

# A GLOBAL LEADER IN **TESTING AND LABORATORY** SERVICES

TESTING FOR LIFE What we do, and why it matters	01
<b>OUR STORY: THE VISION OF A BETTER AND SAFER LIFE FOR EVERYONE</b> We're proud of our history	02
VISION, MISSION & VALUES Our long-term aspiration, why we're here and what we stand for	06
ATTRACTING THE BEST Our Leadership Charter	07
ACTIVE WHEREVER TESTING CAN PROTECT LIFE From the foods you eat to the medicines you trust	08
A NETWORK OF ENTREPRENEURS Entrepreneurship is in our DNA: Eurofins' 500 entrepreneurs created 178 start-ups since our IPO	12
BEING WHERE OUR CUSTOMERS NEED US Our network spans the globe	14
OUR SUCCESS, IN NUMBERS Celebrating decades of sustainable growth	16
<b>CELEBRATING OUR PEOPLE</b> Our people are exceptional Do you have what it takes to join us?	18
<b>SCIENTIFIC BREAKTHROUGHS TO MAKE THE WORLD A SAFER PLACE</b> Our labs are at the forefront of exciting scientific breakthroughs	20
INNOVATING TO COMBAT A GLOBAL PANDEMIC Our contribution to the fight against COVID-19	24
MAKING A WIDER CONTRIBUTION We believe it's important to share our success	26
WORKING TOWARDS A MORE SUSTAINABLE WORLD Preserving the earth's scarce resources for future generations	27
LOOKING TO THE FUTURE What's next for Eurofins	28

**GET IN TOUCH** 

29

TESTING FOR BOD LABORATORIES 50,000 EMPLOYEES 450 MILLION TESTS PERFORMED EVERY YEAR

WE'RE HERE TO KEEP OUR WORLD SAFE

Since 1987, our company has experienced exponential growth, from 4 to over 50,000 employees, and now generates over €5 billion in annualised revenues. Since our IPO, our shares have not only vastly outperformed the markets but match the best in the world for total shareholder returns. We are proud to be the global leader in food, environment, pharmaceutical and cosmetic product testing, and in agroscience Contract Research services. We are also a market leader in laboratory services for genomics, discovery pharmacology, forensics, advanced material sciences and in the support of clinical studies. Eurofins has also built a rapidly developing global presence in clinical diagnostic testing.

But it is the people behind the numbers that really count. Our people who carry out testing and analyses every day in our global network of laboratories to make our planet a safer and better place to live for millions of people. We're proud of what we've achieved and of our positive impact on the world.

The air we breathe, the food we eat, the water we drink, the everyday products we use, the diagnostic techniques, treatments and medicines we rely on when we are unwell – so often we take them for granted. Our continuous innovation and vigilance mean you can trust the products you consume and the environment you live in. As we go about our daily lives, many of us scarcely notice the complex processes, scientific endeavour and rigorous testing that keep us, and the environment around us, safe and well.

As a world leader and innovator in analytical testing, Eurofins is the quiet hero that stands between you and the hazards of an ever-changing, highly complex world. All the time, we're finding new ways to test the produce and products you love, supporting new vaccine and drug development, helping the police to solve crimes, and so much more.

# DAY IN, DAY OUT, WE ARE TESTING FOR LIFE

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Eurofins has come a long way since it was founded as a single, small laboratory in Nantes, France with just four employees.

From day one, we have had the vision of a healthy and safe life for everyone on earth – and our success story is the contributions we've made towards transforming that vision into a reality. We're recognising what we've achieved over the past few decades and the difference we make every day as we continue Testing for Life.

One breakthrough technology was at the start of the company that became the global name for Testing for Life.

From the beginning, Eurofins was driven by a passion to use cutting-edge science to improve safety and verify the authenticity of the products we consume. In 1987, Gilles Martin purchased the rights to a ground-breaking testing technology using Nuclear Magnetic Resonance to detect whether sugar had been added during the wine-making process to increase the alcohol content. In the following years, the patented SNIF-NMR<sup>®</sup> technology was applied to fruit juices, natural flavours and other non-alcoholic beverages, picking up sophisticated fraud that traditional testing methods failed to detect. Indeed, even now, the SNIF-NMR® technology has not been equalled for detecting certain types of adulteration and still generates about €1 million annual revenues. Ever since, Eurofins has often been the first in the world to develop new testing technologies that have a positive impact on day-to-day life.



#### 1987-1997

The start-up phase

In 1987, the company was founded and purchased the rights to ground-breaking testing technology SNIF-NMR®, which could detect whether sugar had been added during wine-making. In 1988 and 1989, the technology was expanded to verify the origin and purity of other products, including fruit juices and natural flavours.



## 1997-2001

# Expanding the technology portfolio

In 1997, our IPO in Paris helped fund our rapid geographic expansion. The strategy was to join forces with the best laboratories, with the brightest talent and most exciting technologies, in order to build a leading position in core markets – Food, Pharma and Environment testing. By 2001, we were present in eight countries and had a network of more than 50 laboratories.



