

Netherlands- Flanders Economic Mission to the USA, Semiconductor Industry

3 - 8 December 2023

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Foreword



Mark Rutte



Jan Jambon



Micky Adriaansens

We, the Prime Minister of the Netherlands, the Minister-President of Flanders, and the Dutch Minister of Economic Affairs and Climate Policy, are honored to lead this major economic mission on semiconductors to Phoenix, Arizona and San Francisco, California. It is crucial to further strengthen European and American ecosystems for key enabling technologies such as semiconductors to ensure resilient supply chains.

Semiconductor technology will be crucial in solving global challenges such as climate risks, food security, mobility, energy and health and in ensuring our security. Almost every innovation of the recent past, present and future depends on it. Both the US and the EU are stepping up their investments in the semiconductor sector under the US CHIPS Act and the European Chips Act. This offers a wealth of opportunities for Dutch, Flemish and US companies.

The Netherlands and Flanders are home to many key players in the global semiconductor ecosystem. Together we host a cluster that occupies a leading position in Europe and is recognized worldwide as a cornerstone of innovation and progress. We are proud to join IMEC, ASML, ASM, Melexis, NXP and around 50 other partners in this cluster on this mission to Phoenix and Silicon Valley.

In Arizona, we will demonstrate how we walk our talk by helping strengthen the Phoenix cluster's capabilities in terms of both quality and quantity.

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And we will show how we are working together to address workforce and talent challenges. In California we will also focus on how to take the next steps in our partnerships for innovation.

Guiding us on our mission are:

Ingrid Thijssen, President, Confederation of Netherlands Industry and Employers (VNO-NCW)
Joy Donné, CEO, Flanders Investment & Trade (FIT)
Paul van Attekum, Chair, High Tech NL

We are confident that all of our meetings in Phoenix and Silicon Valley will boost trade and investment and help forge new innovative partnerships.

We wish all participants an inspiring and successful mission.

Mark Rutte

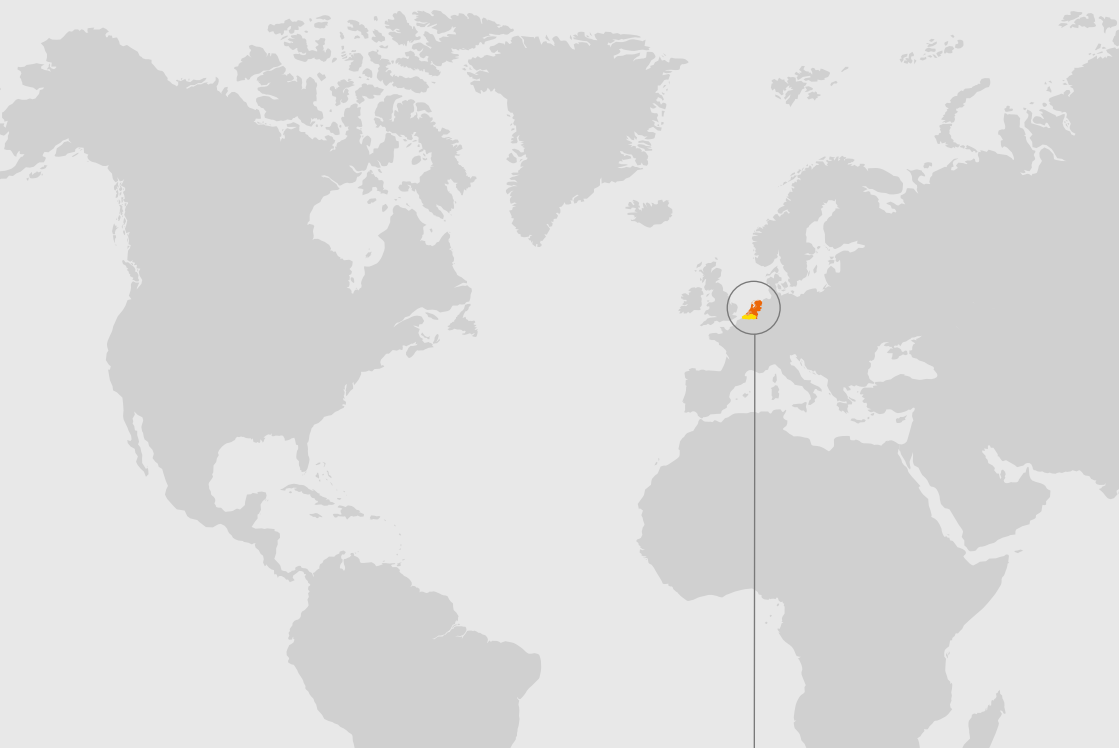
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Minister-President of Flanders

Micky Adriaansens

*Minister of Economic Affairs and
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Map of the Netherlands and Flanders

Capitals

1. Amsterdam
2. Brussels





USA and the Netherlands - Flanders

Let's drive innovation in semiconductors together

Semiconductors have transformed our lives and will continue to do so. This technology plays a crucial role in creating chips for computers, smartphones, cars, drones, and more. Without it, much of today's technology wouldn't exist as we know it.

Acknowledging the world's demand for chip production, Flanders and the Netherlands are committed to co-creating sustainable solutions that promote innovation and partnerships in the global semiconductor value chain. Together, we are shaping the future of advancements in an industry that has captured the world's attention.

The United States is a valuable partner in our mission, and we consistently collaborate to advance the latest semiconductor generation. Arizona and Silicon Valley serve as hubs of US semiconductor innovation, offering numerous opportunities for Flemish and Dutch companies to exchange knowledge and establish meaningful partnerships.

As the semiconductor industry is truly global, we foster openness and collaboration with other nations. That is why the Netherlands and Flanders are organizing this joint economic mission, with the goal to seize opportunities and accelerate innovation together.

Company profiles



Applied Nanolayers

Building the Graphene & 2D Materials supply Platform for the Semiconductor Industry



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Founded in Leiden in 2012, Applied Nanolayers (ANL), produces high-quality graphene and 2D materials at an industrial scale to supply the global semiconductor industry.

While conventional chips are reaching the physical limits of miniaturisation, our single atom-thick layers of graphene and other 2D materials make it possible to extend Moore's law and will be crucial to developing the next generation of graphene electronic devices from sensors to photonics. We are scaling up graphene production towards industrial volumes, while expanding our technology to other 2D materials. Ultimately, we aim to integrate high-performance TMDC material into future transistors. Unlike its competitors, ANL started from scratch with the requirements and limitations of the semiconductor foundries and their processing tools in mind. The resulting process is significantly better than any alternative and can be adopted by, and scaled to, higher volumes, enabling established foundries to reach economies of scale. While ANL's process flow can be used for many different sensor applications, the biosensor market is our beach head. Graphene, biosensors can be produced that are fast, highly sensitive, and can detect diseases earlier, at less cost, or that could not be detected otherwise.



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ASML

ASML is an innovation leader in the semiconductor industry. We provide chipmakers with everything they need – hardware, software and services – to mass produce patterns on silicon through lithography.

We believe that technology can be a force for good in the world.

