# Our Company

## Vision

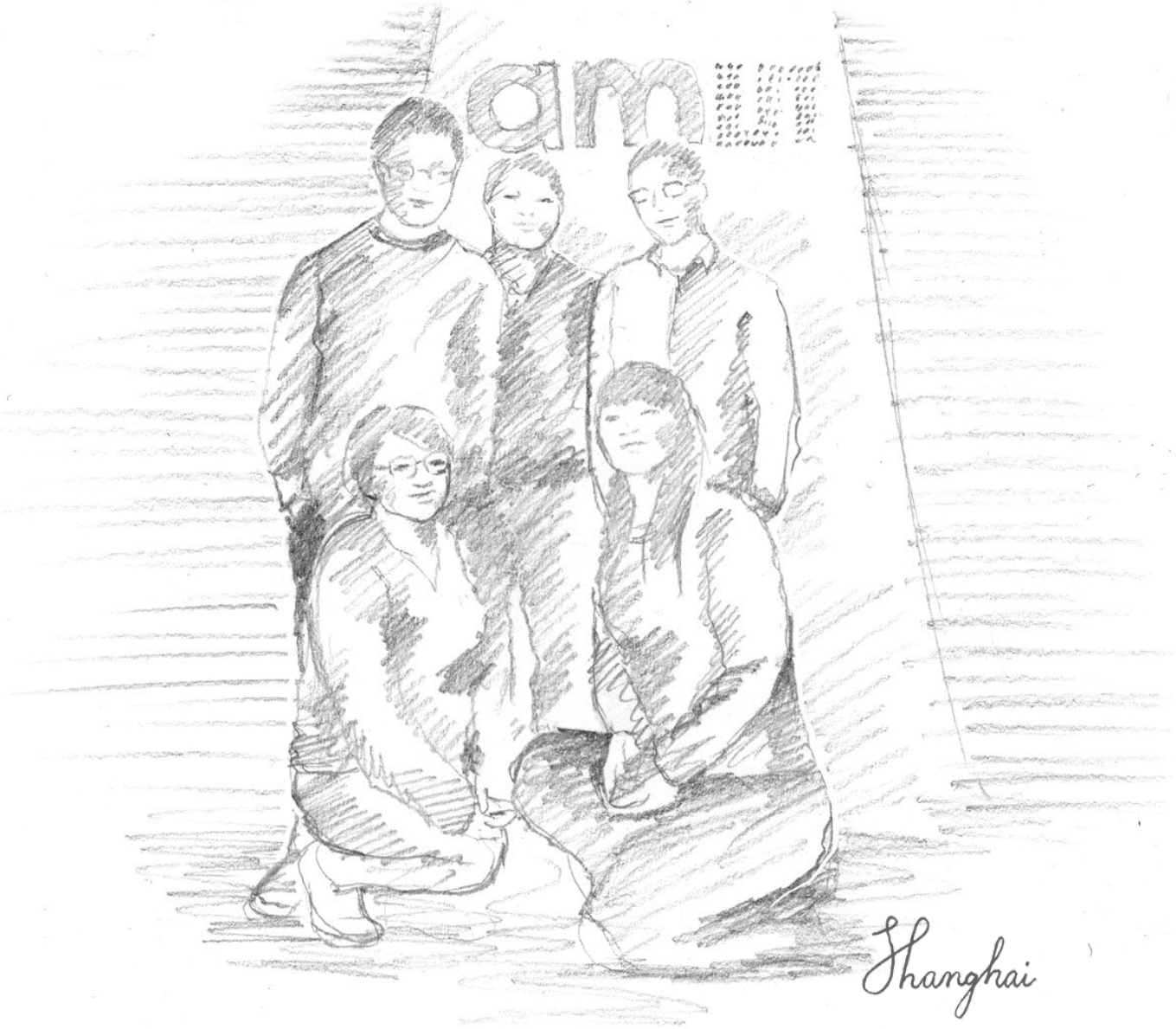
With its world-class sensor solutions, ams leads the way in forging continuous connections between people and technology, and envisioning life where the experience between them is seamless.

