



Successfully shaping challenging times

Infineon Technologies Austria
Fiscal year 2020

50 Years Infineon
in Austria

www.infineon.com/austria

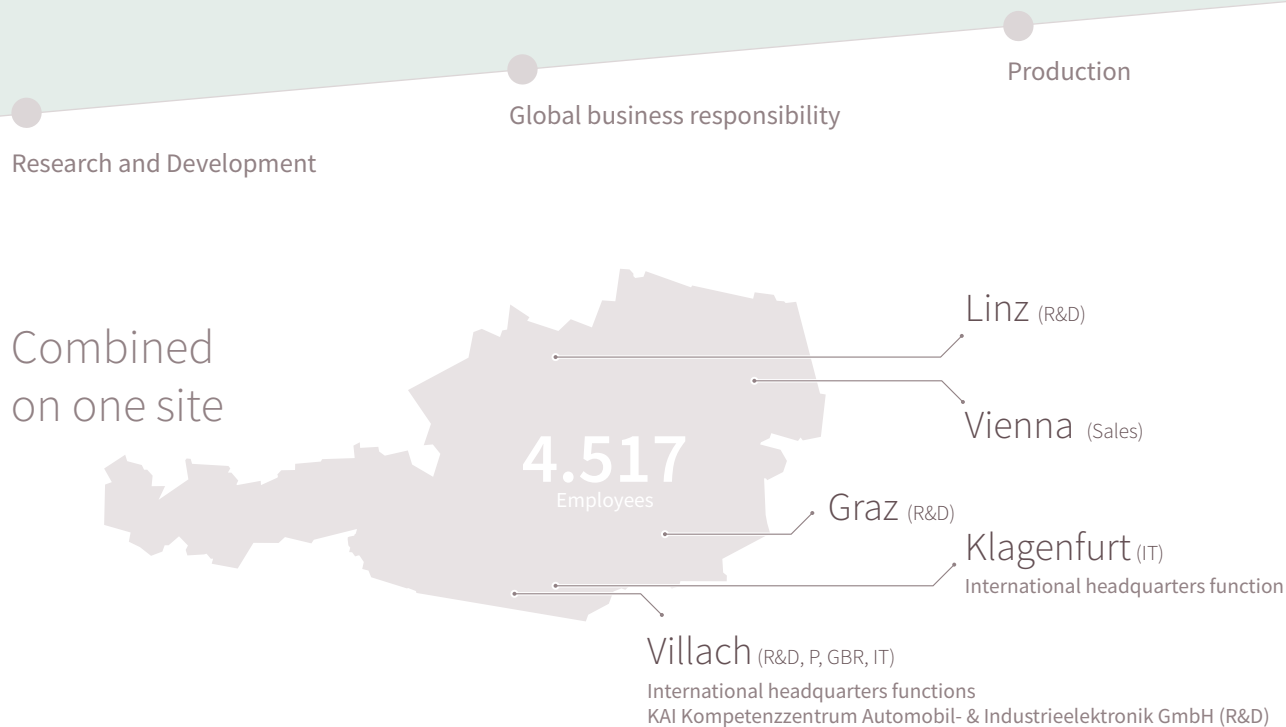


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We would like to thank all our employees who contributed to this annual brochure.



R&D Research and development
IT Information technology
GBR Global business responsibility
P Production

Infineon Technologies Romania SCS (R&D)

Infineon Technologies (Kulim) Sdn Bhd, Malaysia (P)

50 Years Infineon in Austria



Find out more about
the history of Infineon Austria.



From an extended workbench to a global player on the semiconductor market

1970

- › Siemens diode production is launched in Villach

1972

- › Construction of production plants on the current Villach site

1979

- › Construction of development center for microelectronics in Villach
- › Start of chip production on 4-inch (100-mm) wafers

1984

- › Start of chip production on 5-inch (120-mm) wafers

1987

- › Expansion of development center in Villach

1998

- › Construction of development center in Graz

1997

- › Villach becomes global competence center for power electronics
- › Start of chip production on 6-inch (150-mm) wafers



Scan the QR code to
learn more about
Infineon Austria

1999

- › Siemens semiconductor division becomes Infineon Technologies
- › Joint venture between DICE Development Center and Johannes Kepler University in Linz

2000

- › Infineon Group goes public
- › Start of chip production on 8-inch (200-mm) wafers

2003

- › Partial transfer of headquarters for industrial electronics to Villach

2004

- › Establishment of IT services in Klagenfurt

2006

- › Launch of competence center for automotive and industrial electronics (KAI)
- › Opening of development center in Bucharest, Romania
- › Opening of front-end factory in Kulim, Malaysia

2012

- › Expansion of production and new R&D building in Villach

2013

- › Start of chip production on 12-inch (300-mm) thin wafers

2015

- › Building complex for research, development and production with Industry 4.0 pilot area erected in Villach

The company

Welcome to the big world of very small things

Infineon Technologies Austria AG is a subsidiary of Infineon Technologies AG. The group is a world leader in semiconductor solutions that make life easier, safer and greener. The Austrian head office is in Villach, with further branches in Graz, Klagenfurt, Linz and Vienna.

Infineon Austria pools competencies for research and development, production and global business responsibility. Our employees from 70 countries have established Infineon as a leading company in Austria. As the country's most research-focused company, Infineon Austria has been a pioneer for the digital revolution.

Part of your life. Part of tomorrow.

Digital transformation is changing our world. A wealth of innovative products and services is impacting almost all areas of life. Infineon microelectronics are making a significant contribution to a better future. Our chips connect the real and the digital world: They enable intelligent mobility, efficient energy management and a secure collection and transmission of data.

Whether they are in your car, your smartphone, your fridge, your debit card and your passport, or in computer centers, robots and industrial equipment – you can find expertise from Infineon Austria in many everyday applications.

2016

- › Expansion of global business responsibility after integration of International Rectifier

2017

- › Global competence center for silicon-carbide (SiC) semiconductors in Villach

2018

- › Investment decision to construct a new, fully automated 300-millimeter chip factory in Villach
- › Decision to expand the R&D locations in Villach, Graz and Linz by an additional 860 R&D workplaces

2019

- › Infineon acquires 100% of DICE Development Center, Linz

2020

- › Completion of a new R&D building for 600 R&D workplaces in Villach
- › Expansion of the R&D location Graz with room for 290 additional R&D workplaces
- › Relocation to the new building at the R&D location in Linz with space for a total of 400 R&D workplaces. Name changed to Infineon Technologies Linz GmbH & Co KG

50 Years Infineon
in Austria

Infineon at a glance

Revenue

€3,108.7
million

Earnings before tax

€196.2
million

R&D expenditure

€498
million

Infineon Technologies AG		
Revenue	€8,567 million	+7 %
Employees throughout the group	46,700	
Infineon Technologies Austria Group		
Revenue	€3,108.7 million	
Earnings before tax	€196.2 million	-36%*
Total investments	€386.1 million	+25%*
Total employees	4,517	-2 %*
Proportion of women overall	18.4%	
Employees in R&D	1,960	
Employees in product and process development and quality assurance	537	
Additional permanent external employees via third companies	approx. 2,100	
Degree candidates and doctoral students	185	
Apprentices	79	
Interns and vacation/industrial placements	1,041	
Research and Development		
R&D expenditure	€498 million	-5%*
R&D expenditure as a percentage of sales	16%	
Initial patent applications	191	
Production		
Products (basic types)	approx. 1,800	
Production volume	8.45 billion chips	
Audits and customer visits	8	

*compared to the 2018/19 fiscal year

**aggregated values fiscal year 2019/20, as of Wednesday, September 30, 2020, including domestic shareholdings

The company

The fiscal year 2020

Despite the challenges posed by COVID-19 and the resulting difficult market environment, the Infineon Technologies Austria Group was able to achieve stable earnings in the past fiscal year 2020 (accounting reference date: September 30, 2020).

The Austrian subsidiary of the German semiconductor group achieved a **revenue** of € 3,109 million, thereby maintaining the previous year's level in this difficult fiscal year. The **earnings before taxes** amounted to €196 million, a decrease of approximately €110 million or 36 percent compared to the previous year. The decrease in earnings was mainly due to lower capacity utilization in production. As a result of the lower demand, Infineon Austria initiated a short-time work program at the Villach production facility in May 2020. This was ended ahead of schedule on July 31, 2020. The decline in the automotive market was particularly noticeable in the first three quarters of the fiscal year 2020. On the other hand, increased digitalization had a positive effect in terms of increased demand for microelectronics. The long-term, structural growth drivers energy efficiency, security, Internet of Things and sustainable mobility remain intact and are the focus of Infineon's strategic development. However, the coronavirus pandemic, the global economic environment and the geopolitical situation remain challenging.

In the fiscal year 2020, **investments** were increased by 25 percent to €386 million. The investments were made primarily in property, plant and equipment: above all, they included investments in the new, fully automated chip factory for the production of 300-millimeter thin wafers at the Villach site, the construction of which is still proceeding according to plan. The R&D expansions in Villach, Graz and Linz were also successfully completed this year.

