

S U S T A I N A B I L I T Y R E P O R T

2021

Communication on Progress (COP)



Our Statement of Continued Support

To our stakeholders:

Since Materialise was founded in 1990, making the world a better and healthier place has been our mission. In 2017, when we first pledged our commitment to the United Nations Global Compact, its Ten Principles, and seventeen SDGs, we were confident we were taking both a natural and important next step. And now, 5 years later, as the COVID-19 pandemic persists and the effects of climate change become increasingly visible, we are proud of the steps we've taken to date, but at the same time see, there's still much work to be done to create the world we envision.

In 2021, we strengthened our support of the UNGC by adding two important new cornerstones to our sustainability program. We launched a new longer-term, 2025 objective 'Empowering the Choice for Sustainability', and committed to setting science-based targets through the Science Based Targets initiative (SBTi). Based on preliminary results, as of the end of 2021, our worldwide operations had achieved a 33%

reduction in greenhouse gas emissions (over 2019), and we are on track to reach a 50% reduction by 2025.

This year, our fifth anniversary with the UNGC, I am pleased to confirm that Materialise reaffirms its support of the United Nations Global Compact and its Ten Principles in the areas of Human Rights, Labor, Environment, and Anti-Corruption. And with this annual Sustainability Report/COP, we summarize the progress we have made against these principles to date, and pledge to continually improve their integration into our business strategy, culture, and daily operations.

Continually setting the bar higher, pushing the boundaries of innovation and creativity, and supporting the planet and those around us are aims that are enthusiastically embraced at all levels of our global organization. Together, we will continue in our journey to make the world a better and healthier place.

Peter Leys - Executive Chairman



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OUR COMPANY

About Materialise

When Materialise was founded in 1990, our goal was to enable new uses for the extraordinary potential that 3D printing offers. Since then, we have leveraged our experience to create a range of software solutions and 3D printing services, which together form a backbone for the 3D printing industry.

Our open and flexible platforms enable players in industries such as healthcare, automotive, aerospace, art and design, and consumer goods, to build innovative 3D printing applications that make the world a better and healthier place.

Headquartered in Belgium with a public listing on the NASDAQ stock exchange and more than 2300 people in 21 countries worldwide, Materialise combines one of the largest groups of software developers in the industry with one of the largest 3D printing facilities in the world. Ultimately, we empower our customers to transition towards a digital manufacturing process and to launch innovations that have the potential to forever change the faces of their industries.

THE MATERIALISE MISSION

The Materialise mission has remained unchanged since our company was founded by CEO Fried Vancraen more than 30 years ago.



MATERIALISE AT A GLANCE*



205

million EUR
annual revenue



+2300

employees



3

business units
reporting structure



+385

patents granted



active in

21

countries



+1M

parts printed in 2021



+45K

patients helped in 2021



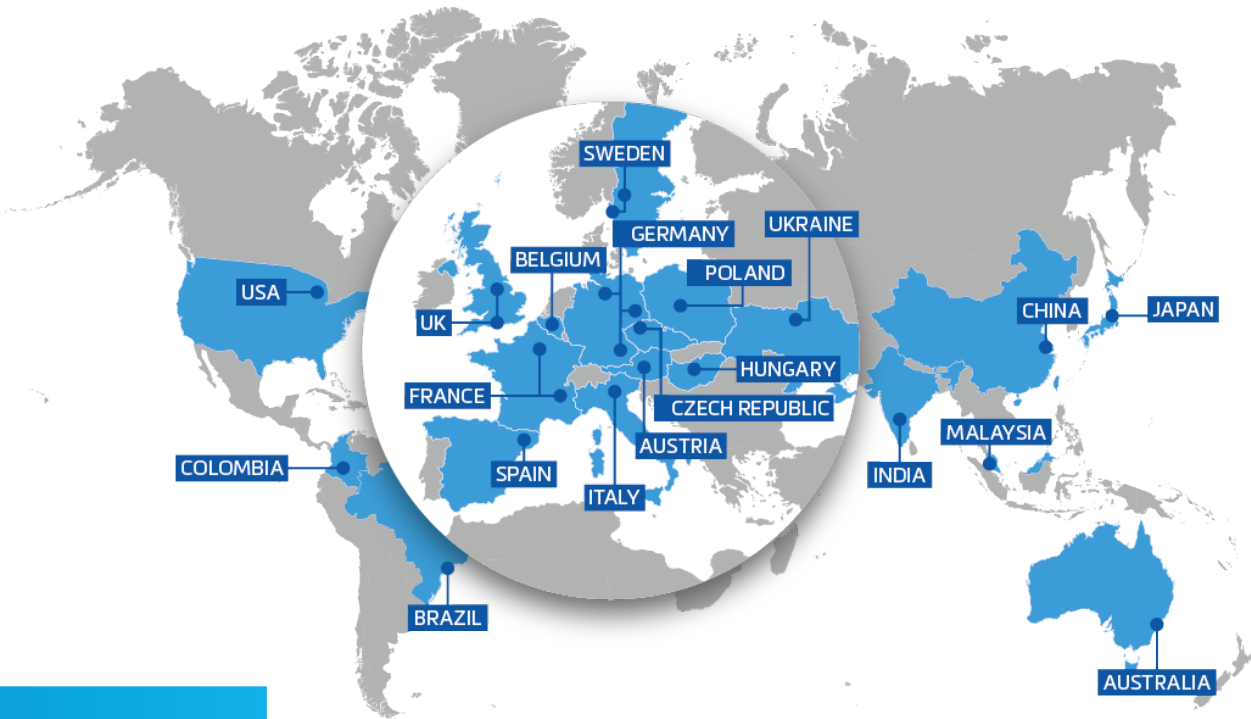
92%

of largest metal AM
System Manufacturers
use Materialise software

*As at December 31, 2021.

ORGANIZATIONAL STRUCTURE

Materialise NV is a publicly-held corporation which trades on the NASDAQ stock exchange. We operate 28 offices in 21 countries worldwide with headquarters located in Leuven, Belgium. Most of our offices are subsidiaries and include the Materialise companies ACTech, Engimplan, Materialise Motion and RapidFit, as well as the joint venture Tianjin Zhenyuan Materialise Medical Technology. Our main manufacturing facilities are located in Belgium, Germany, Brazil, Czech Republic, Poland, and USA.



Materialise Offices*

ASIA-PACIFIC		EUROPE		AMERICAS
Australia		Austria	Italy	Brazil
China (2)		Belgium (2)	Poland	Colombia
India		Czech Republic	Spain	USA (2)
Japan		France (2)	Sweden	
Malaysia		Germany (3)	Ukraine	
South Korea		Hungary	United Kingdom (2)	

*As at December 31, 2021.

Materialise is divided into 3 business units: Manufacturing, Software, and Medical, and financial results from our worldwide operations are reported in consolidated form and according to these business units.

Full details can be found in our annual report: investors.materialise.com/sec-filings

OUR 3 BUSINESS UNITS



SOFTWARE	MANUFACTURING	MEDICAL
<p>Dedicated 3D printing tools for:</p> <ul style="list-style-type: none">Design fixing, data & build preparationProcess control & simulationWorkflow optimization and automationE-commerceProduction planning, logistics and operations management	<ul style="list-style-type: none">Certified ManufacturingDigital Supply ChainsRapid PrototypingDesign & EngineeringConsulting ServicesIndustry specific solutions, including for aerospace, automotive, eyewear, footwear, healthcare, and industrial equipment	<ul style="list-style-type: none">3D printing at point-of-care3D surgical planningPersonalized medical devices3D Medical image-based research and engineering

Materialise Magics 3D Print Suite • Materialise Mindware • Materialise Mimics Innovation Suite • Materialise Phits Suite

www.materialise.com

Fair Business Practices & Governance

LEADERSHIP

In 2021, Materialise had a ten-member Board of Directors, including our Executive Chairman Peter Leys and our company founders Wilfried Vancraen and Hilde Ingelaere, who also serve as CEO and Executive Vice President respectively. The Executive Committee was comprised of twelve members including our CEO, Executive Chairman, CTO, CFO, CIO, COO, Chief Legal Officer, one Executive Vice President, three Vice Presidents and a Global HR Director.