Our passion is in creating the sensor solutions that make devices and technology smarter, safer, easier to use and more environmentally friendly.

## Strategy

People today are consistently exposed to and surrounded by sensors in their personal mobile devices, in wearables, in smart homes, offices, vehicles and more. Sensor capabilities and functionality are evolving rapidly, making our smartphones more intuitive and intelligent, our vehicles safer, and our living and work spaces smarter. Sensors also enable breakthrough imaging and other capabilities for industrial and medical applications. ams is leading the way with sensor solutions that are relied upon around the globe to recognize light, color, gestures, images, sound, gases, and motion; increase precision, safety, and battery life; and measure miniscule changes in position, environmental and medical parameters. Sensors are at the heart of many advanced consumer, communications, automotive, industrial, and medical applications.

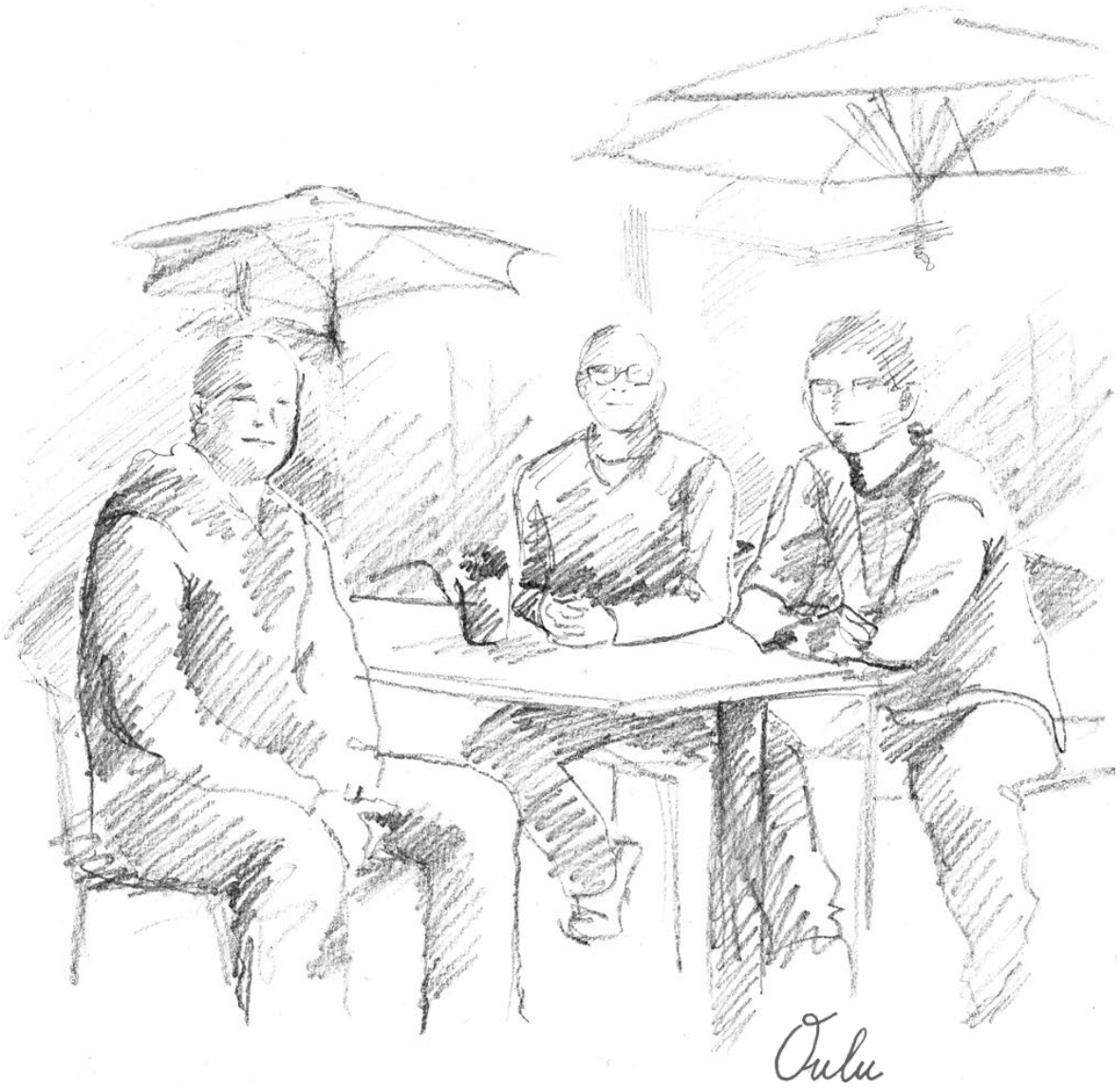
ams is shaping the world with high-performance sensor solutions. We are a global leader in the design and manufacture of advanced sensor solutions, and these solutions enable our customers to create differentiated products that are changing our lives. When applications require extreme precision, dynamic range, sensitivity, and ultra-low power consumption, we excel. We offer sensors including optical sensors, sensor interfaces, wireless and power management integrated circuits (ICs) for the consumer, mobile communications, automotive, industrial, and medical markets.


