

ASX Announcement

26 February 2026

Adisyn successfully tests additional use case for proprietary graphene technology

Adisyn & Tel Aviv University successfully demonstrate 20dB Radar Signature Reduction

Highlights:

- **Adisyn’s development of low temperature ALD graphene deposition technology for semiconductor interconnect applications remains on track**
- **In addition, Adisyn has completed an initial proof-of-concept test demonstrating that graphene-enhanced composite materials can reduce radar reflection characteristics for drones**
- **Laboratory testing confirmed up to 20dB reduction in radar reflection using a graphene-based composite**
- **Further optimisation underway targeting up to a 30dB reduction. A reduction of this magnitude in radar signatures means that the actual physical radar cross-section (the size of the target as "seen" by the radar) is reduced by a factor of 1,000**
- **Technology has potential application in UAV, defence, aerospace, and advanced composite materials markets, where radar signature management is critical**
- **Program is being led by internationally recognised radar physicist Professor Pavel Ginzburg, Tel Aviv University**

Adisyn Ltd (ASX: AI1) (“Adisyn” or the “Company”) advises that it has completed an initial proof-of-concept (“POC”) program in collaboration with Ramot, the technology transfer company of Tel Aviv University (TAU), demonstrating radar reflection reduction using graphene-enhanced composite materials. Laboratory testing of composite samples demonstrated up to 20dB reduction in radar reflection coefficient relative to baseline materials under controlled testing conditions.

The Company’s development of its graphene deposition technology for semiconductor interconnects is ongoing, and shareholders will receive an update on this program in the coming weeks. The interconnect program is on schedule and making great progress. In addition, as the Company has previously presented to shareholders (ASX: 20 Oct 2025), there are likely to be alternative industries that would also benefit from Adisyn’s core technology.

Strategic Radar Industry Relevance

Radar signature management is a material design consideration in the UAV, aerospace and defence sectors, particularly as unmanned platforms become smaller, lighter and more widely deployed.

Possible advantages:

- **Shrinking the Reaction Window:** Even if the drone is eventually detected, it happens very close to the target. Interception systems (like rapid-fire anti-aircraft guns or jammer networks) will only have a tiny window of a few seconds to lock on and engage.
- **Exploiting Ground Clutter:** Small drones already fly low and use topographical masking. Combining low-altitude flight with a 30dB reduction makes the drone virtually invisible to many terrestrial radar systems, as it gets lost in the "clutter" of ground reflections. If your drone originally appeared to a radar system as a 1-square-metre object, it now reflects radar waves with the intensity of an object measuring only 10 square centimeters, roughly the size of a large insect.

The Company is at an early stage of technical validation. However, the Board considers that successful optimisation could position Adisyn within a specialised segment of the advanced 2D materials market focused on signature-aware composite systems.

Development Pathway and Target Performance

Following completion of the POC:

- The research team will continue laboratory optimisation work
- Further validation would be required to assess scalability, performance consistency, and commercial viability

Under the existing collaboration framework, Adisyn holds a 12-month option to receive exclusive, perpetual rights for the technology, subject to agreed terms.

Scientific Leadership – Professor Pavel Ginzburg

The radar research program is led by Professor Pavel Ginzburg, Full Professor of Electrical Engineering at Tel Aviv University.

Professor Ginzburg specialises in radar physics, electromagnetics, and scattering control, and has published extensively in these fields. His involvement provides academic oversight of the program's proof-of-concept phase.

Core Semiconductor Graphene Interconnect Program Remains Primary Focus

This radar-related initiative leverages Adisyn's graphene materials expertise but does not alter the Company's primary semiconductor roadmap (ASX: 6 Jan 2026).



Adisyn's core focus remains firmly on the development and commercialisation of its low-temperature ALD graphene deposition technology for semiconductor interconnect applications. Progress on that program continues in accordance with previously disclosed milestones and will be reported separately.

The radar signature program is being advanced as a parallel, but secondary stream to the imperative semiconductor industry opportunity. It could provide additional commercial opportunities that capitalise on the Company's capability in graphene.

Further updates will be provided as material milestones are achieved.

-ENDS-

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

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About Adisyn

Adisyn is a highly innovative ASX-listed company specialising in the development of graphene-based solutions for the semiconductor industry and the provision of managed IT services for the SME market. The Company's graphene technology is focused on advancing a patented low-temperature Atomic Layer Deposition (ALD) process to enable direct graphene growth on semiconductor wafers. This technology is anticipated to address the performance limits of copper interconnects and deliver faster, stronger, and more energy-efficient computer processing. The Company's broader technology platform is supported by Adisyn Services which provides managed IT solutions, including cloud, cybersecurity and artificial intelligence, primarily to Australian SMEs.

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.

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