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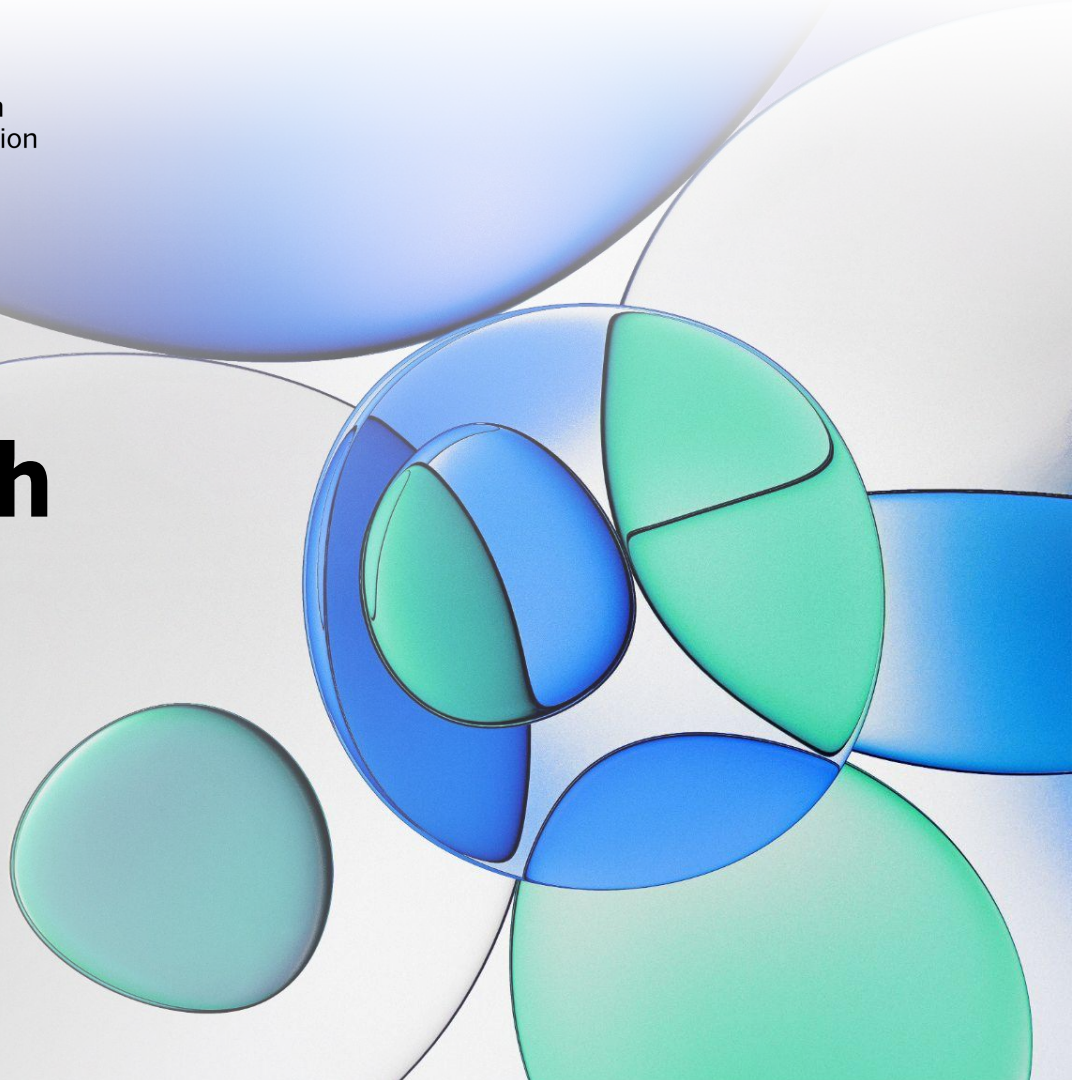
Israel Innovation Authority

Israeli Deep Tech Report 2025



September 2025

Foreword

The global tech industry is undergoing a profound transformation, shaped by three major forces: A shift in the global investment climate, marked by increased investor caution; The rise of Artificial Intelligence and Deep Tech, which are reshaping the structure and nature of the industry, characterized by long time-to-market, significant capital requirements and a need for highly skilled talent; and massive government funding as part of a global technological arms race, with superpowers investing billions to develop groundbreaking deep technologies.

Israel ranks among the global leaders in AI and Deep Tech investments and startup activity but must take action to preserve its advantage amid growing competition. This report presents a snapshot of the Israeli Deep Tech ecosystem but should be read in the context of these underlying trends, which influence macroeconomic indicators and the future development of the industry. The impact of AI is not yet fully reflected in this edition, but it will play a significant role in future reports.
Since 2019, Israeli Deep Tech startups have attracted over $28 billion in investments - representing more than one-third of all venture capital funding in the country. In the first 8 months of 2025, Deep Tech funding surged to $2.5 billion and may signal a turning point after several years of decline.

Israel is home to 1,400 VC-backed Deep Tech startups, including 5 AI unicorns and 6 in semiconductors. In the Western world, Israel ranks fifth for Deep Tech funding, second only to US hubs like Bay Area, Boston, Los Angeles and New York, and ahead of London and Paris. Medical Devices, Biotech & Pharma and AI are the largest Deep Tech segments in Israel by number of startups and funding. Semiconductors, AI, Cybersecurity and Medical devices startups created ~$24B in value each. Notably, Israel holds over 20% of global cybersecurity funding, and 9-10% in Medical Devices and AgriFood.
To strengthen this leadership, the Israel Innovation Authority is investing in early-stage Deep Tech companies through the newly launched Startup Fund and is launching a new fund of funds to augment specialized Deep Tech VC funds. In addition, the Authority finance Venture Studios to support the formation and acceleration of Deep Tech ventures in sectors with limited private capital availability.

In addition, the Authority is advancing national programs in Artificial Intelligence, Bio-Convergence, Quantum Computing, and Climate, while investing in advanced technological infrastructures such as a supercomputer for training large models and laboratories for bio-devices and bio-chips.
These efforts, combined with Israel's strong R&D foundation and entrepreneurial spirit, position the country at the forefront, ready to lead the next wave of global Deep Tech innovation.

Facing global tectonic shifts, Israel requires a dynamic and creative strategy and significant investments to address the complex challenges of this era: accelerating investments in strategic domains, developing advanced technological infrastructures, and continuing to nurture the entrepreneurial ecosystem and Israeli human capital across all sectors. Deep Tech is Israel's most important national resource today and maintaining its status as a growth engine requires continued proactive, coordinated, and strategic action.

I would like to thank Dealroom for their collaboration in providing data and insights into this report and applaud the professionalism and dedication of my team throughout the process.

Dror Bin
CEO

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Israel Innovation
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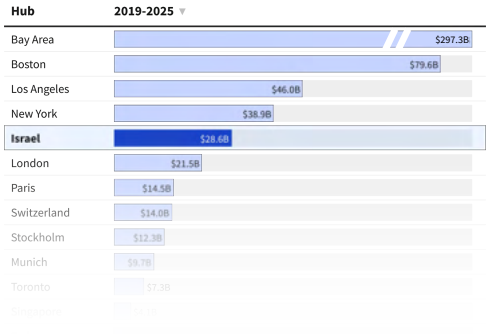
Key Takeaways

Israel ranks 5th most Deep Tech and Life Sciences focused hub in the period 2019-2025 globally, 1st outside of the US.

Since 2019, over one-third of total VC in Israel has consistently flowed into Deep Tech and Life Sciences, driven mostly by Deep tech, amounting to over $28B. In that period, on average 370 unique investors funded this segment yearly. Israel also ranks 5th globally with $2.9K of Deep Tech & Life Sciences VC investment allocated per capita since 2019.

Between 2017 and 2024, the share of Israeli VC flowing into Deep Tech and Life Sciences was in overall decline. But 2025 marks a potential turning point, already at 39%, led by Deep Tech software.

Share of total VC funding allocated in Deep Tech and Life Sciences (2025)

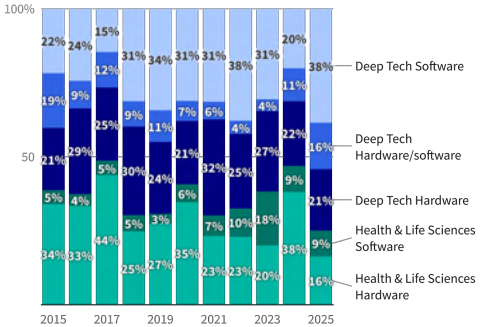


Both Deep Tech software and Health & Life Sciences software have seen significant growth in recent years.

When compared to other major global hubs Israel demonstrates a highly diversified tech ecosystem, showing strong capabilities across all major domains.

In Deep Tech and Life Sciences software, Enterprise remains the most funded sector, but Security, Semiconductors, and Health have gained momentum over the past decade.

VC investment in Israeli Deep Tech and Life Sciences startups by technology



Israel is showing particular strength in AI x Deep Tech and Medical Devices.

Private Israeli Deep Tech and Life Sciences startups are worth over $119B, up over 15x in a decade. Israel counts 39 thoroughbreds &/or unicorns in this sector.

AI, Medical devices, and Biotech & Pharma have the largest pool of VC backed companies, with AI and Medical devices also raising the most funding in recent years. 2025 has been a standout year for AI and Quantum VC activity.

Cybersecurity is instead the segment where Israel claims the largest share of global funding with over 20%, followed by Medical devices and AgriFood at 9-10%.

Number of startups, value created and VC funding in selected Deep Tech segments in Israel

	Number of VC-backed startups	Enterprise Value	Funding (2019-2025)	% of Global Funding (2019-2025)	Funding 2024-2025
Medical Devices	269	$23.6B	$4.4B	9.6%	$928.7M
AI	146	$24.3B	$3.4B	1.8%	$937.0M
AgriFood	117	$8.4B	$2.4B	8.7%	$220.9M
Semicon--ductors	96	$24.4B	$2.8B	4.0%	$400.5M
Quantum	12	$2.2B	$580.8M	5.9%	$73.2M

Source: Dealroom.co

Deep Tech defined

Deep Tech is technology that is based on **tangible engineering innovation or scientific advances and discoveries** applied for the first time as a product, often aiming to solve society's biggest issues.

Practically, a company is considered Deep Tech based on

Primary criteria

Time to market / Complexity: The company is working with a technology that takes a **long time to reach market-ready maturity** due to the **complexity and novelty of the research and development** involved. It thus employs a lot of highly educated staff early on and may create novel hardware or intellectual properties.

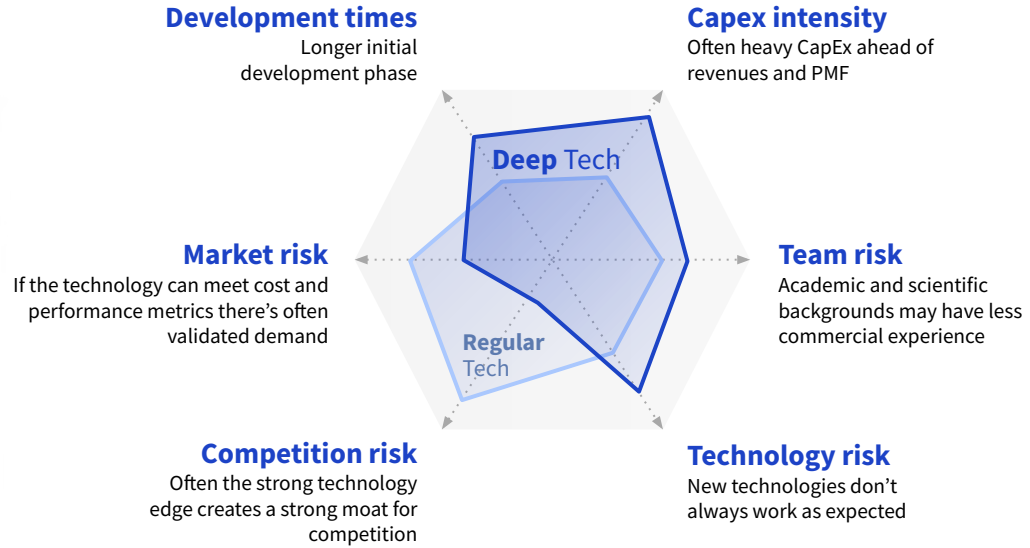
Capital requirement: The company's technology should **require substantial investment** to fund the research, development, testing, and scaling of the product or service.

Secondary criteria

IP and spinouts: companies holding significant IP and commercializing research innovations are more likely to be Deep Tech

Scope of this report: In this report, we explore innovations in **Deep Tech**, as defined above, as well as in the **Life Sciences sector**.

