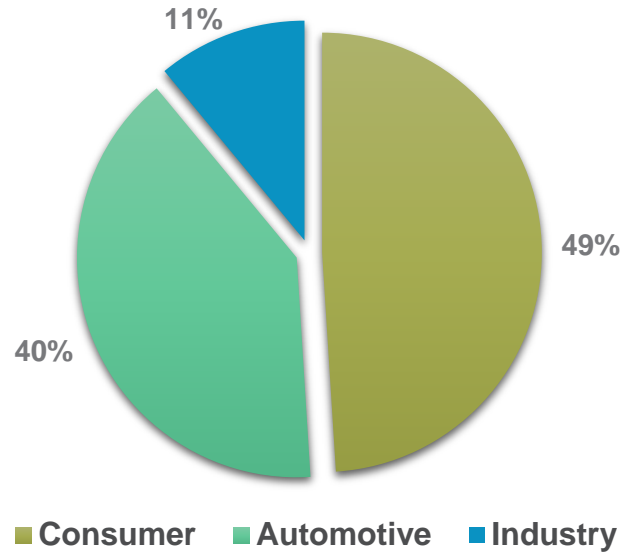
**John Paitaridis**

- 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

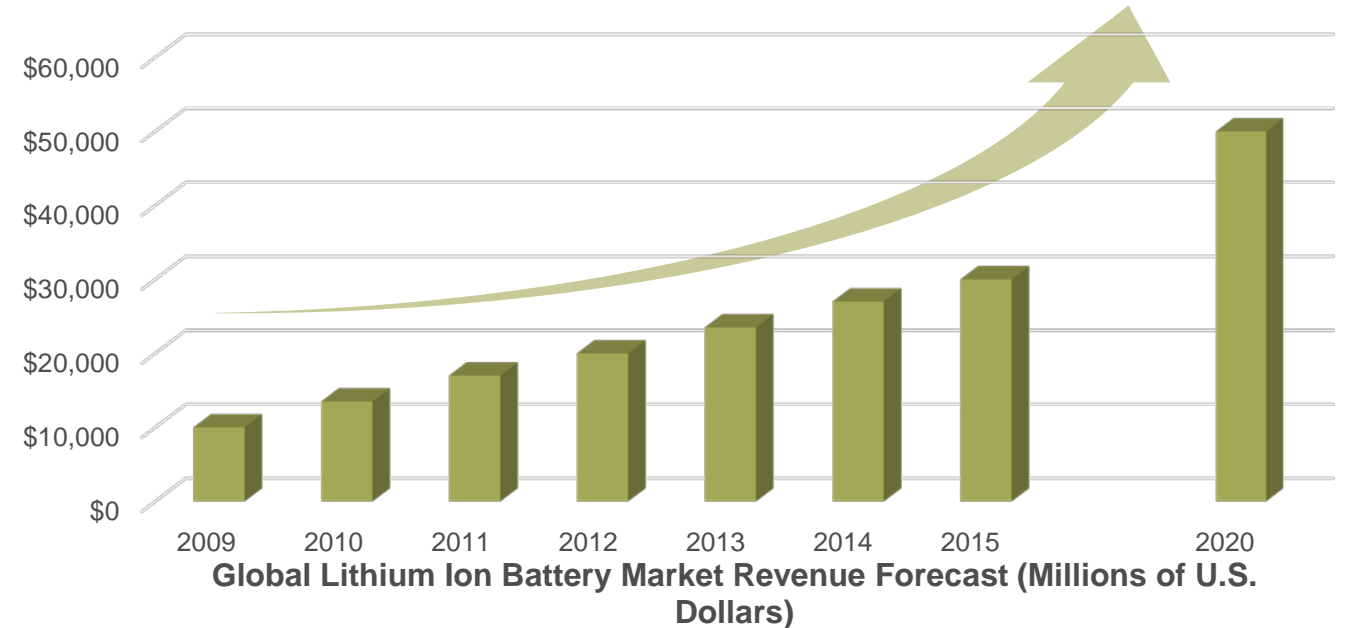
**Prof. Gideon Grader, Advisory Board**

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

