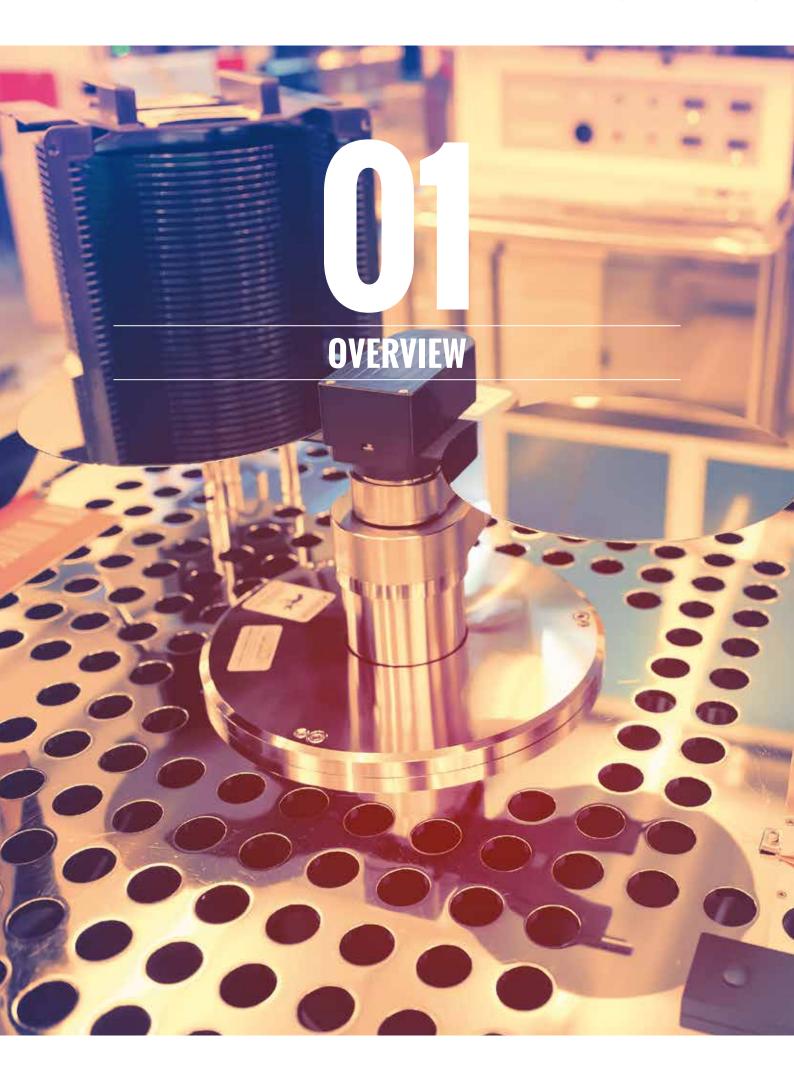
LFOUNDRY COMPANY PROFILE





LFoundry, a SMIC company, is a leading specialized foundry. From the heart of ancient Europe, with the Headquarter in Avezzano (Italy), LFoundry is focused on providing access to most advanced analogue manufacturing service with a capacity of >40,000 wafers/month, innovative technology extensions, including volume 90nm and copper manufacturing, a strong emphasis on flexibility and customer partnership. LFoundry is supporting own technology IP for 150nm and 110nm with a large portfolio of process-proven libraries, IP, design tools and reference flows. LFoundry's key focus is primarily in automotive and industrial related applications including CIS, security, smart power, embedded memory, and others.

As a SMIC Company, LFoundry can leverage skills and capabilities of one of the leading semiconductor foundries in the world and the largest and most advanced foundry in mainland China.

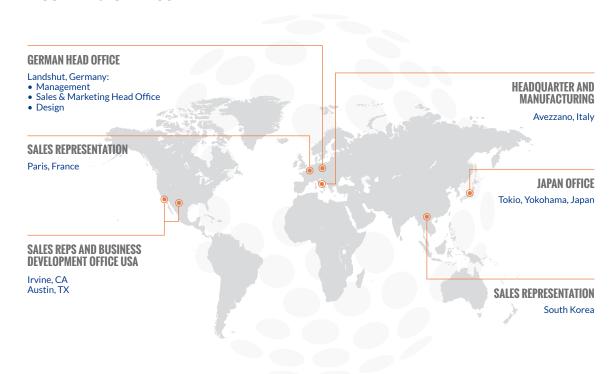
OUR PLACE

In Avezzano (AQ - Italy), LFoundry is enabling innovation worldwide. We have a continuous commitment to guaranteeing a secure environment in which our customers can realise their ideas to the highest standard, relying on LFoundry as an indispensable partner to unleash their full potential.