The Infineon group has set itself the goal of becoming **climate neutral by the year 2030**. Infineon Austria supports this goal with comprehensive measures. The 8.45 billion chips produced in Villach save around nine million tons of CO₂. With energy-saving chips made of the new semiconductor material silicon carbide, technologies from Austria provide answers to the climate crisis – for example in applications for renewable energy or electromobility. Furthermore, the hydrogen required in the production process will, in future, be produced directly in Villach from renewable energy sources and used in production.

Over the past 50 years, Infineon Austria has developed from an extended workbench to one of the most sophisticated semiconductor sites in Europe and currently **Austria's most research-focused company**. On 1 October 1970, Siemens started production of electronic components for color televisions and consumer electronics in a rented building in Villach with 24 employees. The company moved to the current site in spring of 1973. In 1999, the Siemens semiconductor division became Infineon Technologies AG.



The Board of Infineon Technologies Austria AG:

Dipl.-Ing. Dr. Sabine Herlitschka, MBA

CEO and Technology Director

Area of responsibility: Research & Development, Human Resources, Communications

Dipl.-Ing. (FH) Oliver Heinrich (right), CFO

Area of responsibility: Finance, IT, purchasing, business responsibility for product lines, Business Continuity and Compliance

Dr. Thomas Reisinger (left), Operations Director

Area of responsibility: Production, Technology, Quality Management, Infrastructure and Logistics



P2S Market Leadership with Product 2 System

The company's excellent understanding of applications supports the development of system solutions to provide the optimal benefits for customers and a strong position on the market.



Analog, Mixed Signal, Power & System Competencies

The Austrian development areas strengthen the entire Group with their specific competencies.



Innovation Leadership

A strong innovation culture facilitates the development of leading solutions for the global market.



World-Class Manufacturing Competencies

Exceptional manufacturing skills differentiate and create a clear competitive edge.



Best R&D Ecosystem

Best research and development service through the active shaping of the framework conditions and networks.



Operational Excellence

Quality, reliability and effectiveness in all processes promote continuous improvement.



People Excellence

Outstanding talents, diverse teams and an ideal environment facilitate top performances.

The company

The guideline for sustainable growth

Being internationally competitive from our location in Austria and optimally contributing to the Group's success – these are the sustainable objectives of Infineon Austria. The Strategy 2025 “SMART Growth” is the guideline for this mission. The seven coordinated target areas are based on the strengths of Infineon in Austria.

A pronounced high-performance culture

Over the years, Infineon Austria has been consistently implementing a specially defined strategy for further development at all corporate levels. Innovation, creativity and continuous striving for improvement are a living part of our day-to-day activities. For this strategy, Infineon Austria was awarded the Global Excellence Award by the European Foundation for Quality Management (EFQM) in 2018.

By 2025, Infineon Austria will...

- ... have expanded its market leadership in power electronics through business success in the digital world.
- ... be the world's leading competence center for power electronics in the areas of silicon and new semiconductor materials.
- ... embrace innovation by offering a growing, well-connected R&D and manufacturing environment.
- ... utilize digitalization for faster learning, agility and cost competitiveness.
- ... globally attract and develop the best talents.



Infineon Austria also takes into account the United Nation Sustainable Development Goals in all target areas of the Strategy 2025.

The company

Local expertise, global responsibility

Infineon Austria represents an effective combination of innovative research, high-quality production and successful marketing. The Group utilizes this expertise, and has assigned global business responsibility for 12 product lines from three divisions to its subsidiary in Austria.

Energy efficiency as a driving force

The subject of energy efficiency occupies an important position for Infineon. The goal is to provide chips and system solutions that reduce consumption throughout the entire energy cycle. From its location in Austria, the Infineon Power & Sensor Systems Division handles responsibility for the product lines Power Management ICs, High Voltage Power Conversion, Enterprise Power, Ultra-Low Voltage Switches, Medium Voltage Switches, Low Voltage Switches and Power Management Controller & Driver. Typical applications for these products are mains adapters for notebooks, smartphones and tablets. Furthermore, 50 percent of the servers around the world use Infineon power semiconductors for power conversion. These energy-saving chips are also used in wireless charging technology and battery-operated tools.

Energy efficiency meets mobility

Power semiconductors from the Chips & Discretes product lines, and Intelligent Power Modules and Gate Drivers from the Infineon Industrial Power Control division are an important part of the electronic controls of drive mechanisms. These include, for example, inverters in wind turbines and photovoltaic units, refrigerators, pumps, fans and compressors, as well as motor controls in above-ground and underground trains. The product lines High Voltage Gate Driver and Discretes & Chips from the Infineon Automotive division run the global business in electromobility subsectors such as control electronics components for electric vehicle drive mechanisms from Austria.

Recognized global player

Infineon's global market success also confirms its Austrian business activities: for years, the Group has been the global market leader in power semiconductors and is excellently positioned in important growth markets such as the United States and China.

Infineon has been the global leader in power semiconductors for over a decade.



Worldwide IT management in Klagenfurt

Infineon Technologies IT Services GmbH, headquartered in Klagenfurt's Lakeside Science & Technology Park, is another global competence center. Since 2004 it has been globally responsible for Infineon's IT infrastructure, including the design and operation of all servers, PCs and networks and the IT Service Desk: the central point of contact for all service requests. One of the key tasks of the Klagenfurt IT experts is running the worldwide computer centers for production and development at Infineon. Essential elements of the areas of production automation and enterprise applications are developed and supported here. More than 200,000 systems in the Infineon network are managed and protected from the Network Operation Center. The Cyber Defense Center was established in response to increased threats to data security.

Global business responsibility for
12 production lines within the Group

Industrial Power Control*

- Chips & Discretes
- Intelligent Power Modules
- Gate Driver

Automotive*

- High Voltage Gate Driver
- Discretes & Chips

Power & Sensor Systems*

- Power Management ICs
- High Voltage Power Conversion
- Enterprise Power
- Ultra-Low Voltage Switches
- Low Voltage Switches
- Medium Voltage Switches
- Power Management Controller & Driver

Connected Secure Systems*

*Divisions
Infineon Austria product lines



A man with a mustache, wearing a plaid shirt, is shown in profile, looking at a computer monitor. The monitor displays a grid-like pattern. The entire image is overlaid with a semi-transparent teal color. The text "50 Years Infineon in Austria" is centered over the image.

50

Years Infineon
in Austria

Market success through innovation

New ideas and new solutions are an essential basis for success for Infineon Austria as well as for Austria as a technology site. For a number of years, Infineon has been pursuing a strategy that focuses on excellent innovation management.

The right culture for innovation

Innovation requires a lively and competitive culture of ideas, involving all areas and levels equally throughout the year: employees and partners such as universities, research institutions, start-ups or the maker community. The annual innovation projects are one element that characterizes this culture. In this internal competition, Infineon finances the best project ideas for one year.

The interdisciplinary and interactive exchange of experiences and ideas is the main focus of the annual Innovation Days, which in this fiscal year were held digitally for the first time due to the coronavirus pandemic. During this event, excellent achievements are also awarded the Infineon Austria Innovation Award. More than 550 projects have been submitted so far. The results facilitate new inventions, and thus the development of new market potential. A prize for the best PhD theses is also awarded. In the last eight years, from the submissions received, more than 280 inventions have been registered.

Promoting inventiveness

Within the scope of our employee suggestion scheme, employees contribute innovative ideas for improvements. In the fiscal year 2020, the program entitled “Your Idea Pays” (YIP) delivered 1,457 suggestions for improvements, amounting to a financial value of €6.3 million.

With the annual Infineon School, the company promotes exchanges with students from all over the world. Through lectures by Infineon experts and prestigious instructors, the young scholars expand their knowledge in the field of microelectronics and get a glimpse into the world of Infineon Austria. In 2020, the Infineon School was conducted on an entirely virtual basis.

The Infineon Hub at the Vienna University of Technology has also switched to predominantly online formats. Through webinars, online lectures and other virtual events, Infineon doctoral and master’s students can continue to discuss and develop ideas with researchers, experts and lecturers. Since October 2018, the Infineon Hub has been available as a networking and working space for science, business and industry.

Connect.Creat.Challenge –
This way to the Infineon Hub!





Lively culture of ideas

1,457 suggestions for improvements realized
with a value of €6.3 million (FY 2020)

A woman with curly hair, wearing a white lab coat, is looking through a large, professional-grade microscope. The scene is set in a laboratory, with various pieces of equipment visible in the background. The entire image has a light teal overlay.

50

Years Infineon
in **Austria**

Getting to the top worldwide with effort and excellence

For the second time in a row, the business magazine “trend” in its Top 500 Ranking for 2019 named Infineon Austria as Austria’s most research-focused industrial company. In the fiscal year 2020, €498 million (this corresponds to about 16 percent of total sales) went into research and development. There are 1,960 experts working in the development centers in Villach, Graz and Linz, developing new solutions, technologies and innovations. This means that Infineon Austria employs a quarter of the R&D staff of the entire Group.