We enable groundbreaking technology to solve some of society’s toughest challenges. Together with our partners, we provide leading patterning solutions that drive the advancement of microchips.

ASML is one of the world’s leading manufacturers of chip-making equipment. It’s a common misconception that we make chips, also called microchips or integrated circuits (ICs), but we actually design and manufacture the lithography machines that are an essential component in chip manufacturing. Our customers are companies such as Intel, who use our machines in ‘fabs’ – microchip manufacturing plants – to create microchips that are eventually used in many electronic devices, including smartphones, laptops and much more.



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ASMPT ALSI



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ASMPT ALSI is the pioneer of multi-beam laser dicing and grooving. This revolutionary technology allows semiconductor manufacturers to dice or groove single wafers with minimal thermal impact, resulting in higher productivity and reduced costs. With the LASER1205 machine, they can cut through various wafer materials, experiencing faster and more precise results.

Founded in 2001 as a spin-off from Philips Semiconductors, ASMPT ALSI inherited the knowledge and patents of the Multi Beam Laser Processing Technology. Since then, ASMPT ALSI has become the market leader in wafer processing for RFIC, VSCEL, DDI, Thin Si, and SiC applications.

Operating on a wafer level in the SEMI industry, ASMPT ALSI's team of over 100 professionals in Beuningen, The Netherlands, collaborates closely with customers to create high-value solutions using advanced laser technology. Our Scientists, Engineers, and other professionals, are changing the Laser dicing business.

ASMPT ALSI is part of the global ASMPT group. ASMPT can equip every step in the electronic manufacturing process with high-quality solutions: from equipment to multi-factory-level automation concepts for smart manufacturing. ASMPT brings solutions for manufacturing of components for electronics, mobile communications, computing, automotive industrial and LED (displays).



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Brabant Development Agency

Catalyzing Change



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Entrepreneurship is the driver of innovation – from sustainable food sources to a healthy future, climate-neutral energy, and developing promising key technologies. The Brabant Development Agency (BOM) ensures that startups playing a role in these fields receive the right support and funding to get off to a flying start and grow into scaleups, and that companies that aspire to go global can actually do so. Every year BOM works with dozens of companies to create this impact. BOM is an executive body of the Province of Brabant and the Ministry of Economic Affairs and Climate Policy.

We work together with businesses that embrace new developments and who understand that they can achieve more by partnering with other pioneers in Brabant's corporate world, our knowledge institutes, and an incentivizing government. By encouraging activities that anticipate the fourth industrial revolution, we are creating the economy of tomorrow. We create an appealing climate for foreign businesses and for retaining employment levels. We aid Brabant companies that want to spread their wings abroad and we stimulate the development of sustainable energy products.



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Brainport Eindhoven

Brainport Development is an independent demand-driven economic development agency leading the innovative ecosystem Brainport Eindhoven, consisting of a strong knowledge intensive high-tech manufacturing industry with a focus on Key Enabling Technologies, such as microelectronics and integrated photonics.

Brainport Development focuses on strengthening regional focus areas and clustering them in a nationwide approach for control-points in international value chains. The knowledge intensive manufacturing industry is characterized by small-scale production of technically complex products. Being at the forefront of Key Enabling Technologies is crucial for Brainport to make a relevant contribution to solutions that the world of today and the future demands. And more importantly, we are better than anyone else at developing high-tech complex systems and integrating various key technologies.

Close collaboration, sharing knowledge and smart entrepreneurship characterize the open innovation culture which makes Brainport the growth accelerator of the Dutch economy.



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Bronkhorst High-Tech

Bronkhorst High-Tech is a leading manufacturer in the field of flow measurement and control technology. With more than 40 years' experience, we offer an extensive product range of thermal, Coriolis and ultrasonic flow meters and controllers for low flow rates of gases and liquids.

Our instruments - partly produced in a cleanroom - are used for a variety of applications in laboratories, test-benches, machinery and a wide variety of industries. Examples where Bronkhorst instruments are successfully used: layer deposition and MOCVD processes, spray coating, nitrogen purge of wafer load port and FOUP systems.

By sharing our knowledge and closely cooperating with OEM customers, we develop customer specific low flow solutions, e.g. of multi-functional, pretested modules or skids for gas, liquid of vapor flow control.

With our headquarters based in Ruurlo (The Netherlands), Bronkhorst is represented by 12 wholly owned subsidiaries in Europe, in the USA and in Asia and additionally by a network of distributors in more than 30 countries worldwide. To serve customers in the US, our professional sales and service team is located in Bethlehem, Pennsylvania, and we have representations throughout the country.



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ChipTech Twente

The Dutch region Twente in Eastern Netherlands is on the national and international map as a hotspot for semicon and specifically for analogue chip design, photonics and microfluidics/mems. It is also an important supplier to ASML. With a strong Integrated Circuit Design department at the University of Twente headed by professor Bram Nauta, the MESA+ institute and around 50 semiconductor-related SMEs, customers worldwide benefit from the unique knowledge of Twente. These companies have one thing in common: they all work closely with the University of Twente and Saxion University of Applied Sciences, which have a long and impressive history and a strong international scientific track record in the fields of electrical engineering, microelectronics, nanotechnology, photonics, quantum technology and microfluidics.

In Twente we can make an important contribution to the ambition of developing the new generation chips. Especially in Twente we can do that. After all, the breadth and combination of (enabling) technologies such as electronics, photonics and microfluidics is a major challenge. To realise this ambition, action and investment power are needed. That is why we are focusing on three priorities in Twente:

- Continued investment in electronic chip design
- Research programme for integration heterogeneous systems
- Realisation of heterogeneous fab



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CITC

Chip Integration Technology Center (CITC) is a non-profit, joint innovation center specializing in heterogeneous integration and advanced chip packaging technology.

We have created an effective ecosystem in which companies, research and educational institutes work on bridging the gap between academics and industry. Together, we work on a new generation of packages providing smart, safe, and rugged housing for chips. CITC's contribution to the ecosystem is to provide access to innovation, infrastructure, and education. Our ambition is to become a leading innovation partner in the fields of semiconductor and photonics packaging.

CITC was founded in 2019 with strategic partners TNO and Delft University of Technology and is supported by local and regional governments. Based on Novitech Campus Nijmegen, CITC is perfectly situated in the heart of the Dutch semiconductor industry.



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OPTION

**REMOTICOM**



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Crescent

Technology group Crescent develops and markets reliable, secure and green Internet of Things solutions for Smart Building, Smart City, Industry 4.0 and Smart Energy applications worldwide. Crescent is a one-stop-shop for innovative IoT integrations that empower and enable businesses to thrive and accelerate their transformation into a safer, more sustainable, more comfortable whilst more efficient living environment.

Option™ CloudGate platform, has open interfaces for aggregating (sensor) data to (Cloud) environments. Remoticom develops IoT sensors for Smart Lighting, Smart City and Smart Industry applications which are commonly connected via NB-IoT/LTE-M cellular technology and will soon expand its sensor technology with non-cellular as well as 5G connectivity solutions.