Shanghai

# Our Talent

The ams culture recognizes the company's workforce as its greatest asset and the key driver of ams' global success. We embrace a diverse range of highly creative, innovative, and unconventional thinkers, helping us attract and retain the best and brightest talent in the industry. Across ams the commitment and effort of every staff member contributes to our achievements in a competitive worldwide marketplace.

The creativity and ingenuity of our research and development teams keep us at the leading edge of semiconductor technology, design, and manufacturing. ams' capacity for innovation and success also stems from its global mindset: our staff of more than 2,100 people worldwide represents nearly 40 nationalities in more than 20 countries.


Oulu

# Corporate Responsibility

At ams, ethical, professional practices and environmental responsibility are fundamental principles that guide how we conduct business. Our company code of conduct is a binding set of principles and procedures for all ams staff safeguarding consistent, responsible, and accountable corporate activity across all business functions. We are a member of the UN Global Compact, the world's largest corporate initiative for responsible business and sustainability. With more than 10,000 participants in 130 countries, the UN Global Compact is committed to human rights, just labor standards, environmental protection, and anti-corruption measures.

We remain firm in our commitment of protecting the environment and the sustainability of resources, and continue to focus on reducing our carbon emissions footprint. ams promotes efficient energy use throughout its global operations, where innovative methods for reducing electricity and gas consumption bring about both environmental and cost benefits. We also publish information on our emissions footprint within the framework of the Carbon Disclosure Project, an international initiative for corporate disclosure of environmental information. ams remains an industry pioneer in environmental certification and is DIN EN ISO 14001 certified for its locations in Premstätten, Austria, and Calamba, Philippines.


Tokyo

# Our Business

ams focuses on providing advanced sensor solutions for high-value and emerging markets in:

Consumer & Communications
Automotive, Industrial, Medical

## Consumer & Communications

As a global leader in high-performance sensor and integrated circuit designs, ams is at the forefront of innovation and understands the evolving demands of the consumer electronics and communications markets – the need for creating a seamless connection between people and technology, continuously improving the user experience, and making the interaction with devices richer and more intuitive. ams solutions excel in delivering extreme accuracy, dynamic range, sensitivity, and ultra-low power consumption, all of which extend the ability to seamlessly interact with mobile and communications devices.

Our broad range of technologies for consumer and communications device manufacturers includes intelligent light sensors, gesture sensors, audio solutions such as Active Noise Cancelling (ANC), NFC solutions, environmental sensors, power management functions, and more.