And these competencies were expanded: In May 2020, our R&D site in Linz moved to Donaufeldstraße 5. With a floor space of 9,630 m², the new, four-story building offers room for a total of 400 R&D workplaces. The new research building at the headquarters in Villach was also completed in September 2020. A total of around 600 workplaces for research and development and around 3,800 m² of state-of-the-art laboratory and measurement technology space are available on 21,000 m² and six floors. Infineon’s development center in Graz was also expanded. With a surface area of 5,700 m², the building offers room for 290 R&D workplaces, of which 880 m² are used as state-of-the-art measurement technology areas.

Shaping Austria

Local competencies and global research tasks in the areas of energy efficiency, mobility and security have been continuously expanded at Infineon Austria in recent years. The recipe for success includes short development periods, the highest quality and a focus on customer-

oriented system solutions with a “from product to system” approach. The thematic focal points include the development of power semiconductors and thin wafer technologies, as well as sensors, micromechanics, new semiconductor materials and contactless security applications. The competence center for automotive and industrial electronics (KAI) is making a significant contribution to the advance development of power semiconductors. The Infineon Austria subsidiary has been conducting research on the reliability of electronic components for 14 years, thereby supporting Infineon’s key business areas such as automotive, power and industrial electronics.

Shaping the research activities of tomorrow

Laboratory activities usually require presence on site. Especially during the coronavirus pandemic, this situation poses new challenges for research and development. In order to carry out measurements and experiments remotely to protect the researchers, the Infineon experts from Villach developed solutions to automate the laboratory work. The measuring devices at the local laboratory workstations were configured in such a way that the measurements can be initiated and evaluated remotely. In order to allow for exact repeatability of measurements on different components, even from a remote location, a compact and fully automated system was developed. This ensures a fast and extremely precise exchange of components by remote control.



The largest research facility for microelectronics in Austria



191
initial patent
applications

€498
million
R&D expenditure

1,960
employees
in R&D

16%
R&D expenditure
as a percentage
of sales

An aerial photograph of a large industrial facility, likely a semiconductor manufacturing plant, with a teal color overlay. The facility consists of several long, low-rise buildings with flat roofs and numerous windows. In the foreground, there is a large parking lot filled with many cars, mostly from the 1970s and 1980s. A road with a median runs alongside the parking lot. In the background, there are rolling hills and some trees.

50

Years Infineon
in Austria

Full power for greater energy efficiency

Power semiconductors play a key role in electronic devices. They convert mains power from the outlet to the requirements of the respective device, with the aim of minimizing energy losses that mostly take the form of waste heat. The activities in Villach focus on the development of increasingly smaller and more energy-efficient chips to be used in automotive, manufacturing and consumer electronics.

More efficient and smaller energy-saving chips

The many years of development experience in Villach are bearing fruit: Infineon is the world market leader in power semiconductors. To maintain this success, the team in Villach is already working on the next generation of chips, made of new materials such as silicon carbide (SiC) and gallium nitride (GaN). These chips can convert power much more efficiently, making units smaller and lighter. Current applications include charging stations for electric cars with significantly shorter charging times or the mobile infrastructure for 5G networks.

Smart, safe and clean vehicles

The goal in the automotive research field is to design the next generation of vehicles. Power electronics, microcontroller solutions and sensor technologies designed in Villach enable innovative applications for the cars of the future.

These include, for example, 3D magnetic sensors, which are able to measure movements in all directions. This makes them universally deployable for joystick-type applications in cars and consumer electronics. Another key area is the development of intelligent switches for the distribution of electrical power in a vehicle.

This field of application takes on a whole new dimension due to the functional safety requirements of autonomous vehicles. For example, a failure of the power supply for the camera system would have fatal consequences in the case of autonomous driving.

Analog, digital and more

Expertise at Villach contributes to the connection of the real with the digital world. Here, the focus is on the development of circuits that process digital as well as analog signals. One key aspect is the field of microcontrollers with worldwide responsibility for analog-mixed-signal know-how. In the field of power management, numerous power driver solutions have been developed for industrial applications and computer centers. Sensors for computers and consumer electronics are another area of focus. In addition to a variety of other analog-mixed-signal solutions, we have also achieved system competence for 5G base stations and advanced the development of the high-speed mobile communications network of the future.



Global competence center for power electronics since 1997

Technology from Villach can be found in:

Industrial Power Control

- Photovoltaic systems and wind parks
- Refrigerators and induction stoves

Automotive

- Comfort electronics
- Autonomous driving
- Electric power steering
- Electric and hybrid vehicles
- Charging infrastructure for electric vehicles

Power & Sensor Systems

- Wireless chargers
- LED lighting
- 5G mobile infrastructure
- Servers

Contactless, secure, mobile

Whether we are talking about the Near Field Communication (NFC) transmission standard, 3D image sensor chips or blockchain applications – the global competence center for contactless technologies in Graz is a driving force in innovations in security, mobility, and the Internet of Things.

Secure data transmission

Both contact-based and contactless security chips are designed to meet a range of standards for data transmission, with the aim of further increasing data transmission rates and finding new form factors for contactless applications. One example is the SECORA™ blockchain product for secure and convenient buyer and brand protection based on blockchain technology. The data on the blockchain can be accessed via NFC.

Little lifesavers

Contactless memory chips from the my-d™ vicinity product family are used in medical technology. Since the beginning of 2020, around 6 million chips for ventilators and laboratory diagnostics have been sold. The different memory sizes and high safety standards allow a particularly high application flexibility and ensure an optimal oxygen supply.

Analog becomes smart

In order to enable contactless payment with traditional wristwatches for the first time ever, the Swiss company Winwatch has integrated tiny, almost invisible security chips from Infineon into its patented STISS® sapphire glass. Within around 200 milliseconds – the equivalent of a human blink of an eye – the chip verifies the authenticity of the means of payment via its individual signature and creates a cryptogram from the card data, payment amount and place of payment. After successful verification, the bank confirms the payment to the reader.

Intelligent vehicles

For the automotive market, the Graz researchers have developed a variant of the 3D image sensor chip. The module is used for interior sensing, for driver monitoring and drowsiness detection as well as gesture control and uses technology that is already used in the consumer sector, for example in smartphones. Here, the knowledge of 3D image capture was successfully combined with the quality requirements of the automotive world.

Global competence center for contactless technologies since 1998
Technology from Graz can be found in:

Power & Sensor Systems

- 3D image sensor chips for Augmented Reality and Virtual Reality

Automotive

- Tire pressure sensors
- Control of automatic transmissions
- Battery management systems

Connected Secure Systems

- NFC ATM cards
- Payment and credit cards
- Smart wearables
- Electronic passports
- Security components for PCs and tablets
- Health insurance cards (e-cards)
- Blockchain tokens



Find out more about contactless payments



High-frequency development

With its development center for high-frequency components in Linz, Infineon is a pioneer in the field of radar technologies for driver assistance systems: back in 2009, the Linz team launched the world's first 77 GHz radar chip using silicon-germanium technology. These radar sensors are used in driver assistance systems such as pedestrian recognition, distance warnings and automatic emergency braking, making driving safer and more comfortable.

With far more than 100 million 77 GHz radar chips sold, Infineon is the technology and world market leader in this segment. Nowadays, this security technology is in widespread use: radar sensors are part of the standard equipment of every new car in the mid-range segment. The highly integrated sensors from Linz are an essential prerequisite for partially automated driving and pave the way for future autonomous driving.

Innovation through cooperation

The development center in Linz was established in 1999 as a spin-off from the Johannes Kepler University and is now an integral part of the Infineon family as Infineon Technologies Linz GmbH & Co KG. Since its foundation, the site, with around 180 employees from 28 countries, has grown to become a global competence center for high-frequency technologies within the Infineon Group, with world-leading expertise in radar chips for driver assistance systems.

Another key area of development for the team in Linz includes high-frequency components for mobile telephony and navigation applications, such as aerial switches and amplifiers. With the help of these, end devices can achieve very high data rates, even under unfavorable reception conditions. This area of focus also includes the development of front-end modules for receiving antennas for the next generation of 5G base stations.

Technology from Linz can be found in:

Automotive

- Radar chips for driver assistance systems
- Distance warning systems
- Automatic emergency braking
- Autonomous vehicles

Power & Sensor Systems

- Smartphones & tablets
- Reception modules for 5G base stations



50 Years Infineon
in Austria

Good alone, better together

Partnerships and research networks are an essential success factor in strengthening a knowledge-based industrial location in the face of global competition. Therefore, Infineon Austria cooperates with leading research establishments and is involved in many strategically relevant collaborations on a national and international level. For years, the company has had a leading involvement in EU research initiatives for the further strengthening of Europe's leading role in the development and manufacture of innovative microelectronics.

Pioneering research projects

For example, the European research project UltimateGaN (Research for GaN technologies, devices and applications to address the challenges of the future GaN roadmap), launched in 2019, focuses on converting electricity much more efficiently than in the past, in order to save energy and minimize the CO₂ footprint. The aim of iDev40 (Integrated Development 4.0), one of the largest Industry 4.0 projects in Europe, is to automate highly complex processes with artificial intelligence methods and to further develop jobs of the future. As part of the European project PIEDMONS (Portable Ion Entangling Devices for Mobile-Oriented Next-generation Semiconductor-technologies), Infineon Austria is conducting research together with the University of Innsbruck, ETH Zurich and Interactive Fully Electrical Vehicles SRL on concrete solutions for

the commercial use of quantum computers. With new innovations in design and manufacturing, affordable components for quantum computers are being developed. The vision: to further miniaturize quantum computers and ultimately even make them mobile.

