We are creators and makers of technology

One of the world’s largest semiconductor companies

Over 50,000 employees of which 9,000+ in R&D

$16.1 billion revenues in 2022

Over 80 sales & marketing offices serving over 200,000 customers across the globe

14 main manufacturing sites

Signatory of the United Nations Global Compact (UNGC)
Member of the Responsible Business Alliance (RBA)

As of December 31, 2022
ST stands for

*life*.augmented

Everywhere microelectronics makes a positive contribution to people’s lives, ST is there.
Our value proposition for all stakeholders

For our **shareholders**
- Return value in line with our objective
- Sustainable and profitable growth

For our **customers**
- Provide differentiating enablers
- Independent, reliable & secure supply chain

For all **stakeholders**
- Committed to sustainability
- Our values: Integrity – People – Excellence
Our technology starts with you

At ST, we create technology that starts with You

- Our employees
- Our customers
- Our partners
Where you find us

Making **driving** safer, greener, and more connected

Enabling the evolution of **industry** towards smarter, safer, and more efficient factories & workplaces

Making **homes & cities** smarter, for better living, higher security, and to get more from available resources

Making everyday **things** smarter, connected, and more aware of their surroundings
Trends and markets
Our strategy stems from key long-term enablers

**Smart Mobility**
Helping car manufacturers make driving safer, greener, and more connected for everyone

**Power & Energy**
Enabling industries to increase energy efficiency everywhere and the use of renewable energy

**Internet of Things & Connectivity**
Supporting the proliferation of smart, connected IoT devices with products, solutions & ecosystems
ST provides innovative solutions to help our customers make driving safer, greener and more connected for everyone

- Increase safety for road users & driver comfort and convenience.
- Affordable, desirable electric vehicles
- Cleaner, greener Internal Combustion Engines (ICE)

Road crashes carry a high human toll and cost $500B+ every year

Electric vehicles sales* from ~10 million in 2021 to ~30 million in 2025

ICEs in over 80% of new vehicles produced 2021-2025

Sources: www.asirt.org, Strategy Analytics
* Excluding Mild Hybrid EV
ST technology and solutions enable customers to increase energy efficiency everywhere & support the use of renewable energy sources

- Rising demand for and usage of electrical energy
- Decrease carbon emissions to reduce global warming impact
- Increase use of renewable energy

Over 30% global electricity demand increase from 2020 to 2030

45% CO₂ emission reduction from 2010 to 2030 to limit warming to 1.5°C

Electrical energy from renewal sources from ~10% in 2020 to ~20% in 2030

Sources: IEA, IPCC, BP
Internet of things & Connectivity

ST provides sensors, embedded processing, connectivity, security and power management, as well tools and ecosystems.

- More than 20 Billion IoT connected devices per year by 2025
- IoT security services market over $12 billion by 2025
- Four billion cellular IoT connections by 2025

Source: ABI, Ericsson, GSMA
Our strategy
We address four end markets:

- **Automotive**
- **Industrial**
- **Personal electronics**
- **Communications equipment, computers & peripherals**
Our strategic objectives

**Automotive**
- Lead in car electrification
- Lead in car digitalization

**Industrial**
- Lead in embedded processing
- Lead in Power & Energy Management
- Lead in Sensors
- Accelerate in Analog

**Personal electronics**
- Lead in selected high-volume smartphone applications with differentiated products or custom solutions
- Leverage broad portfolio to address high-volume applications

**Communications Equipment, Computers & Peripherals**
- Address selected high-volume applications with differentiated products or custom solutions
- Leverage broad portfolio to address high-volume applications
Products and technologies
Differentiated technologies are our foundation

<table>
<thead>
<tr>
<th>MEMS</th>
<th>Smart Power: BCD (Bipolar - CMOS - Power DMOS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>for sensors &amp; micro-actuators</td>
<td></td>
</tr>
<tr>
<td>FD-SOI CMOS</td>
<td>Discrete, Power MOSFET, IGBT</td>
</tr>
<tr>
<td>FinFET through Foundry</td>
<td>Silicon Carbide, Gallium Nitride</td>
</tr>
<tr>
<td>Analog &amp; RF CMOS</td>
<td>Vertical Intelligent Power</td>
</tr>
<tr>
<td>eNVM CMOS</td>
<td></td>
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<tr>
<td>Optical sensing solutions</td>
<td></td>
</tr>
<tr>
<td>Packaging technologies</td>
<td></td>
</tr>
<tr>
<td>Leadframe – Laminate – Sensor module – wafer level</td>
<td></td>
</tr>
</tbody>
</table>
Our products and solutions enable customer innovation

- Dedicated Automotive ICs
- Analog, Industrial & Power Conversion ICs
- GP MCU & MPU, Secure MCUs, EEPROM
- Discrete & Power Transistors
- MEMS & Optical sensing solutions
- ASICs based on ST proprietary technologies
### ST product portfolio enabling strategic trends