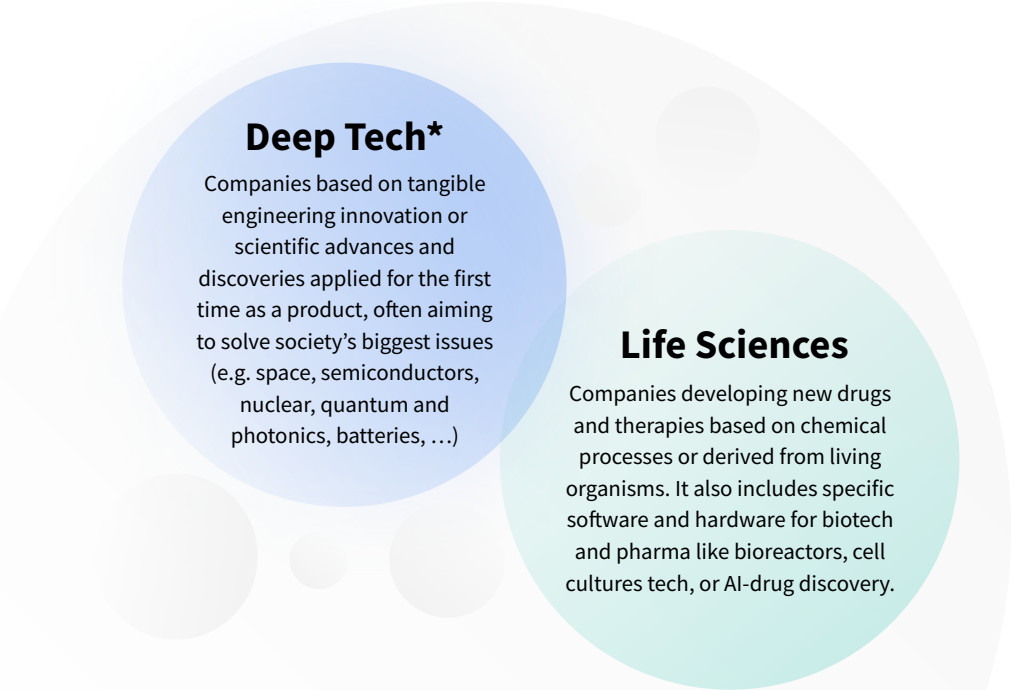
Differences in risk profile Deep Tech vs Regular Tech startups



Source: The 2025 European Deep Tech Report by Dealroom, Lakestar, Walden Catalyst and Hello Tomorrow
Examples of which startup segments are considered Deep Tech or not by sector can be found in the appendix

Deep Tech and Life Sciences

In this report, we explore innovations in **Deep Tech**, as well as in the **Life Sciences sector**. Startups at the intersection of Deep Tech and Life Sciences (e.g. AI drug discovery, TechBio etc.) are counted within Life Sciences.



Life Sciences definition

Startups in (Health) Life Sciences, also commonly referred to as Biotech and Pharma, focus on **developing new drugs and therapies** based on chemical processes or derived from living organisms **to improve human health**. This also includes companies whose primary focus is software and hardware products for the Life Sciences sector, such as bioreactors, cell culture tech, proteomics and sequencing, or AI-drug discovery. These companies, sometimes referred to as TechBio, are often considered to be both Life Sciences and Deep Tech; in this report, they are assigned to Life Sciences to avoid overlaps.

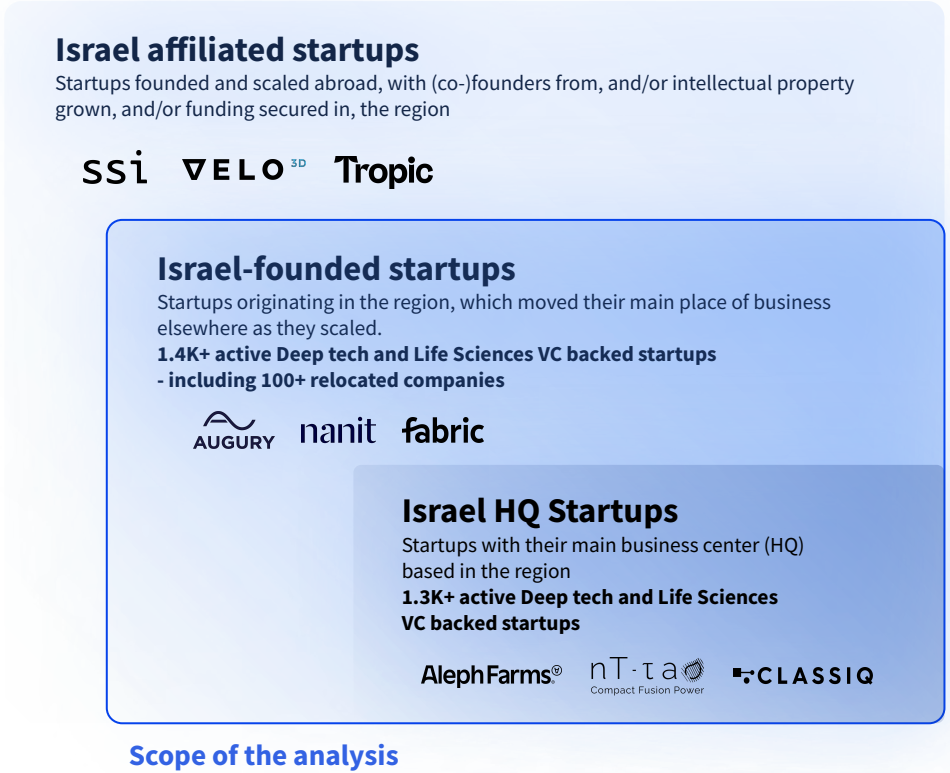
It does **not include** Health sectors such as Medical Devices (device intended to be used for medical purposes and subjected to regulatory approval) and Digital Therapeutics (evidence-based therapeutic interventions driven by software to prevent, manage, or treat a medical disorder or disease), which are instead included in Deep Tech if they fit the criteria of time to market, complexity, capital requirement and research-intensiveness.

It does **not include** biotech applications in **sectors beyond health**, such as agritech and foodtech (e.g. crop engineering, cultivated meat, precision fermentation), chemicals and materials (e.g. biomaterials and biomanufacturing) and others. Those biotech companies are included in Deep Tech if they meet the criteria of time to market, complexity, capital requirements, and research intensity.

It does **not include** most digital health platforms for example Electronic Health Records softwares or other organizational SaaS for hospitals and practitioners, these are not considered deep tech either.

Source: The 2025 European Deep Tech Report by Dealroom, Lakestar, Walden Catalyst and Hello Tomorrow
*Examples of which startup segments are considered Deep Tech or not by sector can be found in the appendix

Geographical Scope



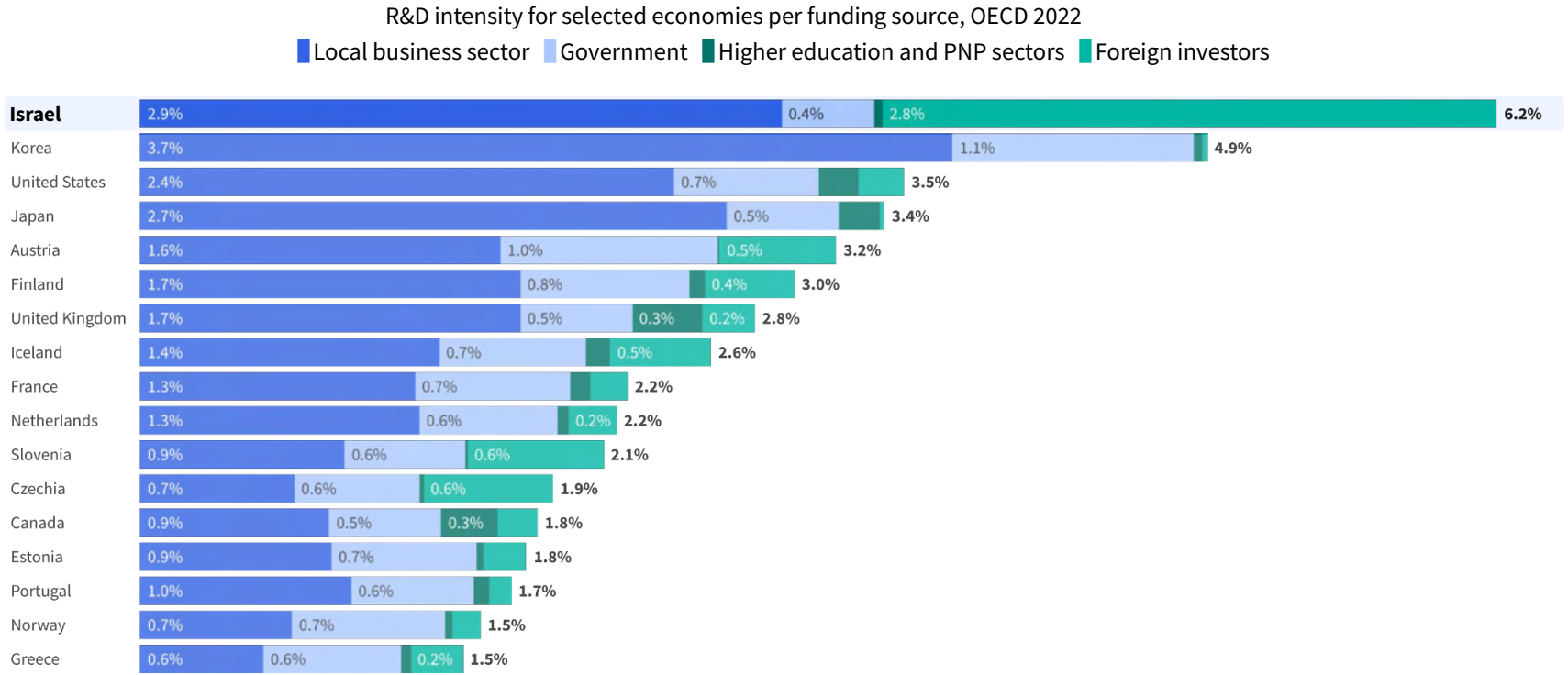
Israeli startups are defined as companies that either:

- have their **headquarters in Israel** and maintain a significant presence in the country, or
- were originally founded in Israel, even if they have since relocated their headquarters abroad.

The nationality of the founders and the origin of the underlying technology are not considered determining factors by themselves. Startups founded by Israeli nationals entirely abroad, with little operational or historical ties to Israel, are excluded from this analysis.

Source: Dealroom.co

Israel leads the world in R&D intensity, investing 6.2% of its GDP, driven largely by its dynamic private sector and strong foreign investment



Source: OECD Data explorer

The Israeli tech ecosystem has 1.4K+ VC-backed startups in Deep tech and Life Sciences, and already created 39 companies with $100M+ revenues and/or $1B+ valuation

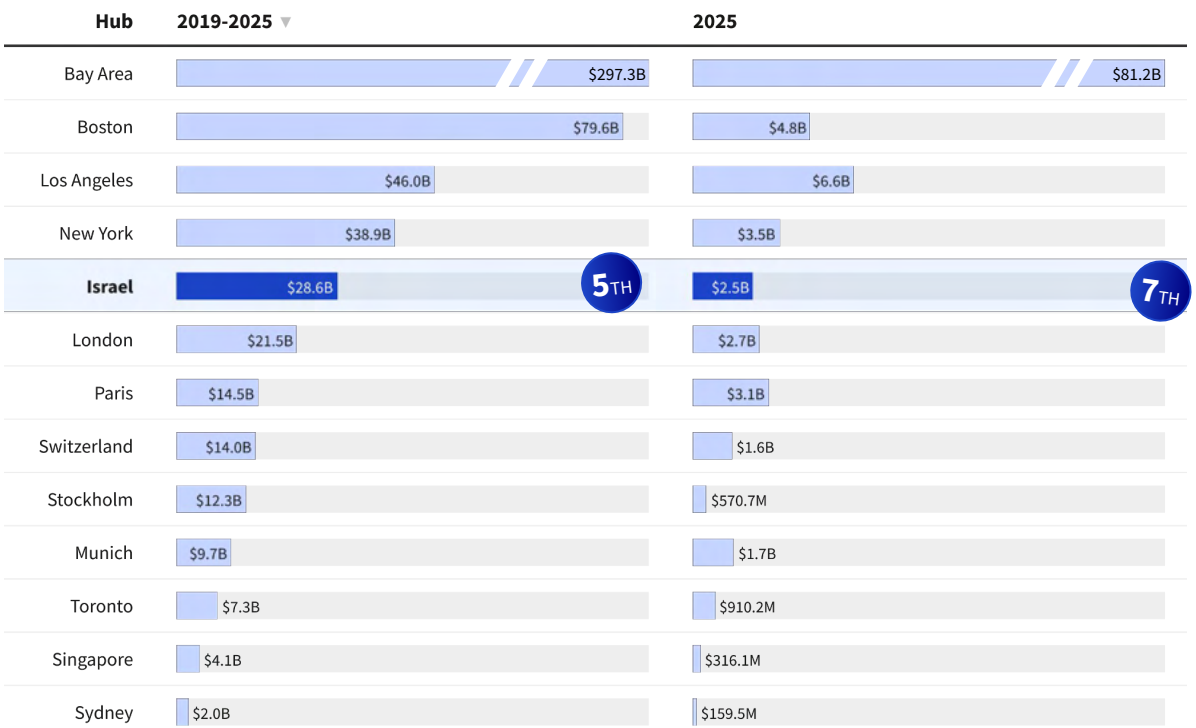
Flow of new startups	Pool of ±1.4K VC-backed Deep Tech and Life Sciences companies HQ or founded in Israel			Outcomes to date	
40+ startups raise their first VC round each year since 2019	**994** Startups (<$15M funding)	**369** Breakouts ($15–100M funding)	**121** Scaleups ($100M+ funding)	**52 Colts** ($25-100M revenue)	**39 Thoroughbreds** *and/or* **Unicorns** ($100M+ revenue); ($1B+ value)
% of all Israeli startups - all sectors included	**23%**	**38%**	**46%**	**25%**	**30%**

Source: Dealroom.co; Includes startups HQ'd or founded in Israel; excludes closed startups. Startup stage includes startups with undisclosed funding. Pre-funding startups include only those founded since 2019, with notable activity and no publicly disclosed round

Israeli Deep tech and Life Sciences startups have raised over $28B since 2019, more than any selected hub outside the US (London, Switzerland, Paris, …)

