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Company Update

April 2026

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Who is Adisyn

Adisyn Ltd is publicly listed on the the Australian Securities Exchange (ASX) under the ticker AI1

Field of activity

1. Through 2D Generation (a fully owned subsidiary) – development of novel technologies to produce graphene in a low-temperature process, targeting semiconductors.
2. Through 2D Radar Absorbers (subsidiary of 2D Generation) - radar signature reduction for UAV & defense systems, using 2D materials.
3. Original activity of building and deploying IT solutions, and end-to-end cyber security solutions.

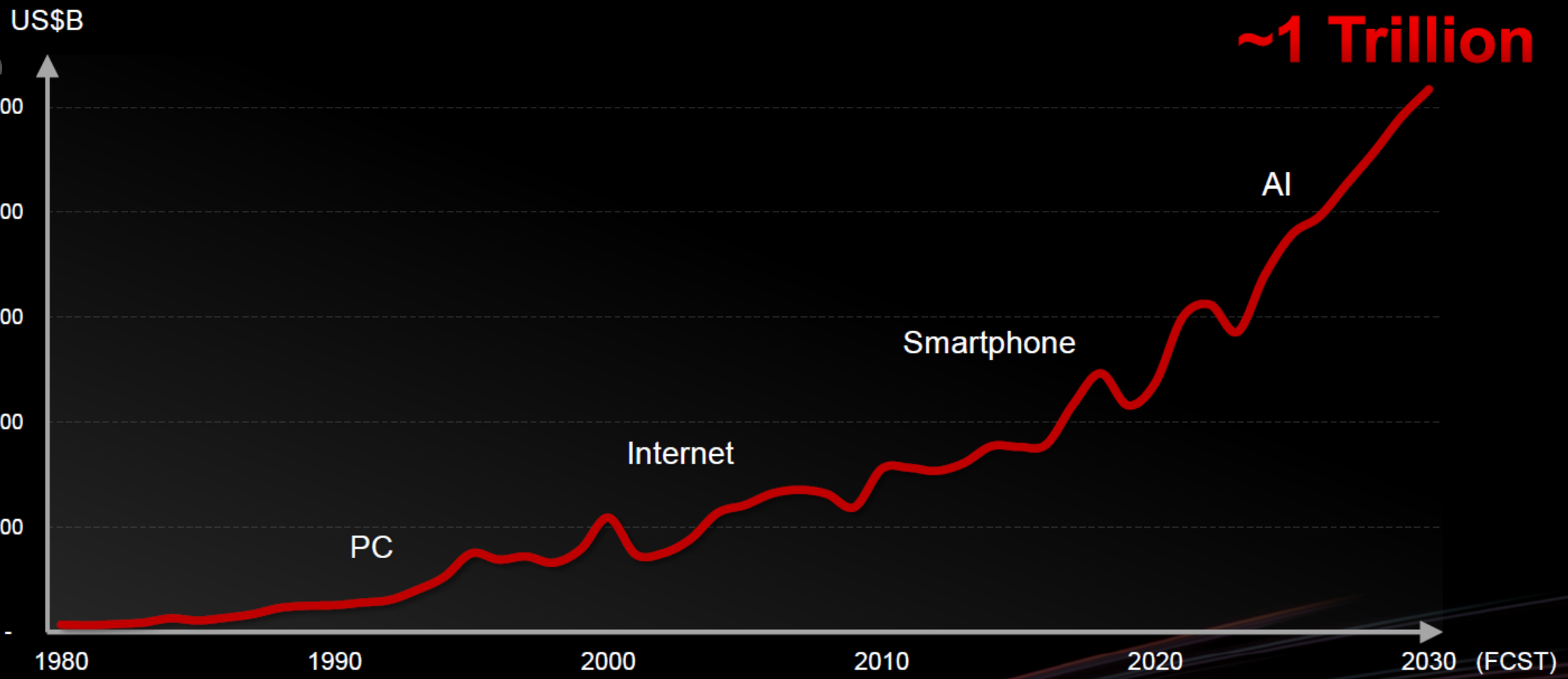
Corporate Snapshot

- Share Price (A$): 0.075
- Market Cap (A$): 62.6M
- Cash 31/12/2025 (A$): 4.9M

Board of Directors

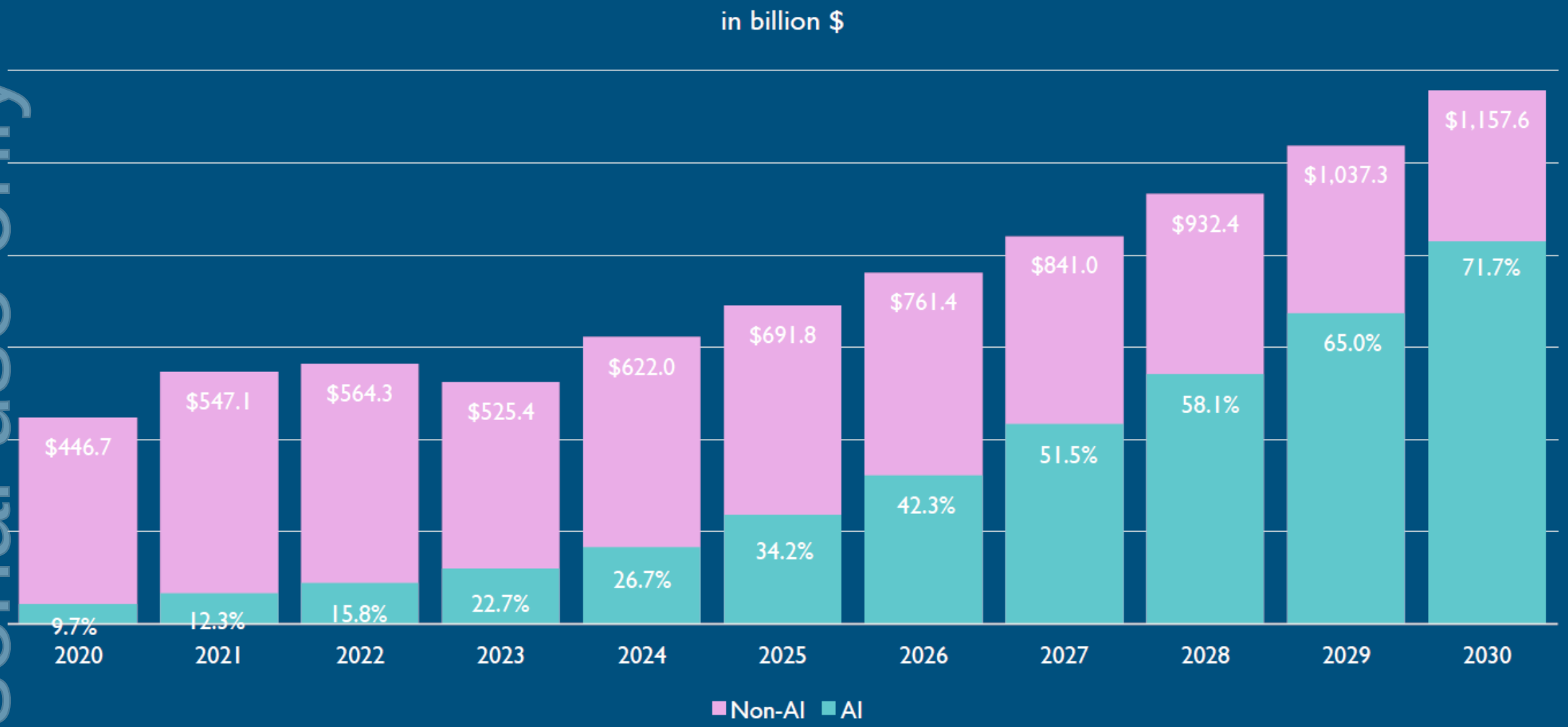
- Kevin Crofton – Chairman
- Arye Kohavi – Managing Director, CEO 2D Generation
- Dominic O'Hanlon – Non-Executive Director
- Blake Burton - Executive Director