DEDICATED FOUNDRY AT AVEZZANO

Since 2006, the 8" Avezzano site has been manufacturing imaging process technologies and products using 180nm to 90nm technologies, including a volume copper, Back End of Line (BEOL), Back Side Illumination processes (BSI) and extensive testing capabilities. The Fab provides automotive ISO-TS16949 certification as well as OHSAS 18001 and ISO 14001.

LFOUNDRY GLOBAL FOOTPRINT



OVERVIEW — 5

OUR WORDS

These are the words we choose to name our spirit and introduce LFoundry to the world.

This is what we are, where we go, what we do and how we do it.

Put simply, this is us.

MISSION

WE CREATE INNOVATIVE SOLUTIONS TO BRING OUR CUSTOMERS' VISION TO LIFE, SHAPING STRONG PARTNERSHIPS IN A HIGHLY SECURE ENVIRONMENT

VALUES

RESILIENCE

Resilience expresses the ability to go up against significant change and come out victorious. Rooted in LFoundry's history, this value lays a strong foundation for the company to overcome the technological and circumstantial challenges of the future.

INITIATIVE

LFoundry promotes a spirit of initiative to find high-performance solutions. Driven by creativity to create value for and with its customers, making the right decisions at the right time.

FAIRNESS

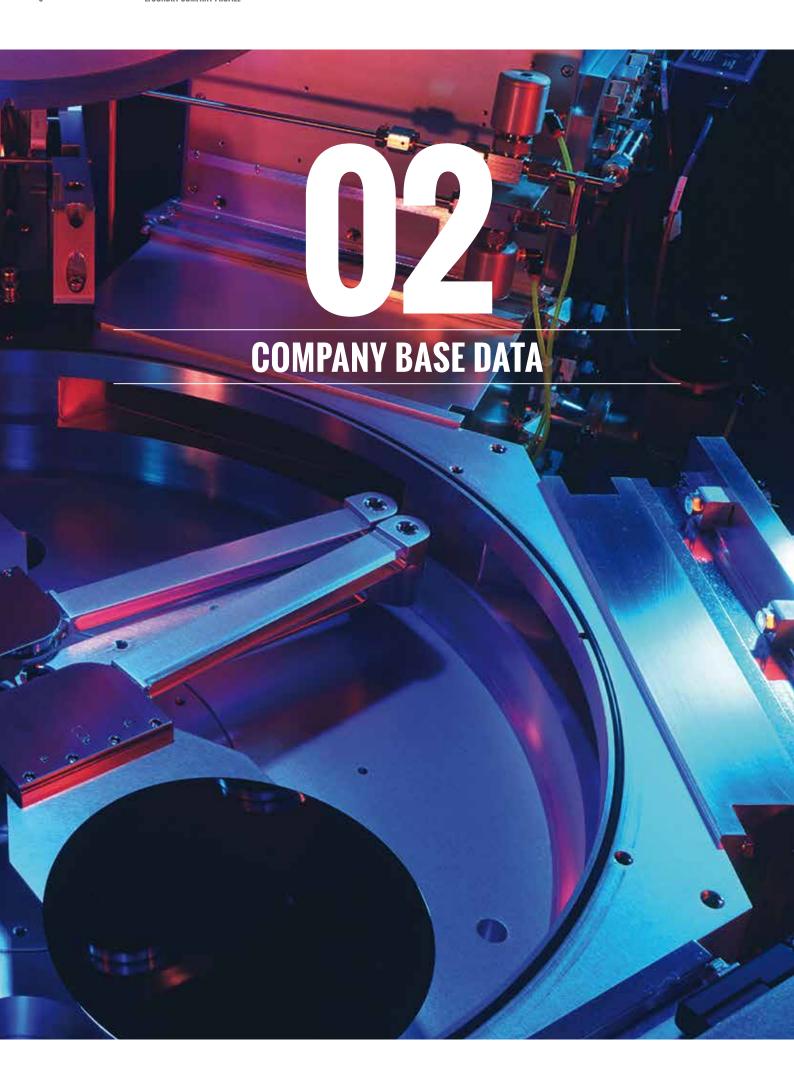
LFoundry works alongside its customers to create tailor-made solutions, establishing highly collaborative relationships founded on its dignity and integrity as a technology partner.