Israel is closely followed by London in Deep tech & Life sciences VC funding since 2019, though London remains slightly ahead in 2025 so far

Deep Tech and Life Sciences VC investment, by selected hubs (2019-2025 and 2025)

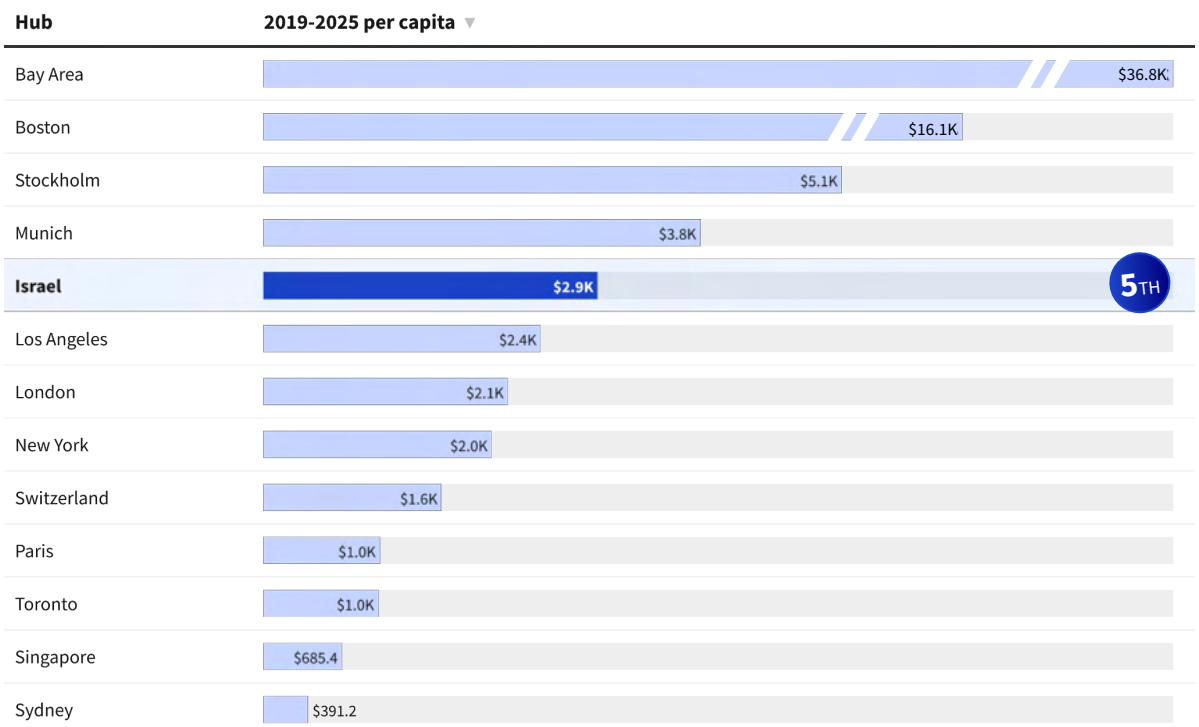


Source: Dealroom.co; Bay Area includes $40B raised by OpenAI in March 2025. Selected hubs shown based on relevance for comparison to Israel. Not an exhaustive list (e.g. Austin not included)
2025 data as of September 2025.

Israel is also a leading hub in Deep Tech & Life Sciences VC per capita, with $2.9K VC investment raised per inhabitant

Israel ranks 5th per capita, following Bay Area and Boston in the US and Stockholm and Munich in Europe, ahead of Los Angeles and London

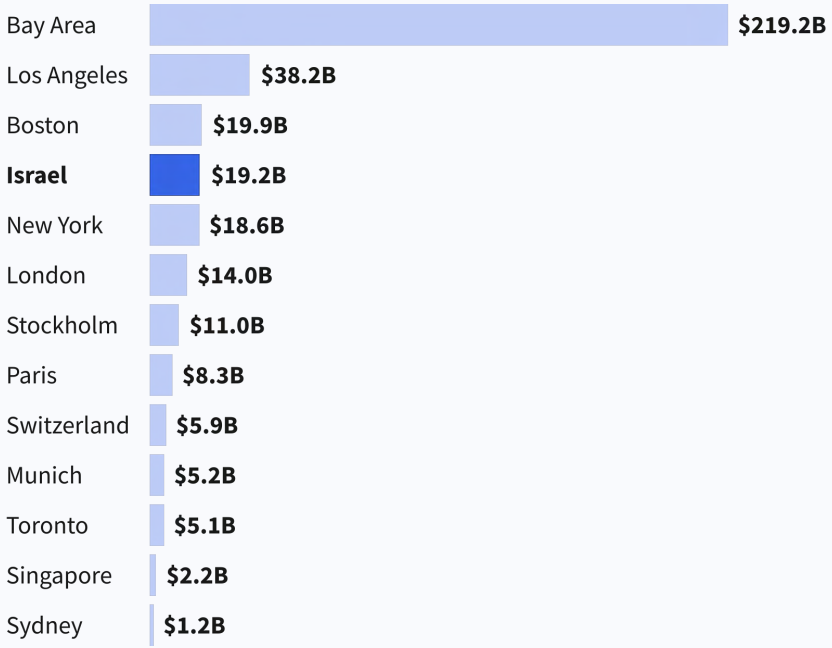
Deep Tech and Life Sciences VC investment per capita, by selected hubs (2019-2025)



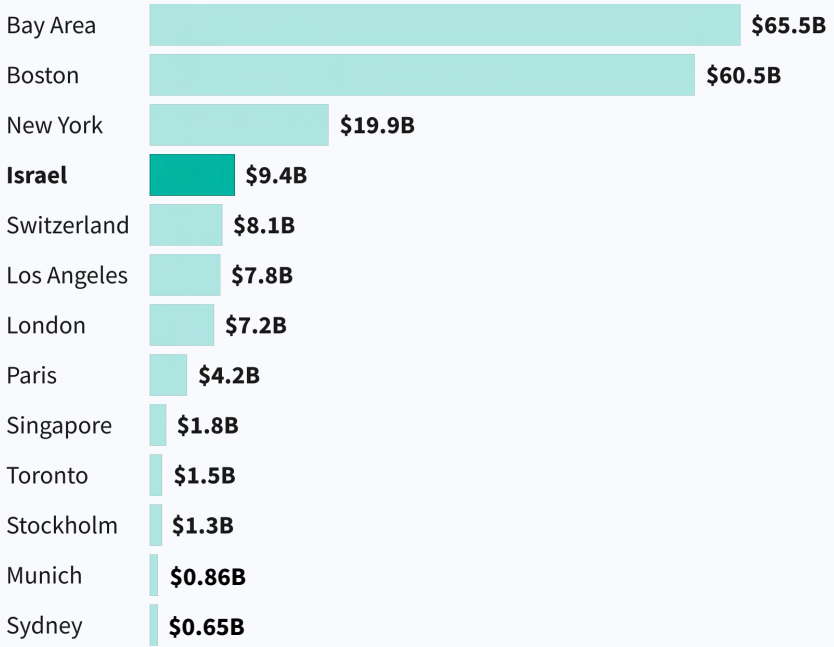
Source: Dealroom.co; Selected hubs shown based on relevance for comparison to Israel. Not an exhaustive list (e.g. Austin not included)

Israel ranks 4th in Deep Tech and in Health & Life Sciences among selected hubs

VC investment in **Deep tech** (exc. Health & Life Sciences) (2019-2025)

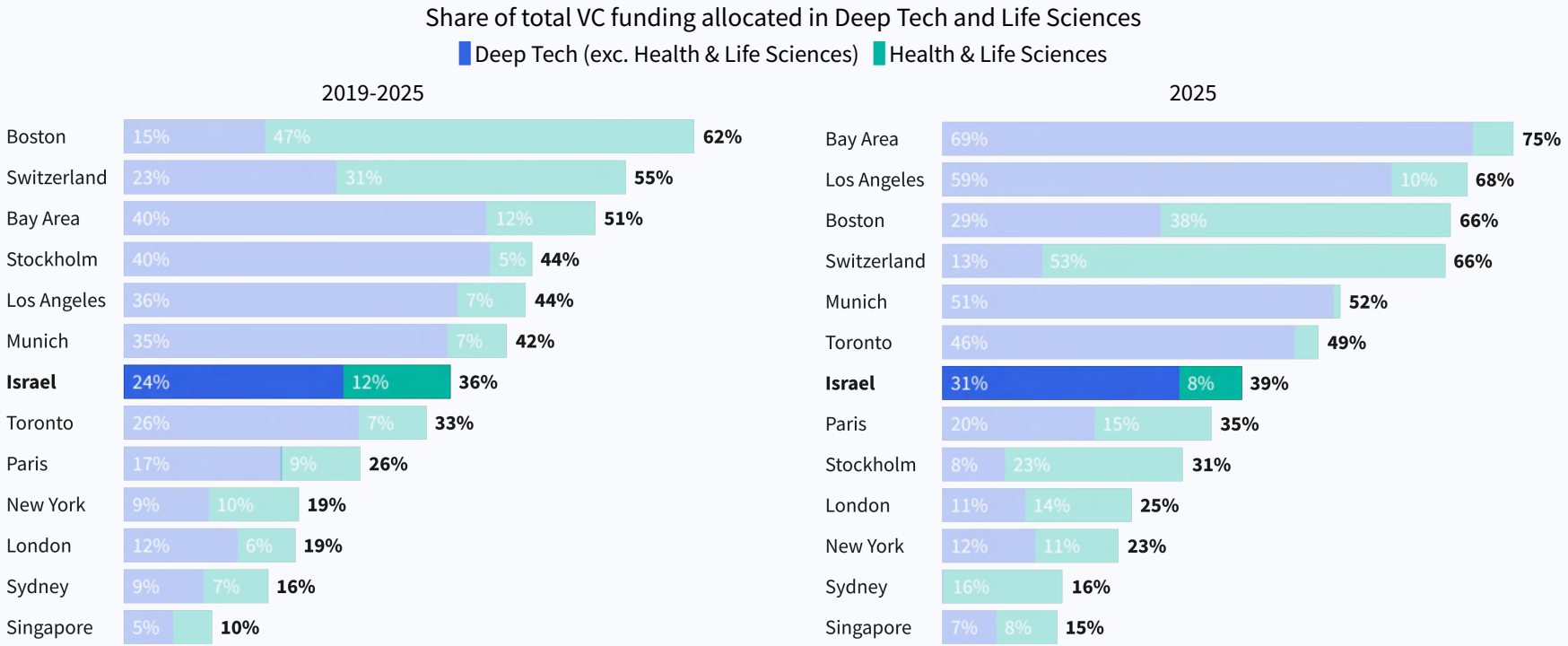


VC investment in **Health & Life Sciences** (2019-2025)



Source: Dealroom.co. Startups at the intersection of Deep Tech and Life Sciences (e.g. AI drug discovery, TechBio etc.) as well as pure deep tech health solutions e.g. robotic medical devices are counted within Health & Life Sciences. Bay Area includes $40B raised by OpenAI in March 2025. Selected hubs shown based on relevance for comparison to Israel. Not an exhaustive list (e.g. Austin not included)

Global VC is increasingly focused on Deep Tech and Life Sciences. Deep Tech is leading, with some exceptions such as Boston and Switzerland



Source: Dealroom.co. Startups at the intersection of Deep Tech and Life Sciences (e.g. AI drug discovery, TechBio etc.) as well as pure deep tech health solutions e.g. robotic medical devices are counted within Health & Life Sciences. Bay Area includes $40B raised by OpenAI in March 2025 and would be 54% without it. Totals may not add up due to rounding. Selected hubs shown based on relevance for comparison to Israel. Not an exhaustive list (e.g. Austin not included. 2025 data as of September 2025.

