

ASX Announcement

16 March 2026

Defence Tech Subsidiary Established Following Radar Signature Reduction Breakthrough

Highlights

- Adisyn establishes new subsidiary 2D Radar Absorbers Ltd to progress radar signature reduction technologies for Drone, UAV, and other Defence applications
- Follows successful demonstration of up to 20dB radar signature reduction using graphene-enhanced composite materials
- Ongoing optimisation targeting ~30dB radar reduction, equivalent to a 1,000-fold decrease in radar return signal strength¹
- Development program to be conducted in collaboration with Tel Aviv University, led by globally recognised radar physics expert Professor Pavel Ginzburg
- Targeted R&D program commencing, including the engagement of a full team supported by Tel Aviv University
- The radar signature breakthrough represents a step change in drone and UAV mission success rates and may support a material reduction in the number of drones and UAV's required.
- Application being prepared for Israeli Ministry of Defence grant funding
- Market size for military drones alone globally²:
US\$20.7Bn (2026)
US\$66.5Bn (2035)
- Radar initiative represents a potential lucrative application of Adisyn's graphene expertise alongside its core semiconductor graphene interconnect program. Progress on the graphene interconnect program continues in accordance with previously disclosed milestones and will be reported separately

Adisyn Ltd (ASX: AI1) ("Adisyn" or "the Company") is pleased to announce the establishment of a new defence technology subsidiary, 2D Radar Absorbers Ltd, following the successful demonstration of up to 20dB radar signature reduction using graphene-enhanced composite materials in testing conducted in collaboration with Tel Aviv University³.

The Company is now progressing a Targeted development program aimed at optimising the materials to achieve approximately 30dB radar signature reduction.

¹ Refer ASX announcement dated 26 February 2026

² Refer to Military Drones Market Size & Share 2026 – 2035, Global Market Insights Inc.

³ Refer ASX announcement dated 26 February 2026

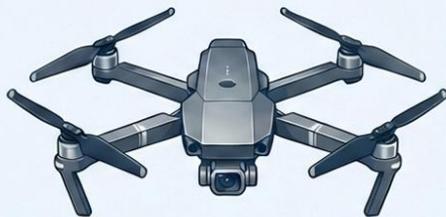
A reduction of this magnitude represents a massive 1,000-fold decrease in radar return signal strength, meaning a drone that previously appeared as a large object on radar would appear closer to the size of a large insect⁴ (see Diagram 1).

If achieved, such reductions may significantly reduce the radar detectability of drones and UAV platforms and have potential applications across defence, aerospace, and advanced materials sectors.

The Physical Meaning of 30dB: Reducing Radar Signature by 1,000 Times

Before: Standard UAV (1 Square Meter)

After: Stealth Butterfly (Only 10 sq cm)



1 Square Meter



10 sq cm Only

The decibel is a logarithmic unit. A 30dB reduction means a 1,000-fold decrease in radar return. The drone is completely absorbed into the ground's "background noise" and is identified by radar systems as a small bird or a large insect.

Diagram 1: Physical illustration of a 20dB (100-fold) and 30dB (1000-fold) reduction in radar signature.

Targeted Development Program

Adisy has initiated a structured development program with Tel Aviv University to further develop and optimise graphene-enhanced radar absorption materials.

The program will be led by Professor Pavel Ginzburg, Full Professor of Electrical Engineering at Tel Aviv University and a recognised global expert in radar physics and electromagnetic materials.

As part of the program:

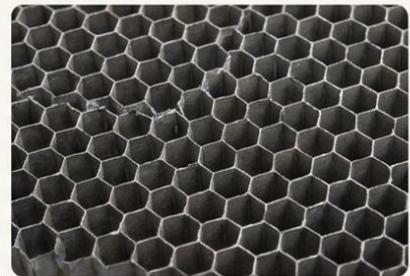
- A full-time researcher will be engaged within Professor Ginzburg's research team

⁴ Refer ASX announcement dated 26 February 2026

- Additional team members from Prof. Max Sokol Lab, focus on synthesis, processing, and property-driven design of advanced composites.
- Research will utilise specialised radar and materials laboratories at Tel Aviv University
- Work will focus on optimisation of graphene-enhanced composite structures targeting ~30dB radar signature reduction

Adisyn has the option to secure exclusive commercialisation rights to the technology developed under the joint research program.