# 2002-2004

# Establishing the infrastructure for Europe

This was a period of foundation building, developing the infrastructure to support growth and improve service to customers. Bigger and more productive sites were developed, allowing Eurofins to drive higher sales and productivity through economies of scale, while a unified IT platform provided each client access to this now global business. Despite our rapid growth, we retained a start-up's passion for innovation and ground-breaking science by structuring our laboratories as centres of excellence, nurturing talent and funding research.



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#### 2005-2008

#### Breaking into New Markets and Becoming a Global Reference

With these building blocks laid, Eurofins turned its attention to new markets and geographies, including China, Sweden, Norway and Ireland, while continuing to invest significantly into consolidating our market-leading positions. It was a period of further technological advancements, reaching a portfolio of 25,000 analytical methods by 2008. Some of these helped to make our name a global reference, with Eurofins later developing and launching the Animal ID DNA Test, for example, to lead the way through the 2013 horsemeat scandal.



## 2009-2011

#### Defying the Global Financial Crisis

During the recession, the requirement for safe food and water, effective pharmaceutical products and a safe environment did not cease, and we continued to meet these global needs. Despite a period of worldwide economic austerity, Eurofins' organic growth remained positive throughout, proving the resilience of our core businesses. By 2011, we were present in 30 countries with over 10,000 employees.



## 2012-2015

#### Becoming a One Billion Euro Business

In 2012, we celebrated not only 15 years since our IPO, but also reached the milestone of becoming a one-billion-euro annual revenue business. Around the same time, we achieved a number of new global market leadership positions, becoming the market leader in discovery pharmacology globally, in the Japanese genomics testing market, and in the Brazilian food testing market. In 2013, Eurofins became the second largest food testing service provider in the USA. We also entered the specialty clinical diagnostics market for the first time in 2014, with the acquisition of ViraCor-IBT.

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## 2015-2020

#### Building the Infrastructure of a Global Leader in Testing for Life

By 2015, we had doubled in size once again to become a two-billion-euro company. A 5-year growth plan was formulated, with the objective of doubling in size again by 2020. In spite of the COVID-19 pandemic, we vastly exceeded this goal, surpassing €5 billion in revenues in 2020. This was a period of significant investment into developing bespoke IT Solutions and to become a global network of fully digital, state-of-theart laboratories. In 2017–2018, Eurofins completed over 100 acquisitions and we became the market leader in food and environment testing in North America.



#### 2021 onwards

#### Looking to the Future

Eurofins entered 2021 with over 50,000 staff across a network of more than 800 laboratories in over 50 countries, offering a portfolio of over 200,000 analytical methods and with 2020 revenues of €5.4 billion. Having completed our best-in-class global laboratory infrastructure, we now turn to a new phase of development, with a particular focus on operational excellence and innovation. Thanks to our very large investments in laboratories, state-ofthe-art testing equipment and bespoke IT solutions, we're ready to continue to set standards in service and innovation in Testing for Life.



**OUR VISION** Our long-term aspiration

To be the Global Leader in Testing for Life.

# **OUR MISSION**

Why we are here - the cause/purpose of our business

To contribute to a safer and healthier world by providing our customers with innovative and high quality laboratory, research and advisory services whilst creating opportunities for our employees and generating sustainable shareholder value.

## **OUR VALUES**

What we stand for/what is important for us

#### **Customer focus**

- Delivering customer satisfaction by listening to and exceeding customer expectations
- Adding value for our customers through our services
- Seeking innovative solutions to help our customers achieve their goals

#### Quality

- Delivering quality in all our work; providing accurate results on time
- Using the best appropriate technology and methods
- Seeking to improve or change our processes for the better

#### **Competence and Team Spirit**

- Employing a team of talented and competent staff
- Investing in training and creating good career opportunities
- Recognising and encouraging outstanding performance

#### Integrity

- Behaving ethically in all our business and financial activities
- Demonstrating respect towards our customers and our staff
- Operating responsible environmental policies

#### LEADERSHIP CHARTER What we expect from our leaders

## **ARE YOU A LEADER? HERE ARE 12 WAYS TO MAKE SURE**

#### Behaviour and competencies expected from Eurofins leaders

#### 1. VISION

#### Define & communicate a clear vision and strategy

- 1. Develop an exciting customer centric vision of the future - think big.
- 2. Develop strategies to facilitate accomplishment of the vision.
- 3. Use various means of communication to ensure people know the vision & strategy.
- 4. Hold team discussions to check and improve the understanding of the vision & strategy.

#### 2. GOALS

#### Set ambitious goals based on strategy & vision

- 1. Set up action plans with clear-cut distribution of responsibilities.
- 2. Take obstacles away so that people can implement the strategy.
- 3. Set goals that are consistent with the vision and strategy (people know how they can contribute at the operational level).
- 4. Keep goals simple, focus, always maintain a consistent course.

#### **3. CUSTOMER OBSESSION**

#### Be a trusted and reliable partner to their customers

- 1. Work with passion to exceed customer expectations and earn their trust.
- 2. Systematically solicit feedback and strive to continuously improve the customer's experience.
- 3. Encourage their teams to share knowledge with customer and help them achieve their goals.