Semiconductor Industry Outlook



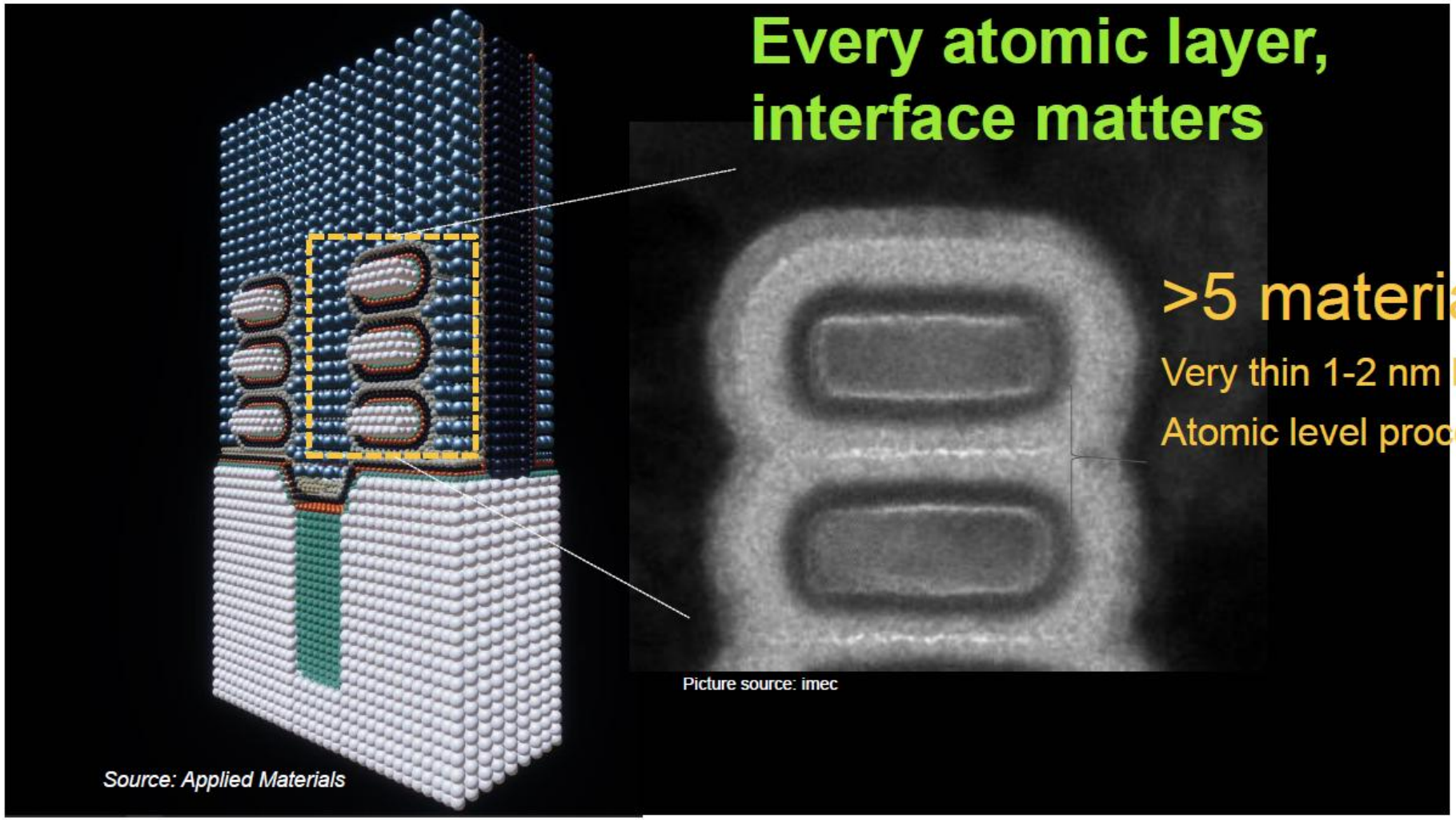
Source: TSMC

The AI market is expected to drive the semiconductor ecosystem



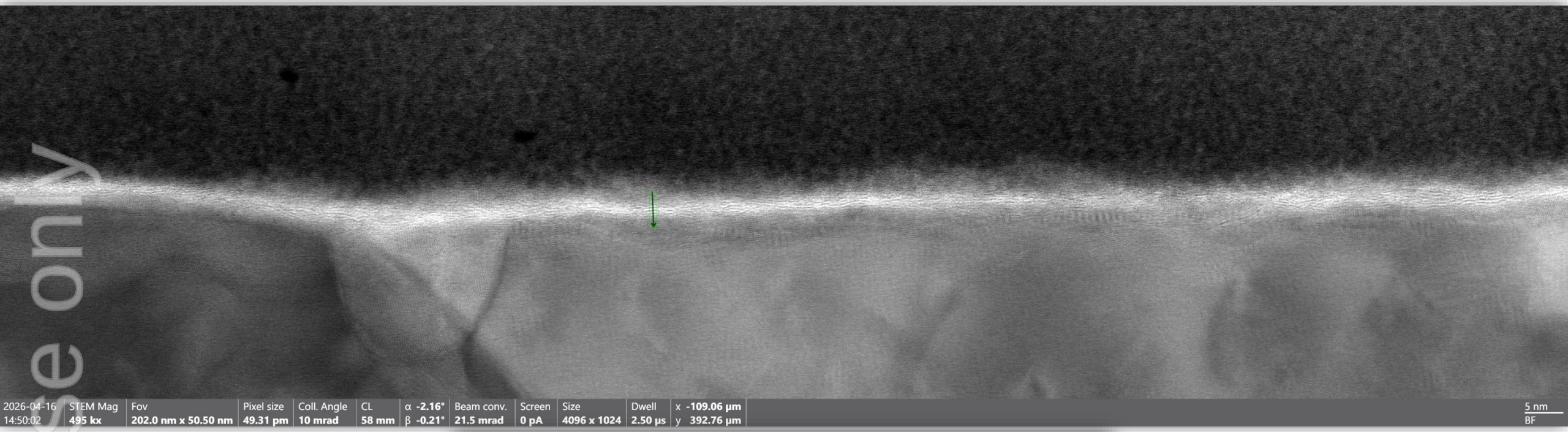
Source: IBS - Feb. 2025