SECURITY

A continuous commitment to guaranteeing a secure environment in which customers can realise their ideas to the highest standard, trusting in LFoundry as a valued partner to unleash their full potential. Embodies the concept of protection, both in terms of the products themselves and the intellectual property rights associated with them.

INTERDEPENDENCE

Conveys the ideas of interdependence and cooperation, specifically in the foundry-customer interrelationship, in individual work teams and between each member of LFoundry's workforce. This value underlines the importance of the single parts of a larger system comprised of the foundry, its customers and its employees, simultaneously evoking their connection to the working process with a view to reaching a common goal.





REVENUE

MILLION \$:



CAPACITY

WAFER PER MONTH: 40.000



TECHNOLOGY TEAM

R&D ENGINEERING:

90

PROCESS & EQUIPMENT ENGINEERING:

110

DESIGN:

14

TECHNOLOGY

FAB CAPABILITY:

Smallest CD 65nm, 90nm volume production, Al and Cu metallization

AVAILABLE LOGIC PLATFORMS:

CMOS 150nm and 110nm

SPECIALIZED TECHNOLOGY SOLUTIONS:

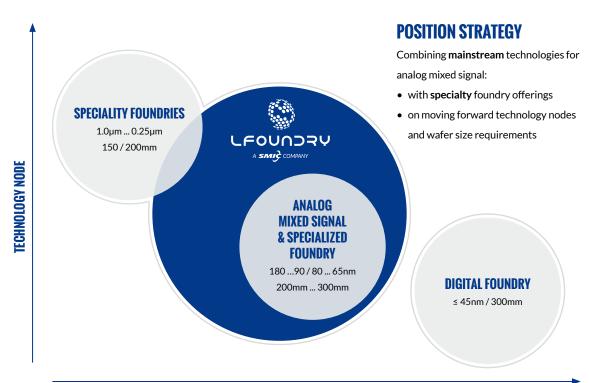
110 nm Smart Card Platform with 90nm eFlash, 110nm CMOS Image Sensor Platform Incl. BSI

SPECIALIZED SOLUTIONS ROADMAP:

110nm Touch Display, 150nm Smart Power (LDMOS), CMOS Integrated MEMS

SPECIALTIES:

Back Side illumination process, Back Side processing for thin wafer, wafer stacking



SERVICE MODEL

Innovative in technology, partnership-and supply-models in secure environment.

CUSTOMER TECHNOLOGY

Adopting customer technology and customizing foundry technology



JOINT TECHNOLOGY DEVELOPMENT

Technology development and production partnership

OPEN FOUNDRY

Design environments and wafer fabrication based on advanced analogue/mixed signals technology



JOINT TECHNOLOGY DEVELOPMENT

- Excellent network to leading institutes
- New integration e.g. for MEMS into CMOS
- Technology IP generation
- Setup of full solutions



OPEN FOUNDRY

- Flexible PDK platform (i-PDK) with accurate models
- Continuous mainstream technology enrichment with modules like Image Sensors/Pixel, Optical Sensors, High Voltage, RF devices, High density / low cost embedded memory, ...
- Specific qualifications like automotive and security



CUSTOMER TECHNOLOGY

- Special imaging technology know how and capabilities
- Engineering know how & IP for non-CMOS technologies such as Optical Sensors, Power MOS, ...

