



**STRATEGIC**  
ELEMENTS

ASX CODE: SOR

**AGM PRESENTATION 2024**

# Pooled Development Fund

Strategic Elements Ltd is a registered Pooled Development Fund (PDF) listed on the Australian Stock Exchange.

- PDFs are venture capital funds registered under the Pooled Development Funds Act 1992.
- The aim of the PDF programme is to increase the supply of capital to Australian small and medium-size enterprises (SMEs).
- PDFs and their shareholders receive tax benefits from their equity investments. This is to help compensate for the higher risk of investing in SMEs. Shareholders should seek professional tax advice.
- PDF registration is no longer available. Funds registered under the PDF programme will continue to operate and invest in small Australian companies.



**Investing in small to medium sized companies providing them with patient equity capital to assist in development and expansion in accordance with the provisions of the Pooled Development Funds Act.**

# Patient Equity Capital

Investing in small to medium sized companies providing them with **patient equity capital** to assist in development and expansion.

- Patient equity capital does not have a rigid definition, but generally refers to longer-term investment, where the investment entity is prepared to wait a considerable amount of time.
- Besides its longer time horizon, patient capital also has a higher risk tolerance than traditional forms of investment, and patient capital funds will often provide greater support, helping to build business models and growth.



Australian Advanced Materials Pty Ltd (AAM)

Developing printed electronics from leading edge material science.

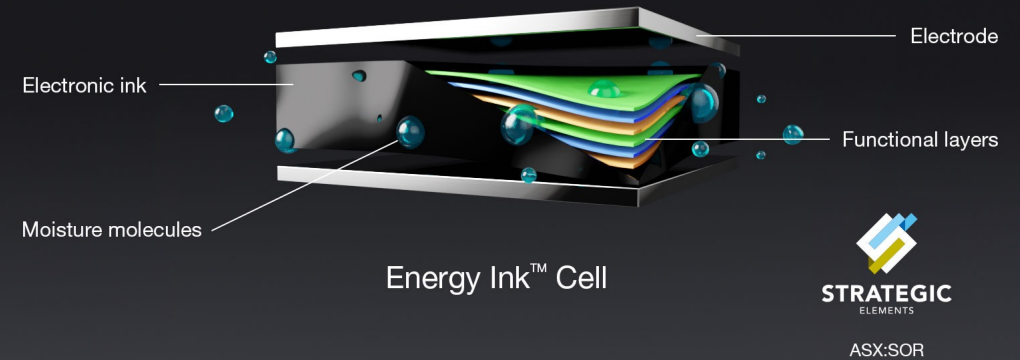
# AAM Overview

- SOR has identified a team of world leading Australian researchers and is backing their early-stage science by introducing patient equity capital and other resources.
- SOR funding initial development whilst seeking a key commercialisation partner/investor at the appropriate time.
- Collaboration with academic and government research institutions provides access to \$100M+ of institutional technical infrastructure and equipment, government grants and R&D cash back \$\$ significantly reduces up front expenditure.

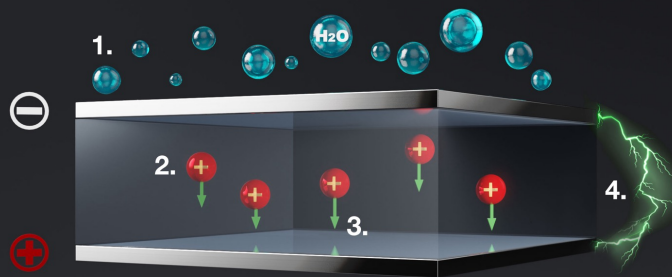


# Energy Ink™ - Overview

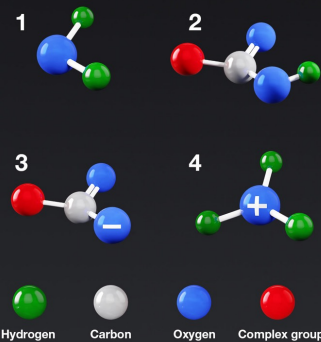
- Printed graphene-oxide-based Energy Ink™ cells that harvest energy from humidity (airborne water molecules) could potentially directly power a device, complement a battery by extending device life or provide energy for battery storage.
- Developing the technology with a world-leading material science team at the University of New South Wales.