2025 is showing renewed interest in Israeli Deep tech with over $2.5B already raised, matching the whole of 2024

At this pace Deep Tech VC funding in Israel would grow 28% since last year and reach back pre-pandemic levels, but still short of 2021/2022

Roughly $25B (70% of VC) since 2015 was raised by 1.3K+ startups still HQ in Israel; $11B (30%) was raised by 100+ that moved their HQ abroad, mainly to the US

VC investment and number of rounds in Israeli Deep Tech and Life Sciences startups

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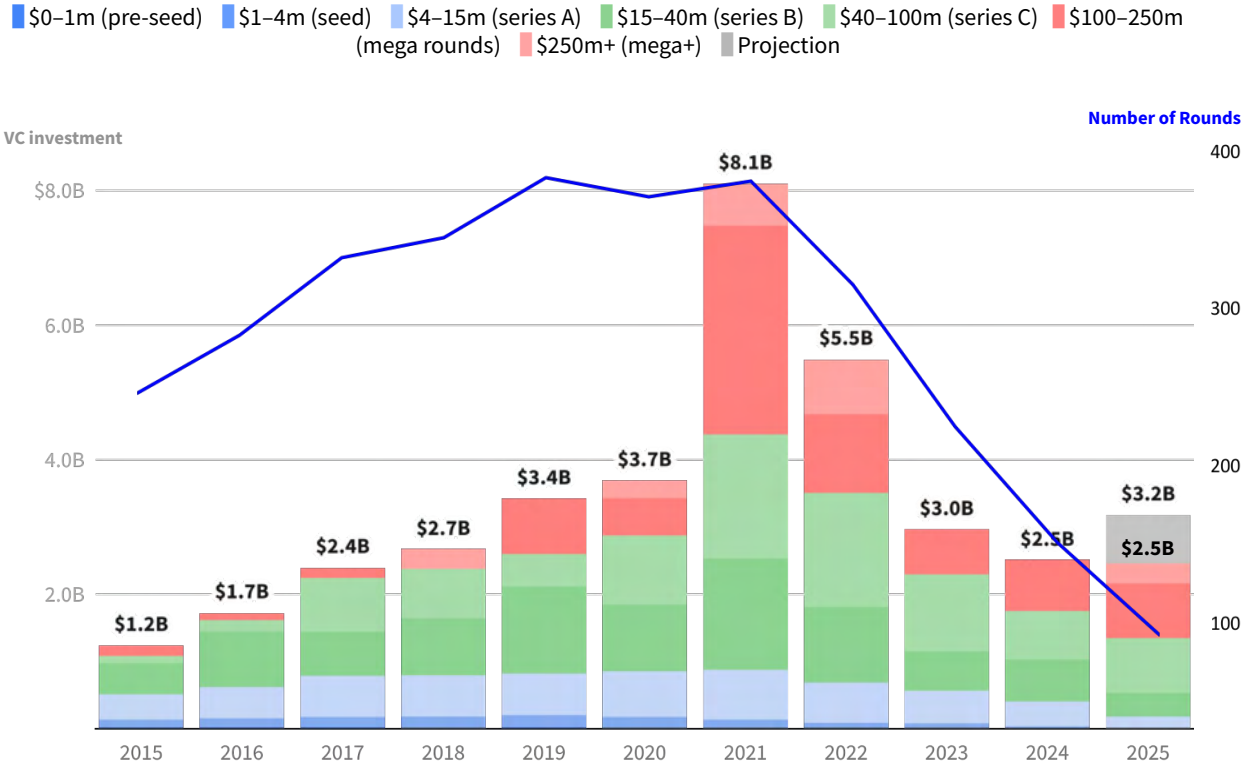

Source: Dealroom.co; VC investment and number of rounds projected as of September 2025. Recent years (especially 2023–2025) may show fewer rounds due to reporting lag, particularly at early stages, as they are often disclosed later
2025 data as of September 2025.

Top Deep Tech and Life Science rounds in Israel in 2024-2025

Deep Tech

Hardware

- HAILO — $120M Series C, Apr 2024
- Retym — $75M Series D, Mar 2025
- AUGURY — $75M Series F, Feb 2025
- MAGNUS Metal — $74M Series B, Apr 2024
- BEEWISE — $50M Series B, Jun 2025
- Teramount — $50M Series A, Jul 2025

Software

- AI21labs — $300M Series D, May 2025
- WEKA — $140M Series E, May 2024
- Silverfort — $116M Series D, Jan 2024
- CLASSIQ — $110M Series C, May 2025
- Decart — $100M Series B, Aug 2025
- DREAM — $100M Series B, Feb 2025

Hardware / Software

- QUANTUM MACHINES — $170M Series C, Feb 2025
- exodigo — $96M Series B, Jul 2025
- ctera — $80M Growth Equity VC, Jul 2024

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Health & Life Sciences

Hardware

- INSIGHTEC — $150M Late VC, Jun 2024
- IMPULSE DYNAMICS — $136M Late VC, Feb 2024
- FORSIGHT ROBOTICS — $125M Series B, Jun 2025
- MAGENTA MEDICAL — $105M Late VC, Jul 2024
- ORASIS PHARMACEUTICALS — $68M Series D, Oct 2024
- BiomX — $50M Private placement VC, Mar 2024

Software

- aidoc — $110M Late VC, Jul 2025
- CytoReason — $80M Series B, Jul 2024
- k health — $50M Late VC, Jul 2024
- PHASE V — $50M Series A, May 2025
- Sensi.AI — $31M Series B, Jun 2024
- spot it early — $20.3M Early VC, May 2025

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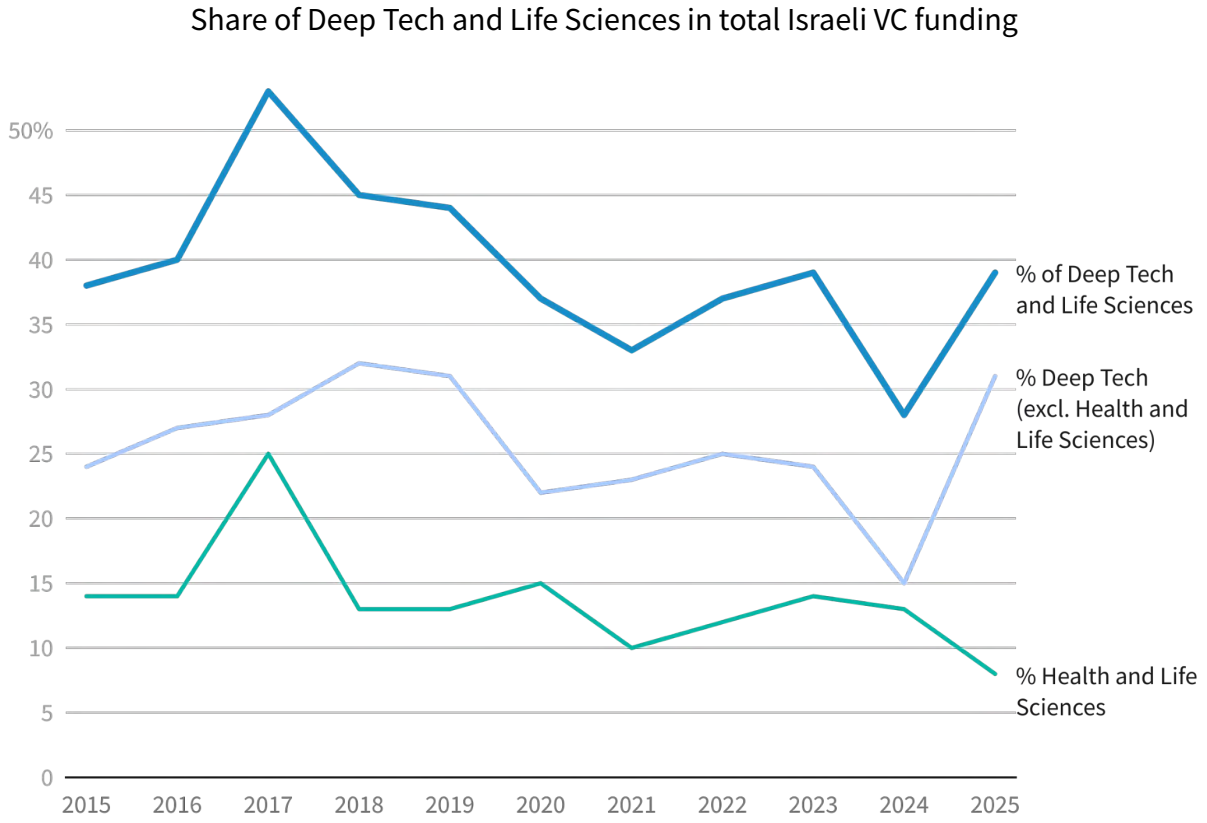
Source: Dealroom.co
*Health & Life Sciences hardware includes medical devices but also drug manufacturing

Since 2015, over one-third of total VC in Israel has consistently flowed into Deep Tech and Life Sciences, driven mostly by Deep tech

Between 2017 and 2024, the share of Israeli VC flowing into Deep Tech and Life Sciences was in overall decline.
But 2025 marks a potential turning point, with a 39% share of the funding so far this year, led by Deep Tech beyond Health & Life Sciences

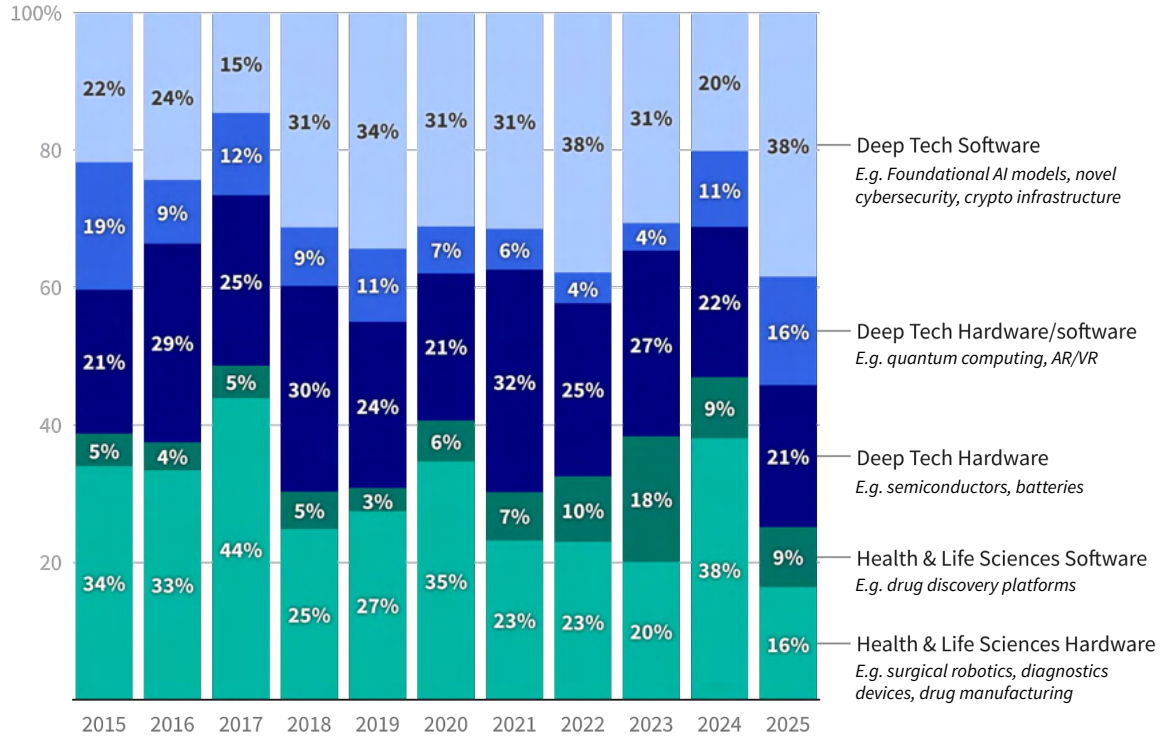


Source: Dealroom.co; Startups at the intersection of Deep Tech and Life Sciences (e.g. AI drug discovery, TechBio etc.) are counted within Life Sciences.

Deep Tech software and Health & Life Sciences software have seen significant growth in recent years, making up 41% of the sector since 2019

Since 2019:
- **Health and Life Sciences** have attracted 34% of total funding, with 25% allocated to hardware and 9% to software.
- **Deep Tech Hardware** received 26%, while **hardware-enabled software** accounted for 8%.
- **Pure Deep Tech software** attracted 32% and now makes up the majority of deep tech funding.

Venture Capital investment in Israeli Deep Tech and Life Sciences startups by technology

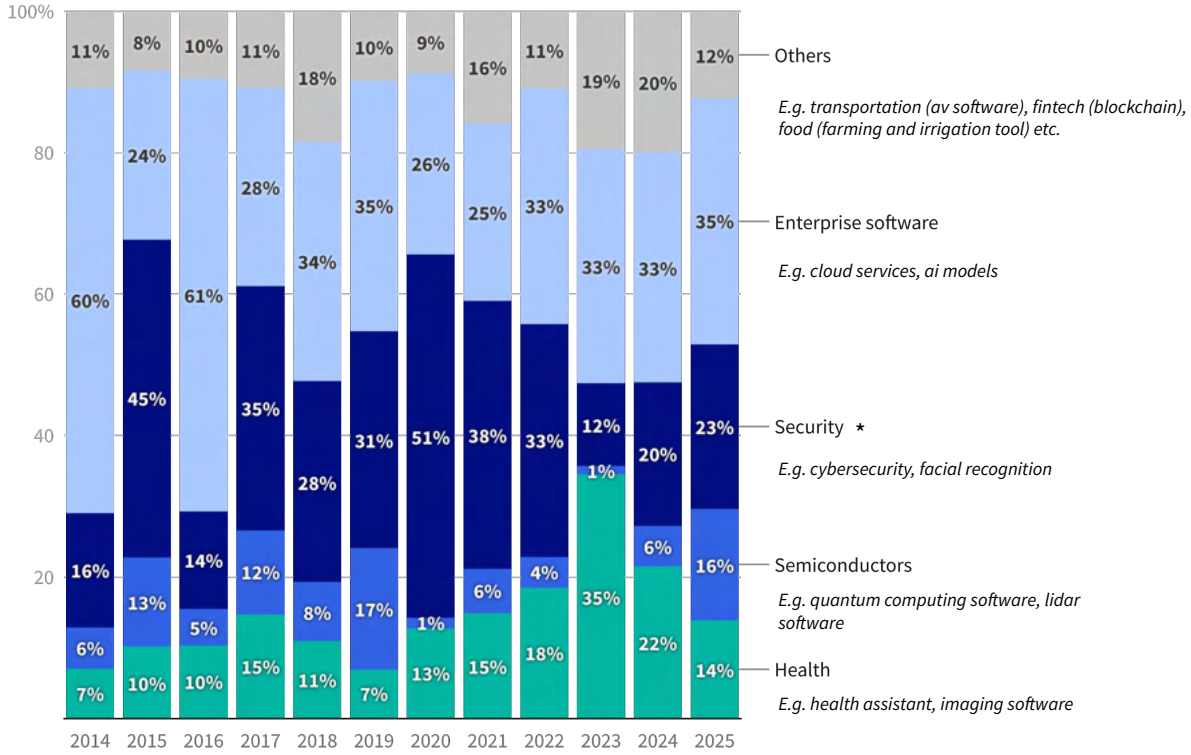


Source: Dealroom.co; Startups at the intersection of Deep Tech and Life Sciences (e.g. AI drug discovery, TechBio etc.) are counted within Life Sciences.