We remain the clear market leader in intelligent light sensors, focused around consumer and communications applications. Our gesture-recognition sensor modules ship in high volumes to leading smartphone OEMs and offer another example of how ams is simplifying the human-machine interface. The sensor module combines gesture sensing with RGB color sensing, proximity sensing, and universal remote control support in a compact form factor. The ams family of gesture sensors uses our leading photodiode technology to enable an intuitive and touchless interface for many devices.

ams' other lines of ambient light sensors, including RGB color and proximity sensors, are the backbone of its consumer business and support a broad range of applications requiring sophisticated display management. Ambient light and proximity sensors, which today are in use in hundreds of millions of smartphones, tablets, laptop computers and other communications devices, deliver a better overall user experience along with extended battery life.

ams recognizes significant opportunities in new and existing markets for advanced uses of its light sensor technology, including spectral sensing. Spectral sensing enables innovative spectral analysis of light for applications such as true color sensing biosensors for critical health data, smart industrial and home lighting, and the Internet of Things (IoT). ams launched a first-generation biosensor last year and expects to advance functionality in upcoming product generations.

Near-field communication (NFC) remains an important technology in ams' wireless activities, which also encompass a strong position in RFID reader solutions. ams offers boostedNFC™ solutions including a combined analog front-end with antenna auto-tuning to ensure reliable NFC mobile transactions for small form factors. Last year ams was successful in shipping high volumes of boostedNFC™ products into smartphones and wearable accessories and concluded a licensing agreement for its technology.

Internet-connected environmental sensors replicate and enhance human responses by monitoring air quality, humidity, and temperature in IoT devices. Our sensors measure ambient concentrations of gases associated with bad air quality, such as alcohols, organic acids, and aromatic hydrocarbons. ams' integrated environmental sensor delivers accurate and robust information for data-driven decisions.

Refining the audio quality in mobile communications is another strength for ams, and we address market needs with our advanced active noise-cancellation solutions (ANC) and MEMS microphone interfaces. Today, ams is the clear market leader for MEMS microphone interfaces supporting high-quality applications in a dynamic market environment. ANC technology from ams offers excellent sound quality for mobile communications and multimedia applications by enabling crystal clear sound, regardless of the noise levels from the surrounding environment. ams' ANC technology and low-noise MEMS microphone ICs are widely found across mobile devices such as smartphones, earphones, headsets, notebook computers, and tablet PCs. In 2015, we saw increasing market traction for ANC in smartphone in-box-bundled earphones, and expect this product area to offer substantial growth potential going forward.

## Automotive, Industrial, Medical

In the industrial space, ams offers a broad range of advanced sensor solutions and application-specific ICs for applications including industrial automation, position sensing, building automation, and security. ams' industrial sensors and sensor interfaces help drive innovation to support Industry 4.0 and the Internet of Awareness™. ams launched the first generation of integrated sensor-driven lighting managers into the emerging market for true smart industrial LED lighting last year. The scope of upcoming applications for smart lighting ranges from harvesting daylight for energy-efficient illumination of indoor spaces to seamlessly adapting workspace light environments to human circadian rhythms. Harnessing the concept of the Internet of Awareness™ and the vast possibilities for connected sensors, these solutions provide for an innovative sensor hub platform enabling additional sensing functions such as presence, temperature, humidity, and air quality.

ams broadened its sensor technology portfolio substantially last year with the acquisitions of the CMOS environmental sensor business from

NXP Semiconductor and CMOSIS. The CMOS environmental sensor business added integrated temperature, pressure, and relative humidity sensors. Expanding ams' gas sensor capabilities, this full range of environmental sensor technologies enables new applications in industrial, home automation, automotive, and consumer markets, offering attractive growth opportunities in the coming years.

The acquisition of CMOSIS brought a high-value industrial and medical image sensor business to the ams portfolio. CMOSIS is active in areas including machine vision, traffic monitoring, and high-speed inspection based on high-end area- and line-scan CMOS image sensors, and offers strong IP creating new application opportunities. The acquisition also yielded the NanEye image sensor line comprising an ultra-small form factor camera module configuration under 1x1 mm in size. NanEye sensors are a strategic technology initially targeted at state-of-the-art medical endoscopy with possibilities for innovative future applications in other end markets.

