



imec

Imec.DeepTechVentures

Leveraging on a unique environment

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26/09/2024 - imec



IMEC

IMEC is more than just another R&D hub.

For 40 years, we have been pioneering the semiconductor roadmap.

Imec's microchip technology is
at everyone's fingertips.
In each and every smartphone.

Today imec is a leading independent R&D hub in nano electronics and digital technologies.



SKILLED PEOPLE

6,000
employees across
95 nationalities



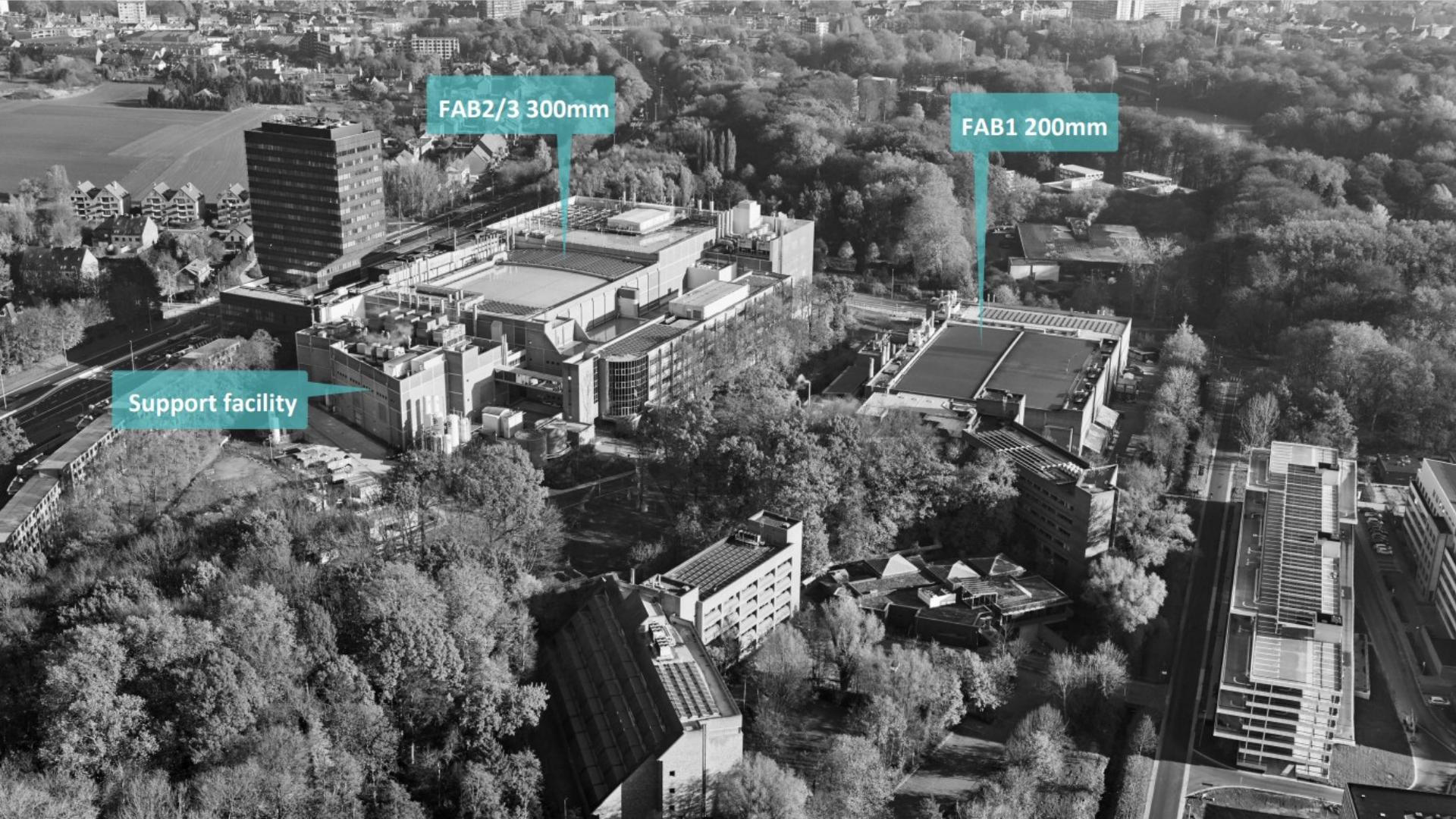
WORLD-CLASS INFRASTRUCTURE

€4B
invested in **leading-edge semiconductor fabs**, 200 tools
€2.5B
new pilot lines investment



GLOBAL ECOSYSTEM

600+
industrial partners across a unique ecosystem, collaborating with



FAB2/3 300mm

FAB1 200mm

Support facility

Beyond academic R&D

Focus on **industry-relevant technology solutions** for health and life sciences, mobility, Industry 4.0, agrifood, smart cities, sustainable energy, etc.

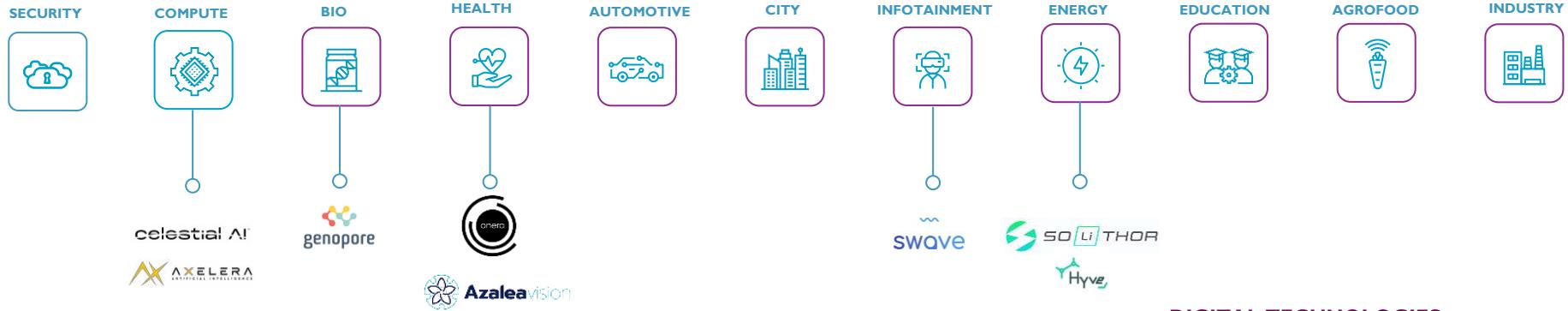


2024: €1B revenue, 187 patent applications, 1,300 Web-of-Science publications



Imec's innovation platform

IMEC's core and technology platforms enable differentiative solutions



SYSTEM PLATFORMS

Optical beamforming
DNA sequencing
Nanofluidics processor
Cell sorter
RF and analog design
Lens-free imaging
Hyperspectral imaging

CORE
SEMICONDUCTOR
TECHNOLOGY

TECHNOLOGY PLATFORMS

Logic CMOS
Memory
3D heterogeneous integration
Photonics
MEMS & microfluidics
Sensor platform
Flexible technologies

DIGITAL TECHNOLOGIES

Artificial intelligence
Privacy / cybersecurity
(Beyond) 5G connectivity

What we offer

R&D

COLLABORATION



DEVELOPMENT



VENTURING

STARTUPS & FUNDS



Imec.DeepTechVentures

Enabling scalable impact

Turning advanced research into scalable solutions requires more than just ambition.

Imec.DeepTechVentures uses its unique offerings and expertise to help founders de-risk their journey from concept to market, turning bold deeptech opportunities into successful, scaled companies that create a lasting impact.

Since 2018, our dedicated team of 10+ experts with a proven entrepreneurial track record have helped shape and co-shape 50+ ventures.