## Energy Ink™ - Simplified ELECTRICITY GENERATION



### ION DISSOCIATION



Positively charged mobile ions are generated via ion dissociation when: (1) moisture in the form of water molecules enters the MEG and reacts with (2) functional groups in the MEG (e.g. carboxyl) (3) and producing (4) mobile positively charged ions.

1. Moisture from the air enters the moisture energy generator (MEG).
2. Mobile positively charged ions are produced through ion dissociation.
3. The mobile ions migrate to the bottom electrode causing an electrical potential or field to be formed between the electrodes.
4. The electric field can be used to cause electrons to flow through an external circuit, powering an electrical device.

## Multiple Scientific Grants Awarded

- Prestigious Australian Research Council Mid-Career Industry Fellowship Collaboration with UNSW Professor Dewei Chu \$2,800,000 project 2024 – 2028.
- ARC Linkage - Wearable Electronics: Moisture Electric Generator with UNSW \$1,600,000 project 2022 – 2025.



# Energy Ink™ - Development



- ✓ Innovation in 2024 being completed at rapid pace.
- ✓ Currently trialing potential methods of automation for commercial facility.

Designed multi-cell structure.

Increased batch size to liter range.

Increased cells size by 400%.

Complete overhaul of Energy Ink.

- Cell to Sheet Program launched aimed at creating larger-scale prototypes and demonstrators with significantly increased energy generated from moisture.
- Goal to transition **high power** prototype from single cell in lab to A4-sized sheet of cells. Requires automated electronic printing in a commercial facility.

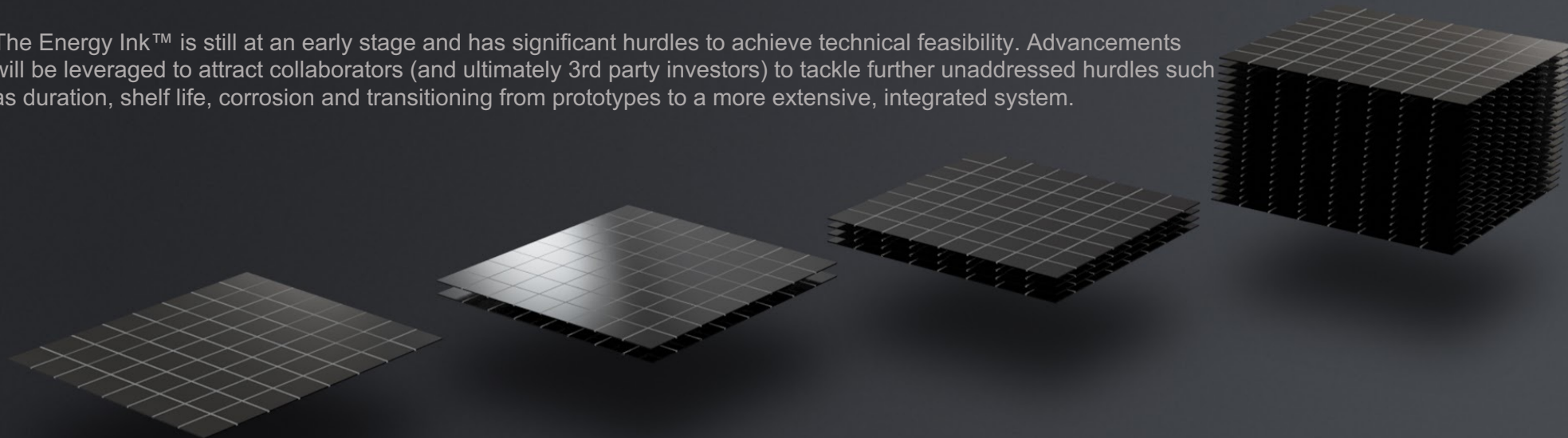
# Opportunity



## 2025 Objectives for low power Energy Ink™

- Identify and commence discussions with printing, chemical materials and specialist manufacturers who can provide support in scaling up development and production of disposable versions of the technology.
- Secure initial pilot for Energy Ink™ and components and jointly test the new technology.
- Access to corporate innovation programs to work together on the manufacturing and distribution of disposable Energy Ink™.