In medical electronics, ongoing demand for more advanced and cost-efficient diagnostics equipment ensures the need for new sensor solutions. In the core area of medical imaging – which includes computer tomography, digital X-ray, and mammography – our high-resolution imaging solutions lead the market, creating significant diagnostic and patient benefits for higher-quality healthcare. ams is building on this strong position and its partnerships with leading medical systems OEMs that pave the way for new projects and customers. Sensor technologies from ams can improve medical patients' quality of life and enable easier and more convenient personal health management.

ams' high performance sensor solutions for the automotive market make driving safer, smarter and more environmentally friendly. Intelligent magnetic, capacitive, and inductive sensors from ams feature industry-leading robustness for highest reliability. Our sensors are ideally suited for automotive applications including pedal and throttle position, transmission, steering wheel angle and torque, brushless motor control applications, and level and chassis control.

Sensors also play a pivotal role in the realization of safety systems supporting the move toward autonomous driving. ams continues to be successful in the area of LIDAR light-based solutions for advanced driver assistance systems (ADAS). ams powers safety systems for collision avoidance and automatic braking and, in addition, enables efficient energy management solutions for vehicles. With the strength of its sensor expertise, ams is well positioned to benefit from rising semiconductor and sensor content and new applications in vehicles over the coming years.

## Technology and Manufacturing

As a high performance sensor solutions and analog semiconductor company, ams operates its own in-house wafer manufacturing and test facilities. This capability allows ams to push the limits of analog performance in lowest noise, highest sensitivity, and maximum accuracy while assuring customers a dedicated high volume supply and highest quality standards.

ams pursues a flexible manufacturing concept combining internal and external wafer capacity, and enjoys strong relationships with major semiconductor manufacturing partners. We exploit state-of-the-art technologies for leading-edge monolithic sensor integration using a proprietary through-silicon via (TSV) process and specialty processes for high voltage, optoelectronics, and RF applications.

ams made additional significant investments at its headquarters last year and completed the two-stage project to expand capacity of its 200mm wafer fabrication facility. ams' wafer production is certified for automotive and medical IC manufacturing while ams' specialty analog foundry business offers customers a full-service approach that includes packaging and testing options.

Safeguarding its long-term manufacturing strategy, ams concluded an agreement with the State of New York (USA) last year for a new wafer fab facility at the Nano Utica site in Marcy, NY. ams will lease the fully operational wafer fab, which will be constructed to ams specifications, for a period of 20 years for a nominal amount and will incur operating expenses only on the wafers produced. ams expects meaningful cost benefits from this structure which provides for increasing wafer needs in the future.

Capable of 130nm production and more advanced future manufacturing nodes, the new wafer fab will be located in the largest technology region in the U.S. which is home to other semiconductor companies and semiconductor-focused academic institutions. In its first buildout stage, the new facility will offer capacity of at least 150,000 200mm-wafer equivalents per year with a view to future expansion up to a total buildout potential of more than 450,000 200mm-wafer equivalents per year. Construction of the wafer fab has recently started and ams expects volume production of the new facility to ramp in the first half of 2018.

This important project, together with the expanded highly efficient 200mm wafer fab in Austria, demonstrates ams' readiness to support future growth.

# Our Global Network

## Europe

**Austria**
ams headquarters
Premstaetten dc/tc/so

**Germany**
Nuremberg dc/so
Reutlingen dc/so
Stutensee dc/so

**Belgium**
Antwerp dc/so

**Finland**
Helsinki so
Oulu dc

**France**
Vincennes so

**Italy**
Corsico so
Pavia dc
Pisa dc

**Netherlands**
Eindhoven dc

**Portugal**
Funchal dc

**Slovenia**
Ljubljana dc

**Spain**
Valencia dc

**Sweden**
Sollentuna so

**Switzerland**
Rapperswil dc/so

**United Kingdom**
Stockport so

## Asia

**China**
Beijing so
Hongkong so
Shanghai so
Shenzhen so
Suzhou so

**India**
Hyderabad dc

**Japan**
Tokyo dc/so

**Korea**
Seoul so

**Philippines**
Calamba tc

**Singapore** so

**Taiwan**
Taipei so

**dc** design center
**tc** test center
**so** sales office

## North America

**USA**
Austin, TX dc
Cupertino, CA so
Plano, TX dc/so