Within software startups in Deep Tech and Life Sciences, Enterprise software remains the most funded industry but other sectors like Security, Semiconductors and Health have been ramping up in the past decade

Health outstanding year in 2023, Security in 2020 and Semiconductors / quantum strong growth this year

Venture Capital investment in Israeli Deep Tech and Life Sciences SaaS startups by industry

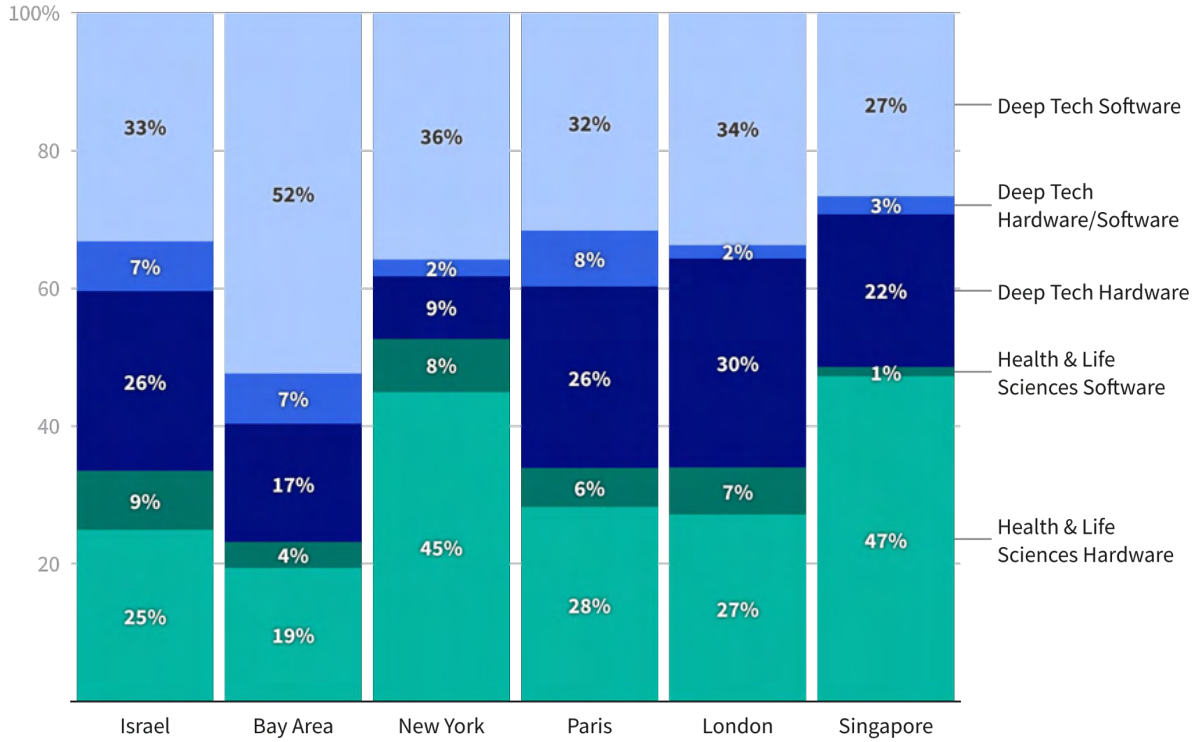


Source: Dealroom.co; *Security includes cyber and homeland security

Israel has a highly diversified tech ecosystem, showing strong capabilities across all major domains, in line with Paris and London

In contrast, the Bay Area shows a very strong orientation to Deep Tech Software (e.g. foundational AI models), and New York and Singapore towards Health & Life Sciences

Comparison of Deep Tech and Life Sciences VC funding by hubs (2019-2025)



Source: Dealroom.co

Private Israeli Deep Tech and Life Sciences startups are worth over $112B, up more than 16x in a decade

66% of the value has been created by startups born in the last 10 years. When considering also exited companies, Israeli Deep Tech and Life Science startups have generated more than **$178B** in enterprise value

Combined enterprise value of private Israeli Deep Tech and Life Sciences VC-backed startups

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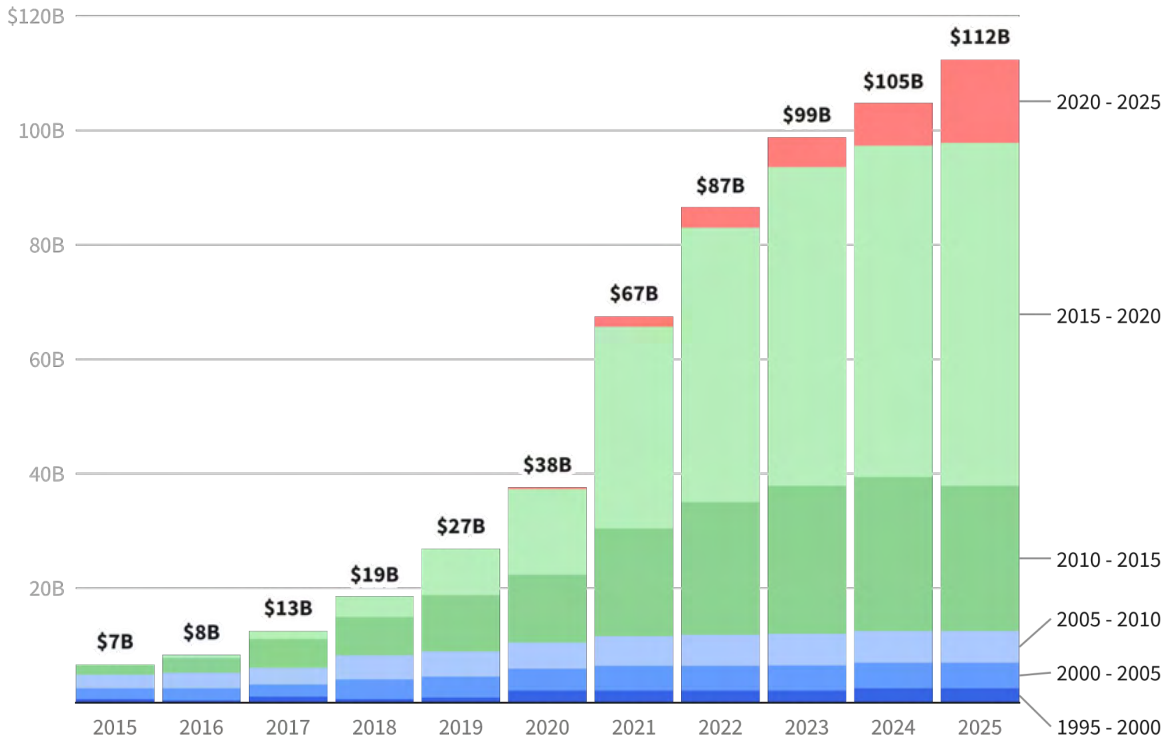
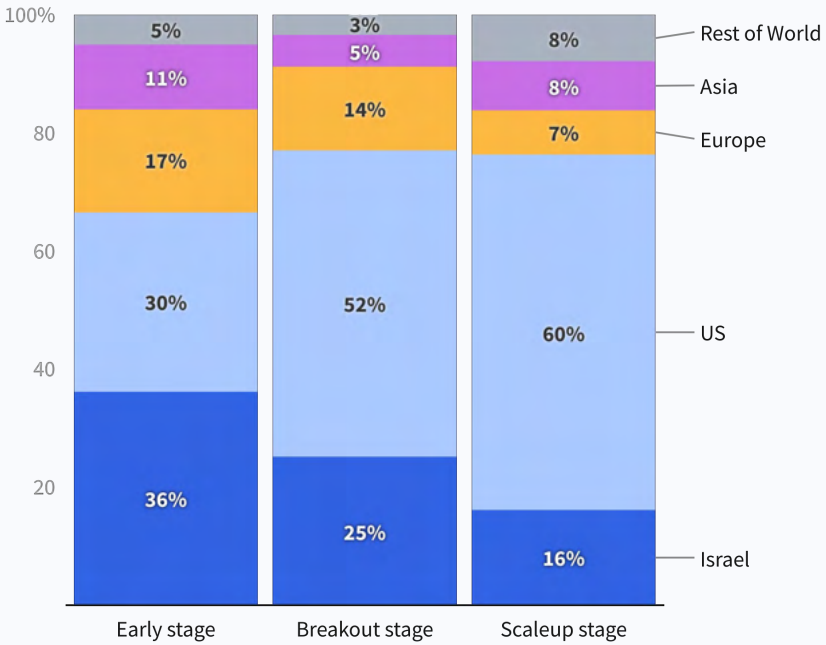


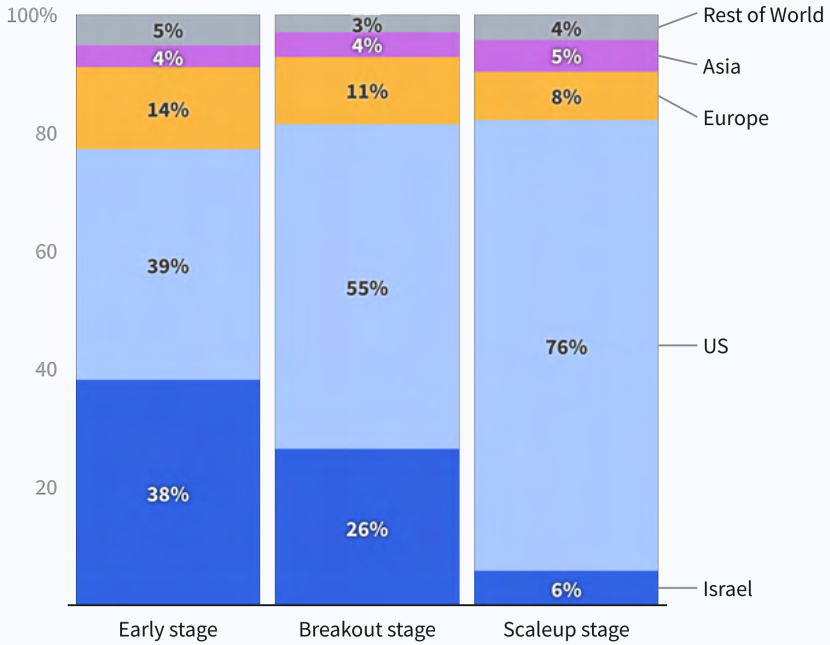
Source: Dealroom.co
2025 data as of September 2025.

Israeli Deep Tech startups raise most of their funding from foreign investors, with domestic investment ranging from ~35% at the early stage to ~15% at late stage, in line with the rest of the Israeli ecosystem

VC investment by Israeli Deep Tech and Life Science startups (2023-2025)



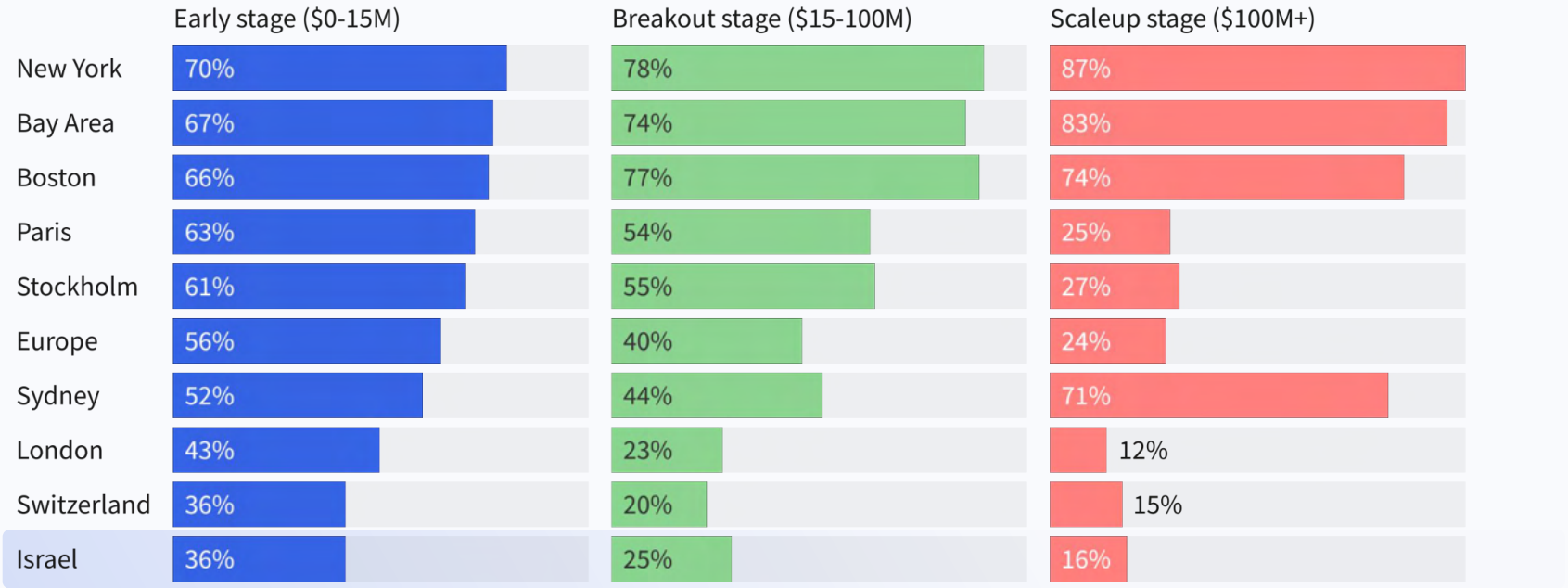
VC investment by other Israeli startups* (2023-2025)