External Opportunities
VCs / CVC / Accelerators

Co-creations
Universities / Research Institutes

Internal creations
Spin-offs / EIR

Imec is a unique deeptech venture development hub

Empowering ventures with the expertise of a global deeptech leader

Knowledge & Innovation



Leading deeptech researchers and developers.



Imec innovation, IP, and venturing know-how.

Prototyping & Production



Industry-grade tools & facilities.



Low-volume pilot production, facilitating lab-to-fab transfer.

Ecosystem & Growth



Imec ecosystem for technological and commercial collaborations.



US & Europe imec accelerator to incubate and scale, incl: talent, funding, coaching, and commercial traction support.



imec.xpand a unique partnership with a leading independent DeepTech VC funds



Initial tickets
of ~5 mEUR.

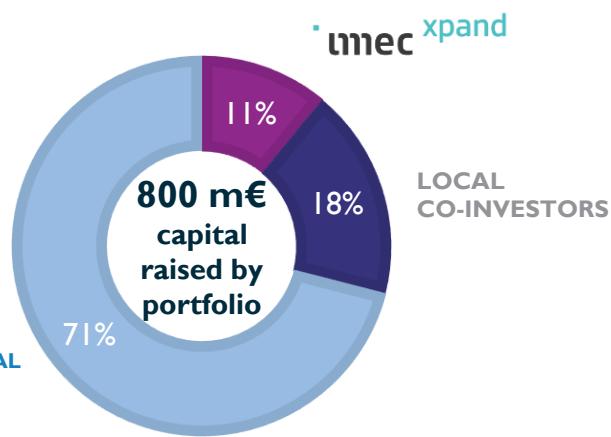


Investing
worldwide

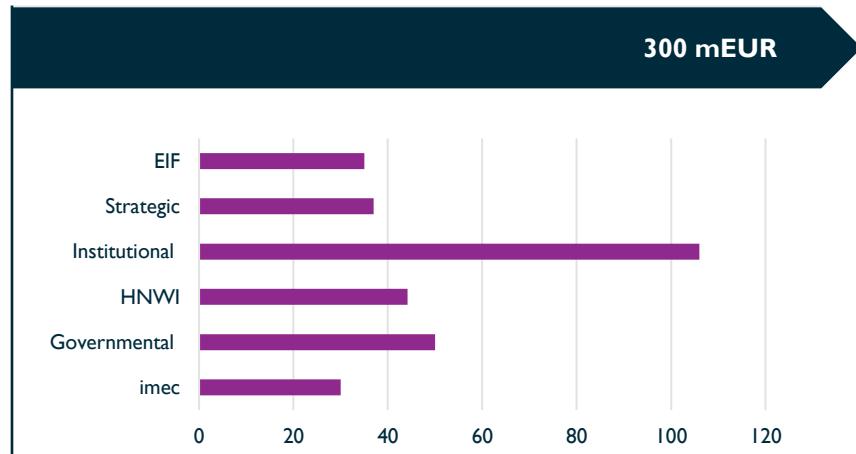


Hands-on business support
and advice

IMEC.XPAND I – 117 M€



IMEC.XPAND II – 300 M€



imec.DeepTechVentures offering to entrepreneurs

**imec
entrepreneur**



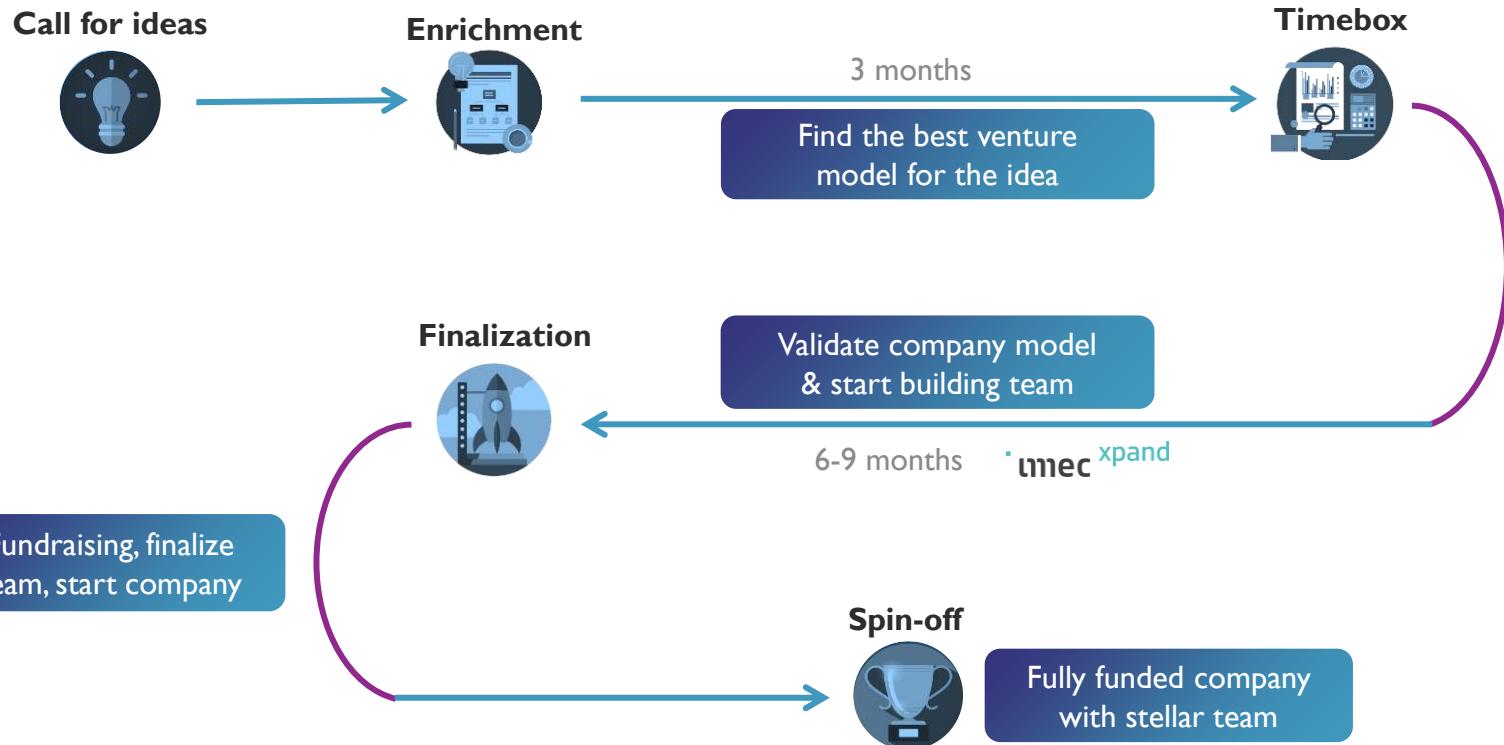
**existing
startup**



Imec.DeeptechVentures – supporting imec entrepreneurs

imec.DeepTechVentures for imec (to-be) entrepreneurs

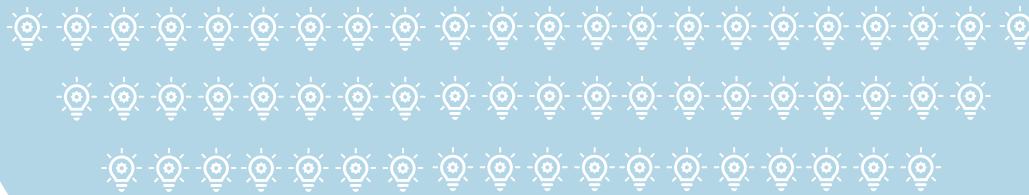
Shaping ventures based on imec technology