#### 4. HIRE THE BEST

#### Attract, develop and retain star performers

- 1. Deploy enormous energy and time to find and hire the best.
- 2. Raise the performance bar with every hire and promotion.
- 3. Recognise exceptional talent and give them roles with true team leadership.
- 4. Make sure that high performers enjoy and contribute their best.

#### **5. INSPIRE**

#### Inspire passion to achieve excellent performance

- 1. Demonstrate a strong drive for high quality output. 2. Set the highest standards and always deliver more
- than what is required.
- 3. Create positive tension to get the most out of people. 4. Always expect and recognise high performance.

#### **6. EMPOWER** Empower & motivate their teams

#### 1. Create or influence an environment in which people

- perform, grow, contribute and enjoy. 2. Show trust in people.
- 3. Care about people's motivations.
- 4. Allow people to implement their own ideas.
- 5. Challenge people in constructive ways.

#### 7. EXECUTION

#### Ensure strategies are implemented

- 1. Monitor progress on critical actions and metrics/KPIs. Quickly become hands-on if things derail.
- 2. Implement decisions fast and effectively.
- 3. Stay connected to details and dive deep in the business when needed. No task is below them.

#### 8. RESULTS & OWNERSHIP **Deliver profitable & sustainable growth**

- 1. Relentlessly explore ways to improve existing business returns.
- 2. Provide financial support for high-impact ideas.
- 3. Maintain a balanced view between bottom line short-term goals and innovative, long-term growth.
- 4. Be very cost conscious. Spend the Company's resources frugally like their own.

#### 9. ACTION

#### Encourage pro-activity and initiative

- 1. Show strong bias for action.
- 2. Be metric-based but prepared to decide without
- exhaustive analysis many decisions are reversible. 3. Know that speed of action matters.
- 4. Value intuition and calculated risk-taking

#### **10. BE A ROLE MODEL**

#### Lead by example and earn trust

- 1. Demonstrate a strong drive for excellent output.
- 2. Stay focused, keep it simple and consistent.
- 3. Listen attentively, speak candidly and treat others respectfully.
- 4. Be clear on expectations, direction and requirements.
- 5. Walk the talk, show commitment.
- 6. Show integrity and credibility be tenacious.
- 7. Be frugal. Accomplish more with less.
- 8. Have backbone. Disagree and challenge when not convinced but once a final decision is taken, commit fully.

#### **11. INITIATE CHANGE**

#### Initiate and drive change in an uncertain future

- 1. Always guestion the status guo (Can we do better? Is there another way?).
- 2. Spot opportunities very quickly.
- 3. Come up with alternatives, creative solutions to unmet needs, problems and demands.
- 4. Form a culture that supports change and innovation.

#### 12. BOUNDARYLESSNESS Enable/promote the building of an internal network to optimise business opportunities

- 1. Act on behalf of the whole Company beyond just their own team.
- 2. Constantly seek to pull in high potential people from outside the team and facilitate/promote their best team members throughout the Group.
- 3. Encourage cross-functional, cross-business team work.

# Group Leadership Philosophy

How the Group Operating Council leads/organises Eurofins

#### Eurofins is a decentralised, non-bureaucratic fast moving group of entrepreneur led businesses. Group Operating Council members/Business Line leaders behave as shareholders towards the Presidents of Eurofins businesses and:

#### Set the framework in which leaders of Group companies can succeed:

- a) Put businesses together that address one homogenous market (local or global depending on clients' decision making level) and that are large enough to be efficient under one leader; an empowered and accountable President/Managing Director who sets the strategy for his/her business along an ambitious vision.
- b) Get out of the way.
- c) Provide support as required.

#### 2 Select, develop & retain the best leaders

- a) Encourage a value-creation-based meritocracy.
- b) Reward progress in Economic Profit (EP) growth by sharing value creation with outstanding leaders.

3 Allocate capital according to EP/ROCE (Return on Capital Employed) growth

Rules of the game include full transparency & common financial systems/policies

# ACTIVE WHEREVER TESTING CAN PROTECT LIFE

Whenever clarity and certainty about life-enhancing resources, products and processes are needed, you will find Eurofins at work.

We never accept the status quo. Always questioning, challenging and searching, Eurofins is committed to finding better alternatives and smarter solutions.

And it's not just our science that pushes the boundaries of what's possible. We are constantly striving to improve our service to our customers, from real-time ordering to turnaround times of less than 24 hours.



#### Foods you can trust

#### FOOD AND FEED TESTING

As the world leader in this market, we are actively testing for safety, authenticity and quality at every stage of thousands of food supply chains – from crops and livestock in fields to the finished dishes you buy from shops or enjoy in restaurants.

Find out more about Eurofins Food and Feed Testing at www.eurofins.com/ foodand-feed-testing/



#### Feeding the World

#### AGRO TESTING

Eurofins is helping to answer a big question – how can we feed the world while protecting our environment? Our scientists in the agro testing business collect the right data, undertake innovative analysis and provide clear insights to help ensure optimal crop production.