Further details are publicly available on the governance pages of our investor relations website: investors.materialise.com/board-of-directors and investors.materialise.com/management

SUSTAINABILITY MANAGEMENT

Our corporate sustainability team, which manages and executes our sustainability program, is primarily based in our headquarters in Leuven, Belgium. In 2021, the team was headed by our Director of Quality, Risk, and Compliance, who reports directly to our CEO.

In 2021, our sustainability team expanded to 22 primarily part-time members, including a full-time coordinator, as well as local sustainability champions ("Ambassadors") at HQ and spread across our international entities.



GUIDELINES & POLICIES

Code of Conduct & Ethics

The Materialise Code of Conduct & Ethics was created to provide guidelines for conducting the business of Materialise to the highest standards of business ethics. This Code applies to all Materialise directors, officers, consultants and other employees, and the Code has been incorporated into the Materialise training program to ensure that all employees have read and understand what is expected.

The Materialise Code supports all the Ten Principles of the UN Global Compact and is available publicly on our website at:

investors.materialise.com/governance-documents

Connected to this Code, we operate an anonymous hotline, available 24 hours per day, 7 days per week, which employees can call should they have any concerns or questions.



Quality Policy

At Materialise, we implement quality in everything we do. This means we are continuously improving ourselves, enabling every employee and manager at Materialise to make a commitment guaranteeing quality in compliance with regulatory requirements.

We have dedicated ourselves to innovating product development that contributes to a better and healthier world as well as aiming to fully understand, anticipate and satisfy the needs of our customers, suppliers and partners.

We provide the backbone for 3D printing technology, and by implementing the Materialise Quality Policy, we are able to deliver high-value products, services and knowledge to our customers in our three main areas of expertise: manufacturing, software and medical.



Materialise values quality management principles according to ISO 9001:2015, with a strong focus on customer satisfaction and continuous improvement. On a regular basis, we perform customer surveys or customer journey workshops to receive customer input. This triggers and enables us to constantly improve the entire organization.



Materialise touches individual lives with our medical devices and every resulting story is personalized. Each step in designing and manufacturing personalized medical devices and medical device software follows the regulatory focused quality management system for medical devices compliant to ISO 13485:2016 to ensure safe and effective products.



As providers of high-quality prototypes, production tools and cutting-edge software, we've already enjoyed a long collaboration with the aerospace industry. Since adopting specific aerospace industry standards, we have received EASA Part 21G and EN9100:2016 certification. This allows authorized delivery of airworthy additive manufactured end-use parts.



Specifically at our ACTech facilities, in addition to our ISO 9001:2015 certification, we are both a DNV approved manufacturer of iron castings for ships and offshore, and an EN 15085-2 CL1 certified producer of parts for rail vehicles. www.actech.de/en/company.html

By obtaining these certifications, we've proven to meet the industry demands in:
Quality and safety • Reliability and traceability • Project management and administration

Environmental Policy

As a 3D printing company with industrial and medical production facilities, Materialise has a responsibility towards the environment around us and we're moving towards a sustainable future with our environmental management system (EMS).

Our EMS allows us to understand, address and minimize our ecological footprint. With this policy at our headquarters in Belgium, in our ACTech operations in Germany, and as of 2021 at our Polish facilities, and our ISO 14001:2015 certificates, we are making a commitment to protect the environment and to comply with European environmental legislation, regulations and customer-specific requirements in all of our operations, processes and services.



The EMS focuses on:

- Reducing raw material usage by controlling spills and rejected parts
- Minimizing waste through recycling and proper waste disposal
- Efficient water and energy use
- Minimizing the use of harmful solvents
- Encouraging environmentally friendly commuting

But we know we can keep doing better. We remain committed to continual improvement and each year, we set relevant targets, measure, review and report our performance.





Supply Chain Policy

The Materialise Supply Chain Policy aims to foster sustainable procurement and to support the driving elements that shape us as a company: innovation, co-creation, people, and quality. All employees have been encouraged to apply and share the policy.

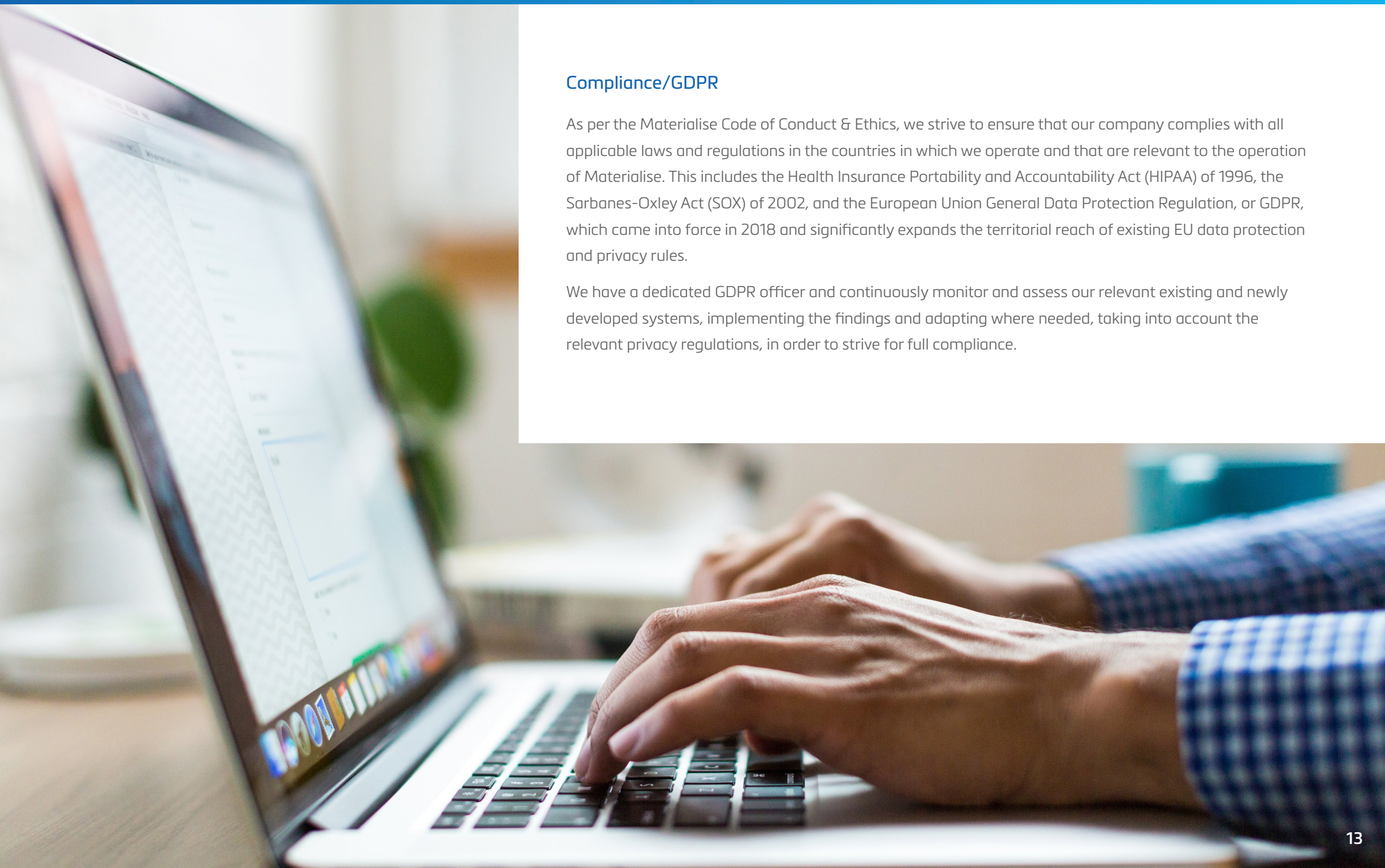
Our global Supply Chain Policy supports all the Ten Principles of the UN Global Compact and has been actively communicated to our suppliers. It requires that they share data regarding their own sustainability programs, and that they be accountable, ethical, and respectful of human rights and our planet. Each supplier is assessed according to a risk matrix, and depending on the assessment, may be subject to additional controls. Each year the policy is reviewed and updated as necessary. The latest version is publicly available on our website at:

www.materialise.com/en/impact/research-reports-policies

Compliance/GDPR

As per the Materialise Code of Conduct & Ethics, we strive to ensure that our company complies with all applicable laws and regulations in the countries in which we operate and that are relevant to the operation of Materialise. This includes the Health Insurance Portability and Accountability Act (HIPAA) of 1996, the Sarbanes-Oxley Act (SOX) of 2002, and the European Union General Data Protection Regulation, or GDPR, which came into force in 2018 and significantly expands the territorial reach of existing EU data protection and privacy rules.