Advancing cutting-edge research together

Networking and creating shared competencies in micro-electronic and nanoelectronic systems – this is what Infineon is pursuing with collaborations in Austria. These include partnerships with local research facilities such as the AIT – Austrian Institute of Technology, Joanneum Research and the industrial and innovation policy and investment program Silicon Austria Labs.

Infineon is also involved in nationwide platforms such as ECSEL (Electronic Components and Systems for European Leadership Austria), the Industrie 4.0 Österreich organization, and the Silicon Alps Clusters in Carinthia and Styria.

Sabine Herlitschka, CEO of Infineon Austria, is also chairperson of the ECSEL Joint Undertaking (JU). The program operated by the European Union and 29 member states aims to strengthen the global innovation and competitiveness of European electronic components and systems.

139 research collaborations



Scan the QR code to learn more about the European research project PIEDMONS!





Qualitätsführerschaft als
entscheidender Wettbewerbsvorteil

Infineon

Unser Weg

*"We do what we promise
That's quality made by Infineon"*

Unser Anspruch

„Zero Defect“ bei unseren Zusagen zu:

- » Funktionalität
- » Zuverlässigkeit
- » Zeit
- » Menge & Kosten

Unsere Basis

Internationale Standards

2019 08 08

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25

University of
Innsbruck:
Power
electronics

Technical
University Graz:
Data
Science

Technical University Graz:
Fully-automated
driving

Partnerships with “teaching value”

In view of the accelerated digital transformation, the promotion and exchange of knowledge and know-how are crucial factors. In order to provide the best possible conditions for the education and further training of young talents in scientific and technical disciplines in Austria, Infineon Austria maintains partnerships with universities.

Knowledge and technology transfer

For example, Infineon is actively involved in a total of six endowed professorships at the University of Innsbruck, the Technical Universities in Vienna and Graz, and at the Alpen-Adria University in Klagenfurt. Infineon also supports the “Digitalization and Artificial Intelligence” (KI4LIFE) Innovation Center at the University of Klagenfurt, which was founded by Fraunhofer Austria in October 2019, in order to advance these priorities in collaboration with business representatives, companies and research institutions in Carinthia. Infineon has established the joint research laboratory

Emerging Applications Lab at the Management Center Innsbruck, and with its expertise it supports the new master's degree program “System Test Engineering” at the FH JOANNEUM in Graz. Since July 2020, Infineon Austria CEO Sabine Herlitschka has also been the Chairwoman of the Supervisory Board of Carinthia University of Applied Sciences.

Doctoral theses: success through excellence

Doctoral theses are another important contribution when it comes to the cooperation between universities, research facilities and industry. Infineon Austria provides students with a clearly defined and diverse roadmap for their doctoral theses within the scope of a three-year PhD Excellence Program. The PhD Initiative is a vibrant community and profits from a range of activities, allowing participants to network within Infineon, learn from each other and discuss ideas with top-ranking specialists in the field of semiconductors. Infineon funded and supported approximately 78 doctoral theses within the scope of the PhD Program in 2020.

Infineon Austria supports
6 endowed professorships

Technical University
Vienna: Human-
centered
cyber-
physical
production
and assembly systems

University of
Klagenfurt
and Technical
University Graz:
Industry 4.0
adaptive and connected
production systems

University of Klagenfurt:
Sustainable
energy
management

A photograph of two men in an office setting, leaning over a large table covered with architectural blueprints. The man on the left is wearing a light-colored shirt and has a beard, while the man on the right is wearing a striped shirt. They are both focused on the plans, with the man on the right holding a pen. The background shows office equipment like a printer and a computer monitor. The entire image has a light green tint.

50 Years Infineon
in Austria

Our success is down to our people

Excellent employees are the foundation of Infineon Austria. They contribute significantly to the company's success with their motivation, flexibility and technical expertise and shape the culture in the locations throughout Austria.

Actively shaping conditions

This makes it all the more essential for Infineon to offer an attractive working environment. The company therefore actively shapes the internal and external framework conditions with different initiatives and measures. These include flexible working-time models, teleworking options, bilingual childcare facilities and a comprehensive health promotion program. Infineon supports its employees in reconciling their careers with their families and creating a healthy work-life balance, offering, among other things, family care periods, such as the "Dad month", or training and education in the context of educational leaves, part-time work, or sabbaticals. This is also reflected in the Randstad Employer Brand Research 2020 study. For the third time in a row, Infineon Austria is ranked among the Top 10 of Austria's most attractive employers in the overall ranking.

Systematic support

Infineon develops and implements many initiatives to develop a management culture in line with the times, promote education and further training, inspire young talents to take an interest in technology, and systematically release the potential of diversity for the achievement of corporate success.

The company's educational initiatives are aimed at all ages – from childcare to universities, Infineon actively arouses interest in science, technology, engineering, and mathematics (STEM).



Welcome2Villach

As part of the regional cooperation between industry and tourism, Infineon has co-founded the platform Welcome2Villach.at. The goal is to increase awareness of Villach's attractiveness as a business location with a high quality of life, especially for international specialists.



Taking the right steps

“Leadership Excellence” is another cornerstone of Infineon Austria’s global success. Comprehensive management skills are needed in order to achieve the demanding strategic and operational goals. Eight specifically defined leadership principles offer guidance in leadership issues.

Dialogs and feedback

Regular dialog between managers and their employees is at the heart of the Leadership Excellence program. STEPS (Steps to Employees’ Personal Success) is a staff development instrument for goal and career planning that supports such dialog as well as mutual feedback as an essential element of management culture. Its agile approach ensures that feedback can be gathered and targets adjusted throughout the entire fiscal year. The management discussion is an instrument for managers to reflect on their management style together with their team and to define areas for improvement.

Continuous development

The most important basis for promoting the development of management skills is Infineon’s global “Leadership Excellence” program.

In a systematically structured format across all levels of the organization, this prepares new managers for their management responsibilities and also assists experienced managers in fulfilling their duties. The “Leadership Excellence” program is offered in several stages, depending on the respective leadership responsibility. For other career paths, such as project managers, “Leading Essentials” programs are offered. Their contents enable staff to lead from their respective roles and responsibilities.

Talent for the future

Customized trainee programs offer attractive entry options for top graduates. Through job rotation, systematic network-building, training measures, regular feedback loops and the exchange of knowledge, young talents are prepared to take over demanding end functions. Infineon Austria has launched the Junior Talent Program (JTP) to give young talents the opportunity to develop their personal strengths as well as their personal knowledge in the semiconductor business. The 18-month trainee program is aimed at university graduates in technical and scientific fields. The program encourages their individual strengths, develops their social and methodological skills and expands their networks.



Embodying diversity together

Infineon strives to recruit people with outstanding qualifications for the company and retain them in the long term – regardless of their age, gender, origin or skin color. The “Financial Times Diversity Leaders 2021” award proves that the company is successful in this endeavor. In the survey conducted by the Financial Times and statista, Infineon was ranked second out of a total of 850 companies in 16 European countries for its commitment to promoting “Diversity & Inclusion”. Employers were assessed in the disciplines of age diversity, gender diversity, inclusion, LGBT+ and diversity in general.

Gender diversity

Infineon’s “Diversity & Inclusion” strategy is based on three pillars: a strong commitment to women in technology and management positions, internationality, and generational management. With this strategy, Infineon promotes a culture that consciously capitalizes on the benefits of diversity and in which employees can achieve their full potential. Infineon Austria employs measures such as the Women’s Day in Villach to provide interested young women studying technical subjects with an insight into the outstanding professional opportunities available in the high-tech sector.

Actively promoting integration

To help foreign workers feel at home outside of work, too, there is close cooperation with the Carinthian International Club (CIC).

This networking platform was founded by Infineon and, with its currently 36 member companies and institutions and more than 1,500 individual members from 75 countries, has been making a significant contribution to the integration of foreign employees and their families for over ten years. Infineon also supports a similar initiative, the Club International (CINT), in Graz. Every year, as part of the cross-company integration initiative “Lehre mit Asyl” (Apprenticeship with Asylum) by Carinthian companies, Infineon creates additional apprenticeships for people admitted for asylum, for which the company received the Integration Award of the State of Carinthia in 2019. Infineon is also training two apprentices with special needs in sheet metal technology.

Generation management

A particular focus is on cross-generational learning. Learning partnerships have been established especially to promote the active exchange of knowledge among all age groups. One example of this is the “Werkstatt 21”, where experienced employees support young people at the beginning of their professional careers. Conversely, the apprentices bring new ideas and modern approaches to working life. The goal of generation management measures at Infineon is to maintain health, productivity and an innovative spirit across all age groups in the long term.



around 27%
international employees

18,4% women’s share

70 nations



Combining career and family

Offering employees a working environment that promotes innovation and creativity, is particularly important at Infineon Austria. The prerequisites for this are a culture of trust, openness and flexibility on the one hand, and a good balance between career and private life on the other.