Find out more about Eurofins Agro Testing at www.eurofins-agro.com/en



#### **Protecting planet Earth**

#### **ENVIRONMENT TESTING**

The air we breathe, the water we drink, the soil we rely on to sustain life – our tests help a wide range of companies, NGOs and governments ensure the Earth's scarce resources are sustainably preserved for future generations. And because we're number one in the world, we always offer more protection at a lower cost.

Find out more about Eurofins Environment Testing at www.eurofins.com/ environment-testing/





## Utilising life to save life

#### **BIOPHARMA SERVICES**

As dramatic breakthroughs in biopharmacology make it possible for humanity to fight life-threatening diseases by utilising the building bricks of life itself - genes, stem cells, viral manipulations and more – we are delivering innovative new ways to test their safety and effectiveness.

Find out more about Eurofins BioPharma Services at www.eurofins.com/ biopharma-services/

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#### **Redefining diagnosis**

#### **CLINICAL DIAGNOSTICS**

Clinical diagnostic tests are a key factor in 70% of medical decisions. Our innovative tests help clinicians make the very best decisions to improve outcomes for patients, be it ensuring access to better treatments, reassuring individuals genetically predisposed to certain diseases or supporting women during pregnancy with non-invasive prenatal tests.

Find out more about Eurofins Clinical Diagnostics at www.eurofins.com/ clinical-diagnostics/



# Building confidence in agroscience

#### AGROSCIENCE SERVICES

The global population is set to reach 10 billion around 2050, but the earth's land and sea resources are finite. No wonder agroscience is being asked to provide innovative answers to the oldest of all questions - 'What can we eat?' From field to research facility, Eurofins is helping to find these answers.

Find out more about Eurofins Agroscience services at www.eurofins.com/ agroscience-services/



# ACTIVE WHEREVER TESTING CAN PROTECT LIFE





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## Leading the way on DNA

#### GENOMIC SERVICES

DNA sequencing, DNA and gene synthesis and other linked techniques and tests are helping humans to make transformative leaps across many fields – from medical diagnosis to food production. We are world leaders and ground-breakers in this field.

Find out more about Eurofins Genomic Services at www.eurofins.com/genomicservices/



#### Peace of mind

#### FORENSIC SERVICES

We provide scientific clarity when it's most needed, whether that's to settle private paternity disputes or to help the police solve crimes. Our teams of internationally renowned scientists act as expert witnesses and work closely with the police, courts, lawyers, industry and private clients.

Find out more about Eurofins Forensic Services at www.eurofins.com/forensicservices/



# Products you can enjoy with confidence

#### CONSUMER PRODUCT TESTING

How can product designers, manufacturers, distributors, retailers and consumers be sure that the products we are in contact with, and use every day, meet the required quality and safety standards? The answer is through rigorous testing, certification and consultation. We provide these services in hundreds of different regulatory regimes worldwide.

Find out more about Eurofins Consumer Product Testing at www.eurofins.com/ consumer-product-testing/



#### MATERIALS and ENGINEERING SCIENCES

New "super materials" have the potential to transform our world. Eurofins is at the forefront of this revolution, as the number one provider of scientific expertise and analytical techniques to support high tech companies at every phase of the product lifecycle, from R&D to manufacturing.

Find out more about Eurofins Materials & Engineering Sciences at www.eurofins. com/materials-and-engineeringsciences/





# Developing tomorrow's testing technologies

#### **TECHNOLOGIES**

Through Eurofins Technologies, we've taken our commitment to Testing for Life to the next level. We are a fast-growing provider of test kits and consumables to help laboratories undertake their own fast, reliable and cost-effective testing. In a new era of growing concern about staying safe from bacteria and viruses, Eurofins is one step ahead, innovating and developing the easiest and most effective laboratory and at-home testing kits.

Find out more about Eurofins Technologies at www.eurofins-technologies.com/







#### **COSMETICS TESTING**

Did you know your skin is the largest organ in your body? Every day, it is exposed to soaps, balms and cosmetics that must be rigorously tested to ensure they are safe, effective and compliant with regulations. Our laboratories work with retailers and cosmetic manufacturers throughout the product lifecycle, ensuring consumers around the world can trust the cosmetics they love.

Find out more about Eurofins Cosmetics Testing at www.eurofins.com/cosmetics/



# Protecting essential industries

#### **ASSURANCE**

Eurofins Assurance is at the side of our Food, Consumer Products and Healthcare customers as we help identify and mitigate risks along their supply chain. We offer a full scope of services in product inspection, auditing, certification, training and consulting, helping to protect businesses and ensure products are safe and meet specifications.

Find out more about Eurofins Assurance at www.eurofins.com/assurance/

# NETWORK OF ENTREPRENEURS III

A network of entrepreneurs created 178 start-ups since our IPO.

Eurofins is not a typical centralised laboratory group. Instead, we are, by design, a hub of entrepreneurship. Each of our laboratories is usually an independent company led by an entrepreneur. Why? Because we believe in excellence for every customer and understand this is only possible when our laboratory leaders are empowered to make their own decisions in their own company and optimise their own services.