We have a dedicated GDPR officer and continuously monitor and assess our relevant existing and newly developed systems, implementing the findings and adapting where needed, taking into account the relevant privacy regulations, in order to strive for full compliance.



Our Sustainability Strategy

WE SUPPORT



In 2017, as a natural continuation of our mission to create a better and healthier world, Materialise first pledged to support the UN Global Compact, and not long after, we formed our first sustainability team, added CSR as a key enabler to our company's strategic framework, and created our first sustainability strategy.

The word 'sustainability' means different things to different people, but at Materialise, the definition includes People, Planet, Prosperity, Partnerships, and Peace, and ensuring that the needs of the present are met without compromising the ability of future generations to meet their own needs.

Since the beginning, our sustainability strategy has been focused on creating shared value. In other words, it's not just about donating to charity or doing a few nice things here and there. It's about integrating environmental and social concerns into our very business, into the way we operate and the products and services we create and offer to our customers. It's about enabling new solutions and business models that are balanced with economic concerns while striving for the highest standards of social and environmental performance. We complement this with a philanthropic program which supports charitable initiatives around the world.

PRIORITY SDGS

In 2021, we continued focusing on the six priority Sustainable Development Goals (SDGs) that we had identified in 2020: Good Health & Well-Being (3), Decent Work & Economic Growth (8), Industry, Innovation & Infrastructure (9), Responsible Consumption & Production (12), Climate Action (13), and Partnerships for the Goals (17).



EMPOWERING THE CHOICE FOR SUSTAINABILITY

Beginning in 2021, our priority SDGs were strengthened by a new longer-term 2025 objective to take the 3D industry to a new level and Empower the Choice for Sustainability. At Materialise, we are always asking, “What can we do to make 3D printing more sustainable?”

We are committed to:

- Reducing the negative impact of our operations and driving positive outcomes for business, society and the environment.
- Empowering our customers to imbed sustainability into their operations and the solutions they offer.
- Innovating continuously, developing new solutions to reduce waste, enable mass personalization, and optimize the unique advantages of 3D printing.



Sustainability Reporting

Sustainability reporting supports transparency. It helps us share our story, and even more importantly, understand how we're doing and how we can do better. This 2021 report is our fifth, compliant with United Nations Global Compact requirements, and outlines the progress we have made against the seventeen SDGs and each of the Ten Principles of the UNGC. To the extent they are available, performance indicators and quantitative data are also provided. Unless otherwise stated, the data refers to our financial year ending December 31, 2021. Wherever possible, this report covers the worldwide operations of Materialise. Where worldwide data is not available, it is indicated. At a minimum, this report covers about 30% of our employees (HQ), aiming at all times to reach 100%.

In light of the European Union Green Deal and the upcoming Corporate Sustainability Reporting Directive (CSRD), as well as our objective to continually improve our reporting, in 2021, we took the first steps towards Global Reporting Initiative (GRI) compliance. GRI standards are the most widely recognized and used and as with the CSRD, emphasize the importance of materiality. Our first materiality assessment and matrix has been started and will be completed in 2022. Further details can be found in the following section.

For the fifth year in a row, Materialise operations are being assessed by EcoVadis, with results expected in the first half of 2022. We consider this to be another first step towards GRI and more specifically, independent assessment of our sustainability program.

Materialise is among the very few companies in our industry reporting in a consistent, structured way, always with a focus on improving and achieving best practices.



Materiality Assessment & Matrix

Continuing our journey towards GRI compliance, in 2021, Materialise began collaborating with the sustainability consultancy Sustenuto in the creation of a materiality assessment and matrix. The project started with industry benchmarking and a series of workshops, which included 25 internal stakeholders from a range of functions across our international operations. In the end, six priority materiality topics were identified:

- Carbon
- Diversity & inclusion
- Ecodesign & innovation for sustainability
- Employee engagement and wellbeing
- Material use efficiency & waste reduction
- Sustainable procurement

In Q1 of 2022, for the topics where it's still necessary, targets will be created. This will be followed by external stakeholder validation and completion of the materiality matrix. The results will form the foundation of our sustainability goals and reporting for 2022 and beyond.



OUR SUSTAINABILITY PRIORITIES

People: Fostering Opportunities for People to Grow & Thrive

Our ability to provide innovative solutions and applications relies on the talented people both within Materialise as well as those throughout our global supply chain. We owe our success to our people and one of our primary objectives is to ensure work environments where all employees feel safe and healthy, empowered to grow and thrive.

To effectively support our 2300+ workers in more than 20 countries worldwide, our people strategy is based on:

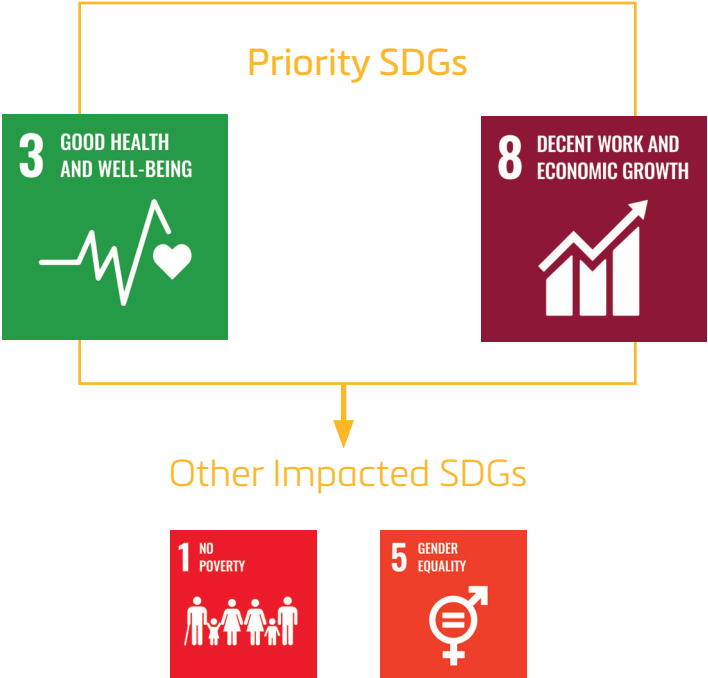
- Safe and healthy office and production facilities
- Employee policies to support diversity, inclusion and equality
- Training and development
- Wellness and lifestyle support
- Supply chain policy with rigorous Human Rights requirements and controls

In 2021, for the third consecutive year, Materialise completed the program to achieve certification for excellence in employee conditions by the Top Employer Institute. The Top Employer designation for Belgium, where our HQ is located, was awarded to us again in January 2022. As well, in 2021, our US office was recognized by Crain's Detroit Business as one of the '100 Cool Places to Work in Michigan', and our Malaysia office began the journey towards Great Place to Work certification.



Related UNGC Principles

PRINCIPLE 1	Businesses should support and respect the protection of internationally proclaimed human rights; and
PRINCIPLE 2	make sure they are not complicit in human rights abuses.
PRINCIPLE 3	Businesses should uphold the freedom of association and the effective recognition of the right to collective bargaining;
PRINCIPLE 4	the elimination of all forms of forced and compulsory labor;
PRINCIPLE 5	the effective abolition of child labor; and
PRINCIPLE 6	the elimination of discrimination in respect of employment and occupation.



SAFE AND HEALTHY OFFICES AND PRODUCTION FACILITIES

Ensuring a safe and healthy working environment is one of our top priorities and we consider health and safety to be a shared responsibility between employees at all levels within our global organization. At Materialise HQ, there is a committee for 'Protection and Prevention in the Workplace' which is comprised of representatives from both the general workforce and management and meets regularly to manage all concerns related to health and safety. For our international offices, the health and safety programs have been created according to local needs and requirements.

All Materialise offices and facilities around the world are safe, suitable and sanitary, and comply with local needs and legislation. In addition, as stated in our Code of Conduct, all employees are required to comply with all health and safety laws, regulations and policies relevant to their positions. We take this very seriously, and failure to comply can result in not just civil and criminal liability but also termination of employment.