Source: Dealroom.co; Analysis covers startups HQ and founded in Israel. Excludes undisclosed investors. When multiple investors participate in a round, amount invested is equally divided between the co-participants. *Excludes Deep Tech and Life Sciences

Foreign capital plays a bigger role in Israel Deep tech and Life Sciences at all stages compared to other key leading hubs

VC investment by domestic investors into Deep Tech and Life Science startups (2023-2025)



Source: Dealroom.co; Analysis covers startups HQ and founded in Israel. Excludes undisclosed investors

Top investors in Israeli Deep Tech and Life Sciences

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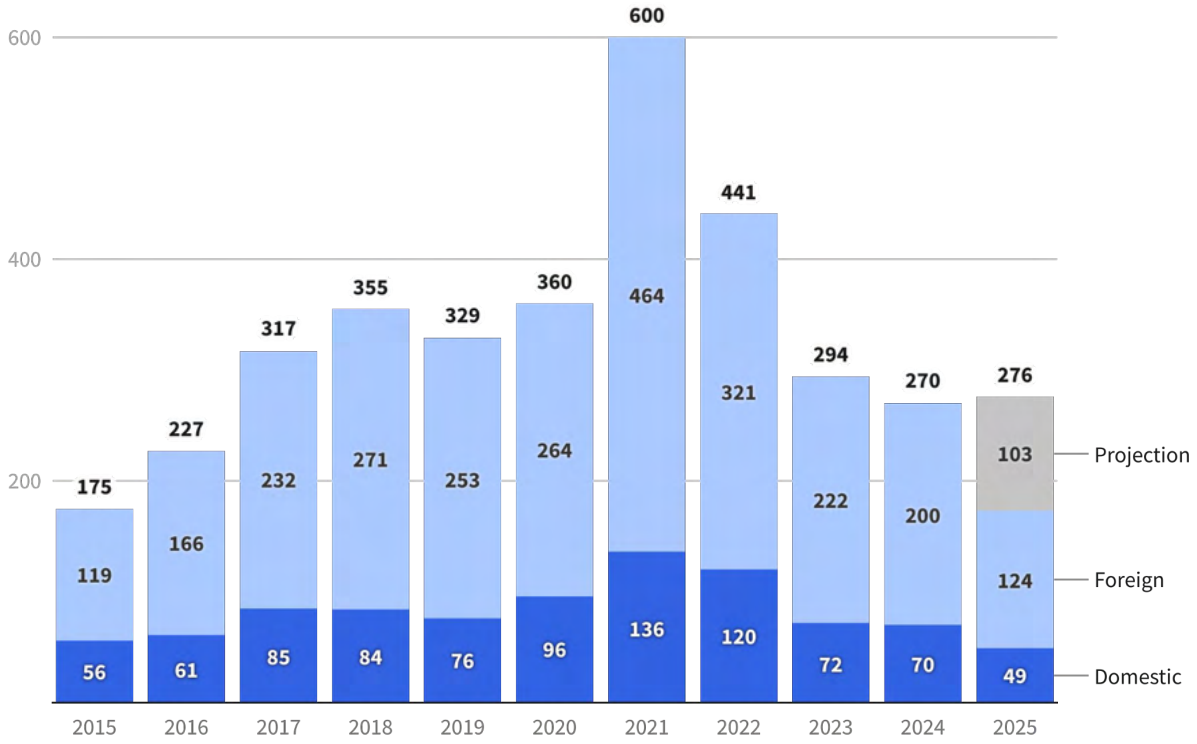
	Israeli Investors	International Investors
(Pre-) Seed	lool ventures, Well-Tech Ventures, iAngels, StageOne Ventures, JumpSpeed Ventures, Trendlines Group, Grove Ventures, Peregrine Ventures, Hanaco Venture Cap., Sapir Venture Partners, 10D, PICO Partners, TLV Partners, Strauss Group, Entrée Capital	NFX, SOSV, b2venture, CPT Capital
Series A	IL Ventures, Almeda Ventures, Next Gear Ventures, Meitav Investment H., Israel Biotech Fund, TPY Capital, Arkin Holdings, Jerusalem Venture P., Aleph, Viola Ventures, Pitango Venture Cap.	Koch Disruptive Tech., Walden Catalyst Vent., Lightspeed Vent P., 83North, Sequoia, Square Peg Cap., Bosch Ventures, M Ventures, Samsung Next, Johnson & Johnson, Eclipse Venture, Chartered Group, Toyota Ventures, REDDS Capital, Battery Venture
Series B+	MoreTech Ventures, Harel Group, aMoon Fund, Pontifax Funds, TriVentures, Union Tech Ventures	Dell Technologies Cap., OrbiMed, Hyundai Motor Comp., Nvidia, Valor Equity Partners, Qualcomm Ventures, Intel Capital, Tiger Global, Insight Partners, Atreides Management, HBM Healthcare Invst.

Source: Dealroom.co; Domestic funds selected based on number of rounds since 2019 (minimum 10 publicly disclosed rounds since 2019) or share of Deep tech and Life Science investment in global total (min 50%, more than five rounds). Investors are shown only at the most common entry stage point. Only looking at direct investment activity, not LP activity in funds

Foreign investors continue to lead funding activity in Israeli Deep tech and Life sciences

Israeli investors are about a quarter of the overall deep tech investors

Number of unique investors in Israeli Deep tech and Life Sciences startups



Source: Dealroom.co; If an investor has at least one investment in the year, it is counted once for that year. Recent years (especially 2023–2025) may show fewer investors/rounds due to reporting lag. Includes investment funds and corporates, but not angels or accelerators. Projection as of August 2025.

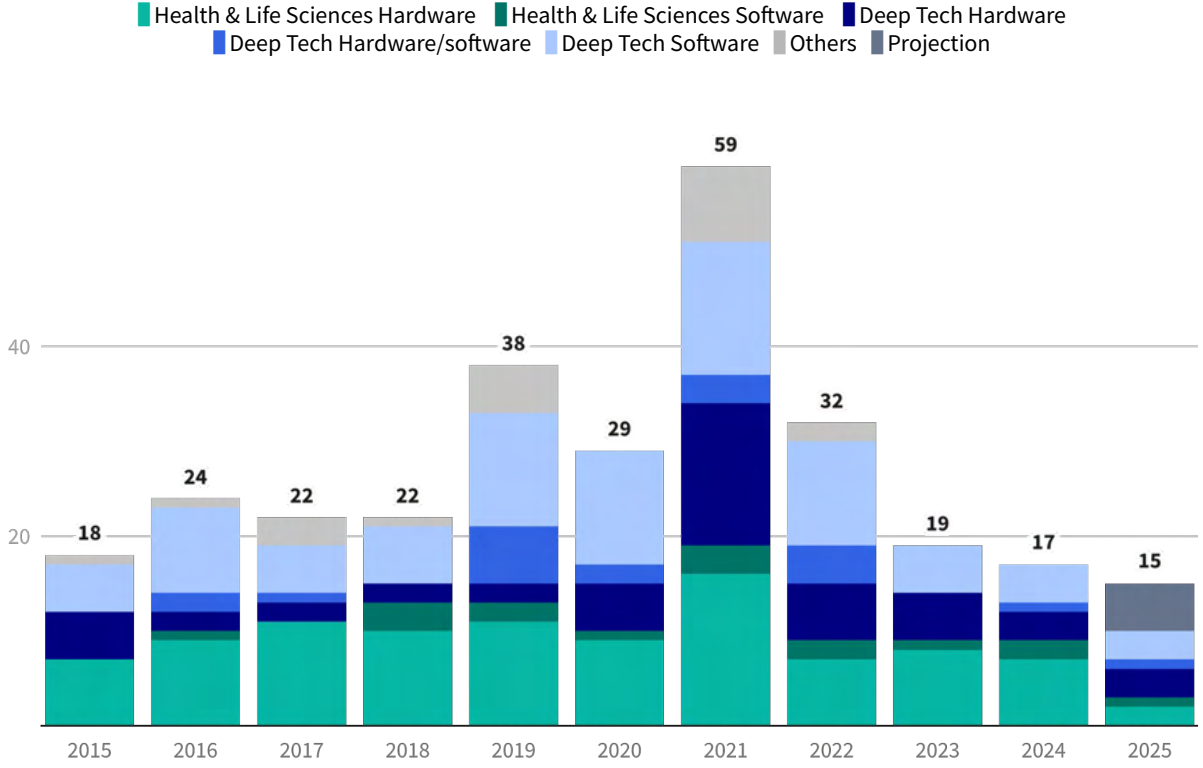
Exit activity in both Deep Tech and Life Sciences has slowed in recent years

By the end of 2025, the total number of exits is projected to be just one quarter of the 2021 peak

Health and Life Sciences exits have remained relatively stable over the past decade, showing little fluctuation. In contrast, Deep Tech experienced a surge between 2019 and 2022 and then declined

Still, in 2025, the number of Deep Tech exits exceeds that of Health and Life Sciences

Number of VC-backed Israeli Deep Tech and Life Sciences public and private exits per technology



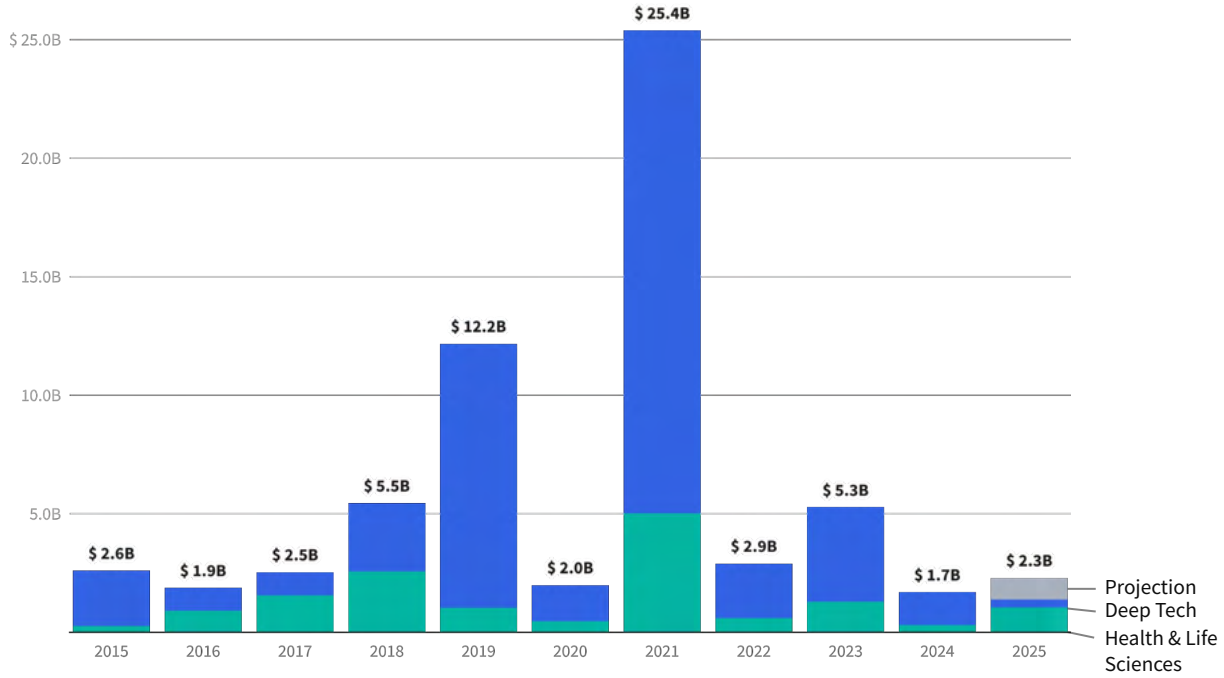
Source: Dealroom.co; Startups at the intersection of Deep Tech and Life Sciences (e.g. AI drug discovery, TechBio etc.) are counted within Life Sciences.
2025 data as of September 2025.

Most of the exit value created stems from Deep Tech startups

2021 was a standout year, driven by **SentinelOne**'s $8.9B IPO but not only, **20+** other startups reached +$100M exits.

Although Health & Life Sciences make up half of DT & LS exit count, they have historically represented only a small fraction when measured by volume. This year, they surpass deep tech.

Value of Israeli Deep Tech and Life Sciences VC backed exits (M&As and IPOs)



Source: Dealroom.co; Startups at the intersection of Deep Tech and Life Sciences (e.g. AI drug discovery, TechBio etc.) are counted within Life Sciences.
2025 data as of September 2025.