We are in the “Atomic” world



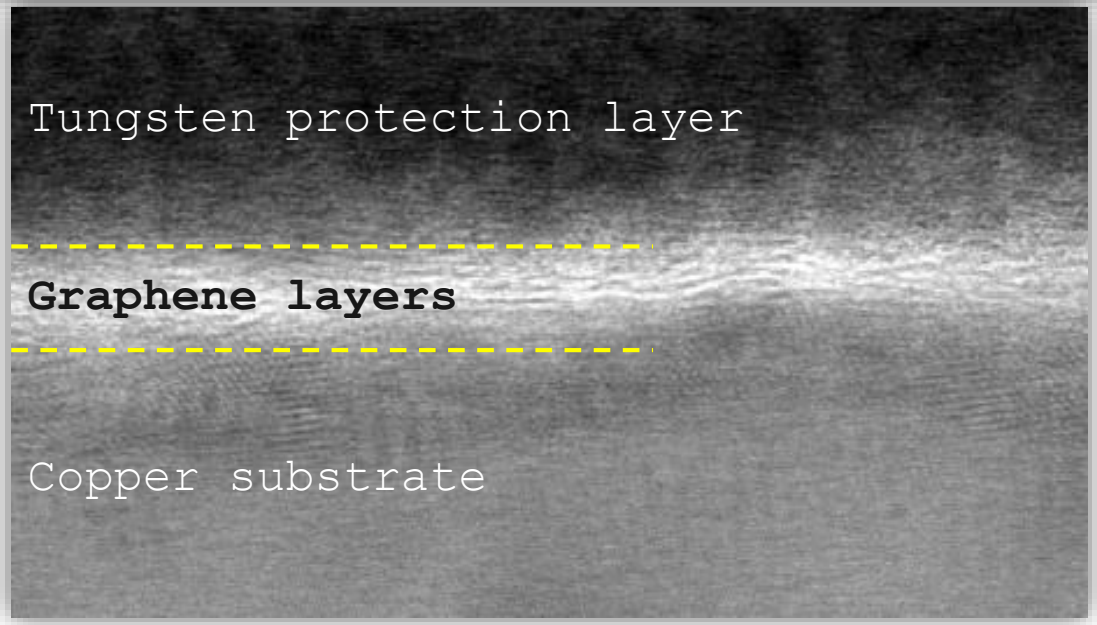
Innovative material & process engineering with Angstrom scale precision is inevitable for further breakthrough in CMOS technology !