When the COVID-19 pandemic hit, additional measures were introduced for those who couldn't work at home, including the installation of hands-free door openers, the distribution of 3D printed masks and hand sanitizer, and the creation of socially-distanced work areas, ensuring that the impact of the virus on our people was kept to a minimum. These measures were continued throughout 2021 as the pandemic persisted.

Our largest production facilities include those in Belgium, Germany, the Czech Republic and Poland. In 2021, out of a total of 487 production workers, there were 8 minor workplace accidents, a 20% decrease over 2020, and 1 more serious accident which resulted in long-term muscle damage, caused by a twisted foot. An investigation into the accident revealed that it was not connected to working conditions and was unfortunately not preventable.



Belgium HQ: 80% office workers, 20% production workers

	Total # of employees	# employees trained in first aid	# fire prevention officers	Total # of workplace accidents	Total # of work accidents resulting in death or serious injury	Total # of days of sick leave due to work accidents
2020	630	16	14	2	0	27
2021	627	17	14	2	1	234

Germany - AC Tech: 40% office workers, 60% production workers

2020	389	74	37	6*	0	330
2021	378	65	34	5*	0	60

Germany - Materialise: 80% office workers, 20% production workers

2020	116	7	0	0	0	0
2021	124	7	0	0	0	0

Czech Republic: 33% office workers, 67% production workers

2020	81	0	7	1	0	45
2021	67	0	8	0	0	0

Poland: 43% office workers, 57% production workers

2020	73	4	0	1	0	0
2021	76	3	0	2	0	0

*Accidents that occurred either at work or during the commute to/from work resulting in an incapacity to work for more than 3 calendar days and a report to the "Berufsgenossenschaft" trade association.

ANTI-HARASSMENT WORKPLACES

Materialise prohibits harassment based on race, color, religion, national origin, sex (including pregnancy), sexual orientation, age, disability, veteran status or any other characteristic protected by law, in any form, whether physical or verbal and whether committed by supervisors, nonsupervisory personnel or non-employees. Harassment may include, but is not limited to, offensive sexual flirtations, unwanted sexual advances or propositions, verbal abuse, sexually or racially degrading words, or the display in the workplace of sexually suggestive or racially degrading objects or pictures. Where harassment or discrimination is uncovered, prompt corrective action is taken, which may include disciplinary action by Materialise, up to and including, termination of employment.

In addition to the anonymous hotline connected to our Code of Conduct, free, confidential counselling and support is also available to all our worldwide employees. At our HQ in Belgium, this is provided through our internal Confidential and Prevention Advisors as well as the external company IDEWE. In our USA office, there is an Employee Assistance Program (EAP) available 24/7 provided by MetLife, and in 2021, a similar EAP was rolled out to our remaining offices via Pulso Europe.



EQUAL OPPORTUNITIES & DIVERSITY

With more than 2300 employees across 21 countries worldwide, Materialise embraces differences, respecting all people equally, and believes that a diverse workforce is crucial to our business success. As outlined in our Code of Conduct, we are committed to providing equal opportunity and fair treatment to all individuals on the basis of merit, without discrimination because of race, color, religion, national origin, sex (including pregnancy), sexual orientation, age, disability, veteran status or other characteristic protected by law. In 2019, as per one of our COP objectives for the year, we introduced a new anti-discrimination hiring policy, which we continued to roll out in 2021.

We do not participate in any form of forced or compulsory labor, including within our supply chains. Employees have the right and are free to join trade unions. Employees

must comply with all applicable labor and employment laws relevant to their jobs and are aware that a failure to do so can result in civil and criminal liability, and termination of employment.

In 2021, no complaints to our anonymous hotline were received and at Materialise HQ, which are our primary office and production facilities, 1% of our workforce had a disability, about 39% were women, and our approximately 630 employees represented 44 different nationalities. Looking on a worldwide basis, our +2300 employees represented over 57 different nationalities, and women represented about 37% of our workforce. For further details, please see the charts below.

Gender Diversity Materialise Worldwide

2020 2021



women in workforce

36% → 37%
+1%



women in people
management positions

37% → 37%
+0%



women on Director's
Committee

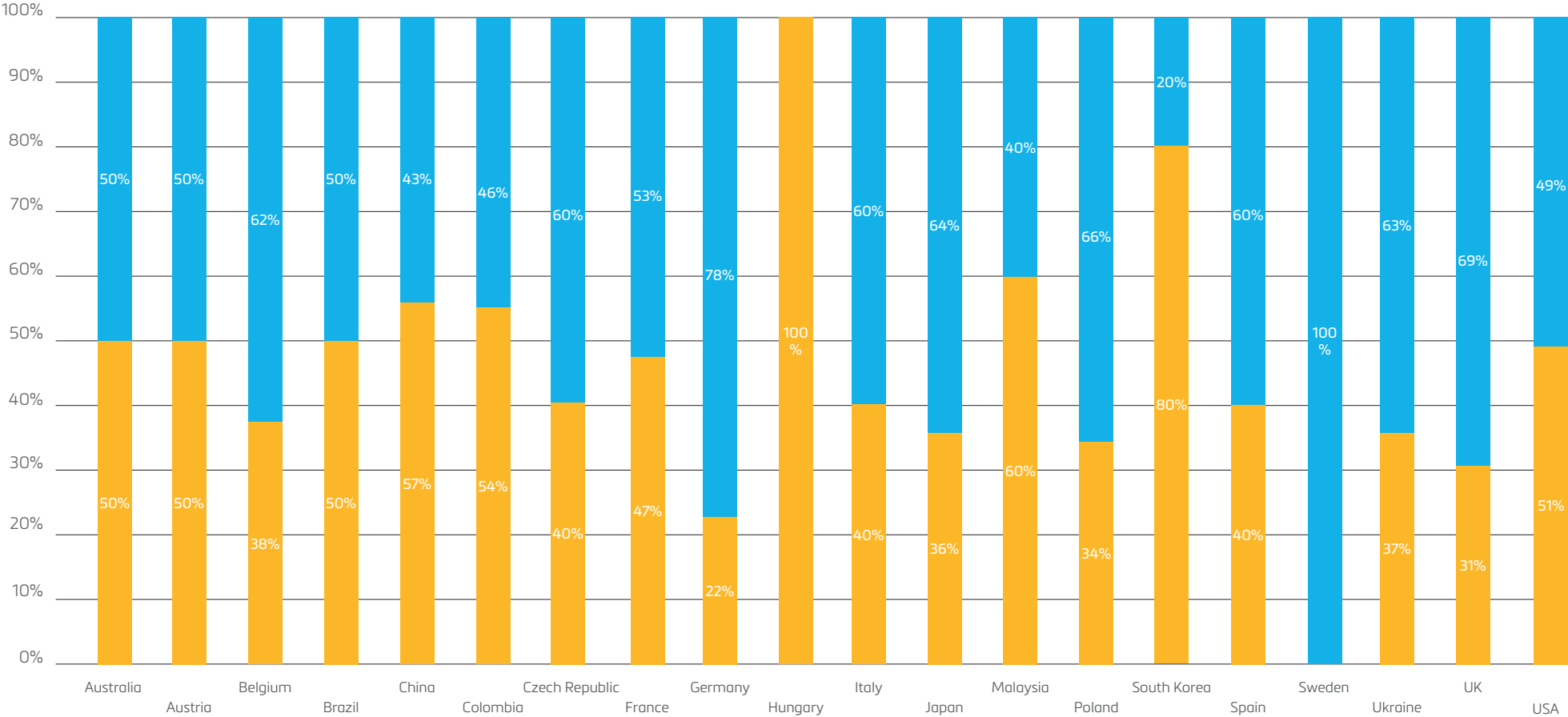
33% → 33%
+0%



women on Board of
Directors

20% → 20%
+0%

Gender Diversity Materialise Worldwide



COMPENSATION, TRAINING & DEVELOPMENT

Materialise has a formalized wage band system to ensure 'equal pay for equal work'. The system conforms to national legal standards and is regularly benchmarked against industry standards. This system is fully in place in our operations worldwide. In addition, based on local needs, more than 70% of our worldwide employees also benefit from additional medical insurance and retirement provisions.