Market Overview



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



Source: IHS iSuppli August 2011

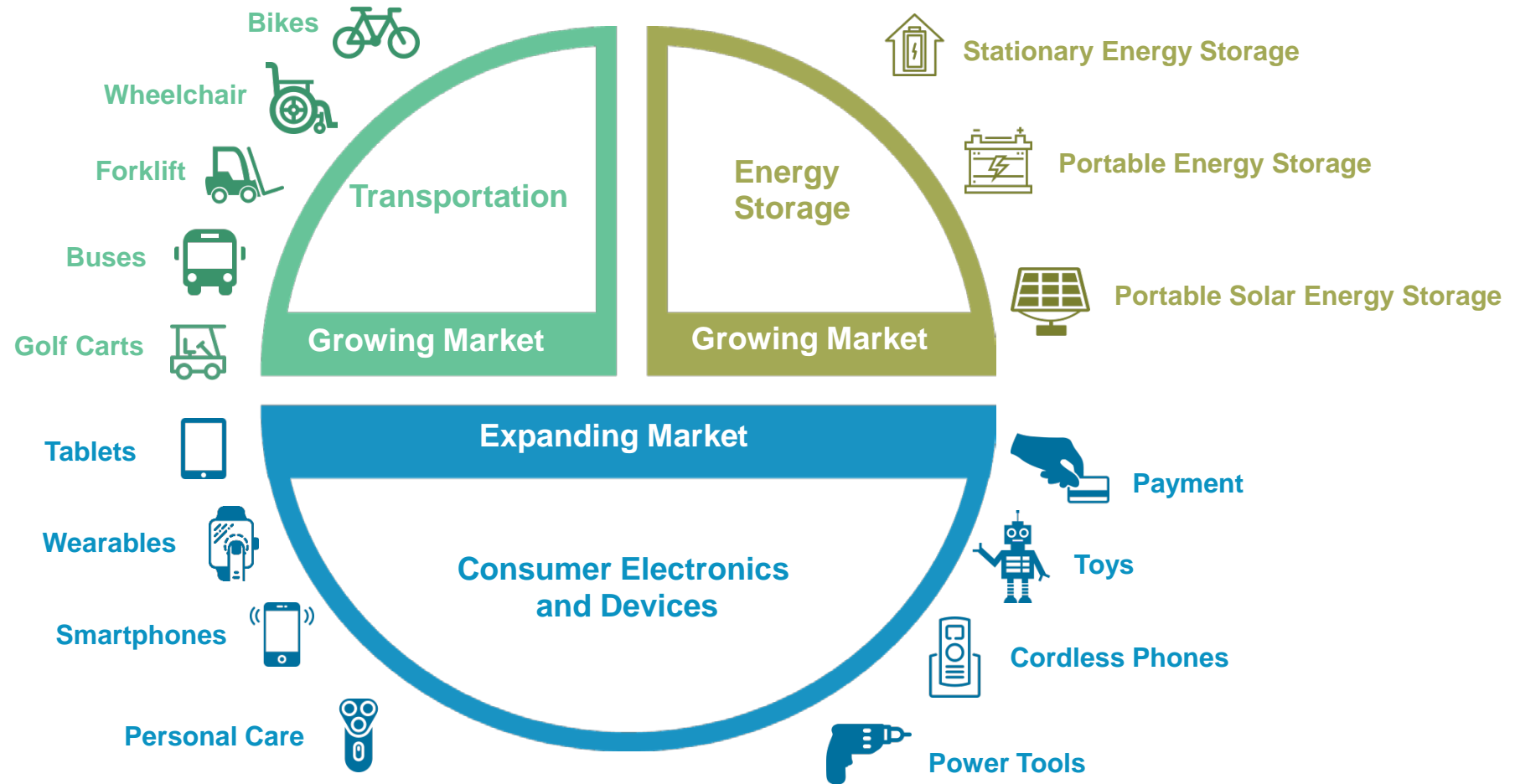
US\$31.55 billion (2016)

Growth rate 18.5%p.a.