International care concepts

For this reason, Infineon has created a range of facilities and options, such as multilingual daycare centers in Villach in collaboration with the childcare organization Sonnenstrahl. With only a few days when they are closed and flexible and longer opening hours, these facilities address the needs of our employees in particular. The International Daycare Center (IDC), located close to the Infineon site in Villach, offers 120 daycare places for children aged twelve months to six years, coming from 29 different countries. The innovative educational concept with an international orientation, bilingual care and a focus on technology and science will also be continued

in the newly built daycare center in Judendorfer Strasse in Villach. This second IDC location, opened in October 2019, offers a further 70 daycare places, so that the two International Daycare Centers together provide a total of 190 daycare places.

The International School Carinthia (ISC) in Velden, a private all-day school which uses English as its main language and German as its second language, pursues similar aims. 286 children are taught there according to both the Austrian curriculum and the learning goals of the International Baccalaureate.

An audit to support the path

Just how much value Infineon Austria attaches to the reconcilability of career and family is highlighted by the “berufundfamilie” audit. This state-awarded quality seal and the regular reviews associated with it support the path that Infineon is taking.

Inspiring a passion for technology

Infineon Austria wants to inspire a passion for technology for young and old alike and uses a variety of initiatives to raise awareness for the natural sciences and associated phenomena. Since 2014, it has succeeded in reaching more than 65,000 children, teenagers and students throughout Austria in this way.

Experiencing technology

Under the guidance of Infineon experts, children at the International Day Care Center perform scientific experiments in miniLABs. There is also an annual Girls' Day, where elementary-school-aged girls can discover their talents and abilities in the technical field in a fun way. Children are also given an insight into the world of technology at the Summerkids vacation program organized by the Carinthian International Club. For more than ten years, teenagers aged 13 to 14 have been introduced to the professional world of semiconductors within the framework of the SEMI High Tech University in cooperation with the Carinthian University of Applied Sciences.

Open for young minds

Gifted students with above-average motivation and potential are taught in the Infineon high-performance class at the Lastenstraße polytechnic college in Klagenfurt, which specializes

in mechanical and electrical engineering. Over the past few years, Infineon has accompanied one school class up to their Matura (Austrian Higher School Certificate) exams, and is still in contact with many of the graduates. Currently, Infineon is overseeing the second high-performance class of HTL Lastenstraße, which as of the school year 2019/20 is in its third academic year.

Infineon also supports the "virtual class" at the Mössingerstraße polytechnic college in Klagenfurt. This class uses the latest digital teaching concepts to create spaces of opportunity for students at different levels of education. These can be used to create interdisciplinary project groups as well as expanding the students' knowledge in specific areas of interest.

In fall 2019, four Carinthian polytechnic colleges in Villach, Wolfsberg and Klagenfurt, for the first time ever, launched "Smart Learning" pilot classes. Together with the Carinthian Directorate of Education, Infineon Austria is an initiator and supporter of this groundbreaking model that prepares young talents for the digital working world. "Smart learning" means using digital technologies to learn and teach technology and combining them with analog learning experiences, such as working in teams or social interactions. The concept is designed to span a period of five years, and the six pilot classes comprise a total of 191 students. With the addition of HTL Ferlach in September 2020, the "Smart Learning" project now encompasses all polytechnic colleges in Carinthia.



Promoting talents

Digitalization and societal change require new strategies for education and training. This is why Infineon Austria is undertaking a number of measures to promote and develop talent.

Training and development

Infineon attaches great significance to training and development in all areas as a decisive factor in being competitive. Our approach is based on the 4E model, which allows for a mix of different learning styles and promotes holistic and continuous development of learning. The main focus is on the execution of technical tasks at the workplace (Experience). Knowledge is also acquired by learning in a network, as well as through feedback and conscious cooperation with colleagues (Exposure). Traditional learning and development activities (Education) constitute another important part. Using a suitable infrastructure as well as appropriate tools, such as webinars and virtual training rooms, learning on demand is made possible directly at the workplace (Environment). The varied and high-quality internal and external training and development opportunities we offer range from specialist and methodological competencies to courses on interpersonal and management skills as well as new learning formats.

New ways of learning

With the LinkedIn Learning platform, Infineon promotes new ways of learning. The platform allows employees to deepen

their knowledge with more than 15,000 learning videos and online courses and to further develop their individual skills anywhere and anytime. In addition to LinkedIn Learning, the “Digitalization of Learning” strategy was continued over the past fiscal year. The range of e-learning courses offered was expanded, new formats such as “Short Learning Nuggets” were introduced and established training courses were converted from face-to-face to virtual. This was especially true for the courses on new production systems, but also for the certified project management training.

An apprenticeship with added value

As a state-certified training company, Infineon offers young skilled workers a double apprenticeship in electrical engineering (plant and industrial engineering) and metal technology (mechanical engineering) – a vocational training course that also allows the student to acquire the Austrian high school leaving certificate (Matura). At the moment, a quarter of the apprentices are female. In order to make the apprenticeships more attractive in the future and to adapt them to the pace of digitalization, Infineon Austria is working with other well-known Austrian companies on restructuring their training programs, creating the Apprenticeship 4.0. September 2020 saw the launch of a new training format – apprenticeship and studies: dual apprenticeship in process technology/ electrical engineering (systems and operating technology) and systems engineering studies at Villach University of Applied Sciences.



More about apprenticeships
at Infineon



A background image of a semiconductor manufacturing facility, likely an Infineon factory in Austria. The image is heavily blurred and has a light teal overlay. Several workers in white cleanroom suits and masks are visible, working at various stations. The text '50 Years Infineon in Austria' is overlaid on the image.

50

Years Infineon
in Austria

Leading factory for innovative semiconductors

Power semiconductors for applications in automotive and industrial electronics are the main product in Villach. The site is considered the innovation factory of the front-end production network, with partner factories in Germany and Malaysia. This means that Villach is where the future is being created – for Infineon and for everyone.

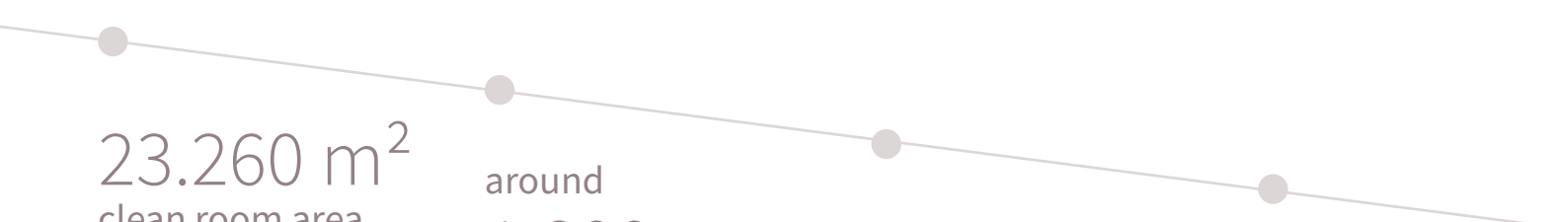
Precision work for market success

In the fiscal year 2020, 1.74 million silicon discs (called wafers) with a total of 8.45 billion microchips were produced in Villach. These electronic components are produced and tested in different technologies and complexities in approx. 1,000 production steps and with three different wafer diameters. In total, the factory produces approximately 1,800 basic product types simultaneously in the best quality, around the clock and 365 days a year. Maximum reliability and precision are required here: accuracies up to well below 100 nanometers, i.e. approximately 700 times less than the diameter of a human hair, demonstrate the Villach site's vast technological competence.

Knowledge-based production

Synergies in research, development and production at the site drive the development of new, pioneering products to production maturity. To strengthen global competitiveness, production processes and manufacturing competencies are continuously developed, most of all by employing digital technologies. This modern environment makes Infineon Austria a pioneer when it comes to smart production.

Innovation Factory Villach



23.260 m²
clean room area
up to class 1

around
1,800
product types
processed
simultaneously

approx.
1,000
individual work
steps for each wafer

around
1,500
items of
equipment



8.45 billion
chips produced
(FY 2020)

wafer diameters:
150 mm, 200 mm and
300 mm

620,000
wafer movements a day

Power 300: the success story continues

Villach's high-volume production innovations focus on the areas of single-process technology, equipment engineering, new materials, thin wafers and state-of-the-art automation, digitalization and production concepts. The optimized pooling of research, development and production as well as cross-departmental teams permit short processing times from the idea through to the finished product. The best example of this is the world's first production of power semiconductors in 300-millimeter thin wafer technology. The particularly thin energy-saving chips ensure even more efficient energy conversion in electronic systems. At the same time, mass production is made much more productive. A 300-millimeter wafer allows the production of more than twice as many chips in one production run as a 200-millimeter wafer.