The progress of our people is essential not just for the individuals themselves but also for our customers and our company as a whole. To ensure that all employees have the opportunity to shape their careers and grow and develop, Materialise has both a formal performance evaluation system, with evaluations occurring twice annually, as well as a comprehensive training program. In 2021, as the COVID-19 pandemic persisted and the world was still largely in digital mode, we made a number of significant changes, including:

- Ensuring that all our existing classroom trainings, as well as our training catalogue, were fully online.
- Launching LEAD, a new training program to support and develop upcoming and current people managers and help them learn how to best lead, support, guide and coach a team.
- Introducing LinkedIn Learning, a digital learning platform offering over 9000 training videos on a wide range of topics available 24/7.

In 2021, on a worldwide basis, approximately 47% of employees benefitted from our standard training courses/catalogue. This is down 10% over last year, however, at the same time, a separate 27% and 58% respectively participated in our new LEAD and LinkedIn Learning offerings.

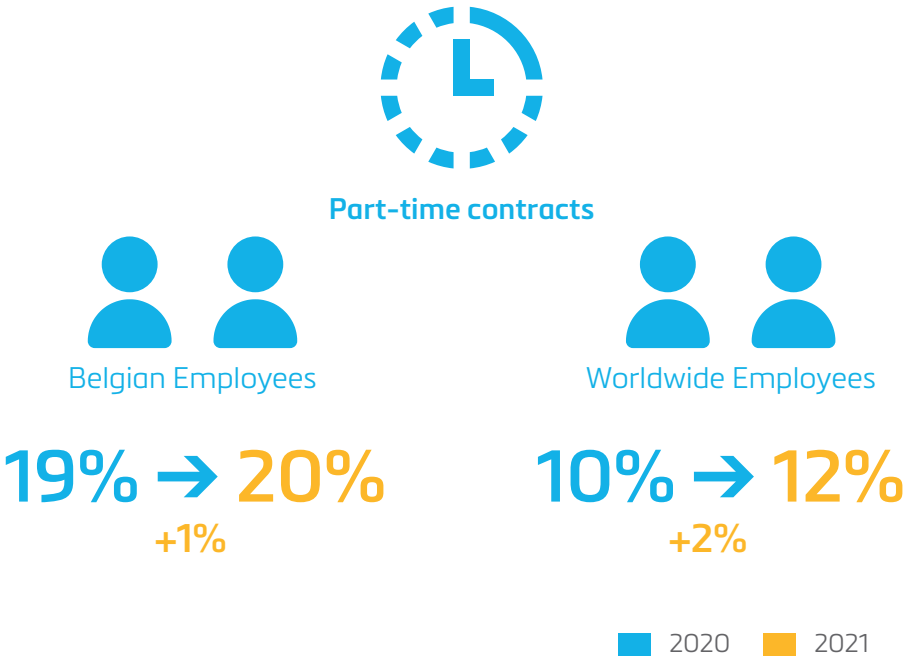


WELLNESS AND LIFESTYLE SUPPORT

At our offices around the world, Materialise normally offers a variety of programs to help employees live healthy lives. These initiatives frequently include no-smoking policies, fresh fruit deliveries, flu shots, a variety of sports classes, and bike leasing programs. In addition, our offices are equipped with kitchen facilities, fresh drinking water, tea and coffee. As in 2020, due to the COVID-19 pandemic, in 2021, digital solutions, such as online sports classes, remained the focus, and we expanded our hybrid work policy from a temporary to a permanent solution, enabling employees for whom homeworking is possible, to continue to choose the best ways to work, organize, collaborate, and balance their personal and professional lives.



Within our offices, additional measures remained on-site, including the installation of hands-free door openers, the distribution of 3D printed masks and hand sanitizer, and the creation of socially-distanced work areas. Spaces were also reorganized to better accommodate hybrid working. In addition, part-time contracts continued to be available to help support work/life balance.



SUPPLY CHAIN POLICY

At Materialise, we recognize that we owe our success not just to the workers who are direct employees, but also to those who are located all along our supply chains. Our global Supply Chain Policy includes Human Rights requirements to ensure that our suppliers respect internationally recognized human rights and strive to be aware of and act on any violations throughout their own supply chains. Each of our suppliers is assessed according to a risk matrix, and depending on the assessment, may be subject to additional controls. The latest version of our Supply Chain Policy can be found on our website at:

www.materialise.com/en/impact/research-reports-policies



Planet: Minimizing Environmental Impact & Supporting our World

The world is facing critical challenges connected to climate change. Protecting the planet is both our responsibility and a necessity. Seeking opportunities in every corner of our business and new ways to empower our customers and suppliers, our planet strategy is based on:

- Cutting our carbon footprint and committing to net zero
- Rethinking and reducing
- Managing our environmental impact
- Investing in research

Related UNGC Principles

PRINCIPLE 7	Businesses should support a precautionary approach to environmental challenges;
PRINCIPLE 8	undertake initiatives to promote greater environmental responsibility; and
PRINCIPLE 9	encourage the development and diffusion of environmentally friendly technologies.



CUTTING OUR CARBON FOOTPRINT

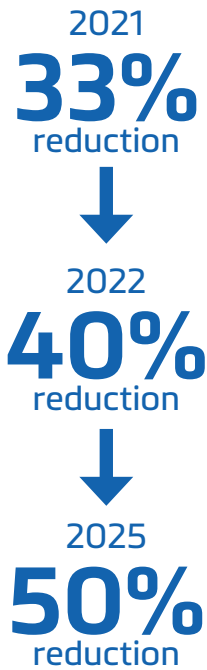
In 2021, we completed our fourth consecutive Carbon Footprint assessment for Materialise operations worldwide. The assessment followed the Greenhouse Gas (GHG) protocol guidelines for clarifying the origin of emissions and for reporting purposes, and the Bilan Carbone protocol for categorizing emission flows

Carbon Emissions in thousands of tonnes, Materialise Worldwide:

	Scope 1	Scope 2	Scope 3	TOTAL
2017	0.9	3.7	10.7	15.3
2018	1.4	5.5	12.7	19.6
2019	1.4	6.1	12.8	20.3
2020	1.1	3.2	5.8	10.1

Our 2020 results show extremely low Scope 3 emissions due to the COVID-19 pandemic and its severe impact on our air travel. Recognizing this as an exceptional circumstance, in 2021, we continued to follow earlier assessment conclusions which identified Scope 3 (travel), and Scope 2 (electricity) emissions as being the largest contributors to our footprint, and launched a new Sustainable Travel Policy and Carbon Budget, and continued to convert our worldwide operations to green energy. According to preliminary results, as of the end of 2021, we had achieved a 33% reduction in our greenhouse gas emissions (over 2019) and 94% of our energy consumption came from green sources.

In 2022, we will continue rolling out our new Travel Policy and Carbon Budget to our worldwide offices and investigate other solutions for those offices where green energy suppliers are not an option. We are on track to reach a 40% reduction in our greenhouse gas emissions (over 2019) by the end of 2022, and by 2025, we will cut our 2019 greenhouse gas emissions from our worldwide operations by 50%. Given the current growth expectations of Materialise, this is an ambitious goal.



Our SBTi and Net-Zero Commitment

In 2020, Materialise joined the Belgian Alliance for Climate Action (BACA) and in 2021, as an extension of this membership, we signed and submitted the 'Business Ambition for 1.5°C Commitment Letter' to the Science Based Targets initiative (SBTi) and joined the UN Race to Zero. We now have until September 28, 2023, to develop, submit and have science-based targets validated by the SBTi.

By signing this letter, we have committed to aligning our climate mitigation targets with the most ambitious aim of the Paris Agreement and to what science dictates is necessary to reduce the destructive impacts of climate change on human society: to reach net-zero global emissions by 2050 at the latest in order to limit global warming to 1.5°C.

Committed
member
of
the

**Belgian
Alliance** for
**Climate
Action**



RETHINKING & REDUCING

By rethinking our production and consumption habits, we can minimize waste in all its forms – time, energy, material – and increase reusing and recycling. One of our goals is to streamline our processes and through dynamic collaboration and innovative products, support our customers to do the same.

In 2021, our engineering team completed a series of conceptual studies on how to make our packaging more sustainable – by making it smaller, using less material, and using material that can be recycled. In 2022, the findings will be implemented.