Crescent is well positioned to offer efficient, reliable and secure IoT solutions across a variety of industries and applications. We partner with system integrators, value added resellers, value added distributors and network operators to bring tailor-made solutions to customers around the world. We back our advanced CloudGate IoT platform with an extensive engineering consultancy.



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ventures.com

www.option.com

CloudGate is carrier-approved and delivers device connectivity, security and processing power to global customers. LuvitRED, delivers a visually configurable agent for the design and deployment of smart IoT solutions. Remoticom's sensors seamlessly connect with Option's CloudGate IoT gateways.



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Delft University of Technology

Delft University of Technology (TU Delft) is the oldest and largest technical university in the Netherlands, ranked by QS World University Rankings among the top 10 engineering and technology universities in the world, and ranked 48 by the Times Higher Education World University Rankings in 2023. Our 8 faculties offer 16 bachelor's and more than 30 master's programmes. Our more than 26,000 students and 6,000 employees share a fascination for science, design and technology. Our common mission: impact for a better society.

<https://www.tudelft.nl/en/about-tu-delft>

The faculty of Electrical Engineering, Mathematics and Computer Science (EEMCS) play a pivotal role in tech-driven innovation, with global leading reputation in electronics and semiconductors technologies.

<https://www.tudelft.nl/en/eemcs/the-faculty>



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Demcon high-tech systems



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Demcon is a contract R&D partner for the design and realization of customised mechatronic modules and equipment. We develop modules and manufacturing/inspection equipment for leading OEMs in the Semicon Manufacturing Equipment industry. With over 700 engineers we are the industry leader in the Netherlands.

Our expertise in mechatronic systems engineering is complemented with in-depth know-how in thermal modelling, vibration modelling, modelling of particle generation and particle flows, plasma physics & deposition technologies, metrology, optics & vision and cryogenics, to name a few.

The value we offer to our customers consists of fast and competent R&D support to improve performance and time-to-market of your systems, without posing any IP claims.

Thanks for challenging us to contribute to your technology development!



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Eindhoven University of Technology

Eindhoven University of Technology was founded in 1956 by industry, local government and academia. Their spirit of collaboration is still at the heart of our university where we foster an open and free culture.



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Eindhoven University of Technology and Brainport: a thriving ecosystem

Our campus is in the center of one of the most powerful technology hubs in the world: Brainport Eindhoven. Globally, we stand out when it comes to collaborating with advanced industries. We form a thriving ecosystem with one common aim – to improve quality of life through sustainable innovations.



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Personal attention and room for talent

Eindhoven University of Technology offers academic education driven by fundamental and applied research. Our educational philosophy is based on personal attention and room for individual ambitions and talents. Our research meets the highest international standards of quality. We push the limits of science, which puts us at the forefront of rapidly emerging areas of research.

Scientific curiosity with a hands-on mentality

We combine scientific curiosity with a hands-on mentality. Fundamental knowledge enables us to design solutions for the highly complex problems of today and tomorrow. We understand things by making them and we make things by understanding them.



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Fastmicro

Fastmicro is a technology leader in advanced surface particle contamination inspection equipment and scanners, serving the microtechnology industries. Our fast measurement solutions offer high throughput and cost-efficient contamination control at (sub) micronscale level, reducing defectivities, failures and yield losses.

Our product range and analytics software cover a wide variety of applications and processes, including in-line inspection, portable scanners, continuous particle fallout monitoring, and scanning modules for system integration. As an innovative metrology equipment and service supplier based in the Brainport area of the Netherlands, Fastmicro has a global presence with sales offices and local representation in Taiwan, Korea, Japan, and the USA. We are committed to delivering exceptional value to our customers through our cutting-edge technology and unparalleled customer service.



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Ghent University

Ghent University is an internationally renowned, open, pluralistic and socially engaged university in Belgium. It is more than 200 years old, offers more than 200 programs (including 64 English-taught master's programs) and conducts in-depth research within a wide range of scientific domains.

In this mission there is a representation of the center for Nano- and Biophotonics and from the Photonics Research Group at Ghent University, an associated lab of imec by Eva Ryckeboer. This is a world-class team specialized in silicon photonics, the dominant technology for creating Photonic Integrated Circuits (PIC). The group does fundamental as well as applied research. Novel concepts are validated through rapid prototyping, using imec platforms and Ghent University cleanroom infrastructure. Rapid prototyping capabilities include the heterogeneous integration of photonic materials and chiplets on imec wafers by means of micro transfer printing.

The second representation is of the WAVES research group of the Department of Information Technology by Luc Martens. The WAVES group is also embedded in imec. WAVES is an expert in wireless networks and IoT. In this mission, Luc Martens will also represent, as chairman of the steering group, the partnership between Ghent University and UC Berkeley.

www.waves.intec.ugent.be
ucberkeley.ugent.be
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iCana is a fabless semiconductor component supplier specializing in design and manufacturing of RF components for wireless communication. Our primary markets are 5G NR FR1 and FR2 infrastructure together with automotive connectivity. By managing the end-to-end process from IC design through qualification and mass production, we are committed to providing unrivaled performance, quality and reliability. Headquartered in Taiwan, we have additional R&D centers located in Belgium, Singapore and the United States.

At iCana, we are dedicated to providing cutting-edge RF components with the design flexibility engineers need to create robust, efficient 5G networks. Our components offer wide bandwidth, high power efficiency and high linearity, making them ideal for use in a range of applications covering all major 5G frequency bands of 5G NR FR1 (Sub-6 GHz) and FR2 (mmWave).

Our products cover all the active RF components used in small cell front-end design including Power Amplifiers, Differential Gain Amplifiers, Switches, and Receiver Front-End Modules in Sub-6 GHz; Beamforming ICs and Up/Down Converters in mmWave applications. They are highly integrated, cost-effective and are designed to meet the demands of future complex wireless infrastructures.



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imec

imec-international boasts more than 5,500 expert scientists, a unique infrastructure that includes a 300mm semiconductor pilot line, and an ecosystem of more than 600 world-leading industry partners and a global academic network.



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At imec The Netherlands it is our mission to develop targeted innovations with real impact on people's lives. Here, imec joins forces with research institutions, governments, and businesses to leverage its world-leading R&D for high-impact projects in nano- and digital technology. These activities are spread over two research centers with specific objectives.

Holst Centre is an independent research and innovation centre, jointly operated by imec and TNO. It develops technology that responds to global societal challenges and contributes to new micro-electronical and sensor technology solutions in the fields of health & vitality, energy & climate, mobility & industry 5.0.

OnePlanet Research Center is a multidisciplinary collaboration of Wageningen University & Research (WUR), Radboud University, Radboud university medical center, and imec. It uses the latest chip and digital technologies to create a society in which everyone can live a healthy life and has access to healthy and sustainable food.



imec
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imec

imec is a world-leading research and innovation center in nanoelectronics and digital technologies. Imec leverages its state-of-the-art R&D infrastructure and its team of more than 5,500 employees and top researchers, for R&D in advanced semiconductor and system scaling, silicon photonics, artificial intelligence, beyond 5G communications and sensing technologies, and in application domains such as health and life sciences, mobility, industry 4.0, agrofood, smart cities, sustainable energy, education, ... Imec unites world-industry leaders across the semiconductor value chain, Flanders-based and international tech, pharma, medical and ICT companies, start-ups, and academia and knowledge centers. Imec is headquartered in Leuven (Belgium), and has research sites across Belgium, in the Netherlands, and representation in 3 continents. In 2022, imec's revenue (P&L) totaled 846 million euro.