The lithium-ion battery business is set dominate the battery business at around \$140 billion in 2026*

IDTechEx Research report, Lithium-ion Batteries 2016-2026

The Future of Lithium-Ion Batteries



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



Slow Charging

~two hours to fully charge a Smartphone



Limited Lifetime

~500 -1000 recharges cycles - two to three years of typical usage



Safety and Transportation Restrictions

Vulnerable to leakage, fire hazards and can create unsafe environments

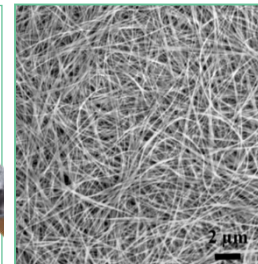
Replacing graphite in anodes (negative pole) with
a nanotube gel material made from **TITANIUM DIOXIDE**



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.



Smartphones

70% charged in
under 6 minutes



Electric cars

Dramatic increase in capabilities with
just 10-15 minutes of charging



CURRENT TECHNOLOGY
FULL CELLPONE Charge > 60 MINS

UltraCharge FUTURE
70% CELLPONE Charged < 6 MINS

Ultra Safe

UltraCharge technology is entirely free of carbon for LI Storage



No thermal runaway



No overheating



No Hazardous materials leakage



Eliminates fires



Eliminates explosions

“Replacement Galaxy Note 7 starts **smoking**, leads to plane evacuation”

“iPhone **explodes and catches fire** in a student’s back pocket”

“Samsung won’t be the last to have **exploding batteries**”

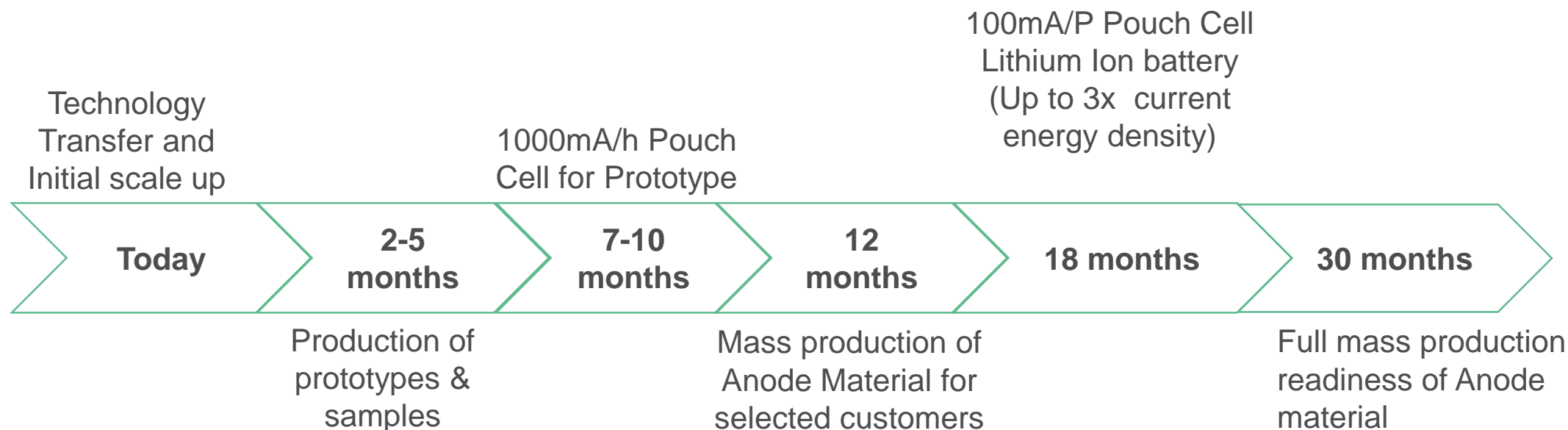
“US safety agency advises consumers to stop using **fire-prone** mobile devices”



Anticipated Timeline*



ULTRACHARGE



* 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.

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**.

Phase 1

1. Availability of early samples of Anode
2. Ship samples to selected clients for commercial evaluation.
3. Potential 1st Business Collaboration.

Phase I within 12 months

Phase 2

1. Ramp up production capabilities
2. Ultra Charge to sell anode material at limited volumes
3. Initiate license agreements to battery manufacturer.