Each of our laboratories operates as a dynamic, market-driven business in its own right, managed by its own independent entrepreneurial leader, constantly striving for improvement. Our people are empowered, not micro-managed. They're not afraid to take risks or do things differently, because world-class results don't happen by accident. They require focus, a concentration of brilliant minds and best-in-class resources, highly motivated to push the boundaries and deliver the very best outcomes.

Excellence is never typical and this is why we offer our testing services through a global network of centres of excellence. This means every customer, wherever they are in the world, can tap into the Eurofins network to access unrivalled expertise and the very latest testing technologies while having a local direct point of contact they know.

Our laboratories always look for the best outcome for every customer, referring work to the most appropriate centre of excellence and welcoming referrals from others in return. At Eurofins, we understand that we all win when the customer wins.

This atypical approach requires atypical people. It is never business as usual. Our people must be entrepreneurs with a passion for collaboration. They must combine scientific excellence with commercial awareness and be as comfortable at the lab bench as they are building the business. We look for leaders who thrive on the freedom to make their own decisions but understand the importance of teamwork. We're entrepreneurs, who understand we're stronger together. A decentralised approach only works when a business has complete confidence in the judgement and competence of its leaders. Our Leadership Charter makes clear the high standards we set, be it the ability to hire the best talent or executing strategies that deliver results and delight customers. You can read more about our Leadership Charter on page 7.

# School for entrepreneurs: building success from scratch

There are times when we start from scratch to build the right laboratory to meet market demand, and we have created close to 150 start-ups since 2014. This generates exciting opportunities for those with the skills and ambition to create a start-of-the-art greenfield laboratory to complement our existing network. We provide the start-up capital, a bespoke IT system and a suite of tools, processes and laboratory blueprints - not to mention access to the talents and know-how of our proven entrepreneurs around the world. It's a chance to test yourself against the best in the world, with the support and back-up of those who have done it before. We're proud of what our start-ups have achieved and will build more to meet ever-evolving customer requirements. Our ability to nurture entrepreneurs and support their success really sets us apart, creating unparalleled opportunities for our people and outstanding returns for our shareholders.

# BEING WHERE OUR CUSTOMERS NEED US

#### **OUR GLOBAL FOOTPRINT**

Eurofins is a business with a clear mission and driving purpose. We want to make the world a better and safer place by ensuring best-inclass laboratory testing is accessible to all who need it.

We think it's important to be where our customers need us, which is why you'll find us at over 800 sites in more than 50 countries spanning 6 continents. And we're still growing, adding new capacity to keep pace with our customers.

Eurofins has established specialist centres of excellence for most analytical areas, with world-class skills, tools and processes, which all of our laboratories can tap into. This means our customers, wherever they are in the world, can access best-inclass expertise and technology by linking into the Eurofins network. And because this global network is underpinned by a cutting-edge IT system and logistical capability, we can provide a seamless service for every customer.



#### Data correct as of December 2020

For more information about our locations across the world visit: www.eurofins.com/contact-us/worldwide-interactive-map/

From top clockwise: Wolverhampton UK, Vergeze France, Hamburg Germany, Vejen Denmark, Suzhou China, Indiatuba Brazil, St Charles USA Lancaster USA



# OUR SUCCESS IN NUMBERS IN IN IN IN

## **MORE THAN THREE DECADES OF GROWTH**

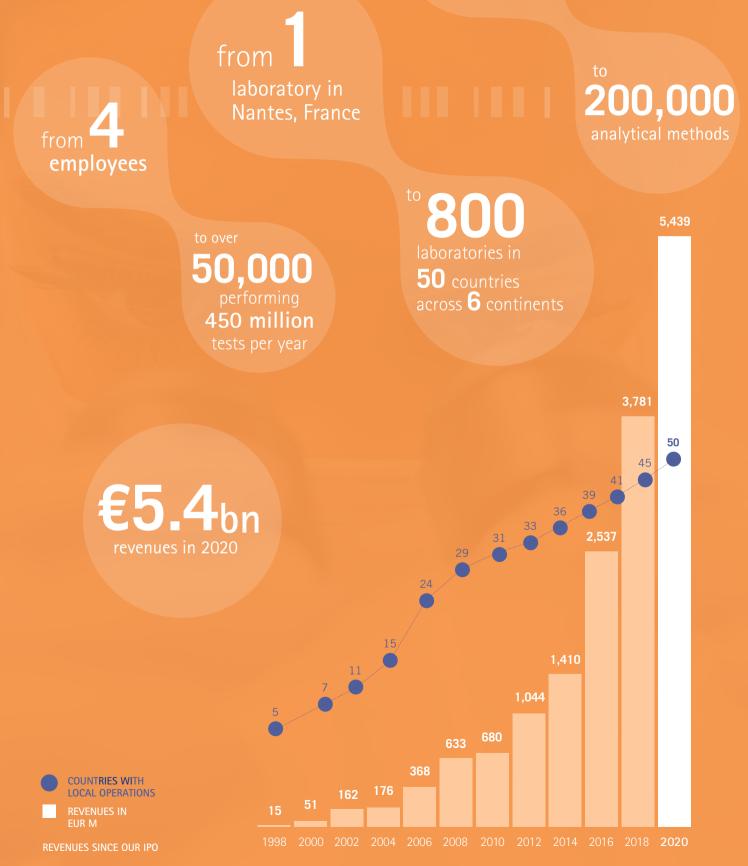
The test of any business model is its effectiveness. We are proud of how successful our business has been, by any measure. In 2020, we overtook competitors with larger operations and a longer operational history than us to become the biggest player in the world in the Testing, Inspection and Certification (TIC) industry.