Copper Substrate



~1 nm layer of graphene

$$d = 3.4 \pm 0.3 \text{ Å}$$



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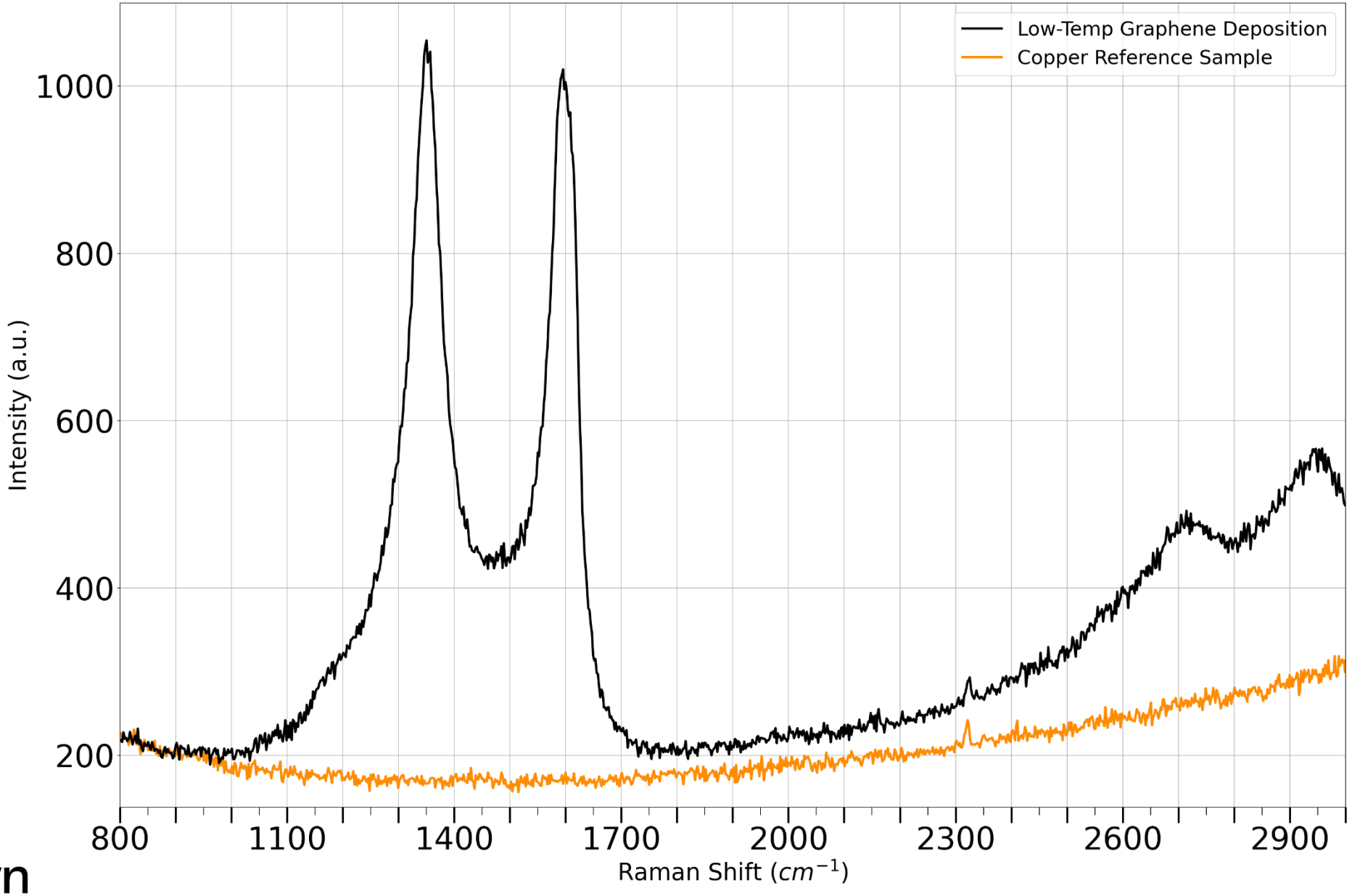
2D Generation
Enabling the Future of Semiconductors