OUR VALUE PROPOSITION

- Reliable, fast and flexible customer-specific manufacturing and development partner
- $\bullet \ \ Providing \ volume \ leading-edge \ specialized \ technology \ capacity \ down \ to \ 90nm \ and \ copper \ metallization$
- · Advanced analog and mixed-signal process technologies down to 110nm including stacking capability
- CMOS Image Sensor optimized technology on 110nm and 90nm incl. Back Side Illumination
- · Special competencies and technologies for, Imaging, Smart Cards Smart Power and Touch Integrated Display Drivers



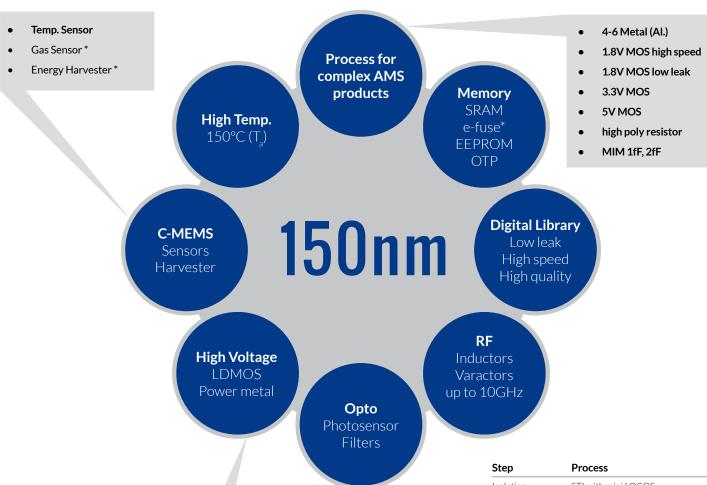
TECHNOLOGY PORTFOLIO

Designing complete systems today for the worldwide markets of tomorrow requires the correct identification, the efficient incorporation and the absolute protection of critical, reusable and fundamental intellectual property building blocks.

LFoundry demonstrates each day its flexibility. Company engineers are prepared to meet with customer counterparts to decide whether to use customer IP exclusively, import third-party IP or to integrate LFoundry IP into a system-level design.

LFOUNDRY TECHNOLOGY 150nm

0.15 µm high performance (automotive grade, radiation hard) analog, mixed-signal process for a wide field of different applications, including high voltage and various sensor (Opto, MEMS) SoC enabling technologies.



Integrated Power

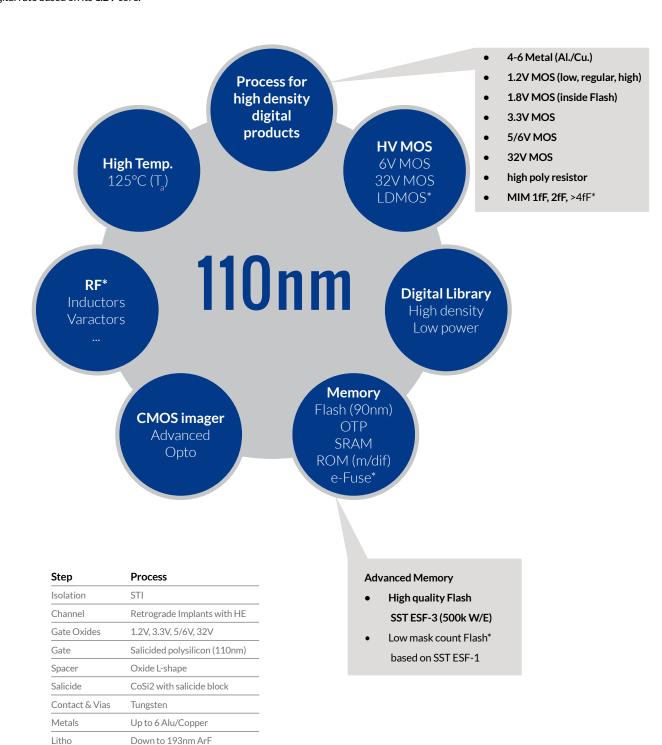
- MT power metal
- LDMOS up to 60V
 - LDMOS 2.0 & IGBT* >80V up to 800V