<table>
<thead>
<tr>
<th>Dedicated Automotive ICs</th>
<th>Discrete &amp; Power Transistors</th>
<th>Analog, Industrial &amp; Power Conversion ICs</th>
<th>GP, Connected MCU, MPU Secure MCU, EEPROM</th>
<th>MEMS &amp; Optical sensing solutions</th>
<th>ASICs based on ST proprietary technologies</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPC5</td>
<td>STPOWER</td>
<td>STSPIN</td>
<td>STM32</td>
<td>iNEMO</td>
<td>RF-SOI</td>
</tr>
<tr>
<td>Stellar</td>
<td>SIC</td>
<td>VIPerPlus</td>
<td>STSECURE</td>
<td>Flight Sense</td>
<td>FD-SOI</td>
</tr>
<tr>
<td>ADAS</td>
<td>IGBT</td>
<td></td>
<td>ST25</td>
<td></td>
<td>Bi-CMOS</td>
</tr>
</tbody>
</table>

- **Smart Mobility**
- **Power & Energy**
- **Internet of Things & Connectivity**
### Dedicated automotive ICs

#### Automotive MCUs
- Scalable single- and multicore MCU solutions
- Targeting cost-sensitive to highly advanced applications
- Comprehensive development ecosystem

#### ADAS solutions
- CMOS image sensors
- Image signal processors
- Radar transceivers
- V2X communication solutions

#### Infotainment & telematics
- Makes the driving experience more fun and comfortable
- Outstanding audio fidelity and positioning accuracy in every condition
- Secure smartphone mirroring
- Safe vehicle connectivity with wide set of peripherals

#### Automotive analog & power
- Compliance with rigorous automotive requirements
- Design-ins at automotive suppliers and car makers
- Wide portfolio of analog, power and digital products
- VIPower* HSDs, LSDs & H-bridges and LED drivers
- Complete system kit solutions

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Discrete & power transistors

Diodes, rectifiers, thyristors (SCR), AC switches

- Silicon carbide (SiC) & high- and low-voltage silicon diodes
- Ultra-fast & bridge rectifiers
- Power Schottky diodes & field-effect rectifiers
- Thyristors (SCR) & Triacs
- ACS* AC switches

Transient Voltage suppressors (TVS) Integrated EMI filtering and protection ICs

- ESD protection
- EOS & lightning surge protection
- Current limiters
- IPAD* Integrated EMI and ESD protection devices
- Integrated passive devices

Key power technologies & packages for: Car electrification, power management, motor control

- Gallium Nitride (GaN) on silicon power and RF transistors
- LDMOS & DMOS RF power transistors
- Silicon-Carbide MOSFETs
- High- and low-voltage silicon power MOSFETs (STripFET*, Planar & MDMESH*)
- IGBTs. Power bipolar transistors
- ACEPACK* power modules. SLLIMM* intelligent power modules

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### Analog, industrial & power conversion ICs

#### Power management
- AC/DC & DC/DC converters
- Analog & digital controllers
- Linear voltage regulators
- LED drivers & lighting ICs
- Intelligent Power Switches
- Battery management ICs
- Voltage reference
- eFuses
- Wireless power ICs
- PoE ICs
- Photovoltaic ICs
- Rad-hard products

#### Analog products & Specific ICs
- Operational amplifiers
- Comparators
- Current sensing amplifiers
- Filtering & signal conditioning
- Interfaces & transceivers
- Reset and supervisors
- Audio ICs
- Switches
- Rad-hard products
- Medical ICs
- Smart Metering ICs

#### Motor control
- Brushed DC motor drivers
- Brushless DC motor drivers
- Stepper motor drivers
- MOSFET & IGBT gate drivers
- Galvanic isolation ICs
- GaN drives

#### Connectivity solutions
- Bluetooth® Low Energy ICs
- Sub-1 GHz transceivers, Sigfox-compatible devices
- LoRaWAN® technology
- Short-range RF transceivers
- Powerline communication ICs
- IO-Link

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# MEMS & optical sensing solutions

### Motion sensors
- Accelerometers
- e-compasses
- Gyroscopes
- iNEMO* inertial modules
- T-Plus: Motion MEMS with embedded temperature sensor

### Environmental sensors
- Pressure sensors
- Temperature sensors
- Humidity sensors
- MEMS microphones

### Micro actuators
- Actuators for printheads
- Micro mirrors & drivers
- Piezoelectric actuators
- Electrostatic actuators
- Electromagnetic actuators
- Thermal actuators

### Optical sensing solutions
- FlightSense* ToF proximity & ranging modules
- 3D FlightSense* ToF sensors
- Global shutter CMOS image sensors
- Ambient light sensors
- Custom optical solutions