Copper Substrate



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2D Generation
Enabling the Future of Semiconductors

2D Generation's Process

- ✓ Interconnect Dilemma – copper interconnects are a critical bottleneck for advanced chip development, and AI1 is a crucial step closer to the solution
- ✓ Characterization tests confirm continuous graphene films on a 1x1cm coupon
- ✓ The deposition process operates at temperatures well below semiconductor industry thermal limits (~450°C)
- ✓ AI1 can now enter the industry collaboration and commercial engagement phase, targeting global semiconductor giants
- ✓ Transitions the program to film optimization, repeatability testing and scale-up to wafer-level formats

The Challenge:

Multi-band Radar Systems Detect UAVs Earlier Than Ever

- Advances in radar technology mean UAVs can now be detected and tracked earlier than ever before. AI-assisted multi-band radar systems are increasingly capable of identifying small, low-altitude UAV signatures.
- Earlier detection significantly expands the reaction window for interception systems
- As a result, UAVs are increasingly intercepted or neutralized before reaching their intended target.

Materials used in UAVs fail against radar

- Carbon-based materials are excellent for aviation (light & strong), but fail completely against radar due to a large Radar Cross Section (RCS) signature.

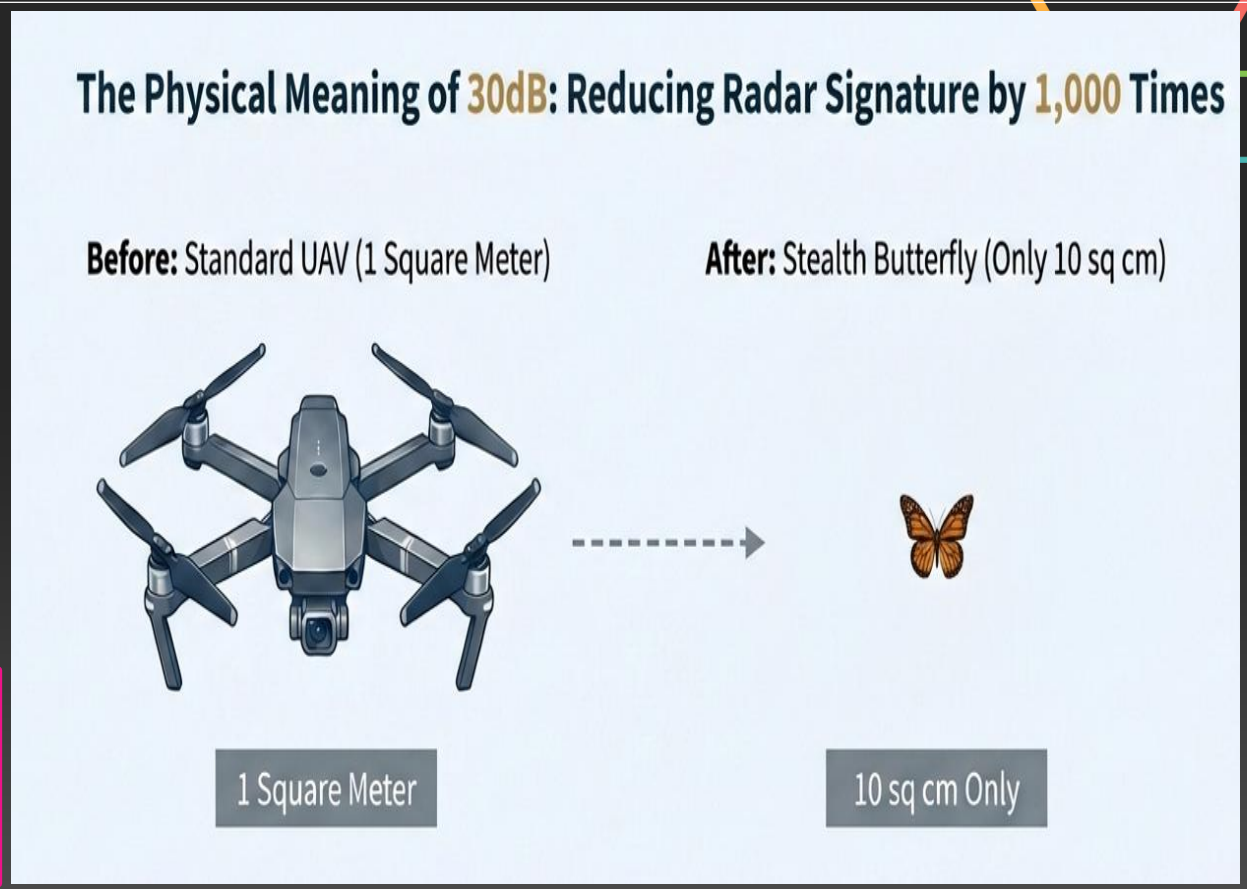
The Challenge:

Multi-band Radar Systems Detect UAVs Earlier Than Ever

How Modern Radar Systems Detect UAVs

- A radar system:
  - Transmits a pulse of radio-frequencies
  - The signals hit an object (e.g. a UAV)
  - Part of the signal is reflected back to the radar receiver
  - The radar measures the strength of the returned signal
- That signal strength is usually expressed in decibels (dB) because radar signals vary over extremely large ranges of power