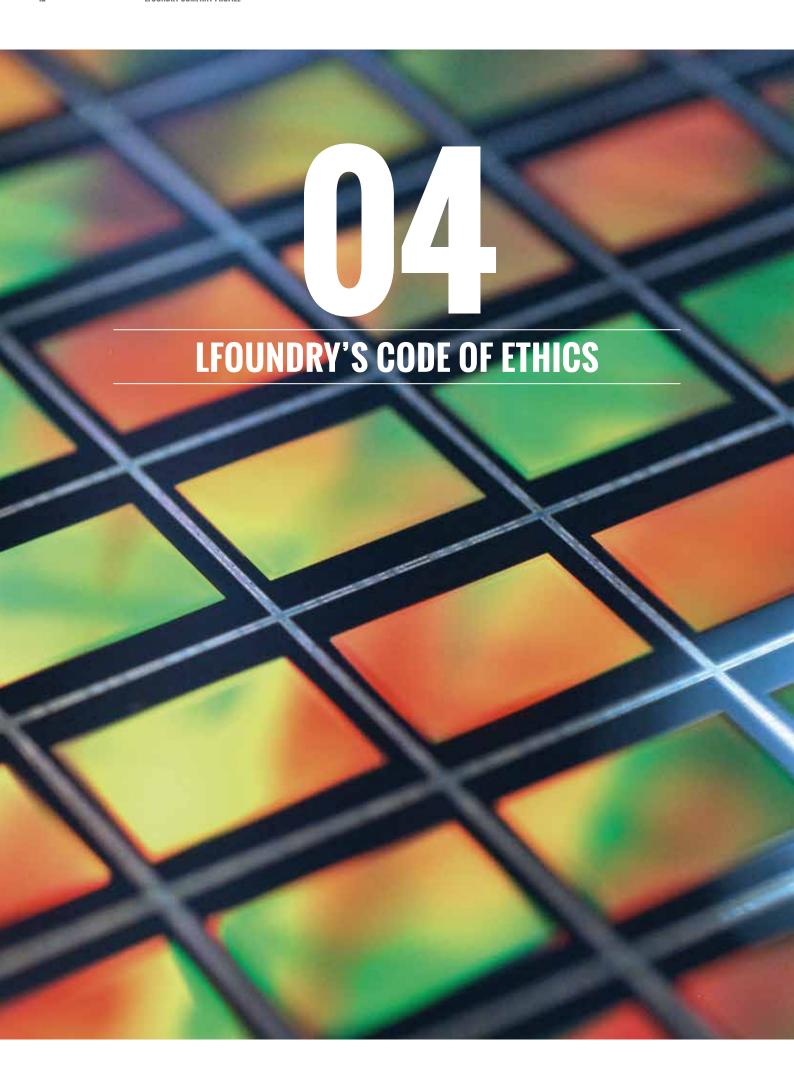
Step	Process
Isolation	STI with mini LOCOS
Channel	Retrograde Implants with HE
Gate Oxides	1.8V, 3.3V, 5.0V
Gate	Salicided polysilicon (150nm)
Spacer	Oxide
Salicide	CoSi2 with salicide block
Contact & Vias	Tungsten
Metals	Up to 6 Aluminium + MT (Inductors)
Passivation	Polymide

TECHNOLOGY — 11

LFOUNDRY TECHNOLOGY 110nm

The focus of the $0,11\mu m$ technology is in the low power and high speed area for analog, mixed-signal products with higher digital rate based on its 1.2V core.





LFOUNDRY'S CODE OF ETHICS — 13

LFOUNDRY'S CODE OF ETHICS

ETHICAL PRINCIPLES ARE CRUCIAL DRIVERS ON OUR PATH TOWARD A SUSTAINABLE FUTURE.

The Code of Ethics represents an unavoidable management tool for ethical conduct in business affairs, together with the rules and agreements in force in the countries where LFoundry is operating, both directly and indirectly, or through its subsidiaries and / or affiliates. The Code is also an effective element of corporate strategy and organization and is an integral part of the Organisational, Management and Control Model pursuant to Legislative Decree no. 231/01 (hereinafter the "Model").

The ethical principles inspiring LFoundry, and from which its models of conduct derive, in order to effectively and fairly compete in the market, improve the satisfaction of its customers, increase the value and develop people's skills and the professional growth are following:

- compliance with the laws
- ethics, fairness, professionalism
- impartiality
- people's honesty
- transparency and completeness of the information

All people at LFoundry, without any distinction and exception, undertake therefore to observe and enforce these principles, as part of their duties and responsibilities. This commitment requires that the persons, with whom the company is in relationship for whatever reason, act towards it according to the rules and methods based on the same

values. In particular, the belief of acting to the benefit of the company shall not justify in any way behaviors that conflict with these principles.