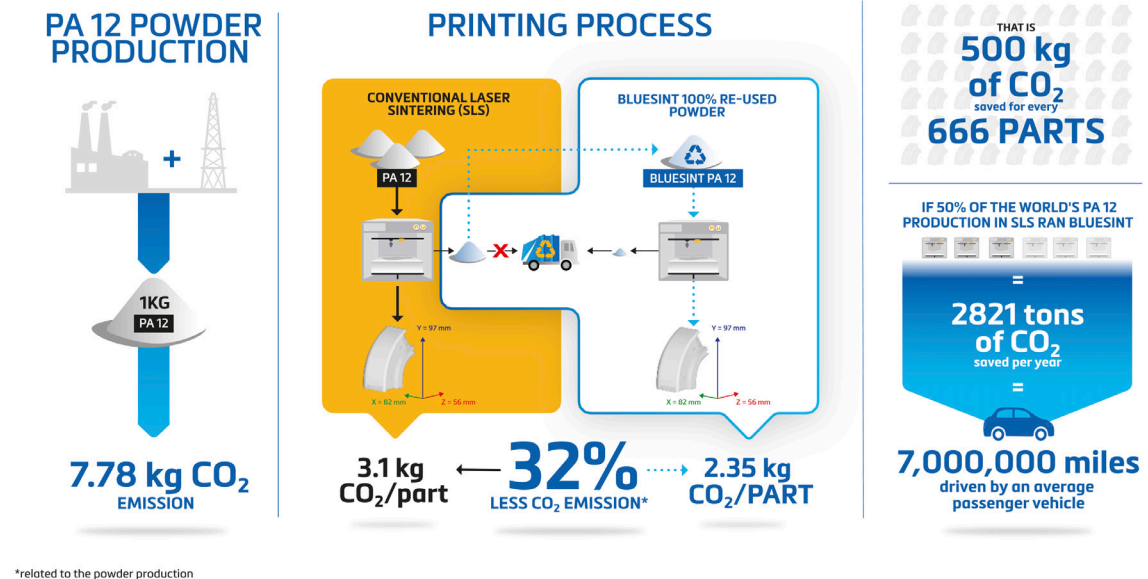
At our ACTech operations in Germany, in 2021, the 3000 tons of annual foundry sand waste was, for the first time, 100% upcycled and used as building material for bricks. This represents a 90% reduction in total waste in terms of total waste weight. And in the ACTech Furan printing process, which is our major mold technology, there was a 10% increase in the reuse of printing sand, taking the recycled sand share up from 30% to 40%.



Also in 2021, after years of research and the completion of a beta program, we fully commercialized our Bluesint PA12 innovation which creates a pathway for eliminating waste in the 3D printing process. Standard PA12 powder is the most widely used 3D printing material. Specifically, in the technology of laser sintering, the Bluesint process makes it possible to print with 100% re-used powder, resulting in a 32% reduction in carbon emissions (related to powder production), and drastically increasing resource efficiency. Bluesint PA12 joins a range of Materialise manufacturing and software innovations which support sustainability, (see chart on next page).

At Materialise, the standard PA12 material that is not used in our Bluesint technology is rejuvenated, requiring only a fraction of the energy that would be required to produce new powder, and reenters our production stream. And as of 2021, any standard PA12 material that can no longer be used in Bluesint or rejuvenated and used in our regular production processes is downcycled, eliminating our PA12 powder waste in all our primary 3D printing production facilities.

REDUCING CARBON FOOTPRINT OF 3D PRINTING WITH BLUESINT



Supporting Sustainability: Materialise Manufacturing & Software Innovations

TYPE OF PRODUCT/SERVICE	MATERIALISE PRODUCT/SERVICE	SUSTAINABILITY BENEFITS
Co-creation, consultancy, design, and engineering services	Mindware and design & engineering services	<ul style="list-style-type: none"> Optimizing processes and reducing waste Designing integrated vs. multi-component parts to minimize assembly and reduce energy consumption Identifying (spare) parts for AM to reduce stock & implement order-on-demand Developing new products to address environmental and/or societal issues Innovating new streamlined business models
Localised small/complex series manufacturing	Certified Additive Manufacturing services using green energy	<ul style="list-style-type: none"> Enabling the production of sustainable solutions that couldn't be produced otherwise Reducing carbon footprint and climate related impact as compared to traditional manufacturing techniques
Sustainable manufacturing materials	Bluesint PA12 Bioplastic PA11	<ul style="list-style-type: none"> Reducing Laser Sintering powder waste and CO2 emissions by 32% (PA12) Reducing CO2 emissions from Laser Sintering powder production by about 50% (PA11 as compared to standard PA12)
Mold production for prototype/small batch casting	ACTech 3D Furan sand mold printing	<ul style="list-style-type: none"> Reducing sand waste by printing with 40% used sand
On demand production services and software	OnSite, i.materialise Magics Storefront	<ul style="list-style-type: none"> Reducing stock risk and waste
Cloud-based software	Magics Suite Process Tuner	<ul style="list-style-type: none"> Optimizing computer hardware usage
Digital planning and production software	Streamics Magics Storefront	<ul style="list-style-type: none"> Enabling local production, streamlining processes, and reducing waste
Advanced process control software	Materialise Control Platform (MCP) Process Tuner	<ul style="list-style-type: none"> Increasing resource efficiency of 3D printing Reducing machine and engineering time, and scrap rates
Software simulation tools	Magics Suite Process Tuner	<ul style="list-style-type: none"> Reducing waste and energy consumption via fewer physical prototypes and build failures, and improved quality
Lightweight design and production software	3-matic	<ul style="list-style-type: none"> Optimizing components to reduce weight and waste, for example fuel consumption in aerospace

ENVIRONMENTAL MANAGEMENT SYSTEM



As previously mentioned on page 11, Materialise runs a company-wide environmental management system (EMS) that seeks to understand and above all minimize our effect on the environment. With this policy in place at our headquarters in Belgium, in our ACTech operations in Germany, and as of 2021 at our Polish facilities, and our ISO 14001:2015 certificates, we are making a commitment to protect the environment and to comply with European environmental legislation, regulations and customer-specific requirements in all our operations, processes and services.

Materialise employees receive environmental awareness training and are actively encouraged to participate in our EMS. To ensure engagement, compliance, and continuous improvement, every year, we set relevant targets, measure, review and report our performance. For example, at Materialise HQ, in 2021:

- Water consumption, which was reduced by the COVID-19 pandemic but still played an important role in our production, dropped from 19.9 liters per day per full-time employee in 2019, to 13.5. Under normal circumstances, the expected consumption level is 25-35 liters/day/employee (based on an average Belgian company).
- 35% of employees used a bicycle for all or part of their commute. This is down 11% from pre-Covid levels.
- Our continued focus on quality further ensured waste production was minimized.

- Our 1051 solar panels generated over 227,000 kWh of energy, up about 30% over 2020.
- About 300m² of our property was converted into flower meadows and an additional 1500 bulbs and 50 bushes and trees were planted to support birds and bees and promote biodiversity. In addition, in 2021, we began to expand our biodiversity program internationally. At our Polish facility, 86 bushes were planted and in one of our French offices (Valence) 13, with more planned for 2022.

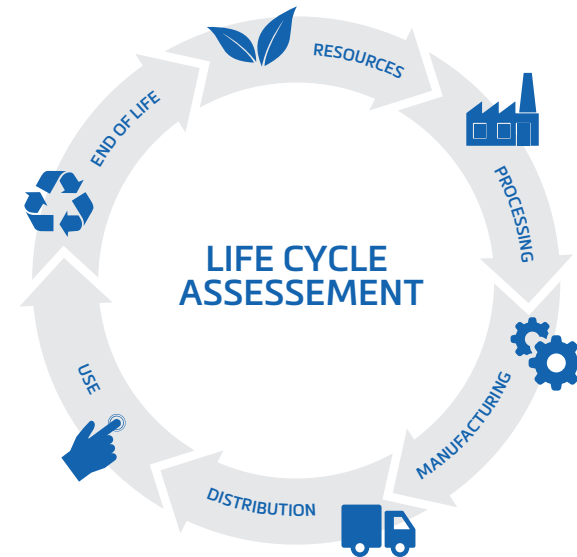
As well in 2021, for the fifth year in a row, EcoVadis began assessing Materialise operations worldwide. The results are expected in the first half of 2022. In 2020, we were awarded a silver medal for our ACTech operations and a bronze medal for our remaining facilities in recognition of our EcoVadis CSR rating, putting us in the top 50% of all the companies they rank.