Decibels are a logarithmic scale and a 30dB reduction can equate to a 1,000x decrease in radar signature.



The Adisyn Solution

Graphene-enhanced structural components which are light, strong and possesses significant radar-absorbing properties

Current Achievement:

Proof-of-Concept result - 20dB Reduction (100-fold decrease in radar return) successfully achieved in the lab by integrating advanced 2D graphene materials directly into the printed plastic matrix.

Target Performance:

Ongoing optimization targeting ~30 dB radar signature reduction (can equate to 1000-fold decrease in radar return). This reduction substantially surpasses current conventional products and would permit access to higher-margin markets

Clear Industry Demand

Strategic advantages for aerospace and defence sectors in using graphene-enhanced materials in UAV manufacturing include:

Reduced Radar Detection:
Drastic reduction in RCS, making it significantly harder for air defence systems to detect and track the UAV (or Loitering Munitions).

Enhanced Penetration Capability:
Enables silent approach to high-value targets without early detection.

High Survivability:
Increased probability of mission success with minimum losses.

Size of The Prize

Military Drones Market – Global Forecast

- **2026 Market Size: US$20.7Bn**
- **2035 Forecast Market Size: US$66.5Bn**

*"Several factors contribute to the growth of the military drones market, such as the increase in defense & homeland security spending, the continual shift towards unmanned and autonomous warfare, growing need for border security and maritime surveillance, and expansion of electronic warfare and payload capabilities."**

- **Further opportunities in aerospace and other markets**

* Military Drones Market Size & Share 2026 – 2035, Global Market Insights Inc.