In this scenario, LFoundry is responsible for:

- promoting propagation of the Code among the recipients so that they can contribute to improve its principles
- · and contents
- taking into account recipients possible suggestions and observations, in order to confirm or integrate the Code
- controlling the compliance with the Code by providing suitable information, prevention and control tools
- and procedures, and ensuring the transparency of operations and behaviors, implementing corrective actions, if necessary

The verification of compliance with the Code is performed by the Supervisory Body pursuant to Legislative Decree. 231/01 of the Company (hereinafter "OdV").

Bringing such principles and conduct to life is the essential element for the responsible growth of our company, whose aim is to be one of the best examples of business ethics at international level.

LFoundry Code of Ethics was approved by the Board of Directors of LFoundry S.r.l. on April 29, 2014.

BRINGING THE CODE THICS PRINCIPLES SIBLE GROWTH ERNATIONAL LEVEL.



CORPORATE SOCIAL RESPONSIBILITY

BFING A LEADING COMPANY MEANS BFING AN EXAMPLE TO THE WORLD WE LEAD.

HEALTH AND SAFETY

The Occupational Health and Safety (OHS) Management System, established at LFoundry according to OHSAS 18001:2007 standard is periodically assessed and recertified by a Third Party. The company's performance on these disciplines exhibits the effectiveness of preventative and protective measures we adopt to safeguards and protect employees, visitors and contractors from the occupational risks as well as those risks associated with eventual emergencies.

SECURITY

The Security Management System in LFoundry, according to intents of its security policy, is intended to "safeguard people, information, goods and business continuity, guaranteeing an environment that infuses trust to investors, suppliers and customers."

LFoundry is deeply committed in the protection of the Confidentiality, Integrity and Availability of Information, Goods, Process, Material and Product. Its aim is to reach this goal through the suitable use of technologies, methods, and trained personnel.

In order to catch and keep this goal LFoundry is involved in a Site Security Certification process, in accordance with the ISO 15408 standard.

This certification path is under control of the Italian Body for Security Certification (OCSI: Organismo di Certificazione della Sicurezza Informatica: depending from MISE (italian Ministry for Economic Development).

The plan for LFoundry is to reach an EAL5+ level certification.

In case of success this will be the first time that in Italy a company reaches such certification level.

ENVIRONMENT

The Environmental Management System established at LFoundry according to DIN ISO 14001:2004 standard is periodically assessed and recertified by a Third Party; this exhibits the effectiveness of systems and methods we adopt as well as the continuous commitment for the environment as proof of consistent compliance to regulations and achievement of significant results in reducing the use of natural resources, energy consumption, raw materials and chemicals, disposal of wastes and employees transportation.

ENERGY

Energy Management plays a key role in support of our plans to maximize profitability, strengthen our competitive position, and provide customers with the highest quality products through Best Key Methods implementation (BKM) which allow LFoundry to be a benchmark company in terms of rational use of energy, increasing the efficiency of energy production and utilization process management of the main sources of energy through a solid management of conventional and innovative activities and projects, while maintaining the conformity with law and code.

The energetic screening arranged in compliance with the guide UNI CEI 16247, LFoundry strives to:

• maximize its energy performance, reducing operating

CORPORATE SOCIAL RESPONSIBILITY —

- expenses and increase shareholder value by actively and responsibly managing energy consumption
- demonstrate commitment to our community and leadership in our industry, by reducing environmental impacts associated with energy use
- identify strategic project to achieve energy management mission

Based on the energy audit below the major activities and project accomplished during the 2015:

- site relamping of more than 30.000 sqm of parking area allow us to save more than 60% of energy saving, improve the performance and reduce the impact to the envoronmental
- free cooling based on the well water temperature
 we recovery cooling to supply fab tools and reducing
 electrical chiller usage

• compressed air system efficiency improvement

as a revamping of the system based on the replacement of 3 old compressors with 2 new high efficiency compressors allow us to save 30% of energy consumption Invested more than 400.000 euro in energy efficiency project and approved strategic investment on cogeneration revamping which will allow us to improve site energy efficiency of the 25% and reducing environmental impact of the 30%. Last but not least, started an internal program of energy efficiency with internal resources (site energy conservation team) with the object to reduce fab tool consumption.