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## General-purpose MCU & MPU, secure solutions & NFC

### General-purpose 32-bit MCUs & MPUs
- STM32* 32-bit general-purpose microcontrollers (MCUs) and microprocessors (MPUs)
- 1000+ compatible devices
- Arm® Cortex® cores
- Maximum integration
- Extensive ecosystem

### General-purpose 8-bit MCUs
- 8-bit general-purpose microcontrollers (MCUs)
- Dedicated series for mainstream, ultra-low-power and automotive
- Rich ecosystem

### Secure solutions
- Secure MCUs
- eSIM, eSE, NFC for mobile
- eSIM, eSE and TPM for industrial, IoT and automotive
- Secure payment solutions
- Authentication and Brand protection solutions

### NFC & Memory
- NFC / RFID Tags
- Dynamic NFC tags
- NFC / RFID Readers
- UHF Readers
- High-performance & high-endurance EEPROM

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ASICs based on ST proprietary technologies

ST offers strategic independence and product differentiation to ASIC customers through three key enablers:

- Advanced manufacturing technology platforms
- Worldwide design resources and advanced IP
- ST’s Independent Device Manufacturer supply chain

Digital ASICs

System-on-Chip designs in CMOS and FD-SOI technologies with eNVM option, as well as FinFET (through foundry)

Analog & RF ASICs

Unique expertise in GHz wireless RF and analog design using advanced technologies, such as RFSOI, BiCMOS, and millimeter wave

MEMS and imaging ASICs

Proprietary micromachining process, deep expertise in MEMS integration
Custom imaging solutions and premium foundry services

Power ASICs

A broad portfolio of differentiated technologies including BCD, VIPower*, SiC, GaN, and power MOSFET

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Manufacturing and R&D
We offer quality, flexibility, and supply security.

Countries and Cities:
- **Sweden**: Norrköping
- **France**: Crolles, Rousset, Tours, Rennes
- **Italy**: Agrate, Catania, Marcianise
- **Morocco**: Bouskoura
- **Malta**: Kirkop
- **China**: Shenzhen
- **Philippines**: Calamba
- **Malaysia**: Muar
- **Singapore**
We are drivers of your innovation

Advanced R&D centers around the world for close collaboration with operations, customers, and partners

- 9,000+ people working in R&D and product design
- ~12% of revenues invested in R&D in 2022
- ~200 active R&D partnerships
- ~19,500 active and pending patents
- ~600 new filings in 2022

Open innovation with startups in 15 Proof of Concept centers
- 70 startups engaged in our programs in 2022
Customers & sales
We are partners with our customers worldwide

Over 80 sales offices in 35 countries
We serve more than 200,000 customers

Top 10

Globally Managed Accounts

Distribution & Mass Market

Top 10 Customers* 2022
- Apple
- Bosch
- Continental
- SpaceX
- HP
- Tesla
- Huawei
- Vitesco
- Mobileye
- Samsung

Unified worldwide account management tailored to each account to provide global coverage and service

Standard process, reporting & follow-up in Sales & Marketing worldwide
Differentiated approach by type of customer

*In alphabetical order
FY 2022 Revenues

% by product group

- Automotive & Discrete Group (ADG): 37%
- Microcontrollers & Digital ICs Group (MDG): 32%
- Analog, MEMS & Sensors Group (AMS): 31%
- Others: 0.1%

% by shipment location

- Americas: 63%
- EMEA: 23%
- Asia Pacific: 14%

% by region of origin

- Americas: 41%
- Asia Pacific: 34%
- EMEA: 29%

% by customer type

- Top 10 OEMs: 43%
- Other OEMs: 24%
- Distribution: 33%
Our commitment to quality
Our quality culture is driven by a commitment to continuously improve, a prevention mindset & our STRIVE for Excellence values.

STRIVE FOR EXCELLENCE

Strength
Teamwork
Resilience
Innovation
Value
Expertise

Find out more at www.st.com/quality
Quality is a key business enabler for ST

### Our quality vision
Elevate ST quality to the highest levels, positioning it as a valuable asset for our customers

### Our quality mission
Ensure ST products meet the highest quality and reliability requirements of customers in the markets we address

### Our quality strategy
- Deploy a mindset and culture of quality
- Focus on quality performance at our customers
- Innovate for advanced quality and reliability
- Drive structured result-driven improvement programs
Read ST’s 2021-22 Quality review

An annual status of the ST Quality organization, infrastructure and initiatives that demonstrate our commitment to continually strive for excellence.
Our people
Our technology starts with our people

Manufacturing ~ 65.5%
Research & Development ~ 17.5%
Marketing & Sales, Divisional Functions, Administration & General services ~ 17%

