

◆ SOR is backing memory technology being developed under license from the University of New South Wales and a number of other projects.

SOR operates under an Australian Federal Government program designed to increase investment in Australian SME's. The Company is a registered Pooled Development Fund, which enables shareholders to pay no capital gains tax on the sale of their SOR shares.

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### **Review since AGM 2014**

1	At AGM 2014 we were "actively seeking new investments in 2015". In May, 2015 we acquired the Nanocube memory technology license from the University of New South Wales.
	Unlike Companies changing sector from resources to technology, our 100% owned Company Australian Advanced Materials had been assessing technologies since 2011. This enabled us to identify and negotiate a 100% owned license with UNSW for the revolutionary memory technology.
	Significantly unlike other technology acquisitions, we didn't consolidate our existing shareholders. We also didn't issue hundreds and hundreds of millions of up front acquisition, advisor and performance shares that impact <b>all future shareholders</b> .
2	Capital raising was designed to benefit loyal shareholders first - as opposed to certain advisors and brokers being placed the majority of shares. Over 85% of total shares were allotted to shareholders at a discount of over 80% to the final market price raising approx. \$1.4M.
3	We manage several other projects, however the Nanocube technology has remained our core focus. We are conducting a development program to showcase the memory ink and results are expected within the next few weeks.
4	Market capitalization has risen from \$4.2M to approx. \$26M. Last cash balance approx. \$1.8M



# Nanocube technology

Nanocube memory technology is based on RRAM, the type of memory technology forecast to replace flash memory which is reaching its limits.

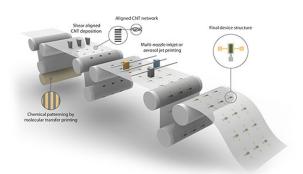


RRAM allows faster, less power hungry, more reliable, cheaper and more scalable memory.

- •There are many companies developing different RRAM memory solutions including HP and Sony.
- •However the Nanocube technology has significant points of difference - it is flexible, transparent and can be fabricated into a liquid solution at room temperature outside expensive highvacuum chambers.
  - The Nanocube technology has potential in traditional segments of the memory market, but development is at first strategically focusing on memory applications that leverage a liquid solution our core differentiator.
  - The obvious fit is Printed Electronics (PE) where chemical, printing and electronic industries have collaborated to create a multi-billion dollar market that will be the future of electronics.



### **Printed Electronics**



Innovation on printing techniques and conductive materials makes high throughput and volume production of electronics possible at low cost on flexible plastic, paper, or textile substrates.

This flexibility enables integration of printed and flexible electronics into everyday items and places we had only dreamed of before.

- ■PE can create flexible, transparent electronics which current semiconductors cannot.
- ■PE can also be manufactured using cheap printing methods unlike current electronics made in expensive fabrication plants.



This allows device manufacturers to place electronics in places and on products that have never been able to use electronics before – new forms of displays, curve of a soldiers helmet

■PE is currently a multi-billion dollar market and is set to grow to USD 78 Billion by 2023. **However** this number will increase rapidly if other industries such as building, textiles, military etc. are able to incorporate electronics into existing products for the very first time.

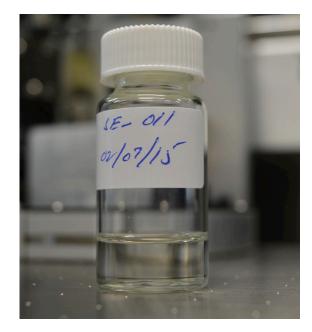
Printed electronics manufacturing facilities cost 1/100<sup>th</sup> of traditional semiconductor fabrication plants.



# Nanocube memory ink program

- As ink is the blood of the printing industry, the development of high performance memory ink would revolutionize it.
- The Nanocube ink has been designed to use a type of technology (RRAM) that can enable memory to operate at extremely fast speeds whilst requiring less power.
- •Testing has now commenced on a memory ink prototype for the response speed, operation voltage, endurance and other functions to determine performance and enable comparison.
- The test results being delivered at any time over the next three weeks will also report on some RRAM aspects of the Nanocube ink. Additional tests are also being conducted to determine whether the Nanocube ink can be printed onto silicon, glass and plastic materials using an inkjet printer.

A successful result would showcase the global disruptive potential of the Nanocube memory ink.



RRAM allows faster, less power hungry, more reliable, cheaper and more scalable memory.

Ink enables very low cost manufacturing of flexible memory solutions across different materials.



## **Pooled Development Fund**

- •SOR is officially registered under the Pooled Development Fund program, an Australian Federal Government program designed to increase investment in Australian SME's.
- •Registration under this program enables our shareholders to pay no capital gains tax on the sale of their shares.
- Other benefits for shareholders include paying no tax on dividends received.
- SOR as a Company also pays just 15% corporate tax rate on returns from backing Australian SME's.



The Federal Government program assisted us to raise capital and fund world leading Australian University researchers at UNSW to further develop their Nanocube memory invention.



In our case, the PDF program is an example of the Federal Government successfully stimulating Australian innovation through the tax system.

Fantastic model for **business and research collaboration** to drive innovation in Australia. Leverages Australia's massive investment in research spending. Enables private capital to be raised through Federal Government tax system benefits for investors.

# **Summary**

- ▶ Printed electronics have already reached mass production, but with very limited memory performance. High-performance printable memory will be a significant breakthrough.
- ★ The Company believes there is no commercially ready printable memory with the potential of the nanocube memory technology.
- ↑ The team at UNSW have done an enormous amount of work developing the Nanocube technology into a prototype memory ink within such a short time frame.
- Other projects are being being progressed in Strategic Materials Pty Ltd and Maria Resources
  Pty Ltd but the Nanocube technology is currently the main focus
- ▲ Industry is starting to notice the potential of the Nanocube ink. Further results showcasing the technology will increase interest from industry and potential commercial partners.







▶ Pooled Development Fund registration with the Australian Federal Government means SOR is the only Company on ASX in memory sector that can provide 100% tax free capital gains.

## Some quotes to end with...

The demand for low-cost, non conventional electronic solutions is real and its growing...

Xerox

Technologies for flexible electronics manufacturing will be major differentiators in the next generation of consumer and computing devices..

- USA President's Council of Advisors on Science and Technology

Flexible Hybrid Electronics has the potential to re-shape entire industries..

- USA Department of Defense

Printed Electronics..the Holy Grail of low cost, high volume manufacturing. Follow the money.

- DuPont (Market Cap \$45 billion)