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With more than EUR 400 million assets under management, imec.xpanse is one of the world's largest independent venture capital funds dedicated to early-stage semiconductor innovation. The imec.xpanse funds target ambitious deep tech start-ups where the knowledge, expertise and infrastructure of imec, the world-renowned semiconductor and nanotechnology R&D center, can play a determining role in their growth. imec.xpanse has an outspoken international mindset towards building disruptive global companies and strongly believes that sufficient funding from the start is key to future success. The team's unique ability to assess technology risk in the earliest stages of development enables imec.xpanse's game-changing approach towards hardware driven semiconductor innovation.



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inphocal.com

Established in 2019 as a spin-off from CERN, inPhocal is revolutionizing laser beam technology. Our cutting-edge optical innovation has the power to enhance production line efficiency in terms of output, speed, sustainability, and cost.

Our groundbreaking technology can be utilized for diverse purposes such as marking, cutting, welding, and even for the semiconductor industry. By surpassing prevailing inkjet and laser marking methods, we are ushering in the next-gen laser-based wafer singulation technology, catering to both traditional semiconductor and the next step in heterogeneous integration phase for semicon.

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KULeuven ESAT-MICAS

KULeuven in Belgium is Reuters' highest-ranked European university for innovation. MICAS is the division of the electrical engineering department (ESAT) of the KU Leuven, specialized in chip design. The division is a close-knit, collaborative team of 6 professors, 65 researchers and 12 support people, striving for excellence, pushing ourselves to deliver the highest quality performance in everything we do. Through our research, we define and answer fundamental challenges in the field of chip design and generate breakthroughs that enable new solutions based on microelectronics, both in academia and in industry. On top of that we train and guide talented PhD and postdoctoral students, to become trendsetters in micro- and nanoelectronics.

The MICAS research agenda spans a very wide range: from fundamental to applied research, from conceptual explorations, to prototype realization. An initial concept can gradually mature into research results that can be transferred to industry and society. The many projects in this research pipeline are funded through various channels: from internal KU Leuven funding, over European and regional funding, to bilateral industrial funding. The Intellectual Property arrangement is tailored towards the specific collaboration, meeting the exclusivity requirements of our partners without blocking our own academic freedom and research roadmap.



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KULeuven ESAT-MICAS League of European Research (LERU)

Ranked #42 worldwide by Times Higher Education, KU Leuven (the University of Leuven) is dedicated to world-class academic education and research in nearly all fields. With over 65000 students, among which 22% international, it is the largest university in Flanders. As member of LERU (the League of European Research Universities), its innovative research forms the basis of its educational programs at both bachelor, master and PhD level, and focuses on fundamental as well as applied research and valorization. Since 2016, it heads Reuters' list of Europe's most innovative universities.

Across the university, top researchers and curious students continually gain new insights and use their knowledge to tackle the foremost challenges of our time. This holds in many fields, including micro/nanoelectronics and integrated circuit (chip) design.

KU Leuven's MICAS group (6 professors, ~70 PhDs, 20 chip tape-outs per year) in the Department of Electrical Engineering (ESAT) is one of the leading research groups in the world. It carries out groundbreaking research across the entire spectrum of chip designs, from analog to digital and RF, from AI accelerators to sensing, in application domains ranging from biomedical over power management to telecom, and this in all semiconductor technologies available to universities.



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Luceda Photonics

Luceda Photonics is a leading provider of photonic integrated circuit (PIC) design software and services. The Luceda Photonics Design Platform enables engineers and researchers to design, simulate, and optimize PICs and empowers them to quickly achieve their tape-out, getting their designs right the first time.

Luceda Photonics Design Platform

Unique first-time-right photonic IC design software

- Use a standard language for your photonic IC (PIC) designs, models, and IP management. Leverage the benefits of IPKISS, a Python-based platform.
- Enhance your design with Luceda IPKISS' single component definition and parametric approach for PIC design and simulation.
- Document, maintain and reuse your IP, adopt an iterative design cycle and reduce the time to market
- Design manufacturable PICs, gain access to a wide range of foundry PDKs' and tape-out with the foundry of your choice. Retarget your designs to the foundry that fits your needs best.
- Create components and circuits for a wide range of applications, from telecom to sensors, LiDAR, and more.
- Easily get started in code-based PIC design, analyze and verify your design in a schematic environment, and enhance the collaboration within your team.



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Magics Technologies

Rad-hard Semiconductor supplier, located in Europe for Space, Nuclear, Aerospace, Defence and Medical applications

Located in Geel, Belgium, Magics Technologies is a fabless semiconductor supplier focused on creating innovative solutions for the space, nuclear, aerospace and defense markets.

Magics utilizes a rad-hard-by-design methodology and library to continuously expand its product lines. This approach has resulted in the development of five ITAR-free product lines: Motion, Time, Power, Vision and AI.

The strong growth drivers in Magics' niche markets - communication and real-time imaging in new space and space markets, and obsolete components in the nuclear sensor market - present tremendous opportunities for the company to expand its business.

With the aspiration to become the leading supplier of rad-hard semiconductors for the Energy, Space, Aerospace and Defense markets, Magics has doubled its staff and revenue almost annually.



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MECAL High-tech/Systems



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MECAL High-tech/Systems is an independent global engineer with an OEM product base that specializes in being in control of critical conditions for research, development and production in high-tech materials and high-tech systems. Our technology is developed in and for the semiconductor industry, and adapted in other high-tech markets. We work at nanometer operations scale, and our business and operations is on a global scale.

We focus on applied research and engineering and have been developing a vast IP base, and a very strong OEM product base.

We are involved in multiple co-developer relations with high-end developers and demanding top tier customers.

We have been working in the US with clients partners for more than 15 years. We focus to advance technology for and with our Japanese partners and co-makers relations to create and build specializations and uses of our know how and IP-base in multiple technology agendas, like EUV Lithography, Photonics, Sensors and Quantum intelligence.



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Melexis

Having a heart for innovation, Melexis designs, develops and delivers innovative micro-electronic solutions. They enable designers to turn ideas into applications that support the best imaginable future. The company's advanced mixed-signal semiconductors integrate sensing and driving into next-generation products and systems. They improve safety, raise efficiency, support sustainability and enhance comfort.

Melexis is a world leader in automotive sensors. Today, on average, every new car produced contains 18+ Melexis chips. Melexis uses this expertise to serve other markets as well: alternative mobility, smart appliances, smart buildings, robotics, energy management and digital health.

Melexis is headquartered in Belgium and employs over 2,000 people in 12 countries worldwide. The company is publicly traded on Euronext Brussels (MELE).

Françoise Chombar, Chairwoman and co-founder of Melexis, has been the CEO of Melexis for 18 years. She is also member of the board of directors of a.o. Umicore, Soitec, Ligentec, X-Celeprint and Smart Photonics.