Tel Aviv University Agreement

- ✓ Exclusive, worldwide commercialization rights secured for graphene-based radar absorption technology
- ✓ License and Research Agreement executed

Activity	Duration (in months)
Research – Electromagnetic testing of "building blocks" to find the optimal combinations. **Preparation and implementation of the intellectual property protection plan, including filing patents.**	3
Development - Building prototypes to prove the technology, to be selected together with potential customers, for components such as propellers, drone body parts, etc. The goal is to find the optimal combinations, including parameters such as weight, cost, and mechanical properties.	4
Integration - Integrating the components we manufacture into existing drones, and testing their suitability, performance, and impact on other systems.	4-6

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Clear Development Roadmap

Visible pathway towards development and eventual commercialisation of radar technology:

- **Proof of concept (20 dB) ✓**
- **Subsidiary – 2D Radar Absorbers Ltd ✓**
- **Manufacturer collaborations**
- **Defence-focused advisory board**
- **Ministry of Defence grant application**
- **Drone company collaborations**
- **Progression of commercial partnership**

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Kevin Crofton

Non-Executive Chairman

Kevin has 3 decades of Semiconductor industry experience. He has held significant management and leadership positions at Lam Research Corporation (Nasdaq:LRCX, US$96B market cap), KLA Corporation (Nasdaq:KLAC, US$91B market cap), Comet Holdings AG (SIX: COTN, CHF1.9B market cap), Newport Corporation (acquired for US$980M), NEXX Systems (acquired by Tokyo Electron) and Aviza Technology.

- **In 2006, Mr. Crofton led a P/E backed buyout of Aviza Technology UK to create what became SPTS Technologies, where he was President and Managing Director from 2006 to 2020, and created a GBP£500M turnover, highly profitable, market leading company. SPTS was bought by Orbotech, which was later acquired by KLA for $3.4B.**
- **From 2020 through 2022, Kevin was CEO of Comet AG, a listed company on the Swiss SIX exchange. Achieved 60% revenue growth to CHF$600m (A$1.06B), nearly doubling EBITDA performance, and delivered Market Cap growth from 0.8B to 2.2B CHF (~US$2.4 B).**
- **Mr Crofton served on the board of SEMI, the international industry association, for 8 years including as Vice Chair and Chair.**
- He was advisor to Senator Mark Warner on US CHIPS Act and Gov. Glen Youngkin on Virginia's Semiconductor Initiative.
- Throughout his career, Mr Crofton has been recognized for his contributions to the semiconductor industry. He is a published author of numerous technical papers, a sought-after semiconductor industry speaker, and winner of numerous awards including the MEMS Industry CEO of the year (2013) and the Queens Award for innovation, technology and export in 2008, 2014 and 2018.
- Mr. Crofton holds an MBA in International Business from American University and a BS Degree in Aerospace Engineering from Virginia Tech.

Arye Kohavi

CEO of 2D Generation, Director at Adisyn

Arye is an Israeli entrepreneur and innovator. He was the founder, president & Co-CEO of Water-Gen, which develops water-from-air and air dehumidification technologies. Kohavi holds a MBA (Finance) and a BA in Economics and Accounting, both from the Hebrew University in Jerusalem.

Awards:

- Arye has been chosen as one of the world's 100 Leading Global Thinkers, and one of the world's top innovators, by “Foreign Policy” magazine.
- Water-Gen, founded by Arye, was chosen as one of the World's 50 Most Innovative Companies, by “Fast Company” magazine.
- As part of Israel's 70th anniversary celebrations, the Israeli Ministry of Economy and Ynet readers chose Water-Gen as one of the “Nine Greatest Israeli Inventions of All Times”.
- Water-Gen's Genny was chosen as one of the world's 100 Best Inventions, by TIME magazine.

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Thank you

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