After Infineon Austria had produced the first chips using this technology in late 2011, the successful qualification of a completely continuous production line and customer approval for production was achieved in 2013. The volume production of this new generation of power semiconductors for automotive applications began in Villach in mid-2015. And this success story continues.

A milestone in European industrial history

By investing around €1.6 billion in the construction of a new, fully automated chip factory for the production of 300-millimeter thin wafers at the Villach site, Infineon is laying the foundations for long-term, profitable growth in the field of power semiconductors. When completed, the new, highly-efficient factory will house a total floor area of around 60,000 m². When operating at full capacity, it is estimated to have an additional revenue potential of around €1.8 billion per year. With this, Infineon is strengthening high-tech production, creating a manufacturing infrastructure that is competitive in the long term, and setting sustainable impulses for the entire region. And on top of that: as 'One Virtual Fab', the Villach innovation factory works together with Infineon's 300-millimeter production site in Dresden to create an identical production environment at two locations. This allows for faster, more efficient and more flexible transfer of technologies and products. Production at the new chip factory in Villach is expected to start towards the end of the calendar year 2021.



Scan the QR code to follow our site expansion in real time!



Continuous improvement

Customers expect the highest quality. This is also what drives Infineon Austria. Our approach is called Zero Defects, which means not delivering a single defective component to our customers. Infineon adheres to this through continuous improvement, minimizing deviations and consistently eliminating them.

On the test bench

Every single chip goes through comprehensive inspections throughout the production process and is subsequently thoroughly tested. Continuous certification of our production in accordance with the ISO 9001:2015 quality management standard and the IATF 16949:2016 automotive standard supports us in doing this. Smart automation in production and the introduction of Advanced Process Control regulation mechanisms ensure further quality improvements.

Purity as the highest requirement

Producers of semiconductor components particularly need high-quality resources and materials as well as ultrapure

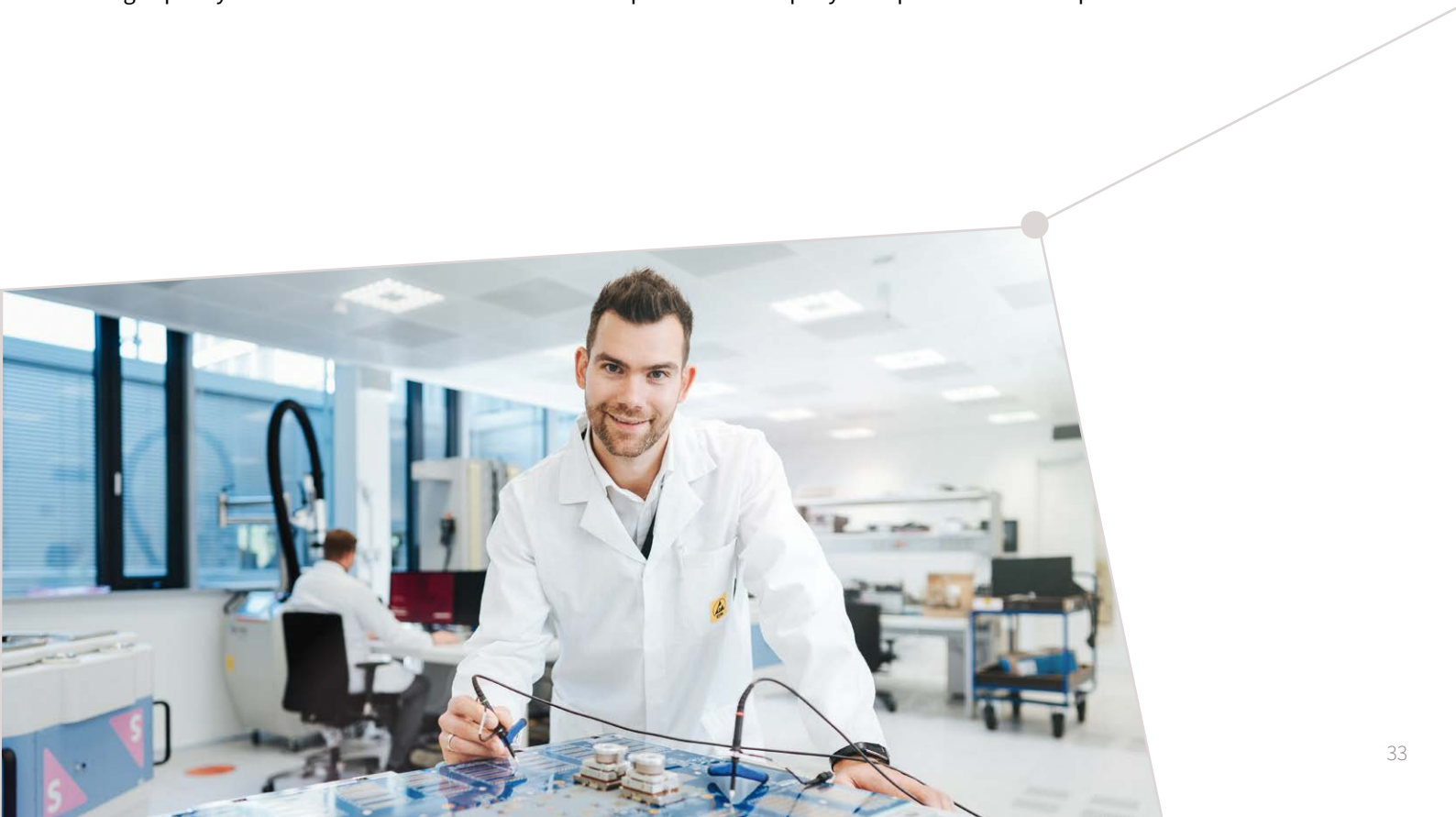
conditions in the surroundings. Villach uses clean rooms up to class 1, which means that 28 liters of air contain no more than one dust particle over 0.5 micrometers in diameter. By comparison, a hospital operating theater contains 1,000 to 10,000 particles, clean mountain air approximately 100,000 particles and normal ambient air about one million particles.

Stringent testing

In the test lab (Reliability Product Testing Center) at the Villach site, the quality components for automotive and industrial facilities are tested for reliability under the most stringent conditions. The results achieved serve as the basis for production and delivery approval, and ensure market readiness.

Excellent product quality

In 2020, Infineon was awarded the Honor Quality Award by Toyota for excellent product quality in the automotive sector. Six zero-defect years in a row meant that the company was qualified for the top-level award.



The driving force for technology leadership

The trend towards ever smaller and lighter end devices also poses a great challenge for the production of power semiconductors. Our answer to this is thin wafer technology and innovative basic materials.

The thinner, the better

Infineon Austria has expertise that is unique in the world: it produces 40-micrometer (0.04 millimeters) thin silicon wafers in high volumes. By comparison, a normal sheet of paper is around 110 micrometers (0.11 millimeters) thick.

New materials for new markets

The use of new semiconductor materials such as silicon carbide (SiC) and gallium nitride (GaN) enables particularly high-performance and fast-switching systems solutions to be produced with maximum reliability and low electricity consumption. Products from these technologies are used

in markets that are key for the future, such as solar energy and wind power, charging stations for electric cars, and mobile infrastructures for 5G networks.

The development and production activities for silicon carbide are being steadily expanded in Villach. This involves improving semiconductor process technologies, creating state-of-the-art production facilities and expanding the existing production infrastructure. This makes the Villach innovation factory the global competence center for silicon carbide and gallium nitride within the Infineon Group.

MEMS expertise

MEMS — microelectromechanical systems — are also produced in Villach. These microsystems are used every day in many areas, for example as tire pressure sensors. The further development of MEMS components will result in an expansion of Infineon's local product, technology and production skills.

Global competence center for silicon carbide (SiC) and gallium nitride (GaN) in the Infineon Group



The factory of the future

Industry 4.0, which comprises integrated and knowledge-intensive production, offers the opportunity of accelerating innovation and improving productivity and quality. Infineon Austria is implementing this as a pioneer for the digital revolution in Austria.

Faster learning

Special facilities for manufacturing semiconductors – ion implantation facilities – have been consolidated within a defined area of the Industry 4.0 pilot area in Villach. Here, various systems, such as energy consumption, intelligent product steering and mobile maintenance, are optimized incrementally and then rolled out for the remaining production. The use of sensor technology in combination with communication and data processing systems makes it possible for decisions to increasingly be taken autonomously during production.