- We've grown from just 4 people to over 50,000 employees.
- We've expanded from 1 laboratory in Nantes, France, to 800 laboratories in 50 countries across 6 continents.
- We've steadily grown our turnover, from €6.7 million at the time of our IPO in 1997 to over €5.4 billion in 2020.
- We've grown very strongly and have consistently delivered for our committed shareholders, who have always encouraged us to think long-term, not short-term. Our share price has been one of the best performing in Europe, outperforming peers and matching the very best stocks in the world over a 20-year period. In fact, our share price has multiplied by 375x, an annual average increase of 29% between our IPO in October 1997 and December 2020.
- We now work for 9 out of 10 of the world's leading food retailers, food producers and pharmaceutical companies.
- We've grown fast organically and also through the acquisition of over 400 companies since our IPO each one bringing its own unique history and bedrock of knowledge into Eurofins.
- We perform more than 450 million tests each year and offer 200,000 different analytical methods.

BACK TO CONTENTS

#### **OUR GROWTH STORY**

from test (SNIF-NMR)









# eurofins Equality Driving Excellence

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A business is only ever as good as its people. And our people are exceptional.

We work hard to find the right ones, and when we find them, we work harder to keep them happy. We want our people to be themselves and enjoy coming to work, to feel motivated every day because their results matter and make a difference in the world.

So, what do these exceptional people look like? Our laboratory leaders are highly qualified with an entrepreneurial flair and a head for business. They understand how to inspire and motivate others to push for the same high standards they expect of themselves. And they have the quick wits and business acumen to solve problems and move rapidly to take advantage of new opportunities. They are results-focused, always pushing for better, but have the empathy and communication skills to make this a team effort.

Our scientists are experts in their field, specialists who understand the need to collaborate to deliver the best solutions at speed for our customers. They are passionate about the science but understand it's the real-world application that makes the difference.

Unsurprisingly, these individuals are not easy to find. We maintain close links with the best academic institutions around the world and put people at the heart of our acquisition strategy.

With businesses across all six continents, we are a diverse organisation with a huge workforce

comprised of different genders, generations, cultures, professional experiences, nationalities, races, origins and other unique differences that make each employee an individual. We believe that diversity, and equality for all employees makes us stronger and drives business excellence. Through our Equality Driving Excellence initiative, we strive to foster a workplace culture of inclusion, understanding and support, where all Eurofins employees feel respected and can realise their full personal potential.

We promote on talent, not time served. And it's important to us that we share the rewards of success with those who make it happen - we offer a generous stock option scheme to the internal entrepreneurs who contribute to our growth.

When we find great people, we work hard to keep them, providing best-in-class opportunities for growth and advancement to those hungry for new challenges.

We are always on the look-out for exceptional people. If you think you're the right match for us, then visit: https://careers.eurofins.com/

# SCIENTIFIC BREAKTHROUGHS TO MAKE THE WORLD A SAFER PLACE

We live in an age of rapid disruption. Today's best-in-class is tomorrow's out-of-date. This is why we continuously challenge ourselves to innovate on behalf of our customers.

Since its foundation in 1987, Eurofins has contributed significantly to the advancement of science. We are proud of the discoveries and advancements our specialists have made in a myriad of sectors, ranging from food to pharma or forensics testing.

Our laboratories around the world are helping to improve cancer treatments, fight the growing problem of antibiotic resistance, catch criminals, safeguard the health of bees, ensure our food and water is safe, determine paternity, and beat viruses like COVID-19. Underpinning our work in these areas and more, Eurofins has one of the world's largest and most varied databases, rich with fingerprints of thousands upon thousands of foodstuffs, plants, drugs, bacteria, etc.

Wherever we are and however long it may take, our work helps to make life safer. The stories below represent just a few of our scientific innovations.



20 EUROFINS | TESTING FOR LIFE

## WHAT DO PIZZA BOXES, RAINCOATS AND FRYING PANS HAVE IN COMMON?





# Detecting PFAS in everyday products and our environment

#### **ENVIRONMENT TESTING**

PFAS, per and polyfluoroalkyl substances, are a class of synthetic chemicals that you may not have heard of but have certainly been in contact with. These chemicals have unique and useful characteristics and can be used to make products heat and stain resistant, non-stick and water repellent. They are present in a myriad of consumer products, from the pans we use to cook our food, to our raincoats and even some dental floss. Unfortunately, they are very stable compounds that accumulate and persist in our environment and have been linked to a number of health risks. Eurofins has been at the forefront of developing methods to test for these compounds.