LIFE CYCLE ASSESSMENTS

At Materialise, we recognize that research is critical in clarifying our impact and ensuring that we invest in the most relevant innovation and technologies to make the 3D printing process more sustainable.

In 2021, we continued to add to our research portfolio, and with the support of KU Leuven university and Arkema, began another Life Cycle Assessment (LCA), this time for eyeglass frames, comparing two materials – standard PA12 against bio-based PA11 – and assessing the environmental impact in all stages of the product life. In 2021, we also began scoping an LCA for medical implants which will assess both the environmental and social impacts throughout the life of the product. Both studies will be completed in 2022.



SUPPLY CHAIN POLICY

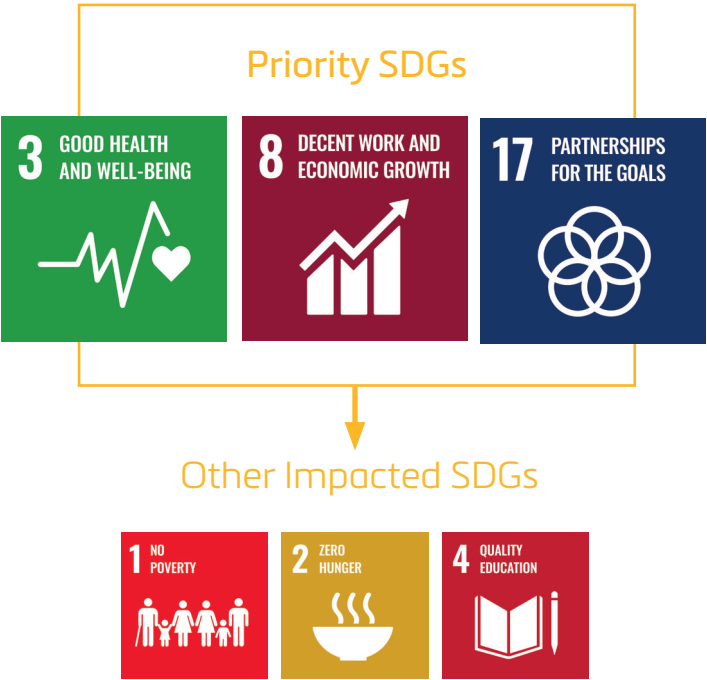
Our Supply Chain Policy requires that our suppliers be accountable for both their own impact as well as the impact of their supply chains on not just society and the economy, but also on the environment. Our suppliers should be transparent in any decisions or activities that impact the environment and be able to demonstrate this transparency through their management systems. We encourage a focus on continual improvement. This includes seeking more sustainable alternatives for existing needs and integrating sustainability into all existing procurement practices to maximize sustainable outcomes.

Prosperity: Building a Just, Inclusive & Healthy Society

At Materialise, we recognize the important role we play, not just in relation to our workers and the environment, but also to the communities around us and those in which we operate. We are committed to helping create a more just, inclusive, and healthy society. And we are also committed to sharing our know-how, technology and resources to empower meaningful, sustainable change.

Related UNGC Principles

Principle 10	Businesses should work against corruption in all its forms, including extortion and bribery.
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SUPPORTING HEALTHCARE

Around the world, healthcare systems influence enormously the wellbeing of billions of men, women, and children. At Materialise, we have a profound understanding of the critical role these systems play in keeping our communities strong, healthy, and happy. With our 3D expertise, we aim to provide support via a sustainability strategy focused on:

- Getting it right the first time
- Helping patients who have no other options
- Providing solutions for lower income populations

Getting It Right the First Time

Materialise is recognized as a pioneer and world leader in personalized medical devices. These devices include shoulder, hip, knee, osteotomy, and cranio-maxillo facial (CMF) surgical guides and implants all designed and 3D printed based on the anatomical data of the patient. In other words, they are specifically designed to accurately fit.

As one of the first companies to introduce virtual surgical planning and personalized solutions into the operating room, and helping patients and surgeons all over the world, we have seen firsthand the impact personalized medicine can have. By adding more predictability into the surgical setting, it can enable surgeons to get it right the first time, helping to reduce the number and duration of treatments, improving lives, saving

costs*, benefitting society and the environment through reduced travel and hospital stays, and freeing up valuable healthcare resources, which can then be redirected to others in need. In total in 2021, we printed almost 50,000 personalized medical devices and implants. By 2024, we aim to be helping 80,000 patients per year.

Also in 2021, Materialise partnered with the Chinese company Zhenyuan (Tianjin) Medical Appliances Technology to create a new lung cancer planning software. China is the country with the highest cancer-related death rate and a lung cancer rate of more than 35 cases per 100,000 residents[^]. The new 3D planning software will provide a 3D visualization of the lung and can help thoracic surgeons identify candidates for lung segmentectomies^{^^}, accurately visualize their patient's unique anatomy, and create a personalized surgical plan to best treat their unique case. By providing a more accurate view of the tumor size, the software could support the surgeon to remove the full tumor (no more, no less) and potentially get it right the first time. As a result, the patient may experience a better outcome, with additional surgeries possibly avoided. The new lung cancer planning software joins a range of Materialise medical products which support sustainability (see chart on page 39).

* Tack P, et al. Do custom 3D-printed revision acetabular implants provide enough value to justify the additional costs? The health-economic comparison of a new porous 3D-printed hip implant for revision arthroplasty of Paprosky type 3B acetabular defects and its closest alternative. Orthop Traumatol Surg Res (2020), <https://doi.org/10.1016/j.otsr.2020.03.012>

[^] World Health Organization, International Agency for Research on Cancer, <https://gco.who.int/>, consulted on November 22, 2021.

^{^^} Segmentectomy is a minimally invasive surgical technique to remove lung tumors which allows surgeons to save significantly more unaffected lung tissue compared to traditional procedures. Since segmentectomy is considered to be a technically challenging technique, it is dependent on accurate visualizations of the patient's unique anatomy.

L-102602

Helping Patients Who Have No Other Options

In addition to getting it right the first time, personalized medicine can also allow for the treatment of even the most challenging clinical conditions. With the latest technological developments in both the devices and advanced surgical planning, it can make previously impossible cases, possible, and patients who were denied treatment due to the limitations of standard care, can benefit, even leading in some cases to a drastic improvement in the quality of life.

In 2021, Materialise supported surgeons with surgical planning expertise and 3D devices and technology to conduct the world's first face and hands transplant. After a car crash left the 22-year-old patient with third-degree burns over 80% of his body, the transplant procedure gave him a second chance at life. For further details:

www.materialise.com/en/blog/3d-technology-double-hand-face-transplant

In total, in 2021, Materialise printed +5000 personalized surgical implants, an increase of +40% over 2020. Going forward, we aim to make our tools more and more user friendly and accessible to clinicians and surgeons and expand our reach to help more and more patients.

Providing Solutions for Lower Income Populations

Materialise is also focused on making personalized medical solutions more accessible to hospitals and people in developing and more remote areas. 3D printing and technology has a significant role to play in delivering care to lower income groups where standardized care is not sufficient or available, and funding is limited.

In 2021, in Brazil, the Materialise company Engimplan continued offering its Bucoplan Essential product for facial reconstruction, trauma, corrective jaw and other related surgeries. Adapted from the original Bucoplan product line and launched in 2020, it aims to provide an affordable solution to the Brazilian public health system, while still maintaining high-quality functionality, and to improve accessibility to those with lower incomes.

Also in 2021, Materialise expanded its program to bring personalized solutions closer to or at the point-of-care (POC) by continuing to assist with implementing 3D printing services directly in hospitals and medical centers. Having a dedicated facility in-house can expand access to the technology, as well as lower overall costs, making it more affordable. POC services can also support innovation initiatives, reduce lead times, and by eliminating the need for shipping, reduce carbon emissions. As of the end of 2021, more than 450 hospitals around the world had implemented 3D printing at the point-of-care with Materialise software and services.