Data for greater competitiveness

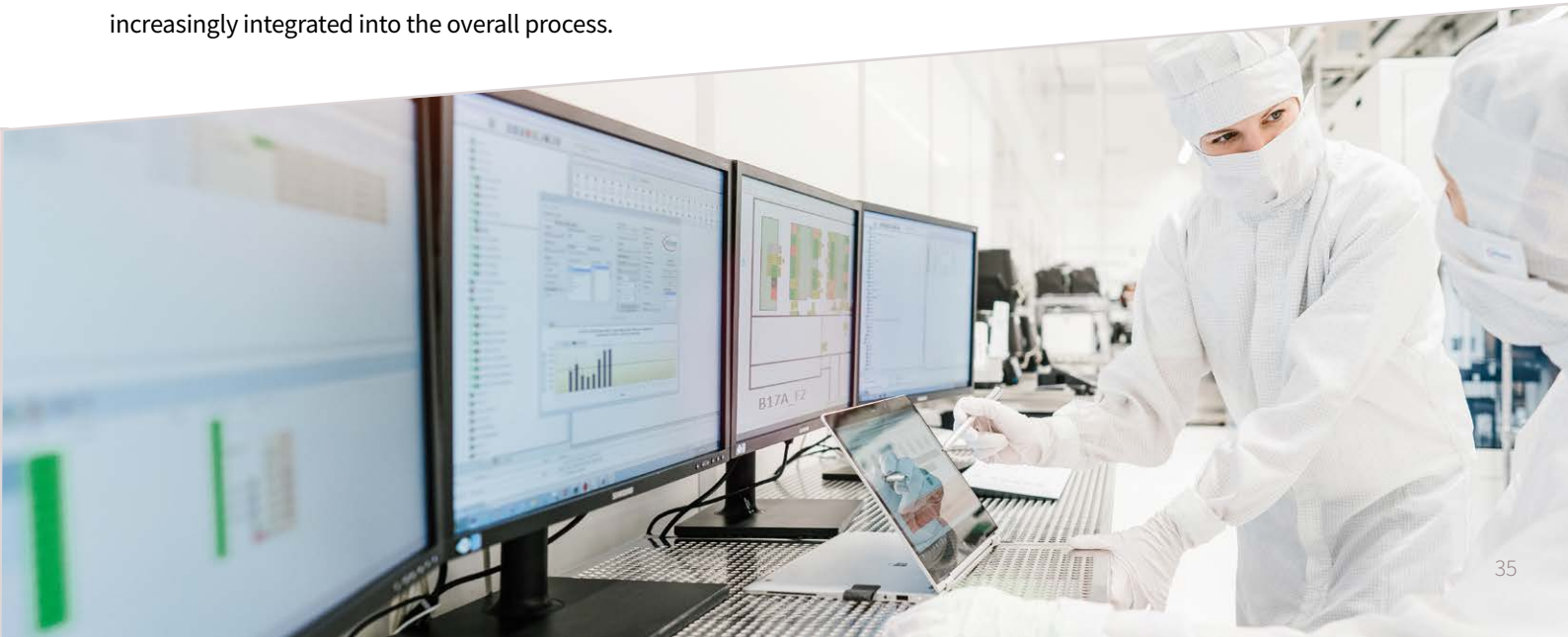
In future, the greater interlacing of development and production will enable new products or processes to be shown in dynamic simulations. The aim is to capitalize on the added value of the multitude of data generated within the company on a daily basis. These findings will be used to accelerate development processes and improve prediction accuracy and the quality of decision-making, which will in turn improve productivity. Suppliers and other sites will be increasingly integrated into the overall process.

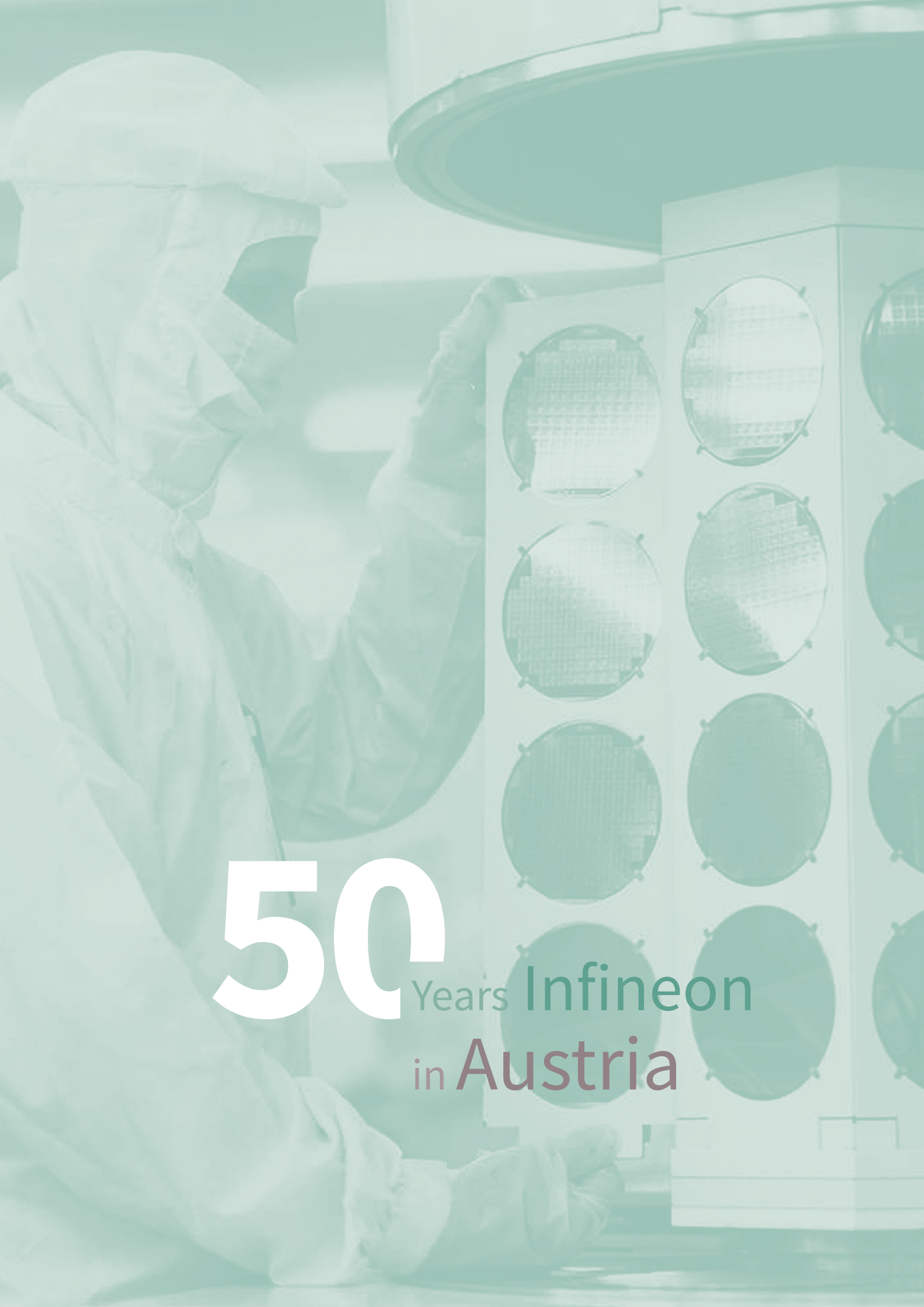
Digitalized quality assurance

This also applies to the quality assurance work steps that were digitalized and automated as part of the “SmartLab” project. With the use of uniform data systems across all locations, the processes are optimized and the process steps become easier to trace – for our customers as well. Status information on current projects can be accessed via a web platform, making prioritization more flexible and adaptable to the requirements of our customers.

Examples of the jobs of the future

Infineon Austria is carefully analyzing the changes that the digital revolution is bringing to production job descriptions. The training programs for apprentices and forepersons (“Apprenticeship 4.0”) have been redesigned, and targeted qualification measures have been introduced for existing staff. The new requirements not only change existing functions, but also create new job profiles. Data scientists analyze large data volumes and utilize the resulting information in cooperation with the relevant technical experts. Specially trained technicians monitor production in control stands and operate the systems. In the future, specially trained production logisticians will control the processes of an automated factory.



A person wearing a white cleanroom suit and mask is working with a large, circular semiconductor wafer. The wafer is mounted on a rack and is being held by the person's gloved hands. The background shows other similar wafers and cleanroom equipment. The entire image has a light green tint.

50 Years Infineon
in Austria

Our contribution to a future worth living

“Easier, safer and greener”: this is the driving aspiration behind Infineon Austria’s development and production of innovative products. This is also clearly evident both within the corporate culture itself and in all our dealings with stakeholders. In Austria, Infineon stands for being an attractive employer, one that takes on responsibility towards society and the environment and promotes environmental consciousness within the region.

Take the Green Way

With the company mobility management program “Green Way”, Infineon promotes attractive and sustainable alternatives for commuting to work. This includes the expansion and upgrading of the bike parking areas at the Villach site, as well as the promotion of carpooling. Creating traffic links to the public transport network is a top priority for Infineon. For example, the accessibility of the Villach site by bus has been steadily improved over the past few years, both within the city and with direct connections to surrounding regions. With a job ticket, Infineon offers its employees free travel to work by public transport. Since its introduction in March 2019, around 550 employees have been taking advantage of this offer.

Investment in the future

Promoting education is a key focus of our social commitment. At the beginning of 2020, the company launched the €50,000 Infineon Education Fund to support Caritas Carinthia projects for disadvantaged Carinthian children

and young people living in poverty. The main focus is on the expansion of the Caritas Lerncafés. The Infineon Education Fund made it possible to open the new Infineon Lerncafé for 30 children and teenagers in Villach in 2020. There, students between the ages of six and 16 receive free assistance with their homework. They are supervised by volunteer study guides. Infineon employees also volunteer here in their free time on site at the Infineon Lerncafé, as well as virtually via digital media during the coronavirus crisis. This initiative will be continued in the school year 2020/21: the fund has been increased to €60,000, making it possible to continue supporting the children and young people at the Infineon Lerncafé, while at the same time assisting in the expansion of further learning cafés within the region.

