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
- Over 80 sales & marketing offices serving over 200,000 customers across the globe
- Signatory of the United Nations Global Compact (UNGC)
- Member of the Responsible Business Alliance (RBA)

$16.1 billion revenues in 2022

14 main manufacturing sites

As of December 31, 2022
Global presence

- Research & Development
- Main Sales & marketing
- Front-end manufacturing
- Back-end manufacturing
ST stands for

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.

<table>
<thead>
<tr>
<th>Increase safety for road users &amp; driver comfort and convenience.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Affordable, desirable electric vehicles</td>
</tr>
<tr>
<td>Cleaner, greener Internal Combustion Engines (ICE)</td>
</tr>
<tr>
<td>Road crashes carry a high human toll and cost $500B+ every year</td>
</tr>
<tr>
<td>Electric vehicles sales* from ~10 million in 2021 to ~30 million in 2025</td>
</tr>
<tr>
<td>ICEs in over 80% of new vehicles produced 2021-2025</td>
</tr>
</tbody>
</table>

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

- Over 30% global electricity demand increase from 2020 to 2030
- 45% CO$_2$ 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
ST provides sensors, embedded processing, connectivity, security and power management, as well tools and ecosystems.

Cloud connected and data-enabled services

Digital security for all data

Cellular accelerating the connection of objects to the IoT

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

<table>
<thead>
<tr>
<th>Automotive</th>
<th>Industrial</th>
<th>Personal electronics</th>
<th>Communications Equipment, Computers &amp; Peripherals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead in car electrification</td>
<td>Lead in <strong>embedded processing</strong></td>
<td>Lead in <strong>selected</strong> high-volume smartphone applications with differentiated products or custom solutions</td>
<td>Address <strong>selected</strong> high-volume applications with differentiated products or custom solutions</td>
</tr>
<tr>
<td>Lead in car digitalization</td>
<td>Lead in <strong>Power &amp; Energy Management</strong></td>
<td>Lead in <strong>Sensors</strong></td>
<td>Leverage <strong>broad portfolio</strong> to address high-volume applications</td>
</tr>
<tr>
<td></td>
<td>Accelerate in <strong>Analog</strong></td>
<td></td>
<td>Leverage <strong>broad portfolio</strong> to address high-volume applications</td>
</tr>
</tbody>
</table>
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>Optical sensing solutions</td>
</tr>
</tbody>
</table>

Packaging technologies
- Leadframe
- Laminate
- Sensor module
- Wafer level
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>

**Categories:**
- 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

* registered and/or unregistered trademarks of STMicroelectronics International NV or its affiliates in the EU and/or elsewhere
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

* registered and/or unregistered trademarks of STMicroelectronics International NV or its affiliates in the EU and/or elsewhere
Analog, industrial & power conversion ICs

<table>
<thead>
<tr>
<th>Power management</th>
<th>Analog products &amp; Specific ICs</th>
<th>Connectivity solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>• AC/DC &amp; DC/DC converters</td>
<td>• Operational amplifiers</td>
<td>• Bluetooth® Low Energy ICs</td>
</tr>
<tr>
<td>• Analog &amp; digital controllers</td>
<td>• Comparators</td>
<td>• Sub-1 GHz transceivers, Sigfox-compatible devices</td>
</tr>
<tr>
<td>• Linear voltage regulators</td>
<td>• Current sensing amplifiers</td>
<td>• LoRaWAN® technology</td>
</tr>
<tr>
<td>• LED drivers &amp; lighting ICs</td>
<td>• Filtering &amp; signal conditioning</td>
<td>• Short-range RF transceivers</td>
</tr>
<tr>
<td>• Intelligent Power Switches</td>
<td>• Interfaces &amp; transceivers</td>
<td>• Powerline communication ICs</td>
</tr>
<tr>
<td>• Battery management ICs</td>
<td>• Reset and supervisors</td>
<td>• IO-Link</td>
</tr>
</tbody>
</table>

Motor control

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

Analog products & Specific ICs

- Audio ICs
- Switches
- Rad-hard products
- Medical ICs
- Smart Metering ICs

Connectivity solutions

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

* registered and/or unregistered trademarks of STMicroelectronics International NV or its affiliates in the EU and/or elsewhere
## 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

* registered and/or unregistered trademarks of STMicroelectronics International NV or its affiliates in the EU and/or elsewhere
### 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

* registered and/or unregistered trademarks of STMicroelectronics International NV or its affiliates in the EU and/or elsewhere
Manufacturing and R&D
We offer quality, flexibility, and supply security.
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
Recognized as a top global innovator

STMicroelectronics recognized as Top 100 Global Innovator 2022

STMicroelectronics recognized as one of the Top 100 Global Innovators 2023 by Clarivate
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 Customers* 2022
Apple
Bosch
Continental
HP
Huawei
Mobileye
Samsung
SpaceX
Tesla
Vitesco

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
Q2 2023 Revenues

% by product group

- Microcontrollers & Digital ICs Group (MDG) 33%
- Automotive & Discrete Group (ADG) 45%
- Analog, MEMS & Sensors Group (AMS) 22%
- Others 0.1%

% by shipment location

- Americas 55%
- EMEA 29%
- Asia Pacific 16%

% by region of origin

- Americas 34%
- Asia Pacific 32%
- EMEA 34%

% by customer type

- Top 10 OEMs 39%
- Other OEMs 25%
- Distribution 36%
- Others 0.1%
FY 2022 Revenues

% by product group
- Microcontrollers & Digital ICs Group (MDG): 32%
- Automotive & Discrete Group (ADG): 37%
- 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%
- EMEA: 30%
- Asia Pacific: 29%

% by customer type
- Top 10 OEMs: 43%
- Other OEMs: 24%
- Distribution: 33%
- Others: 0.1%
Our commitment to quality
Our quality culture is driven by a commitment to continuously improve, a prevention mindset & our STRIVE for Excellence values

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

Read ST’s 2021-22 Quality review
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
- France: ~12,000
- Asia: ~20,000
- Others: ~1,100

Atlantic ~800

People are located in:
- Italy
- Mediterranean
- Others
- Americas
- Asia
- France
Sustainability has been engraved in our business model and culture for 30 years

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

*on scope 1 & 2 and partially scope 3
## 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 eco-systems
- Monitoring & transparently reporting our progress

*on scope 1 & 2 and partially scope 3
Our business model
Management of our impact

**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

*registered and/or unregistered trademarks of STMicroelectronics International NV or its affiliates in the EU and/or elsewhere*
**Milestones**

- Compliance with the 1.5°C scenario by 2025 – recognized by SBTi
- Carbon neutral on scope 1 & 2 and partially scope 3 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
Read ST’s 2023 sustainability report: sustainabilityreports.st.com
Our technology starts with You

Find out more at www.st.com