

ASX Announcement

16 June 2025

## Israel Innovation Authority Approves Successful Completion of Graphene R&D Program

### Highlights

- **Project focused on initial demonstration of low-temperature graphene deposition—critical to next-gen semiconductor performance in AI and high-performance computing**
- **Total approved grant of A\$520,000 represents 50% of project costs, validating Adisyn’s graphene interconnect development**
- **Final grant payment of A\$100,000 received following successful audit and completion of Israel Innovation Authority (IIA) R&D program**
- **Approval follows recent delivery of a state-of-the-art ALD system to Adisyn’s 2D Generation facility**

Adisyn Ltd (ASX: AI1, “Adisyn” or “the Company”) announces the successful completion of 2D Generation’s, the Company’s wholly owned subsidiary, R&D program funded by the Israel Innovation Authority (IIA). The total grant received by 2D Generation to date is A\$520,000—representing 50% of the total R&D expenditure (A\$1.04 million) undertaken by 2D Generation from May 2024 to February 2025. While A\$420k of the grant was received by 2D Generation prior to it being acquired by the Company (ASX: 9 Jan 2025), the IIA’s decision to approve the full grant amount followed a comprehensive technical and financial audit by the IIA, validating the Company’s execution and results, and has resulted in the Company receiving the final A\$100,000 grant payment.

### Strong Endorsement from a Global Innovation Leader

The IIA is internationally regarded for its robust due diligence processes and plays a central role in advancing Israel’s leadership in semiconductor and deep-tech innovation. Its support reflects strong confidence in the scientific and commercial potential of Adisyn’s proprietary low-temperature graphene interconnect deposition technology.

The IIA’s assessment of the project included:

- The Company’s innovation and intellectual property,
- Market size and long-term commercial potential,
- Team capability, technical progress, and use of consultants,
- Resource planning and compliance with funding criteria.

The grant was made under the Startup Fund program

([https://innovationisrael.org.il/en/programs/startup-fund/#about\\_route](https://innovationisrael.org.il/en/programs/startup-fund/#about_route)), which supports companies pursuing groundbreaking R&D with global impact potential.

## Technology Overview: Graphene Interconnects for a New Era of Computing

Adisyn's 2D Generation subsidiary is developing an innovative semiconductor interconnect solution based on graphene—a single-layer, two-dimensional carbon material with exceptional electronic, thermal, and mechanical properties.

The Company's ALD-based (Atomic Layer Deposition) process aims to produce high-quality graphene films directly onto semiconductor wafers at low temperatures, overcoming key barriers that have previously limited graphene's adoption in chip manufacturing and potentially offers a replacement for industry standard Copper interconnect architectures.

Key advantages include:

- Up to 200x higher electron mobility than copper,
- Reduced power consumption and resistive heating,
- Minimal signal degradation at advanced (sub-5nm) geometries,
- Compatibility with existing semiconductor process flows.

The solution is aimed at unlocking faster, greener, and more scalable chips for AI, data centres, and edge computing—markets demanding ultra-high performance and thermal efficiency.

### Strategic Outlook

Commenting on the achievement, Adisyn Chairman Kevin Crofton said:

"The final approval from the IIA represents more than funding—it is a strong endorsement from one of the world's most credible innovation agencies. With the delivery of the new ALD system announced last week, and the use of the ALD system in TAU, we are able to carry on the work partially funded under the IIA grant and proceed to demonstrating technical relevance to the industry. Our ALD systems, upgraded infrastructure, and a growing IP portfolio, uniquely positions Adisyn to close the gap between scientific advancement and commercial application in the semiconductor space."

This milestone reinforces Adisyn's broader mission to address key bottlenecks in chip performance and energy efficiency—especially in the context of AI, 5G, and advanced computing markets.

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

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#### **About 2D Generation**

2D Generation is a high-tech company specialising in graphene-based solutions for the semiconductor industry. Founded by experienced entrepreneurs and scientists, the company is dedicated to overcoming current technological limitations by developing faster, stronger, and more energy-efficient computer processing solutions. These advancements will support the next generation of AI, data storage, telecommunications, cybersecurity, mobile devices, and more.

#### **About Adisyn**

Adisyn is a leading provider of managed technology solutions, primarily serving the SME market. The Company leverages cutting-edge technologies, including artificial intelligence and cybersecurity, to deliver bespoke solutions. Through its wholly owned subsidiary, **2D Generation**, Adisyn is advancing graphene-based semiconductor technologies to overcome industry limitations and drive innovation across sectors including AI, telecommunications, and data storage.

#### **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.