Largest exits in 2024-2025 by valuation

Exits of Israeli Deep Tech & Life Sciences startups, known exit valuation > $100M (2024-2025)
» view online

Company	Acquirors	Exit round	Segment
Run:AI	NVIDIA	$700m ACQUISITION @ $700m apr/2024	**Deep Tech software:** AI computing infrastructure
V-Wave	Johnson&Johnson	$600m ACQUISITION @ $600m aug/2024	**Health & Life Sciences hardware:** Medical device for heart failure
Noname Security	Akamai	$450m ACQUISITION @ $450m may/2024	**Deep Tech software:** Cybersecurity platform
SoniVie	Boston Scientific	$360m ACQUISITION @ $400m mar/2025	**Health & Life Sciences hardware:** intravascular ultrasound system
Gauzy		$75m IPO @ $244m jun/2024	**Deep Tech hardware:** smart glass
Gadfin	ISRAEL ACQUISITIONS	$144m SPAC IPO @ $200m jan/2025	**Deep Tech hardware:** hydrogen powered drones
Silexion Therapeutics	MORINGA	$100m SPAC IPO @ $165m feb/2024	**Health & Life Sciences hardware:** drug development for pancreatic cancer
Oosto	metropolis	$125m ACQUISITION @ $125m jan/2025	**Deep Tech software:** AI security platform
Genoox	QIAGEN	$70m ACQUISITION @ $70m may/2025	**Health & Life Sciences software:** Genomic database

Source: Dealroom.co

AI and Medical devices raised the most funding in recent years

Medical devices, Biotech & Pharma and AI have the largest pool of VC backed companies

Semiconductors startups created the most value followed by AI, Cybersecurity and Medical Devices

Cybersecurity is the segment where Israel claims the largest share of global funding with over 20%, followed by Medical devices and AgriFood at 9-10%

VC funding, number of startups, and value created by Israeli Deep Tech and Life Science by segment

	Number of VC-backed startups	Enterprise Value	Funding 2024-2025	Funding (2019-2025)	% of global funding (2019-2025)	EV / VC (2019-2025)
Medical Devices	269	$23.6B	$928.7M	$4.4B	9.6%	5.4
Biotech and Pharma	253	$14.3B	$366.4M	$3B	1.2%	4.7
AI	146	$24.3B	$937M	$3.4B	1.8%	7.1
AgriFood	117	$8.4B	$220.9M	$2.4B	8.7%	3.5
Semiconductors	96	$24.4B	$400.5M	$2.8B	4%	8.8
Robotics	95	$4.9B	$256.4M	$1.4B	1.8%	3.4
Cybersecurity	77	$23.6B	$340M	$2.4B	21.4%	9.9
Energy	73	$7.1B	$38.1M	$913.4M	1.1%	7.8
Other Technical Enterprise software	66	$5.1B	$216M	$818.8M	6.5%	6.3

» View more

Source: Dealroom.co; Includes VC backed companies with undisclosed funding.
The AI segment here corresponds only to Deep Tech AI like foundational models, novel MLOps tools, safety algorithms, vector database and other novel software infra for AI. It been chosen to be represented with limited overlaps across segments, so all AI companies with applications in other segments e.g. health, cyber, energy, etc. are counted within those figures.

Snapshot of five key sectors of interest:

Israeli startups raised an impressive ~10% of global VC funding in Medical Devices and AgriFood, as well as 5%+ of Quantum. In AI, despite being one of the largest segment, Israel accounts for less than 2% of global funding.

Israeli Deep Tech startups by Deep Tech and Life Science segment

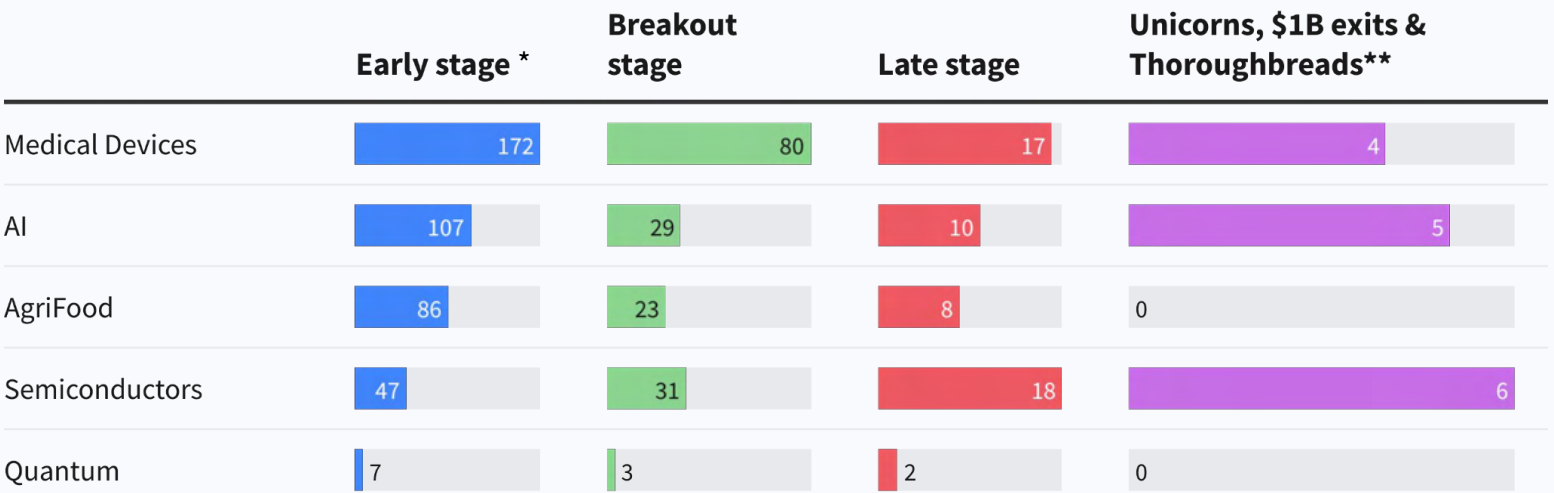
	Number of VC-backed startups ▼	Enterprise Value	Funding (2019-2025)	% of Global Funding (2019-2025)	Funding 2024-2025
Medical Devices	269	$23.6B	$4.4B	9.6%	$928.7M
AI	146	$24.3B	$3.4B	1.8%	$937.0M
AgriFood	117	$8.4B	$2.4B	8.7%	$220.9M
Semiconductors	96	$24.4B	$2.8B	4.0%	$400.5M
Quantum	12	$2.2B	$580.8M	5.9%	$373.2M

Source: Dealroom.co; Includes VC backed companies with undisclosed funding.
The AI segment here corresponds only to Deep Tech AI like foundational models, novel MLOps tools, safety algorithms, vector database and other novel software infra for AI. It is represented with limited overlaps across segments as all AI companies with applications in other segments e.g. health, cyber, energy, etc. are counted within those figures.

Zooming in five key sectors of interest:

AI has one of the largest pool of early-stage startups and created the most large scale outcomes. Semiconductors created very big historical outcomes but is showing a smaller pipeline, while the opposite is true for Medical Devices.

Number of VC-backed Israeli Deep Tech startups by segments and stage



Source: Dealroom.co; *Deep Tech in this report includes both Deep Tech and Life Sciences in Dealroom.
*Early stage includes VC backed companies with undisclosed funding.
**The AI segment here corresponds only to Deep Tech AI like foundational models, novel MLOps tools, safety algorithms, vector database and other novel software infra for AI. It is represented with limited overlaps across segments as all AI companies with applications in other segments e.g. health, cyber, energy, etc. are counted within those figures. s.

Artificial Intelligence in Deep Tech and Life Sciences overview in Israel

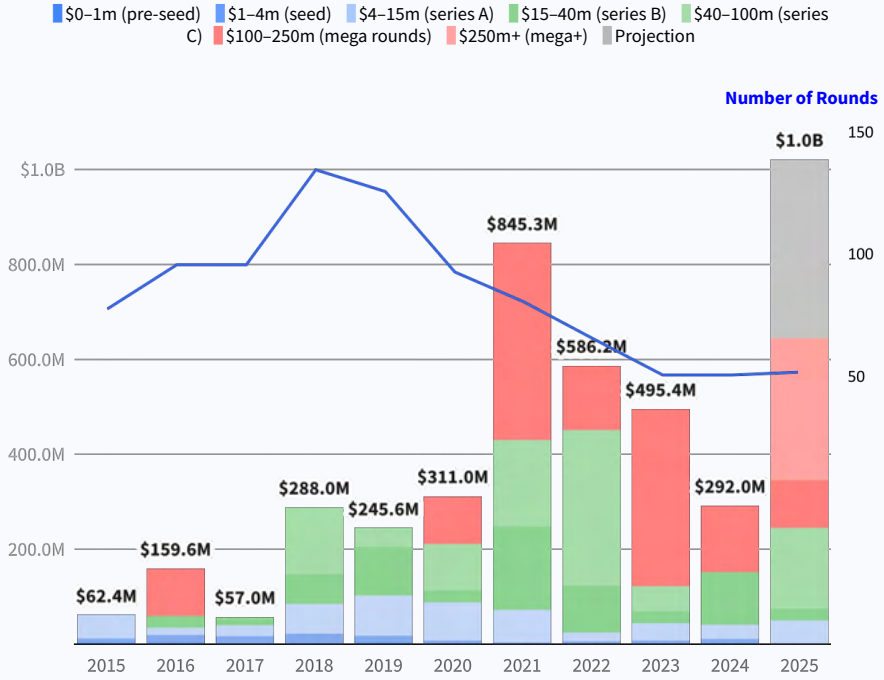
140+ VC-backed Deep Tech and Life Sciences AI startups HQ-ed or founded in Israel and funded by **+80 unique investors*** in segments such as foundational AI models, novel MLops, and AI safety among others.

Selected companies

- Vast Data
- Run:AI
- AI21labs
- Pinecone
- Decart
- WEKA

VC investment and number of rounds in Israeli AI startups

» view online



Source: Dealroom.co; Selection criterias: top funded, raised since 2019, founded after 2016, not closed or acquired.
*Number of unique investors in 2024. VC investment and number of rounds projected as of August 2025. Recent years (especially 2023–2025) may show fewer rounds due to reporting lag, particularly at early stages, as they are often disclosed later. **The AI segment here corresponds only to Deep Tech AI like foundational models, novel MLOps tools, safety algorithms, vector database and other novel software infra for AI. It is represented with limited overlaps across segments as all AI companies with applications in other segments e.g. health, cyber, energy, etc. are counted within those figures.

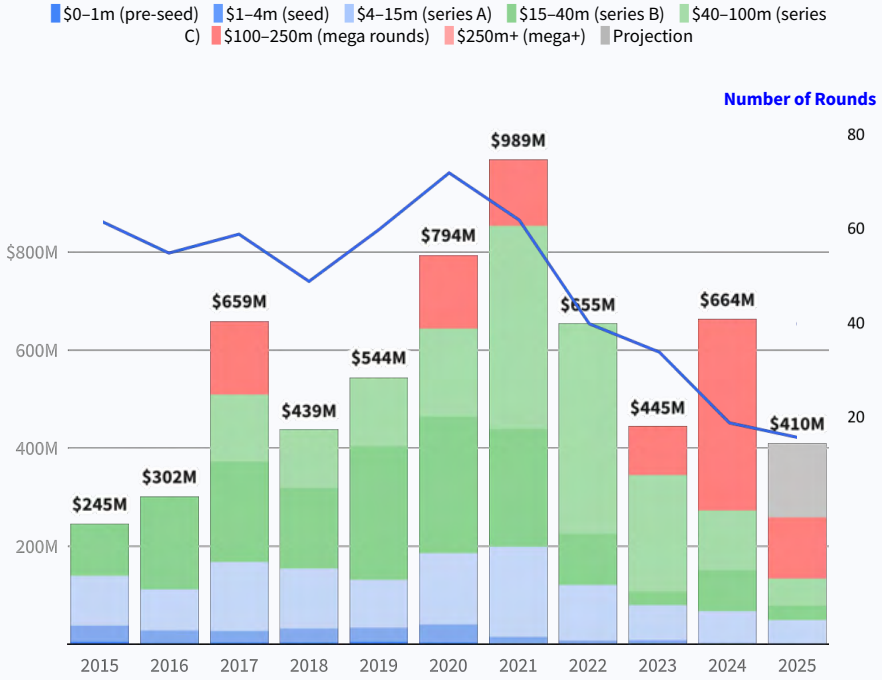
Medical devices overview in Israel

+260 VC-backed medical devices startups HQ-ed or founded in Israel and funded by **+50 unique investors*** in segments such as **surgical robotics** or **diagnostics and screening devices**

Selected companies

- Mazor Robotics
- Valtech Cardio
- Insightec
- Syqe Medical
- Momentis Surgical
- V-Wave

VC investment and number of rounds in Israeli Medical devices startups **» view online**



Source: Dealroom.co; Selection criterias: top funded, raised since 2019, founded after 2016, not closed or acquired.
*Number of unique investors in 2024. VC investment and number of rounds projected as of August 2025. Recent years (especially 2023–2025) may show fewer rounds due to reporting lag, particularly at early stages, as they are often disclosed later.