For more information, visit www.melexis.com



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Microsoft

Microsoft (Nasdaq “MSFT” @microsoft) enables digital transformation for the era of an intelligent cloud and an intelligent edge. Its mission is to empower every person and every organization on the planet to achieve more.



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Microsoft has more than 36 years presence in the Netherlands and is well integrated into the Dutch society. Operations started in 1986 as Benelux organization until 1996. The Schiphol Office opened in 2006 and was a flagship site for Hybrid Work in the country. Microsoft NL employs 1200 people in the Netherlands, of which appr. 400 work at the Microsoft Datacenter Campus in North Holland. The Microsoft ecosystem has grown to 7.500 partners and delivers services to 400.000 Dutch businesses and organizations.



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In 2019, Microsoft opened the Quantum computing lab in Delft, where work continues to build the first topological Qubit. In 2021, Microsoft Research Lab in Amsterdam opened with the ambition to advance science and technology to benefit humanity.

Lastly, Microsoft the Netherlands has as strong footprint in contributing to the digital education and helping people reskilling. Next to programs in which we aim to land 26.000 people in the 30 most in-demand jobs driving digital transformation and green transition, we also collaborate with organizations to help refugees' participation on the labor market.



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MI-Partners

Partners in mechatronic innovation

MI-Partners offers contract development for semiconductor equipment and instrumentation. We are development partner for high-end mechatronic products and systems for both scientific institutes and industry. We offer unique mechatronic expertise and help our customers innovate. Core competences are system design, precision mechanics, (thermo)dynamics and control, electronic design and embedded software development. We are specialized in concept generation and validation for ultra-fast, extremely accurate or complex positioning systems like stages, manipulators, robots and handlers.

We have a staff of 55 highly educated engineers with considerable experience in the following disciplines.

Key competences MI-Partners

- Mechatronic system design
- Precision engineering
- Metrology
- Dynamics and control
- Thermal dynamics
- Dynamic error budgeting
- Vibration isolation
- Air bearing design
- Actuator design
- Design for cryogenics/vacuum/contamination
- Magnetically levitated systems
- Equipment control electronics & software
- Prototyping

We serve customers like ASML, ASMPT, Berkeley Lab, Bosch, Carl Zeiss, NXP, Philips ThermoFisher Scientific and different synchrotron institutes.



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Nearfield Instruments

With the continuous aggressive downscaling in size and the upscaling in complexity and the 3D characteristics of IC devices the semiconductor manufacturing industry requires increasingly innovative and advanced process development and control.

Nearfield Instruments fulfils the need the semiconductor industry's metrology & inspection challenges with high-throughput, non-destructive, in-line probe-based metrology & inspection solutions for 5 nm and beyond process control for the entire semiconductor value chain (advanced wafer processing, specialty nodes and advanced packaging).

Nearfield Instruments' product portfolio includes the QUADRA™ surface metrology solution. It features a groundbreaking multi-miniaturized AFM head architecture combined with feedforward trajectory planner (FFTP) imaging technology to enable on-device, non-destructive measurements for in-line process monitoring of very high-aspect ratio structures as well as hybrid bonding and EUV resist critical dimension metrology. QUADRA has shown a factor of more than 100x improvement in imaging acquisition time when benchmarked against existing state-of-the-art AFM systems and is currently being deployed in major High-Volume Manufacturing fabs globally.

Recently, Nearfield Instruments launched AUDIRA™ – the industry's first and only in-line, non-destructive subsurface metrology system for advanced semiconductor manufacturing. The AUDIRA system provides highly accurate and reproducible nanometer-level measurements of buried features and defects, such as voids, in advanced memory and logic devices.



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Neways Electronics International

With more than 50 years' experience and strong engineering power, Neways is proud to act as technology innovation partner for the most demanding customers in the electronics industry. Neways develops and produces electronics that facilitate major trends in smart mobility, semicon solutions and connectivity from design to series production and aftermarket solution in PCB and Boxbuild assemblies.

Services

Neways supplies electronic PCB and Boxbuild assemblies in three key markets. For Smart mobility Neways is supporting solutions for the entire electric power control, from EV charging, charging cables, inverters to the electric drivetrain. For Semicon Neways is supporting their customers with solutions for lithography systems such as high-speed data processing, motor control, and power measurement. For connectivity Neways offers a wide array of industrial automation solutions based on our expertise in sensors, controls and gateways.

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NTS

With a 75-year industry track record, NTS is your first-tier contract manufacturing partner, helping our customers achieve faster time-to-market for reliable, high-quality semiconductor modules and systems. We provide comprehensive support through complex co-development, engineering, industrialization, and the precision manufacturing of semiconductor solutions.

NTS is dedicated to assisting high-tech OEM customers engaged in cutting-edge product and system solutions for semiconductor production processes, such as e-beam photo mask writing, lithography, etching, deposition, metrology, inspection, and wafer dicing.

Our customers thrive in fast-evolving environments, demanding swift, innovative solutions for their unique needs. We invest in semicon critical competences like advanced motion systems, optics & opto-mechanics, accurate positioning, dynamics and vibration isolation, cleanliness, vacuum and temperature stability.

This unique blend of capabilities, combined with our global presence, positions us as the partner of choice for high-tech OEMs throughout Europe, Southeast Asia, and the United States of America.



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Oost NL

East Netherlands; where a complete semiconductor ecosystem has led global standard-bearers to success. Here you will find expertise in the entire semiconductor value chain from wafer processing, testing and measuring equipment, high precision positioning systems, advanced (multi-layer) packaging, fabless IC design services, MEMS development and production, microfluidics, photonic devices.

Join our strong network of global businesses, research institutes and universities!

Companies that are present in East Netherlands include NXP, Thales, Sensata, BESI, Nexperia, Towa, ASM ALSI, NTS Group, Xsens Technologies, BE Precision Technology, Ampleon, Gallium Semiconductor, Demcon, Boschman Technologies, Bruco, Teledyne, Lionix International, Micronit, 3T, Tempress, Salland Engineering, Malvern Panalytical, OdysseyRF, and Mini-Circuits.

Oost NL is the economic development agency for East Netherlands.

As an 'Invest in Holland' partner, Oost NL actively supports high tech companies with business expansion to The Netherlands. We have access to resources, funding, business partners and infrastructure, technological architecture and research partners - to help you succeed in establishing and growing your European business. If your strategic vision is global growth through European business development, Oost NL is your partner for success.



Oost NL
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PHARROWTECH



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Pharrowtech

Pharrowtech develops innovative wireless platforms to simplify and accelerate the adoption of millimeter-wave technology for mass-market applications. Our products include radio-frequency and digital semiconductors, phased array antennas, and software solutions.

Pharrowtech's leading products serve fast growing markets including broadband fixed wireless access (FWA) and 5G, as well as high-performance Wi-Fi platforms for consumer electronics, virtual reality (VR) headsets, and smart city IoT applications.