Proven Feasibility: 20dB Goal Successfully Achieved in Lab



Current Achievement:

Proven 20dB Reduction

20dB with graphene composites compared to base materials

Successfully Completed

Proven reduction in radar signal return

Optimization Goal:

30dB

Optimization target for 12.2026

Defence Sector Engagement

The Company is preparing an application for grant funding support from the Israeli Ministry of Defence, in collaboration with the university development team.

The funding application reflects the potential strategic relevance of radar signature reduction technologies in modern drone, UAV and defence systems.

Adisyn is also progressing discussions regarding the establishment of an Advisory Board for the new subsidiary, which may include individuals with significant defence and aerospace sector experience.

Strategic Positioning

The radar signature reduction initiative represents a significant commercial application of Adisyn's graphene materials expertise.

The program is being developed alongside the Company's primary focus on its graphene semiconductor interconnect technology, which aims to address the performance limitations of copper interconnects in advanced semiconductor devices.

The Company believes its broader graphene know-how may enable multiple high-value applications across electronics, advanced materials and defence technologies.

The establishment of 2D Radar Absorbers Ltd provides a Targeted platform to progress the radar absorption technology and supports potential future strategic partnerships and commercialisation pathways.

Comment from Managing Director Arye Kohavi

“Recent laboratory results demonstrating a 20dB radar signature reduction highlight the potential of graphene-enhanced materials in radar absorption applications.

The establishment of 2D Radar Absorbers allows us to focus Targeted resources on advancing this technology alongside our core semiconductor program.

While our primary focus remains on graphene interconnect solutions for next-generation semiconductors, the radar absorption program represents an exciting additional opportunity emerging from our graphene expertise. I can envisage a time in the not-too-distant future where this incredible technology could be spun out into a separate vehicle for the benefit of our shareholders.”

Next Steps

Key milestones expected over the coming months include:

- Finalisation of commercial terms with Tel Aviv University
- Expansion of the development program and continued materials optimisation
- Submission of the Israeli Ministry of Defence grant funding application
- Further technical testing of graphene-enhanced composite structures

Adisyn plans to continually update shareholders as key milestones are achieved.

This announcement has been approved for release by the Board of Adisyn Ltd.

-ENDS-

Further Information:

Investors

Arye Kohavi
Managing Director, Adisyn
E: investors@adisyn.com
T: 1300 331 888

Media

David Tasker
Chapter One Advisors
E: dtasker@chapteroneadvisors.com.au
T: +61 433 112 936



About Adisyn

Adisyn Ltd (ASX: AI1) is an Australian technology company developing advanced graphene materials for high-value applications in the semiconductor and advanced materials sectors.

The Company's core focus is the development of a patented low-temperature Atomic Layer Deposition (ALD) process designed to enable direct graphene growth on semiconductor wafers. This technology aims to address the performance limitations of copper interconnects and support faster, more energy-efficient next-generation semiconductor devices.

Adisyn is also exploring additional commercial applications of its graphene expertise, including advanced composite materials designed to reduce radar signatures in UAV and defence platforms.

Adisyn's broader business includes Adisyn Services, which provides managed IT services, cloud, cybersecurity and artificial intelligence solutions to Australian small and medium-sized enterprises.

Forward-looking statements:

Statements contained in this release, particularly those regarding possible or assumed future performance, revenue, costs, dividends, production levels or rates, prices, or potential growth of Adisyn Ltd are, or may be, forward-looking statements. Such statements relate to future events and expectations and as such, involve known and unknown risks and uncertainties. These forward-looking statements are not guarantees or predictions of future performance and involve known and unknown risks, uncertainties, and other factors, many of which are beyond the Company's control, and which may cause actual results to differ materially from those expressed in the statements contained in this release.

The Company cautions shareholders and prospective shareholders not to put undue reliance on forward-looking statements, which reflect the Company's expectations only as of the date of this announcement. The Company disclaims any obligation to update or revise any forward-looking information, whether as a result of new information, future events or otherwise, except as required by law.