The Energy Ink™ is still at an early stage and has significant hurdles to achieve technical feasibility. Advancements will be leveraged to attract collaborators (and ultimately 3rd party investors) to tackle further unaddressed hurdles such as duration, shelf life, corrosion and transitioning from prototypes to a more extensive, integrated system.







Developing the **AxV** automation and robotics platform to automate tasks currently performed manually by humans.

# Overview

The AxV Platform is the accumulation of years of experience and combines the capabilities of autonomous vehicles, computer vision, robotics and artificial intelligence.

## Worked under collaboration or research agreements in the past with:

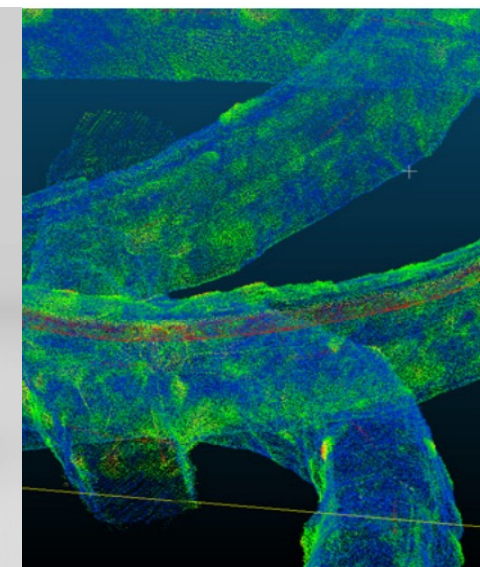
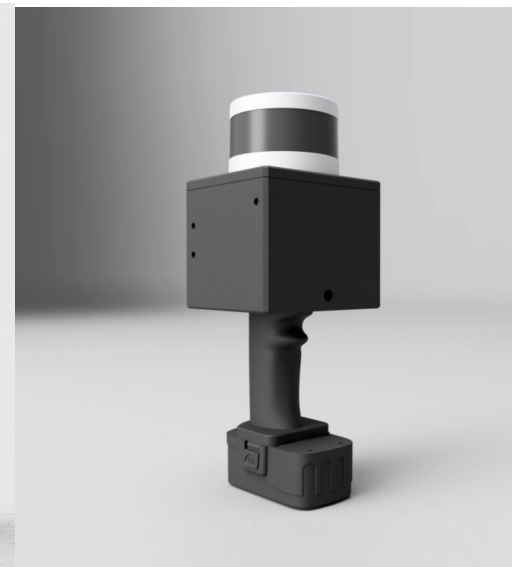
- Defence Science and Technology Group
- University of Western Australia
- The Commonwealth Scientific and Industrial Research Organisation
- The University of New South Wales

## Current project funding:

- Australian Research Council ITTC Project (Autonomous Vehicles) \$1,900,000 2024 - 2029