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PHIX Photonics Assembly

PHIX offers assembly services and contract manufacturing for photonic integrated circuits (PICs) and micro-electromechanical systems (MEMS). We build optoelectronic modules based on all major PIC platforms, such as indium phosphide, silicon photonics, silicon nitride, and planar lightwave circuit. We specialize in chip-to-chip hybrid integration, fiber (array) attachment, and interfacing of DC and RF electrical signals. By offering our knowledge already at the chip design stage, we ensure ease of scale-up towards volume manufacturing. We have a state-of-the-art production facility located in Enschede, The Netherlands, supporting the global industrial development of PIC and MEMS enabled modules.

Going from a PIC to a functional module is a multi-disciplinary design process. It involves product design (of the chip and the module), assembly process development, and equipment management. Our engineering and management teams contain people from each of these backgrounds. This gives us the overview and maturity to optimize the product's performance and cost while keeping the countless parameters within these disciplines in mind.

Our knowledge and experience in the fields of optics, electronics, and mechanical engineering allows us to produce first-time-right results, achieve a short time-to-market and facilitate a smooth scale-up to volume manufacturing.



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PhotonDelta

Accelerating next-generation chip technology



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PhotonDelta is a growth accelerator for the photonic chip industry, representing an end-to-end value chain with over 70 organizations that design, develop, and manufacture innovative solutions that contribute to a better world.

Photonic Integrated Circuits (PICs) are chips that use photons instead of electrons to sense, process and transmit data at unparalleled speed and sensitivity. The use of PICs allows for the creation of devices that are smaller, faster, and more energy-efficient compared to traditional solutions.

Backed by a €1,1 billion National Growth Fund of the Dutch government, PhotonDelta is accelerating the industry through programs on industrialization, ecosystem development and application technology.

Connecting pioneers in the field with viable markets and investors, PhotonDelta helps to take the industry forward.



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PLUGANDPLAY



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Plug and Play Tech Center

Plug and Play is a world-leading Silicon Valley-based innovation platform, with over 50 locations in over 20 countries on 5 continents.

The company brings together the best startups, the world's largest corporations and seasoned investors.

Our business rests on three pillars:

- Accelerator Programs: we run multiple industry-specific innovation programs in over 50 cities globally, among which 2 semiconductor programs in the US, aspiring to bring that knowledge overseas, in particular to the Netherlands;
- Corporate Innovation: we supercharge the innovation of large industry-leading corporations by developing innovation capabilities, strategizing their innovation roadmap and executing it together;
- Venture Capital: We invest in over 250 companies a year alongside the world's best VC's.

Plug and Play's collaborations include over 550 global giants as well as nurturing a portfolio of over 30 unicorn startups that include PayPal, Dropbox, Lending Club, N26, Big ID, Flutterwave, Honey, and many more. Through their in-house VC, Plug and Play has already invested in over 30 semiconductor companies, including one unicorn, Quantenna Communications.



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Prodrive Technologies

Prodrive Technologies designs and manufactures high-tech electronics, software, and mechatronic products and systems. We operate in four dedicated R&D programs and three highly automated manufacturing sites in Son in the Netherlands, Suzhou in China and in Boston, MA in the US.

Our mission is to contribute to innovations that tackle major challenges in society. In other words, we create meaningful technologies that make the world work.



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QBayLogic



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QBayLogic specializes in FPGA and digital ASIC designs, catering to a range of customer needs. With roots in programming language and compiler design, our expertise extends beyond just hardware. Our project portfolio exemplifies this. We've provided hardware implementations for Google's Bittide project: a novel take on synchronous, inter data centre scale computer networks aiming to greatly reduce the overhead of traditional networks. At the same time, we are founders and stewards of the open-source Clash project: a modern hardware description language aimed at robustness and reducing time to market for hardware solutions.

QBayLogic is committed to finding the right solutions for our customers, ranging from small implementations in conventional languages to full projects aiming to fundamentally change the way computers operate and communicate.



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QustomDot



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QustomDot leverages quantum dot (QD) color conversion to enhance microLED technology by providing unmatched colors. Despite MicroLED's potential, the absence of commercially viable, full-color displays is due to high production costs and inefficient red microLEDs. QustomDot addresses this challenge by tailoring an ink to customers' manufacturing processes, ensuring affordability and efficiency in microLED production. This patented technology, free of heavy metals, endures high light intensities, offering a dependable and sustainable solution. QustomDot has secured EUR 4.8 million in venture capital and EUR 5.2 million in grants, enabling 5 active partnerships in the industry.

Our product:

Considered the catalyst for advancing microLEDs, quantum dots (QDs) have been hailed as the cornerstone of next-generation display technology. These semiconductor nanocrystals absorb blue light and emit a pure color, determined by the QD's size. The 2023 Nobel Prize in Chemistry recognized the significance of this invention. QD color conversion (QDCC) technology significantly amplifies the efficiency of native red and green microLEDs, crucial for developing high-brightness displays with minimal energy consumption. QustomDot's heavy metal-free QDs for color conversion surpass existing market offerings in stability and customization, making them ideal for demanding applications. The ink's adaptability to diverse manufacturing processes further underscores its value.



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QuTech - Quantum Delta NL

Although the Netherlands is a small country, it possesses significant expertise and advanced facilities in the realm of quantum technology.

QuTech is an institute emerging out of collaboration between Technical University Delft and TNO (Organization for Applied Science Research). At QuTech, we work on various quantum computing and quantum internet technologies ranging from different qubit hardware (e.g. spin, color centers, superconducting and topological), middleware (e.g. cryogenic electronics), control software and technology demonstrators (e.g. Quantum Inspire, Quantum Network Explorer). We intend to align expertise of semiconductor industry with challenges in quantum, for radical new solutions.

QuTech is a contributor to the Dutch national quantum agenda, which is orchestrated by Quantum Delta NL. With Quantum Delta NL, we are creating a fully functional national ecosystem for excellence in quantum innovation. Quantum Delta NL strives to create significant societal impact through technological advancements. Our ecosystem is built around three catalyst programmes – quantum computing and simulation, a national quantum network, and quantum sensing applications – and tied together with four action lines – research and innovation, quantum ecosystem, human capital, and societal impact.

Salland Engineering



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Salland Engineering in Zwolle – The Netherlands is an international leading Semiconductor Test Technology & Engineering company. With over 30 years of experience and expertise, Salland Engineering delivers innovative test solutions via a unique combination of instruments, test applications and supply chain & test services, all in one company.

ATE Instrument Solutions: We design and manufacture high quality instruments, enabling you to upgrade functionality, performance and channel density of your ATE (Automatic Test Equipment) and/or T&M setups. This makes us partner of global, top players in the semiconductor market. For fast silicon bring-up/NPI, we also offer bench Test-lab-in-a-Box solutions.

Test Application Development: We provide services, such as test program development, test strategy & DFT, product qualification and release to volume production. Our in-house hardware design team can support you with the development of load boards and probe cards, including simulation services, for mixed-signal, RF, High-Speed and AI.

Supply Chain & Test Services: As one of the most advanced test houses on the planet, we offer packaged & wafer chip testing, from sample & process qualification up to ‘high-volume’ production. With our own onsite equipment (ATE, handlers & probers) we can provide NPI engineering support for rapid bring-up your semiconductors to the market.