WASTE MANAGEMENT

Waste is one of the area of focus of LFoundry environmental policy. Semiconductor realization end up with generation of large amount of hazardous and not hazardous waste which contribute to environmental pollution, other than resulting in cost for a correct disposal. In order to effectively address this environmental aspect, LFoundry actively joined SILVER project within ENIAC JU so to identify a viable industrial solution to reduce waste from Photolitography process. Results of experimentation conducted with L'Aquila University have demonstrated good possibility to degrade one of the most environmental hazardous substance (TMAH) though a specific biological purifier treatment.

WATER MANAGEMENT

Water is a key resource for semiconductor production.

A large amount of ultrapure water is needed to run
a production Fab, and same quantity is released as waste
water at the end of the production cycle. LFoundry is actively
investigating in solution to improve water usage efficiency,
so to reduce needs at facility incoming, as well as is focused
in releasing less polluted water at final discharge for the
benefit of the environment. In 2015 a small water recycle
plant was installed in the facility so to eliminate suspended
solid from polishing process (CMP) waste stream.
The plant has a nominal capacity of 5m³/h and is confirming
its effectiveness in providing a good recycled water
for industrial purposes.



WE CALL IT "QUALITY CULTURE"

LFOUNDRY'S APPROACH TO OUALITY.

The ability to bring our customers' ideas to life, the spirit of interdependence, partnership, and fairness we instill, and the attention to a global concept of security all lead to a quality culture at LFoundry that protects our customers' projects from the moment of their inception. Our competitiveness is grounded in the ability to satisfy our customers' needs, and quality is the key which enables us to facilitate their success and guarantee its continuity.

The quality of our production is underpinned by a tightly structured and highly integrated process oriented management system, designed to ensure the safe transition from a flexible and innovative habitat in developmental stages to a mindful and controlled environment during series production. A profound application of risk management and LFoundry's deployment of the best known methods of quality management are complemented by advanced, highly customised solutions for error prevention and process control to create the right environment for any project. Through our commitment to continuous improvement we ensure that the quality of our customers' products undergoes constant enhancement, plotting a detailed roadmap to zero defects with our partners.

As a consequence of this steadfast management system, LFoundry is able to fulfill our customers' most stringent requirements, even meeting the exacting standards of the automotive industry. Our quality management system has been certified in compliance with ISO TS 16949 specifications since 2009, making us the perfect partner to satisfy the standards of a wide array of challenging market segments.

The most rewarding recognition of our efforts toward global quality is the appreciation our customers voice to us regarding the tangible improvements they see in the performance and yield of their products. This builds strong

and cohesive partnerships with mutual trust, conceived in the earliest developmental stages of our collaborations and then consolidated in the management of mature products.

QUALITY POLICY

We are committed to partner with our customers to exceed their expectations.

Our competent and motivated team is engaged in providing the best innovative and reliable foundry solution, in a continuous effort to achieve zero defect and quality excellence.

KEY QUALITY ELEMENTS

PARTNER WITH OUR CUSTOMER TO EXCEED THEIR EXPECTATION

- WE STRONGLY BELIEVE THAT QUALITY EXCELLENCE
 MAY BE ACHIEVED ONLY PARTNERING WITH OUR
 CUSTOMERS.
- PARTNERSHIP STARTS SINCE THE ANALYSIS
 OF CUSTOMERS IDEA IN ORDER TO FIND THE RIGHT
 SOLUTION TO ENABLE THE ACHIEVEMENT OF THE
 MOST CHALLENGING TARGETS, TO PREVENT ISSUES
 AND TO ENHANCE FURTHER IMPROVEMENTS.
- DEVELOPMENT STAGES ARE MANAGED SIDE BY SIDE WITH OUR CUSTOMERS TO ENSURE A SAFE LAUNCH OF THE PRODUCTS AS A PREREQUISITE OF FUTURE CONSTANT DELIVERY OF QUALITY PRODUCTS.