As of December 31, 2022

Italy ~ 12,000
Mediterranean ~ 5,600
Americas ~ 800
France ~ 12,000
Asia ~ 20,000
Others ~ 1,100
Sustainability
Sustainability has been engraved in our business model and culture for 30 years

<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1987</td>
<td>Creation of ST. Business conduct &amp; ethics policy</td>
</tr>
<tr>
<td>1993</td>
<td>First environmental policy</td>
</tr>
<tr>
<td>1995</td>
<td>First environmental decalogue</td>
</tr>
<tr>
<td>1997</td>
<td>First environmental report, ISO 14001, EMAS</td>
</tr>
<tr>
<td>2000</td>
<td>Signatory of the UNGC 10 principles</td>
</tr>
<tr>
<td>2001</td>
<td>Creation of ST Foundation</td>
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<tr>
<td>2002</td>
<td>Establishment of a reforestation program</td>
</tr>
<tr>
<td>2007</td>
<td>Conflict Minerals program</td>
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<tr>
<td>2011</td>
<td>Sustainable Technology program</td>
</tr>
<tr>
<td>2012</td>
<td>ISO 50001 energy management</td>
</tr>
<tr>
<td>2014</td>
<td>5th Environment, Health &amp; Safety Decalogue</td>
</tr>
<tr>
<td>2016</td>
<td>ISO 22301 Business Continuity 1st certification</td>
</tr>
<tr>
<td>2019</td>
<td>2025 CO₂ goal achieved</td>
</tr>
<tr>
<td>2020</td>
<td>Commitment to be Carbon Neutral by 2027</td>
</tr>
<tr>
<td>2021</td>
<td>New Sustainability Charter published</td>
</tr>
<tr>
<td>2023</td>
<td>26th annual Sustainability report</td>
</tr>
</tbody>
</table>
Our approach to sustainability

**Sustainable technology**
- Designing responsible products and technologies
- Managing the lifecycle of our products in sustainable way
- Responsible minerals sourcing
- Eco-design devices - power-efficient & low-carbon

**Sustainable way**
- Ensuring people health, safety, & well-being
- Role model in labor & human rights
- Fostering diversity & inclusion
- Offering great employee experience

**Sustainable company**
- Committing to carbon neutrality
- Leading environmental management system
- Reducing water usage & addressing local scarcity risks
- Reducing waste & promoting a circular economy
- Embedding risk management
- Monitoring and developing the extended supply chain
- Promoting STEM in all our ecosystems
- Monitoring & transparently reporting our progress
Suppliers
We require our suppliers to implement the Responsible Business Alliance (RBA) standards and encourage ISO and OHSAS certifications to address ethics, social, environmental, health, and safety risks.
We participate in the Responsible Minerals Initiative.

Environment
We deploy programs to reduce our direct and indirect greenhouse gas emissions from all our operations, including Perfluorinated Compounds (PFCs), which have a very long atmospheric lifetime and high global warming potential.
We minimize the environmental, health and safety risks related to the chemicals and materials used in the manufacturing process, by basing the selection, handling, and substitution on the precautionary principles.
We are continually reducing our water footprint through reuse and recycling and all our wastewater is treated before being discharged into the environment.
We reduce, reuse, recycle or recover as much of our waste as possible, rather than sending it to incineration or landfill.

People
We ensure the health and safety of our employees through advanced management systems and certification.
We implement our Code of Conduct and the RBA standards in all our sites to mitigate our ethics and labor and human rights risks and carry out regular assessments and audits in all our production sites.

Products
Through our Sustainable Technology program we design products systematically taking into consideration the environmental impact of the device during its whole life cycle, including raw materials, transportation, manufacturing, usage and end of life.
Our Sustainable Technology program aims to develop responsible products which:
- improve our social and environmental footprint at every stage of the product life
- have the greatest positive impact on the planet and people in the end-application

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We will be carbon neutral by our 40\textsuperscript{th} anniversary

**Milestones**

- Compliance with the 1.5°C scenario by 2025 – recognized by SBTi
- Carbon neutral by 2027
- Sourcing 100% renewable energy by 2027
- Collaborative programs and partnerships for carbon neutrality throughout our ecosystems

**In 2022**

- 62% renewable energy
- 45 projects saving an additional 24GWh of energy
Sustainability reporting
26th edition

Transparency – Reliability – Comparability

- Economic, environmental and social performance
- Our long-term sustainability ambitions and goals
- Program progress
- Focus on site initiatives
- Stakeholder inclusiveness
- Aligned with international reporting standards and disclosures:
  Global Reporting Initiative (GRI)
  Sustainability Accounting Standards Board (SASB)
  Task Force on Climate-related Financial Disclosures (TCFD)
  EU taxonomy
- Content and data verified by a 3rd party

Read ST’s 2023 sustainability report: sustainabilityreports.st.com
Our technology starts with You

Find out more at www.st.com