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Settels Savenije

Located at the heart of Brainport Eindhoven, and with a team of over 150 professionals, Settels Savenije serves an international customer base in Semicon, Analytics and Research. For these customers, Settels invents, designs, manufactures, assembles, and tests high-tech equipment, products and tools.



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Development & Engineering

From the start of a project, we deploy all in-house knowledge from concept and system design, parts manufacturing and assembly & test in dedicated teams. We start from a solid system architecture. We design, verify and validate every step along the way, including complex physics modelling, prototyping and proof of concept demonstration.

Supply chain & System assembly

The development and engineering activities are closely integrated with manufacturing, testing and assembly. We manufacture the proof-of-principle equipment or prototypes, but also ensure the reliable, continuous supply of machines and modules. We can rely on our well-established supplier base for complex large parts, vacuum-vessels and -components, optics and mechatronics. The assembly area includes 800 m2 of ISO-6 cleanrooms, and RGA systems for products up to 2x2x1 meter.



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Precision Parts

The Precision Parts department manufactures complex high accuracy metal parts for application in many crucial functions in high tech equipment. When precision manufacturing becomes challenging, we outperform.



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Sigasi

Sigasi allows FPGA and ASIC designers to achieve their full potential. Their chips create life-saving devices, power new technologies, and digitize our medical, telecom, automotive, defense, and aerospace worlds in revolutionary ways. And it all starts with the powerful Integrated Development Environment (IDE) Sigasi provides.

Sigasi assists design engineers in writing RTL with a mix of VHDL, Verilog, and SystemVerilog, giving them everything from basic editing (eg. block selection, syntax highlights) to advanced features like autocomplete, code navigation, and linting. Most importantly, Sigasi gives hardware designers real-time feedback.

Moreover, Sigasi integrates with existing workflows. This includes CI/CD checking, allowing teams to safeguard entire code repositories, which is particularly valuable for ASIC design and optimizing hand-off to verification teams.



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SMART Photonics

SMART Photonics plays a critical role in the rapidly growing photonics industry as a foundry, offering manufacturing services for indium phosphide (InP) based Photonic Integrated Circuits (PIC's). We cover the whole manufacturing process, ranging from epitaxial growth, to lithography as well as the back-end chip finishing. We own and further develop several Process Design Kits (PDK's) that customers can utilize to create their chip designs, thereby benefiting from our experience in processing the building blocks that are part of these PDK's.

Photonic chips (PIC's) are proving to be the best choice in addressing major societal problems, ranging from next generation, low power data centers to a variety of sensor applications such as autonomous driving, medical diagnostics and infrastructure monitoring. Integrated photonics also plays an increasingly important role in ultra-secure cryptography, the aircraft industry and air quality monitoring.

With a technical heritage from Philips and the University of Eindhoven the company currently employs approximately 180 people with over 30 nationalities, under the strong leadership from a group of highly experienced industry veterans and a diverse and deep supervisory board. SMART Photonics is headquartered in Eindhoven, the Netherlands and serves a range of global companies.



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Sofics

Sofics is a foundry independent semiconductor IP provider that has supported 100+ companies worldwide with specialty on-chip ESD protection and unique I/O circuits. Fabless companies using Sofics IP can enable higher performance, higher robustness and reduce design time and cost. Our technology has been characterized on 11 foundries including advanced nodes at TSMC, UMC, GF, Samsung Foundry.

Sofics' solutions are used in more than 5000 different kinds of Integrated Circuits (IC) across various applications like Internet-of-Things, automotive, medical, datacenter, AI, wireless and even in space.

Fabless designers replace foundry I/O cells with a compatible cell from Sofics to

- Have more design flexibility for special interfaces
- Reduce parasitic capacitance by 30% or more
- Enable higher voltage tolerance
- Meet any ESD robustness level
- Reduce the total ESD area
- Reduce leakage by 100x



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Solutions on Silicon

Solutions on Silicon, is your Engineering partner for “Sustainable Production”

Refurbishment + Remanufacturing of legacy Equipment

- Supporting multiple OEM platforms
- Maintenance, trouble shooting, upgrading, training, on-site execution with flexible Field Service contracts.
- Uptime improvement programs
- Auditing, fingerprinting, decommissioning, Fab-to-Fab, transport and commissioning
- Inhouse CE-marking capabilities



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Spectricity

Spectricity is a spin-off from Imec founded in 2018. Our Mission is to enable massive adoption of spectral imaging through effortless integration of our miniaturised sensing solutions. We offer the only solution in the world to enable mass production of spectral imaging. Our Vision is to improve life, beyond what's visible, anywhere, anytime, and for everyone.

Spectricity develops, manufactures and sells spectral imagers and camera modules based on fully integrated CMOS sensors. Targeting mobile devices, the truly miniaturised sensors are enabled by a patented filter technology, the fruit of 15 years of R&D. These sensors are manufactured in a high-volume CMOS foundry which allows for mass production at a low cost.



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Swave Photonics

Swave Photonics is a fabless semiconductor company, spun-out from imec after 10+ years of research. Swave is developing Holographic eXtended Reality™ (HXR) chips to enable the world's first true holographic displays. Swave's HXR chips are a photonics breakthrough but with CMOS economics, cost effectively solving current Augmented Reality limitations and maximizing the potential of spatial computing.



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SystematIC

SystematIC facilitates innovation

SystematIC is all about innovation through microelectronic integration. Cooperation is key to achieve innovation.



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Recent SystematIC chip developments are for applications in EV, solar power, haptic, biometric, class D audio, AI, energy harvesting and security.

SystematIC designs and develops high performance Integrated Circuits for sensor and power applications. The company was founded in 1998 and is located in Delft, the Netherlands. In close cooperation with the customers SystematIC offers customer specific design, IP and IC products in the market segments industrial, automotive, medical and consumer.



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Televic Group



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Televic is a supplier of high-tech and high-quality communication systems for four niche markets: healthcare, education, the rail and the conference market. A clear vision on technological trends, a robust focus on innovation combined with 75 years of expertise has fueled the company to have a global reach and to establish itself as technological experts.

With over 30 years of experience in designing, manufacturing and maintaining on-board communication and control systems.

Televic Rail is a global leading, trusted partner for on-board passenger information systems for railway operators and train builders worldwide.

Televic Healthcare develops and manufactures high end solutions for nurse call and has a unique care communication platform.

Televic Conference manufactures innovative systems for formal meetings. Its complete range of conference solutions simplifies decision-making by improving the meeting experience. From the largest international institutions over local parliaments and city councils to boardrooms.

Televic Education provides a world class digital exam and training platform for 21st century skills, using the latest scientific insights. Questions include AI and are made for adaptive learning.

Televic employs over 1000 people worldwide and has more than 300 people in R&D.



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Tempress

Tempress' purpose is to support customers in the semiconductors, power, MEMS, photonics, solar, life sciences and coating markets to produce advanced materials and devices with high added value innovative furnace solutions.