Health²

Health promotion multiplied by prevention equals healthy employees and the awarding of the quality seal of approval for workplace health promotion. Prevention, exercise, nutrition and mental health are promoted with the support of the Medical Service Center at the Villach site, and with a doctor as well as two nurses on hand. Support also comes from the Health Team, a workgroup made up of different departments, which focuses on the subject of health at the site. A range of fitness and health options, an internal mediator team and training courses in the areas of stress management and burnout prevention contribute to general well-being. This is supplemented by the option of external psychological counseling – anonymously and free of charge.

Voluntary commitment since 1997

- › EMAS (Eco Management and Audit Scheme of the European Union)
- › EMAS Award: 2009, 2013 and 2018
- › The first company validated according to the EMAS III Regulation in Austria
- › Committed to the 10 principles of the UN Global Compact

Infineon Integrated Management Program for Environment, Energy, Safety and Health (IMPRES) Matrix certification in accordance according to the standards:

- › ISO 14001:2015 (environmental management)
- › ISO 45001:2018 (occupational safety management)
- › ISO 50001:2018 (energy management)



For the Infineon Group, less is more

–53%
less electricity

–31%
less water

–66%
less waste

than the global average*

*The calculation is based on the square centimeters of processed wafer area in front-end production and the consumption according to the WSC definition.
The figures relate to the 2019 calendar year and front-end production.

A holistic approach to sustainability

As a global player in the semiconductor industry, energy efficiency and energy savings are essential pillars of our corporate philosophy. The Infineon Group has been listed in the Dow Jones Sustainability™ Index for eleven consecutive years, making it one of the most sustainable companies in the world. Next step: By 2030, the Infineon Group will be CO₂-neutral and thereby make an active contribution to global CO₂ reduction. In order to achieve this goal, the main objectives will be to avoid direct emissions, to further reduce the energy requirements of the plants and processes, and to offset indirect emissions by purchasing green electricity with guarantees of origin.

At the innovation factory in Villach, Infineon Austria also implements pioneering digitalization and automation methods in real-time operations which will be used and further developed in the new chip factory and contribute to greater energy efficiency. This includes energy management for on-site buildings, production facilities and supply areas. The building infrastructure and systems are equipped with sensors, automatic control devices and smart meters for the intelligent control and regulation of the facilities. This allows energy consumption to be adjusted even more precisely to the respective production capacity. The data collected in this way is used for computer models and simulations to determine further savings potential.

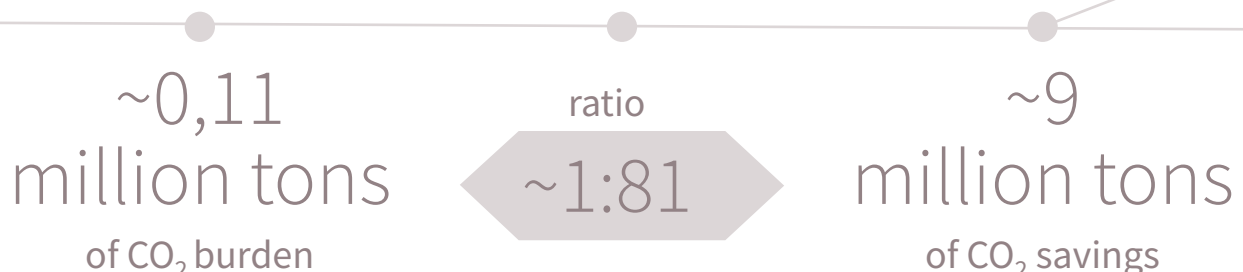
By 2030, the Infineon Group will be CO₂ neutral – Infineon Austria is contributing to this with its carbon footprint, made possible by its products and solutions.

Green hydrogen for chip production

On its way to becoming a CO₂-neutral company, Infineon has set itself the goal of using green hydrogen in chip production in Villach. With the new factory for power semiconductors in 300 millimeter thin-wafer technology, not only the production volume increases, but also the need for hydrogen. A complete switch to green hydrogen offers a sustainable solution in this regard. It is produced with the highest purity requirements by means of electrolysis using electricity from hydropower, taking into account the corresponding economic and ecological conditions on site. In a next step, the green hydrogen used in production is to be recycled and used to fuel vehicles. To implement this vision, which is unique in Europe, Infineon is collaborating with Postbus, Verbund, OMV and the provincial government of Carinthia.

Ecological value added

When designing new procedures, technologies and innovations, Infineon attaches great importance to environmental compatibility and sustainability. At present, three quarters of the site's heating needs are covered by heat recovery, which conserves energy. Infineon uses electricity produced 100 percent by hydroelectric power and other ecologically friendly energy sources. A diverse range of measures – from air conditioning in the production area to converting to LED lighting – contribute to increasing energy efficiency. This resulted in a total savings of 931 Mwh of energy (326 Mwh heat and 605 Mwh electricity) during the 2020 fiscal year.





Scan the QR code to access detailed information on environmental, safety and energy management at Infineon Austria!

Net ecological benefit:

~9
million tons
CO₂ emissions reduction

Good for the environment:
This brochure is printed on CO₂-neutral and FSC, Blue Angel and Ecolabel certified recycled paper made from 100% recovered fiber.



Outstanding achievements

2010–2020

Innovation	
Innovation Award “Austria’s Best” (ÖGVS & trend), winner electrical engineering and physics	2020
futurezone Award “5G Innovation of the Year” for the European research project “UltimateGaN”	2019
Best Joint Innovation Award, Huawei Core Supplier Convention	2018
Successful Practice Award from the University of St. Gallen, Benchmarking Digital	2018
Fraunhofer Survey: Top 5 out of 272 European companies in technology management	2017
2 Sesames Awards for first post-quantum cryptography on contactless security chip	2017
Austrian State Prize for Innovation	2013
Innovation and Research Award of the Province of Carinthia	2012, 2009
DICE – Innovation Award of the Province of Upper Austria	2010
Quality and delivery reliability	
Toyota Honor Quality Award	2020, 2019, 2018
Top Supplier Award 2019, Rohde & Schwarz	2019
Partner of the Year, Hyundai Kia Motors Company (HKMC)	2018
Supplier of the Year, Inventec Corporation	2018
Best Quality Award, Huawei Core Supplier Convention	2018
EFQM (European Foundation for Quality Management) Global Excellence Award, Winner	2018
Best Partner of Business Cooperation, Lite-On Technology Corporation	2017
Goertek “Best Partner Award” for MEMS microphones	2017
Samsung Electronics “Quality Award” for low-noise amplifiers	2017
Most efficient production operation in Austria, special award for maintenance	2015
Austrian State Prize for Company Quality	2012
Employer	
State-certified training company	2019
Integration Award for “Lehre mit Asyl”, State of Carinthia	2019
Certificate berufundfamilie audit	2019, 2016, 2013
Best employer, category “Electronics, Electrical Engineering, and Medical Devices”, ‘trend’ survey	2018
trendence Employer Branding Award, “Innovation of the Year”	2018
Career’s Best Recruiter	2017, 2016, 2013
Business Award for Integration	2010
KNEWLEDGE State Prize	2010
Trigos Carinthia Award	2010
Environmental protection, health and sustainability	
GreenTech Award “Future made in Austria” (ÖGVS), winner of the special award for climate protection technologies	2020
VCÖ Mobility Award, 1st place for Carinthia and Austria	2018
EMAS Award	2018, 2013
Seal of Quality in Corporate Health Promotion	2018, 2016, 2012
Smoke-Free Company, Carinthia	2016
Trigos Carinthia Award	2012
Other Awards	
Sabine Herlitschka, Ring of Honour of the City of Villach	2020
Golden Apple Award for BEST Winter Course “Smart Tech: The Force Awakens” at Infineon in Graz	2020
Investment Award, Region Europe, Annual Investment Meeting Dubai	2019
Nomination Austrian State Prize for PR, category winner “Internal PR & Employer Branding”	2018
Export Prize awarded by the Austrian Federal Economic Chamber, “Industry”	2018
Sabine Herlitschka, Die Presse Austrian of the Year, “Companies with Responsibility”	2018
Thomas Reisinger, Best Manager, ÖPWZ Forum KVP & Innovation	2018
HERMES.Business.Prize, category “International Companies”	2017
EVA B2B Event Award, 3rd place in Employee Events for “Infineon Family Day”	2017
Sabine Herlitschka, Manager of the Year, Carinthia	2016
Global Player Award of the Austrian Economic Chamber, Foreign Trade Austria	2015

Our vision

We are the link between the
real and the digital world.

Our values

We commit
We partner
We innovate
We perform

Our mission

We make life
easier, safer
and greener.

Part of your life. Part of tomorrow.

A world leader in semiconductor solutions



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9500 Villach, Austria

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