AgriFood overview in Israel

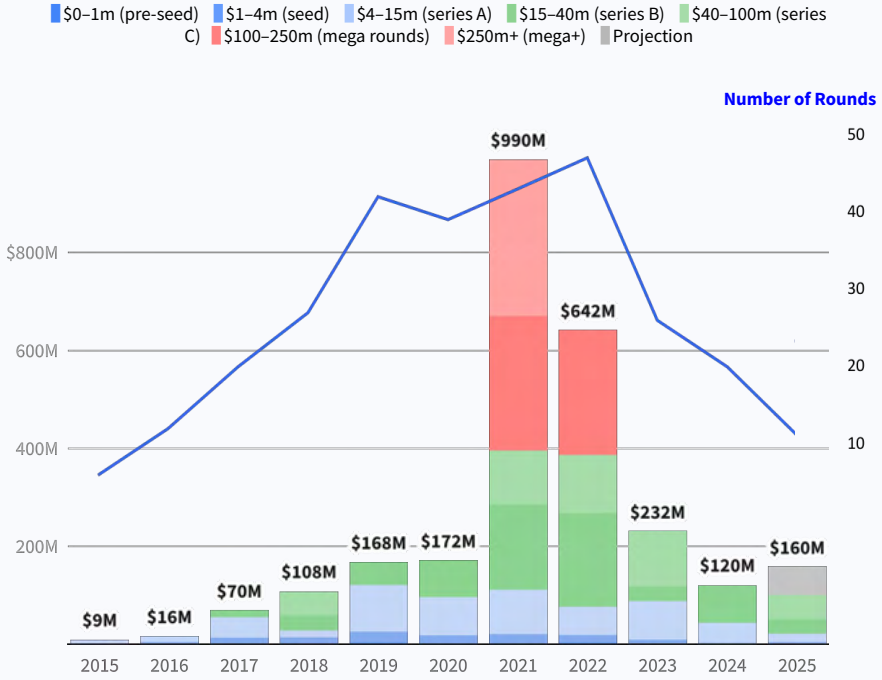
110+ VC-backed AgriFood startups HQ-ed or founded in Israel **and funded by 60+ unique investors*** in segments such as **alternative protein, irrigation and farm monitoring**

Selected companies

- NDrip
- Aleph Farms
- Believer Meats
- Beewise Technologies
- Redefine Meat
- Remilk

VC investment and number of rounds in Israeli AgriFood startups

» view online



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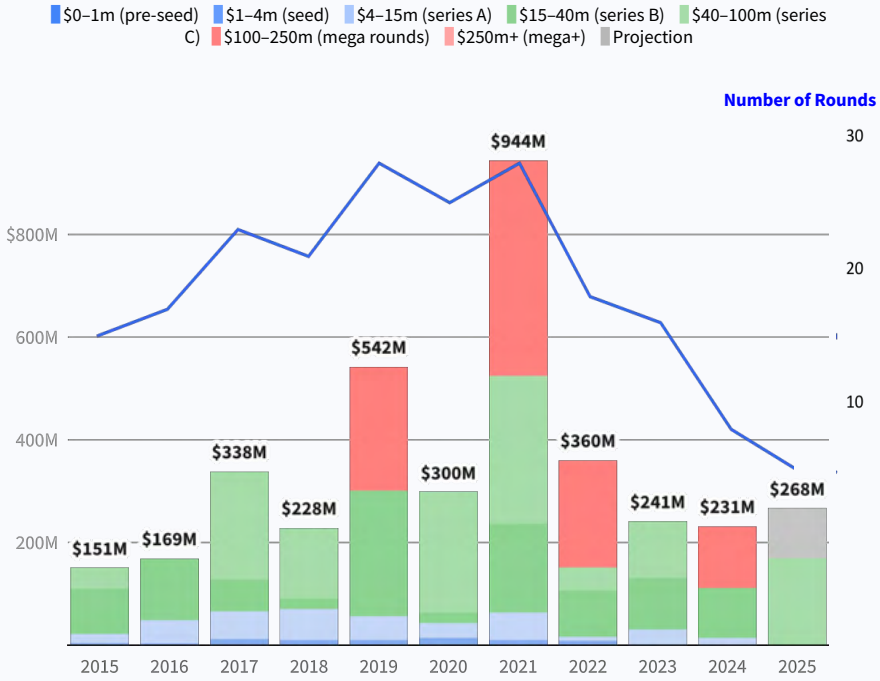
Semiconductors overview in Israel

90+ VC-backed Semiconductors startups HQ-ed or founded in Israel and funded by **40+ unique investors*** in segments such as **av sensors, photonics, chips and processors**

Selected companies

- Mellanox Technologies
- Hailo
- Habana
- Wiliot
- Next silicon
- Vayyar

VC investment and number of rounds in Israeli Semiconductors startups » **view online**



Source: Dealroom.co; Selection criterias: top funded, raised since 2019, founded after 2016, not closed or acquired.
*Number of unique investors in 2024. VC investment and number of rounds projected as of August 2025. Recent years (especially 2023–2025) may show fewer rounds due to reporting lag, particularly at early stages, as they are often disclosed later.

Quantum overview in Israel

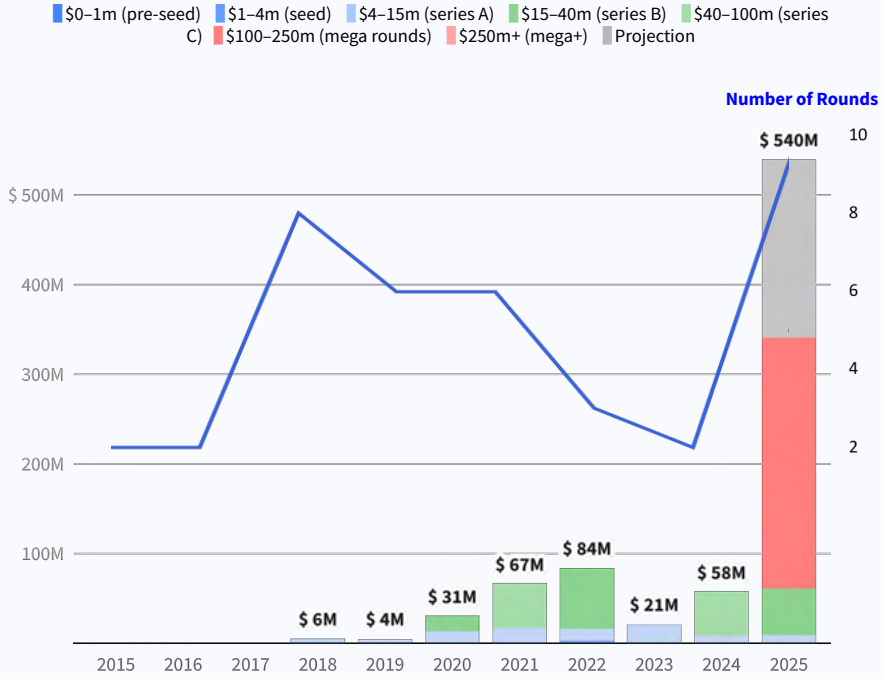
10+ VC-backed Quantum startups HQ-ed or founded in Israel and funded by **8 unique investors*** in segments such as **quantum computing, softwares and processors**

Selected companies

- Quantum Machines
- Quamcore
- Classiq
- Qedma
- Quantum Source
- LightSolver

VC investment and number of rounds in Israeli Quantum startups

» view online



Source: Dealroom.co; Selection criterias: top funded, raised since 2019, founded after 2016, not closed or acquired.
*Number of unique investors in 2024. VC investment and number of rounds projected as of August 2025. Recent years (especially 2023–2025) may show fewer rounds due to reporting lag, particularly at early stages, as they are often disclosed later.

Methodology

What are startups and scaleups?

Startups are companies designed to grow fast. Generally, these companies are backed by VC investments and, sometimes, can become very big, (e.g. with $1B+ valuations). When startups are successful, they develop into **scaleups**. In this report, scaleups are considered companies that raised above $15M in total VC investment and/or are companies that reached $1B valuation. This also includes unicorns and $1B exits. Only companies founded since 1990 are included in this report.

» Read definition

What is a unicorn?

Unicorns are former startups that have reached $1B in valuation or achieved an exit of $1B or more.

» Read definition

Israeli based

Israeli startups are defined as companies that either: have their headquarters in Israel and maintain a significant presence in the country, or were originally founded in Israel, even if they have since relocated their headquarters abroad.
The nationality of the founders and the origin of the underlying technology are not considered determining factors by themselves. Startups founded by Israeli nationals entirely abroad, with little operational or historical ties to Israel, are excluded from this analysis.

Venture Capital, Investors

Investments are referred to by their round labels, such as Seed, Series A, B, C, late stage, and growth equity. VC investments exclude debt, non-equity funding, lending capital and grants. Exits (M&A, IPOs) are not considered part of VC financing and are analyzed separately.

Deep Tech definition

Deep Tech is defined as novel scientific or engineering breakthroughs making their way into products and companies for the first time.
The technology is based on tangible engineering innovation or scientific advances and discoveries applied for the first time as a product, often aiming to solve society's biggest issues.

More details are available in the following appendix slides.

In this report we look also at Life Sciences in a broader scope of Deep Tech.

Underlying Data

Dealroom's proprietary database and software aggregate data from multiple sources: harvesting public information, user-submitted data verified by Dealroom, data engineering. All data is verified and curated with an extensive manual process. The data on which this report builds is available via **app.dealroom.co**. For more info please visit dealroom.co or contact **support@dealroom.co**.

Deep Tech definitions taxonomy explanation (simplified, 1/4)

Sector	Deep Tech	Very brief summary
Semiconductors & quantum	Mostly yes	✅ Usually: almost all is deep tech ❌ Usually not: marketplaces to trade IP or equipment, light SaaS solutions
Space	Mostly yes	✅ Usually: Upstream (launch, satellites, space ops) 🟡 Sometimes: Downstream (e.g., Earth observation) if IP-intensive ❌ Usually not: Apps merely consuming satellite data
Robotics	Mostly yes	✅ Usually: Humanoids, collaborative robots, surgical robotics 🟡 Sometimes: Farm/warehouse robotics (depending on tech depth), advanced sensors ❌ Usually not: Simple consumer robots
Energy	Sometimes	✅ Usually: Nuclear (fusion & fission), 🟡 Sometimes: advanced hydrogen, carbon capture, novel battery chemistries, deep geothermal, grid hardware ❌ Usually not: Standard solar and wind, energy SaaS, energy marketplaces
Transportation	Sometimes	✅ Usually: eVTOL, sustainable aviation, autonomous aerial vehicles 🟡 Sometimes: AV tech, advanced drones, novel EV batteries/motors ❌ Usually not: EV services, micromobility, apps

Source: Dealroom.co; Simplified framework to provide an easy graphical overview. More details on the full detailed definitions are available upon request to support@dealroom.co. The guidelines are only indicative and the final assessment is always done at the company level

Deep Tech definitions taxonomy explanation (simplified, 2/4)

Sector	Deep Tech	Very brief summary
Health and Life Sciences	Sometimes	✅ Usually: AI drug discovery, brain-computer interfaces, surgical robotics, synthetic biology 🟡 Sometimes: Devices/imaging with novel proprietary tech, digital therapeutics with deep science ❌ Usually not: Most pharma/biotech*, telemedicine, medical SaaS
AgriFood	Sometimes	✅ Usually: Lab-grown meat, synthetic biology 🟡 Sometimes: Precision fermentation, advanced biotech, microbial tech, advanced farm robotics ❌ Usually not: Delivery, restaurant management software, basic agri-drones
Chemicals	Sometimes	🟡 Sometimes: Green chemicals & polymers, e-fuels (if novel tech)
Engineering and Manufacturing Equipment	Sometimes	🟡 Sometimes: Advanced additive manufacturing and 3D printing, novel materials and manufacturing techniques
Fintech	Mostly not	🟡 Sometimes: Core blockchain infrastructure (not just a crypto app but like building core blockchain technology), climate risk prediction with deep science ❌ Usually not: AI credit scoring, general fintech solutions

Source: Dealroom.co; Simplified framework to provide an easy graphical overview. More details on the full detailed definitions are available upon request to support@dealroom.co. The guidelines are only indicative and the final assessment is always done at the company level *Biotech and Pharma as an adjacent segment sharing many characteristics with Deep Tech, details in slide 6.

Deep Tech definitions taxonomy explanation (simplified, 3/4)

Sector	Deep Tech	Very brief summary
Blockchain	Mostly not	✅ Usually: Layer 1/2 protocols, zk Proofs 🟡 Sometimes: Core infrastructure protocols ❌ Usually not: Apps built on blockchain
Enterprise Software	Mostly not	🟡 Sometimes: AI models, AI tools, Core foundational software (databases, etc) ❌ Everything else, most of it
Media, marketing, jobs recruitment	Mostly not	❌ Almost never deep tech
AI	Mostly not	✅ Sometimes: Foundational models, LLM infrastructure, deep scientific AI applications ❌ Usually not: Most AI-powered applications
Security / Cybersecurity	Mostly not	✅ Usually: Hardware security innovation 🟡 Sometimes: PETs (e.g. homomorphic encryption, ZK proofs), novel encryption techniques ❌ Usually not: Most cybersecurity SaaS
Real estate and Construction	Mostly not	🟡 Sometimes: Robotics, green cement, biomaterials if novel ❌ Usually not: Real estate platforms, mortgage tech

Source: Dealroom.co; Simplified framework to provide an easy graphical overview. More details on the full detailed definitions are available upon request to support@dealroom.co. The guidelines are only indicative and the final assessment is always done at the company level

Deep Tech definitions taxonomy explanation (simplified, 4/4)

Sector	Deep Tech	Very brief summary
Fashion	Mostly not	🟡 Sometimes: Synbio materials, sustainable dyes with engineering innovation ❌ Usually not: Marketplaces, management tools
Marketplaces	Mostly not	❌ Almost never deep tech
VR, AR	Mostly not	🟡 Sometimes: VR and AR hardware; core developers of AR/VR software developing new algorithms and techniques; highly technical and advanced applications (e.g. medical rehabilitation/therapy, surgery) ❌ Usually not: Most AR and VR, especially around gaming, media and interactive content. Digital twins and similar tech
Advanced materials	Sometimes	✅ Usually: Nanomaterials, semiconductor materials, AI material discovery, SynBio materials 🟡 Sometimes: High-performance materials (composite materials, materials for space and defence applications), sustainable cement, biomaterials only when high-performance or novel tech/process ❌ Usually not: sustainable materials which are just circular economy based but no deep technology involved and more business model innovation, manufacturing or solutions around very established materials

Source: Dealroom.co; Simplified framework to provide an easy graphical overview. More details on the full detailed definitions are available upon request to support@dealroom.co. The guidelines are only indicative and the final assessment is always done at the company level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