# TESTING FOR TAILORED CANCER TREATMENT



Empowering cancer research through innovation

#### **BIOPHARMA SERVICES**

Cancer is a complex and multidimensional disease, driven by genetic instability and influenced by a multitude of factors. Each patient is unique, and each tumour ever changing, yet treatment historically has taken a generalised approach with limited success. Advances by Eurofins are helping researchers to "personalise" cancer treatment and better target care for better outcomes. The Eurofins Pharma Discovery Services team in the US launched its OncoPanel<sup>™</sup> Cell-Based Profiling Service comprising more than 300 genomically diverse human cancer cell lines across 18 different tissue types. The service screens and profiles anti-cancer compounds in drug discovery, and also predicts potentially beneficial responses. Truly personalised insights into drug discovery mean benefits for patients through the possibility of faster and better results from cancer treatment plans.

# SCIENTIFIC BREAKTHROUGHS





# Optimising outcomes for kidney transplant patients

#### **CLINICAL DIAGNOSTICS**

Kidney transplantation is universally recognised as the best treatment option for patients with endstage renal disease. Although clinical outcomes of kidney transplantation have improved steadily for decades, transplant rejection remains one of the key challenges to long-term patient survival. Eurofins' TruGraf® test is the first test capable of reliably ruling out "silent" subclinical acute rejection in patients with stable renal function, where a patient's immune system can reject a kidney transplant without the patient showing any other clinical symptoms. This non-invasive test allows doctors to reassure patients with stable renal function that their kidney transplant is not harbouring silent rejection by assessing whether they are adequately immunosuppressed. As a result, the test avoids the need for invasive, risky and costly surveillance biopsies, and allows for early detection of rejection risk, not just when rejection is suspected and it may be too late to save the transplanted organ.







Setting the new standard in infant formula testing

#### FOOD AND FEED TESTING

In 2008, China was rocked by a national food safety scandal when it emerged that a chemical component called melamine, which is harmful to humans and is used in plastic and fertiliser production, had made its way into infant formula and milk. Of an estimated 300,000 victims affected by the compromised milk and infant formula, six babies died and an estimated 54,000 babies were hospitalised. The tragedy highlighted the importance of using the most stringent methods to test infant formula. Having screened tens of thousands of samples for melamine levels during this crisis, Eurofins has also played a crucial role in a global initiative to overhaul, redevelop and modernise infant formula testing, leading a panel of formula producers and validating all new testing methods, some of which are the most accurate and precise methods developed.



Milestone research proves genetic differences

#### GENOMICS

Amid abandoned legal cases, high-profile acquittals of serious crimes and paternity suit dismissals, scientists were increasingly questioning the dogma that identical twins could not be genetically differentiated. Only theoretical approaches existed to solve this conundrum, until a Eurofins breakthrough provided an answer to the puzzle of how to tell identical twins apart. Using a whole genome sequencing approach, Eurofins demonstrated that rare mutations occur early in the embryonic stage whenever a cell divides as part of the development process. Eurofins also provided evidence that, because these changes happen so early on, the mutations can be found in all the DNA of the person, a discovery that can prove paternity, as well as ensuring that the right person is prosecuted for a crime, even if they have an identical twin.

# INNOVATION AND ACTION DURING A GLOBAL PANDENIC

In 2020, the world was rocked by COVID-19. Eurofins acted quickly to innovate and develop an unmatched range of testing modalities and urgently required tests to support the fight against the pandemic.

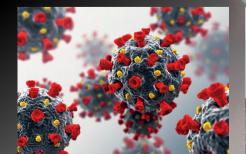
Our laboratories and colleagues worked round the clock to establish and ramp-up testing capacity and by May 2020, Eurofins companies had already created a large range of products and services to facilitate over 20 million COVID-19-related tests per month. This included reagents, nucleic probes and clinical testing capacity to identify those carrying the virus, through PCR testing, returning results within 12-24 hours, antibody testing to identify those who may have been exposed to the virus, and antigen testing.

Continued testing for the presence of the virus has been universally acknowledged as a crucial response to curb the worst effects of the pandemic. Besides carrying out testing in our own laboratories, Eurofins companies received approval for their laboratory-developed COVID-19 tests to be used in public and private laboratories in many countries across the world, increasing global testing capacity. Across Europe and the US, Eurofins developed direct-to-consumer COVID-19 tests, across a variety of modalities, to increase accessibility to sensitive PCR testing.

Ongoing surveillance of our environments is a very effective approach to quickly identify any resurgence in COVID-19 cases and monitor the spread of the disease across all types of environments and workplaces. Eurofins developed and carried out environmental surface testing, wastewater testing, air testing and worn mask testing methods to detect the presence of SARS-CoV-2 (the virus that causes COVID-19), and its Variants of Concern, at very early stages, and, as a result, minimise spread. Eurofins' SAFER@WORK<sup>™</sup> programmes utilise such testing methods to limit the impact of COVID-19 on businesses across all industries and keep environments safe.