Opportunity	Idea	Problem	Describe the problem that you will be solving: what it is and what is its impact		Unmet customer requirements. Product cost.
		Solution	Describe the solution you offer and the benefits or pain reliefs for your customer		Validity of the IP, alternative competitive technologies
		Uniqueness	Describe why your solution is better than other solutions and how that advantage is protected		Maturity of the technology (R&D), critical features
		Technology	Describe the technological features that make your solution possible		Growth rate of the overall market, regulatory matters, new unproven market, uncertain demand
	Market	How large is and what is your target Market ? Are there other opportunities?			Evolution of the customer expectations. Scalability
	Value Proposition	Why does your idea represent a Positive present value? Explicit your differentiating advantage & USP. Why and how will you make money?			Barriers from new technology. Pricing. Easy reach to the customer. Cost of sales. Switching costs.
	Strategy	Will your solution create Acceptance from the customer? Explain who the customer is, why he will buy from you? How will you get to the customer and how will you keep him?			Future alternative solutions from competitors. New entrants. Pricing pressure. Ease of copying. Channel monopoly.
	Competition	Indicate what the Competing solutions, companies and technologies are and the reason why you won't be competed away.			Longer product development time, closed market window. Need for larger investment.
	Readiness	Why is it a good Time now to enter the market? Speed , How quickly can you enter the market.			Execution capability of the team. Key partnerships. Team glue. Dependency on key persons.
	Team	Describe who the key people are and what their role is. What roles are missing?			Revenue growth rate
Execution	Strategy	Is the business strategy consistent with the delivery of the opportunity and the maximization of the ROI ? Is the strategy in line with the uncertainties, team and exit goal?			Are milestones bankable? How aggressive is the timing? Size of the amounts of capital needed versus the financials.
	Financials	Give an overview of the P&L, CF projections, working capital, investment plan for a period of 5 years including the assumptions			Is the valuation realistic?
	Investment	Describe the proposed investment (amounts, parties, conditions) to reach the next milestone(s) and the total amount with timeline needed to become CF positive, divided in amounts to be raised, funded, loans,...			Dominant control of 1 party. What is the downside protection?
Structuring	Contribution in kind	Value of the contributed technology and the modalities to secure the assets. Value contributed by the team (bootstrapped)			Impact of a delay to exit.
	Deal	The deal structure provides appropriate incentives for all stakeholders and governance. It help manage uncertainties.			
	Exit	When and how an investor can exit and what is the potential return?			

The imec venturing engine: results of the last 7 years

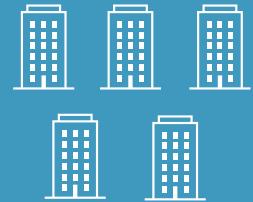
500+ ideas evaluated
and developed



>60 projects got
pre-seed funding



35 spin-offs created



Valuation of Top 10
>500M€

Value increased
2-4 times

>420 new
jobs created

Imec.DeeptechVentures – supporting existing startups

imec.DeepTechVentures for existing start-ups

Enabling start-ups with a deep-tech disruption



Boost your product with derisked nanotechnologies

- Injection of existing background IP
- Specific creation of foreground IP to maximize the impact of the technology on the value proposition



Dedicated expert team to navigate the deep-tech specifics from concept to product to market



Bring your product from lab to fab and enable large-volume manufacturing



Funding through the independent imec.xpand fund

Imec.DeeptechVentures family



Imec spin-offs – deep tech



Imec spin-offs – high tech

INBRAIN
NEUROELECTRONICS

NAGI
BIOSCIENCE

Optalysys

nubis
COMMUNICATIONS

Wise
integration

genopore

celestial AI™

SCIL
Nanolithprint solutions

PsiQuantum

FABRIC8LABS

LUMA
VISION

FMC
The Ferroelectric
Memory Company

Imec.xpand investments in start-ups powered by imec technology

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