Tempress' over 50 years of heritage in developing and producing diffusion and deposition equipment and related processes is a testament to the company's flexibility, innovation, quality and dedication.

Our portfolio contains horizontal and vertical furnace equipment ranging from small batch R&D systems up to high volume, fully automated production equipment.

Tempress' headquarters and assembly and testing facilities are located in Vaassen, The Netherlands. Customers are supported throughout the world by its highly professional direct sales & service people and commercial partner network.



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TNO High Tech Industry



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As an independent research organization, we're the driving force behind innovation. Our work makes an important contribution to resolving societal issues. Together with companies, from start-ups to multinationals, we work on innovations that define the future. We boost the competitiveness of companies and well-being in society – and we do it sustainably. TNO sets ambitious goals for the next decade in the areas of safety and security, health, digitalization, and sustainability.

Nano instrumentation for ultra-clean lithography

When tech leaders such as ASML and Carl Zeiss encounter critical contamination issues, they turn to us for support. We have a team of 50 highly qualified Nano Instrumentation technologists and scientists who develop and assemble experimental set-ups on which they carry out experimental test programs. We develop and own these set-ups, develop them together with our clients, or transfer full ownership to them. Our aim is to prevent, diagnose, and remediate critical issues. We apply the principles of contamination control to design, build, and validate ultra-clean equipment for lithography. We continue to grow our extensive knowledge of molecular and particle contamination, vacuum and flow technology, and high-energy radiation, and apply this knowledge for our clients.



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Trymax Semiconductor Equipment



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Trymax Semiconductor Equipment is an innovative plasma-based company designing, manufacturing and marketing state of the art equipment solutions for ashing, descum, surface preparation, light etching as well as UV photoresist curing and charge erase. With a product portfolio ranging from 100mm wafer size to 300mm and an installed base of >300 systems, Trymax has significant market shares at foundries, IDMs, and Wafer Level packaging houses for end applications in Power Semiconductors, RF, Analog, Automotive, MEMS, LED, and CMOS. Recognized for its reliability, low cost of ownership, and performances, Trymax continuously innovates to support its customer's needs. Trymax is headquartered in the Netherlands and operates local offices in Italy and China.



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MESA+ is the Nanotechnology research institute of the University of Twente, Enschede, the Netherlands. Using our fascination with the extremely small, we contribute to solutions for current and future societal challenges. Within the institute, three main research lines, i.e. electronics, photonics and fluidics are applied on four application areas: Health, AgriFood & Water, Security, and Energy & Sustainability.

Embracing a cross-disciplinary approach and benefiting from the MESA+ NanoLab, over 500 researchers deliver high quality, frequently ground-breaking research. MESA+ actively seeks collaboration with external partners providing an excellent setting for consortium formation. Next to our excellent scientists and facilities, we offer a strong regional ecosystem that creates the breeding ground to let ideas blossom and grow to relevant, successful solutions and businesses. Over 50 companies have been spun out of the research, and we are very much engaged in public private partnerships.

MESA+ Nanolab facilities play an important role in innovations and small scale production within the Spin-offs. Very recently a new company was founded to act as a pure play foundry, New Origin, for SiN photonic integrated circuit production.

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Xenics was established in Belgium in 2000 as a designer and manufacturer of infrared sensors, cores and cameras. As a commercial spin-off from IMEC, Xenics specializes in the development of SWIR InGaAs imaging detectors and cameras. Today, Xenics is aiming to diversify its expertise in advanced imaging through UV, SWIR imagers and LWIR range for various markets including semiconductor inspection and analysis.

Xenics, part of Exosens group, is a pioneer of infrared technology with a proven track record of more than twenty years. Xenics designs, manufactures and markets infrared imagers, cores and cameras of best-in-class image quality to support machine vision, scientific & advanced research, transportation, process monitoring, safety & security and medical applications. Xenics offers a complete portfolio of products for the UV, low light visible, vSWIR, SWIR and LWIR ranges. Mastering all critical steps of the manufacturing process with advanced production facilities and in-house know-how on detectors, systems and software development Xenics delivers state-of-the-art solutions and optimized custom designs. Xenics ensures its commitment of doing good to the world by developing solutions for enhancing quality of life and sustainability. As a European vendor with a worldwide sales and service network, Xenics supports its customers with simplified export procedures.



Partners

High Tech NL

VNO-NCW

The American Chamber of Commerce
in the Netherlands (AmCham)



High Tech NL

Share innovation. Shape tomorrow.



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High Tech NL is the national industry association for the Dutch high-tech industry that drives innovation by connecting companies and knowledge institutions with one another. We give the ecosystem a boost by encouraging both national and international collaboration.

We focus on four domains: Semiconductors, Robotics, Life Sciences and Energy. With our knowledge network, we're open to supporting even more areas in the future. In this way, we play an important role for the entire top sector of High-Tech Systems and Materials.

The association was founded in 2013 by companies from the top of the high-tech industry with the ambition of forming a powerful network. Today, 13 employees are committed to serving the 250 members and many other parties in the ecosystem. Technology is human work, so we take the lead in creating meetings and initiating projects and our people are visible and available for questions.

Our motivation? Strengthening the international competitiveness and earning capacity of the Dutch high-tech sector. The more parties that connect through us, the larger the network is for sharing knowledge and bringing together high-tech professionals. Together, we create solutions to global challenges and change the world of tomorrow.

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The Confederation of Dutch Industry and Employers, known as VNO-NCW, is the largest employers' organisation in the Netherlands. It has 150 branch organisations and more than 400 individual enterprises as affiliate members, representing a total of over 120,000 companies.

It covers practically all sectors of the Dutch economy: industry, commercial services, construction, the retail trade and the health sector; from the smallest firms to the largest corporates. It represents 80% of companies with more than ten employees and 95% of companies with over 100 employees and all companies in the Netherlands employing more than 500 staff.

In cooperation with governments and other social parties, VNO-NCW strives for an inclusive and sustainable Netherlands, where everyone benefits from increasing prosperity. This requires sustainable economic growth and a high quality business and investment environment.

VNO-NCW represents the interests of its members by active ongoing contacts with the government, politicians, public authorities, trade unions and non-governmental bodies. VNO-NCW sits on numerous government advisory and consultative committees in The Netherlands, in Brussels and in international bodies as the International Labour Organisation and, through the BIAC, in the OECD.



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The American Chamber of Commerce in the Netherlands (AmCham)

The American Chamber of Commerce in the Netherlands (AmCham) is a non-profit, non-governmental, non-political, voluntary organization of companies that invest in and trade between the United States and the Netherlands. The Netherlands is one of the most important destinations for U.S. direct investment in Europe and a major hub of American professionals living and working abroad.

Since 1961, AmCham is the main voice of U.S. business in the Netherlands and strives to improve the investment climate in the Netherlands through its advocacy work and high profile networking activities. AmCham's 350+ Members span a very broad range of industries – including (big) tech, pharma, petrochemicals, consumer goods, food & agri, finance and services, logistics, hospitality, entertainment, publishing, retail, aerospace. Together with its Members, AmCham addresses key concerns and opportunities related to the investment climate in the Netherlands.



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