Eurofins' unmatched global network of BioPharma Product Testing laboratories ramped up capacity to support some of the largest global pharmaceutical and biotechnology companies to develop the leading COVID-19 vaccine candidates and therapeutics. The roll out of vaccination programmes was hailed as a turning point in the pandemic, however the emergence of virus variants quickly became the next frontier in the fight against COVID-19. Eurofins Genomics facilitated sophisticated sequencing of SARS-CoV-2 to identify new virus strains as they emerged during the pandemic and developed a range of fast PCR tests to detect carriers before the variants can spread.

Besides testing for the virus, there are many areas where Eurofins has directly contributed to the frontline and society in general throughout the pandemic. From emergency testing of medical devices, such as respirators, Personal Protective Equipment (PPE) and masks, to securing the continued supply of critical infrastructure and essential services, such as continued safe drinking water, essential pharmaceutical products, medical devices and important chemical products, and the safe food, beverages and agricultural products sold on supermarket shelves.







# MAKING A WIDER CONTRIBUTION I III

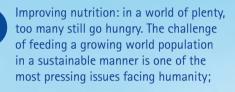
At Eurofins, everything we do has a positive impact on life, health and the environment. But furthermore, we believe in the importance of giving back, and we are in a fortunate position to do so. In 2017, to mark our 30<sup>th</sup> anniversary, the Group donated €1 million to over 40 charities whose purposes aligned with our mission and goals. Following the success of these donations, we formalised our philanthropic efforts.

As a result the Eurofins Foundation was born, and has since received increased funding each year from Eurofins. The Foundation's objectives are based on the commitments of the global Eurofins community: contributing to global health and safety and protecting the environment. As such, the Foundation supports charities, NGOs and initiatives aimed at:



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Protecting the environment: as scientists, we understand the importance of conserving the planet's scarce resources for future generations;



Improving health: from the basics of clean drinking water and sanitation to next-generation medicines, we're backing charities that improve life chances for everyone;



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Helping social, not-for-profit businesses working in the fields of environment or health protection and improved nutrition, in line with Eurofins' DNA;

- Promoting inclusion, diversity and equality at all levels of society through advocacy, education, mentorship, training and development programmes and STEM and STEAM outreach where this is contributing to a safer, healthier world;
- Helping non-profit organisations active in the local communities where Eurofins' laboratories operate and their staff live and work; and
- Supporting students who study or carry out research in fields aimed at contributing to safer and healthier lives but who lack sufficient financial resources.

To learn more, visit: https://www. eurofins.com/eurofins-foundation/



# WORKING TOWARDS A MORE SUSTAINABLE WORLD

As a fast-growing Group with a very large global footprint, Eurofins recognises its responsibility to help take care of the world we live in. Through our Testing for Life, we help a wide range of companies, NGOs and governments ensure the earth's scarce resources are sustainably preserved for future generations. We also understand that climate change is an imminent threat to our world – that's why we've set ourselves the ambitious target of achieving carbon neutrality by 2025.

With this objective in mind, all our laboratories have begun or continued to work on programmes to reduce their emissions and progress towards a more sustainable future. In 2020, we also doubled our offset emissions to more than 100,000 tonnes of CO<sub>2</sub>, helping to compensate for some of the carbon emissions that cannot be eliminated from our operations. Eurofins is also investing in long-term funds that support re-forestation and the protection of biodiversity, together with local communities and in alignment with the United Nations Sustainable Development Goals. By encouraging each leader of Eurofins laboratories to make sustainable changes at their local level, whether that's through switching to LED lighting, reducing use of chemicals, investing in renewable energy sources or conducting energy and waste audits, Eurofins is building a global sustainability effort. We are proud that some of our laboratories have already switched to 100% renewable energy sources, with others offering environmental risk management training programmes for all employees or running tree-planting campaigns.

Protecting the environment is also one of the seven pillars of the Eurofins Foundation. We work with environmental organisations across all six of the continents we operate in, and support projects ranging from conserving biodiversity in Brazil to protecting the Indian Ocean from overfishing.





# LOOKING TO THE FUTURE IIIIII

We're proud of what we've achieved, but there is so much more left to do. Although we've grown dramatically since 1987, we're still as hungry for success as we were on the day we performed our first test for our first customer. As scientists and entrepreneurs, we are always pushing ourselves to do things better, smarter and safer.

**So, what's next?** Science never stands still and neither do our customers' needs, which is why we will continue to invest in cutting-edge technologies and R&D to find better ways to analyse food, the environment and pharmaceutical products. We will also leverage our world-renowned genomics expertise in the area of specialty clinical diagnostics testing to improve diagnostic capabilities and help doctors make better decisions. Our BioPharma laboratories will support the development of the vaccines and therapeutics of the future. And we'll continue to react to the challenges and opportunities of a changing, inter-connected world to help make the planet a safer and healthier place for all.

Life will continue to test and challenge all of us in the years and decades ahead. That's why we'll continue Testing for Life.

## **GET IN TOUCH**

Visit our website www.eurofins.com to find out more

## **INTERESTED IN JOINING OUR TEAM?**

We'd love to hear from you: https://careers.eurofins.com/

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