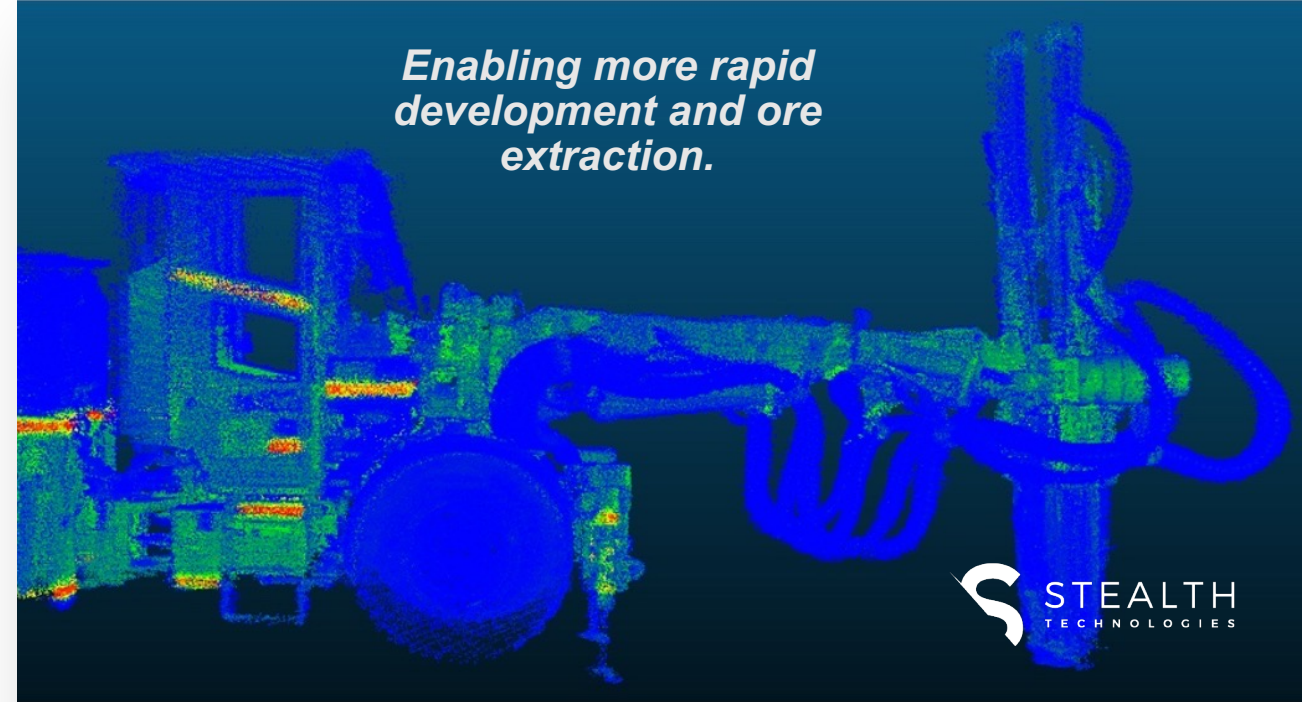
## Previous grant funding from:

- Defence West
- Commonwealth Gov - Automotive Engineering
- CSIRO on Prime



# AxV Development

- Stealth has an agreement with global software-industrial company Honeywell to progress the commercialisation of the **AxV Platform** for Autonomous Security Vehicles in perimeter security.
- Honeywell is responsible for identifying and maintaining customer relationships, procuring access to customer facilities and entering and maintaining agreements with customers to facilitate ASV Pilot Deployments.



- Stealth is currently testing and refining the **AxV Platform** for mining applications with an Australian mining Company through access to live underground mining environments.
- Data collected is being used to enhance the technology whilst working to execute a MOU for a formal collaboration. No agreement has been signed at the date of this presentation.

# Corporate

SOR raised funds from Australian investors in 2023 to provide patient equity capital under the Pooled Development Fund program:

- AAM for development and expansion including the prestigious ARC Fellowship Project (Energy Ink) which runs until end of 2028.
- Stealth Technologies for development and expansion including the Australian Research Council ITTC - Automated Vehicles which runs to 2029.

After a considerable time under development, SOR believes these investees may be at an appropriate stage in 2025 for partnering and potential third-party investment.

Strategic Materials Pty Ltd and Maria Resources Pty Ltd are currently undergoing strategic review for potential JV/asset sale/investment opportunities in the resources sector.

Where opportunities arise in 2025, funds raised will be used to provide further small to medium sized companies with patient equity capital to assist in development and expansion.





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