Phase II within 18-24 months

Phase 3

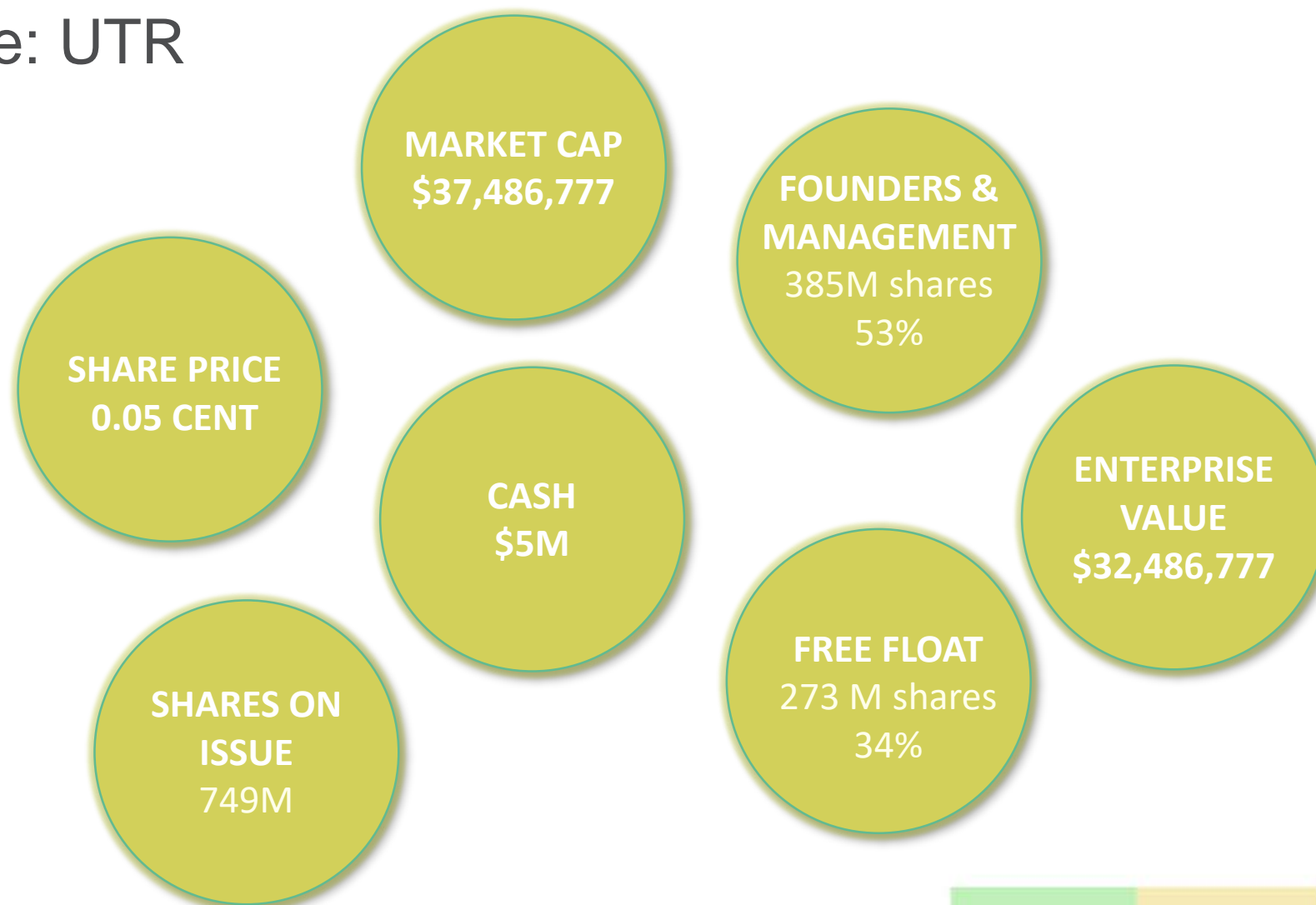
1. Achieve mass production capabilities
2. Ability to sell volumes Anode material to battery manufacturer.
3. Provide multiple licenses to battery manufactures

Phase III within 30 months

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ASX Code: UTR



Breaking the Battery Barriers

Rapid Charging



Enhanced Safety



Cost efficiency



Longevity



Simplicity