BEST AND INNOVATIVE AND RELIABLE FOUNDRY SOLUTION

- WE BRING CUSTOMER PRODUCTS TO LIFE THANKS
 TO OUR INNOVATIVE AND RELIABLE FOUNDRY
 SOLUTIONS
- WE FOLLOW A STAGE AND GATE APPROACH
 TO INTRODUCE NEW TECHNOLOGIES AND NEW
 PRODUCTS.
- OUR PRODUCT LIFECYCLE MANAGEMENT FOLLOWS
 THE INDUSTRY STANDARD APQP (ADVANCED
 PRODUCT QUALITY PLANNING) PRINCIPLES.
 IT GUARANTEES A FAST AND RELIABLE PROCESS
 DEVELOPMENT AS WELL AS A SAFE LAUNCH IN SERIES
 PRODUCTION. THE COMPLIANCE WITH CUSTOMER
 REQUIREMENTS IS CONSTANTLY VERIFIED IN EVERY
 PROJECT PHASE.
- COMPREHENSIVE RELIABILITY PROGRAM FOR PROCESS AND TECHNOLOGY QUALIFICATION ACCORDING INTERNATIONAL STANDARDS LIKE JEDEC JP001 ARE APPLIED.

CONTINUOUS EFFORT TO ACHIEVE ZERO DEFECT

- OUR STRUCTURED APPROACH TO DEFECT AND VARIABILITY REDUCTION ENSURES CONSTANT IMPROVEMENT OF PROCESSES AND PRODUCTS.
- FEEDBACK FROM CUSTOMERS AND FROM THE FIELD

 ARE PART OF THE INPUTS TO OUR CONTINUOUS

 IMPROVEMENT AND ROADMAP TO ZERO DEFECT

QUALITY EXCELLENCE: MANAGEMENT BY PROCESS

- QUALITY EXCELLENCE AND SUPERIOR CUSTOMER
 SATISFACTION IS ENSURED THANKS TO A MANAGEMENT
 BY PROCESS OF THE WHOLE VALUE CHAIN.
 - from customer requirements to product development
 - from selection and management of suppliers to product fabrication
 - from monitor of processes to management review
 - from opportunity of improvement to change management
- OUR QUALITY MANAGEMENT SYSTEM HAS BEEN
 DESIGNED TO SATISFY CUSTOMERS NEEDS AND
 EXPECTATIONS, MEET STATUTORY AND REGULATORY
 REQUIREMENTS AND CONTINUALLY IMPROVE
 PROCESSES AND PRODUCTS.
- OUR MANAGEMENT SYSTEM IS CERTIFIED FOR
 COMPLIANCE TO ISO 9001:2008 AND ISO TS 16949
 INTERNATIONAL STANDARD.

OUALITY EXCELLENCE: PROCESS CONTROL

- WE HAVE FULLY AUTOMATED PRODUCTION
 ENVIRONMENT TO PREVENT PROCESS DEVIATION
 AND DETECT PRODUCT ANOMALIES:
 - Electronic Control Plan (paperless)
 - Automated Process Control Architecture
 - Real time SPC system for control of critical inline parameters
 - FDC (Fault Detection and Classification) tools to detect process variations
 - APC (Advanced Process Control and automatic adjustments) to reduce process variations
 - OCAP treatment and documentation, including non
 Conformity product segregation
 - Quality checks for production equipment automatically controlled by structured QC models
 - Safe process recipe management
 - Fully automated poka yoke tools to prevent misprocesses and mis-operation

LFOUNDRY IS A SMIC COMPANY —



ABOUT SMIC

Semiconductor Manufacturing International Corporation ("SMIC"; NYSE: SMI; SEHK: 981) is one of the leading semiconductor foundries in the world and the largest and most advanced foundry in mainland China. SMIC provides integrated circuit (IC) foundry and technology services on process nodes from 0.35 micron to 28 nanometer. Headquartered in Shanghai, China, SMIC has an international manufacturing and service base. In China, SMIC has a 300mm wafer fabrication facility (fab) and a 200mm mega-fab in Shanghai; a 300mm mega-fab and a majority-owned 300mm fab for advanced nodes in Beijing; 200mm fabs in Tianjin and Shenzhen; and a majority-owned joint-venture 300mm bumping facility in Jiangyin; additionally, in Italy SMIC has a majority-owned 200mm fab. SMIC also has marketing and customer service offices in the U.S., Europe, Japan, and Taiwan, and a representative office in Hong Kong. For more information, please visit www.smics.com.

