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Pooled Development Fund funding Australian SME owned projects in technology and resources....

Specialty focus on backing projects with large scale upside potential.

Maintain significant control over direction of projects.





ASX Code Cash Debts

- : SOR : Approx. \$7M
- : Nil

# pooled development fund







Australian Entrepreneurs Innovators and Geologists

- SOR operates under the Pooled Development Fund program, an Australian Federal Government program designed to increase investment in Australian SME's.
- Designed by Federal Government to in part drive investment into Australian innovation.
- Under this Ausindustry Venture Capital Program most shareholders pay no capital gains tax on the sale of their ASX listed SOR shares.
- Other potential 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.
- Over \$1bn invested in Australian Companies by the PDF program.

\*Shareholders should seek their own independent tax advice.

# technology focus on printed electronics





- PE can create printable electronics on materials that 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.

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

- Innovation on printing techniques and conductive materials makes high throughput and volume production of electronics possible at low cost on plastic, glass and even textiles.
- This enables integration of printed and flexible electronics into everyday items and places we had only dreamed of before.



### technology sector activities

In the technology sector SOR is assessing Australian **Printed Electronics** technologies and Companies for potential licensing and acquisition



According to research firm IDTechEx, the global market for printed and potentially printable electronics, will rise from about USD 24 billion in 2014 to \$70.4 billion in 2024, with a compound annual growth rate of 40 per cent.

Those amounts jump dramatically when you include the total market value of the products that do, and could, incorporate PE components.

This is only the beginning.. the global market could reach **\$340 Billion by 2030.** 



# 100% owned Nanocube Memory Technology

Memory is at the heart of electronics...

....however current memory capacity of printed electronics and smart systems is limited. - IDC

- Ok.... what has been achieved since our last AGM?
- We have shown through proof of concept prototypes that we can make a memory ink containing the nanocube technology:
  - it can be coated and inkjet printed
  - the memory cells are reliable
  - with good speed
  - are transparent and
  - function on surfaces other than silicon such as plastic and glass materials.
- All outstanding achievements in such a short time frame...

.. however the team **is currently working on something that could open up an even bigger potential opportunity.** 





### current Nanocube Technology focus



- The Company and the team at the University of New South Wales are currently focused on development and testing of the ability to bend/flex the Nanocube memory ink..
- Enabling memory to also be bent or flexed would open up a huge additional potential markets in flexible product applications
- Large global companies are investing huge amounts and making breakthroughs in developing new flexible materials for electronics. Lets look at one example...

#### SCHOTT glass made of ideas

Billion dollar German Company announced robust and flexible 25-micrometer thick flexible glass (almost 4 times thinner than a human hair), for use in all sorts of flexible devices.

Tough, ultra-thin glass is scratch-resistant and bendable with a radius of a few millimeters, showing no signs of fatigue.

"This will allow for pioneering innovations in various industries.. the areas of consumer electronics, packaging, white goods, and automotive, for example" Schott



Flexible and yet robust: ultra-thin glass bends to a radius of a few mm.



Applications in the electronics and semiconductor industries.

 We are also currently in discussions with potential collaboration and development partners....

### nanocube commercialisation strategy



Our strategy is to specifically focus technical development on those tasks that enable partnerships to be formed. We are currently in discussions with potential partners.

- Identify potential partners from Industrial Innovation Centres, Innovation Clusters and Companies across the Printed Electronics supply chain.
- Leverage partners global network and expertise in many areas.
- Develop products faster and launching them earlier.
- Gain better access to the target market.



The secret to Printed Electronics growth is collaboration - Dupont

## what do others think of printed electronics?



"These printing, materials, paper and chemical companies of today will be the new electronic giants tomorrow" – IDTechEx

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

"Investors are increasingly drawn to the printed electronics market due to its low cost of entry and technological knowhow of conventional printing. The conventional printing methods are already mastered and this reduces the chances of any anomaly with the process" – Frost and Sullivan

"Technologies for flexible electronics manufacturing will be major differentiators in the next generation of consumer and computing devices"— President's Council of Advisors on Science and Technology

"Flexible Hybrid Electronics has the potential to re-shape entire industries, from the electronic wearable devices market, to medical health monitoring systems, to the ubiquitous sensing of the world around us – also known as the Internet of Things" -US Department of Defense

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

## **Golden Blocks – Historic High Grade Goldfield**



- The historic very high grade Aorangi Gold mine was still open to the south when mining stopped in 1914 and a number of other mines within the project were only worked to very shallow levels.
- The Company will follow up assays from historical underground exploration of a vein grading 663.8 g/t over 0.75m across the full width of the quartz, including a select sample of 5324.5 g/t over 0.25m.
- Aorangi closed due to water and labour issues and has never been drilled. The deeper potential of the Aorangi mine provides a promising exploration target.







WORKING TO REOPEN A 100 YEAR OLD HIGH GRADE GOLDFIELD



# Officer Project - Unexplored WA Deserts





- The general consensus to date has been that Permian age cover rocks in WA are economically uninteresting for metal deposits and hence isolated desert regions in the Officer Basin have remained overlooked and virtually completley unexplored.
- However, in collaboration with Dr Franco Pirajno, an overseas metals deposit model (Permian Kupfersheifer) unfamiliar to Australia was applied to the geology of the Officer Basin and the previously unrecognised potential for copper + silver + cobalt became clear.
- This deposit style is more commonly known in Europe where they are the 2<sup>nd</sup> most important copper deposits with an average of 44mt @ 1.8% Cu.



 Recognising that the Permian rocks long thought of as just 'cover' were actually a target in their own right led the Company to apply for approx.
700km<sup>2</sup> of the most attractive ground, to provide a dominant holding for this style of mineralisation in the Officer Basin.

- History shows that in any mineral district, the largest deposits are usually found first. Gaining first boots on frontier ground for a new model is a significant motivation to the project team.
- There have only been twenty mineral exploration holes, in surrounding 54,000km<sup>2</sup> primarily for diamonds.
- Significantly however, two of these holes 8km apart both contained highly anomalous copper with all the hallmarks of this style of mineralisation.