Supporting Healthcare: Materialise Medical Innovations

TYPE OF PRODUCT/SERVICE	MATERIALISE PRODUCT/SERVICE	SUSTAINABILITY BENEFITS
Personalized medical devices	Genius aMace Bucoplan CMF personalized solutions	<ul style="list-style-type: none"> First time right surgery which can lead to fewer revision surgeries and a better patient outcome Reducing the need for multiple implants in the operating room: lowering waste and avoiding resterilisation
Personalized medical instrumentation	Knee guides CMF guides	<ul style="list-style-type: none"> Supply chain optimization: shipping only what's needed and reducing stock in hospital The surgery time can be reduced up to 13 minutes* with knee guides when compared to using only conventional instruments Up to 75% instrument reduction in the operating room
Software for 3D printing at the point of care	Mimics Innovation Suite Mimics Imprint	<ul style="list-style-type: none"> Enabling the production of devices such as anatomical models at or close to the point of care lowering the carbon footprint of transportation Provides people in more remote areas with access to the technology and makes personalization more affordable
Virtual surgical planning	SurgiCase Shoulder Planner SurgiCase Knee Planners Lung Cancer Planning Software	<ul style="list-style-type: none"> Reduces materials stock by not having to always print 3D models Helps surgeons to decide on which device fits best before surgery or intervention, reducing stock in the operating room
Cranial implants with porous structures	Materialise 3D Printed Titanium Implants	<ul style="list-style-type: none"> Provide an optimized design while reducing materials
Virtual patient services	Adam	<ul style="list-style-type: none"> Accelerating R&D and reducing the amount of pre-clinical studies by predicting in vivo performance and safety of a device
Anatomical Models		<ul style="list-style-type: none"> Clearer insights in surgical planning which can lead to reduced time in the operating room, increased patient safety and shorter hospital stays. Using AR or VR digital models can provide a better view on patient anatomy and reduce waste – a physical print is not required

*Pietsch M., Djahani O. et al (2012) Custom-fit minimally invasive total knee arthroplasty: effect on blood loss and early clinical outcomes. Knee Surgery, Sports Traumatology, and Arthroscopy 36.

CHARITABLE ACTIVITIES

A key part of our sustainability program involves supporting NGOs, non-profits, and grassroots initiatives around the world, focusing on projects that engage our people and/or technology to improve lives and empower meaningful, sustainable change. Below are two of our key projects from 2021.

Benin Summer School

One of our long-standing initiatives, created in collaboration with the Foundation Hubi & Vinciane, the Benin Summer School project aims to improve the education levels and employment opportunities for less advantaged teenagers in West Africa by providing them with the opportunity to access higher education scholarships and potentially go on to positions that will enable them to contribute to their communities. Every year, volunteers from Materialise HQ travel to Benin to provide mentorship to the participants. To date, since the program's inception in 2012, 158 students have participated and 27 have received scholarships.



Maggie Shelters

In 2021, Materialise supported the non-profit organization Maggie Program in the creation of their Maggie Shelters which provide the benefits of a permanent building in areas where only temporary solutions are possible. These shelters help those who were forcefully displaced from their homes due to war, persecution, or natural disasters, and enable access to proper education, healthcare, community centers and temperature-controlled warehouses. Via our new, Bluesint PA12 innovation, Materialise created necessary shelter components that couldn't be created cost-effectively otherwise, and in doing so, not only addressed an urgent need but also reduced the CO2 emissions of each Maggie Shelter by 48kg – the amount of CO2 absorbed by four trees over an entire year.



www.materialise.com/en/impact/people/social-engagement

ANTI-CORRUPTION

Materialise has a zero tolerance policy with regards to any form of corruption, extortion, or bribery. Our Supply Chain Policy, as outlined on page 12, requires that our suppliers behave ethically and promote ethical behavior throughout their supply chains. And as mentioned on page 9, our Code of Conduct & Ethics clearly outlines our guidelines for doing business consistent with the highest standards of business ethics. All employees, directors, officers, and consultants are expected to adhere to these standards. Failure to do so will result in appropriate discipline, which may include civil damages, criminal fines, and termination of employment or removal from our board.

The specific areas that our Code covers include, but are not limited to: Conflicts of Interest, Insider Trading, Relationships with Suppliers, Relationships with Customers, Gifts and Entertainment, Financial Reporting, Compliance with Laws and Regulations including Laws Covering Bribery & Kickbacks, and Government Interactions. Our Code is publicly available at: investors.materialise.com/governance-documents and employees can anonymously report any suspected incidences of corruption to the already mentioned hotline.



Partnerships & Certifications : Working together to create a meaningful difference

17 PARTNERSHIPS
FOR THE GOALS



At Materialise, we believe partnerships are critical to making a meaningful difference, significant change can't be made in isolation, and we collaborate with numerous organizations around the globe to achieve our sustainability objectives.

African Drive



A spin-off of the Benin Summer School, an initiative Materialise and the charity Hubi & Vinciane created to offer mentorship to young West African entrepreneurs, African Drive aims to create positive economic and social impact in countries with poor global infrastructure and few formal economic activities. It is the first B Corp in West Africa. Materialise provides expertise, as well as technological and financial support to African Drive projects.

www.africandrive.be

Arkema



In 2021, Materialise collaborated with KU Leuven university and Arkema on sustainability focused research, specifically a Life Cycle Assessment (LCA). For further details, please see page 35. Building on its unique set of expertise in materials science, Arkema offers a portfolio of first-class technologies to address ever-growing demand for new and sustainable materials.

www.arkema.com

AMGTA



Not long after the Additive Manufacturer Green Trade Association (AMGTA) launched in 2019, Materialise joined as a participating member. The AMGTA is a non-commercial, unaffiliated organization open to any additive manufacturer or industry stakeholder that meets certain criteria relating to sustainability of production or process, and aims to promote the environmental benefits of AM over traditional methods of manufacturing.

www.amgta.org

BACA



Recognizing that organizations have a major role to play in addressing the climate crisis, Materialise was among the first to join the Belgian Alliance for Climate Action (BACA). Formed by WWF and The Shift, BACA serves as a platform and support for companies that are serious about their climate ambitions and champions the setting of 'science-based' targets to reduce greenhouse gas emissions.

www.belgianallianceforclimateaction.org

BASF



In 2019, Materialise began collaborating with strategic partner BASF on sustainability focused research, specifically Life Cycle Assessments (LCAs). In addition to being the world's largest chemical producer, BASF is a recognized leader in the field of sustainability.

www.basf.com

Hubi & Vinciane



One of the official charities of choice of Materialise, Hubi & Vinciane partnered with Materialise to create the Benin Summer School project which provides mentorship to young West African entrepreneurs, as well as university scholarships and support for initiatives that stimulate the local economy and social progress.

www.hubi-vinciane.be

B Corp



In 2020, Materialise began its journey towards B Corp certification with two in-house B Leaders. After completing the initial prescreen process, we changed our company Articles of Association to lock our company mission and ensure all stakeholders are considered. Certified B Corporations are businesses that meet the highest standards of verified social and environmental performance, public transparency, and legal accountability to balance profit and purpose.

www.bcorporation.net

KU Leuven University



Materialise has a long-standing relationship with KU Leuven university, including collaborating on numerous projects such as our first Carbon Footprint Assessments. KU Leuven is the largest university in Benelux.

www.kuleuven.be

EcoVadis



EcoVadis is the only universal sustainability ratings provider and the world's largest, creating a global network of more than 85,000 rated companies. Materialise joined the EcoVadis platform in 2017 and in 2021, they awarded us a bronze medal for our EcoVadis CSR rating, putting us in the top 50% of all the companies they rank. Our results for 2021 are pending and expected in the first half of 2022.

www.ecovadis.com

Leuven 2030



Materialise is a supporting member of Leuven 2030. Leuven 2030 is a non-profit organization focused on creating a climate-neutral future for the city of Leuven, Belgium where Materialise HQ is located. With similar ambitions, we regularly work together, sharing knowledge and serving as sparring partners.

www.leuven2030.be

The Shift



Materialise has been a member of The Shift since 2017. Originally the local chapter of the UN Global Compact, The Shift today is the Belgian meeting point for sustainability, and in collaboration with its members and partners, aims to bring about the transition towards a more sustainable society and economy.

www.theshift.be

Top Employers Institute



In January 2021, for the second consecutive year, Materialise became one of only 72 companies in Belgium to receive 'Top Employer' certification, awarded by the Top Employers Institute. The Top Employers Institute is considered the global authority on recognizing excellence in people practices.

www.top-employers.com

SIGN Fracture Care



The official charity of choice of our US office, SIGN gives the injured poor access to fracture surgery by donating orthopaedic education and implant systems to surgeons in developing countries.

www.signfracturecare.org

Sustenuto

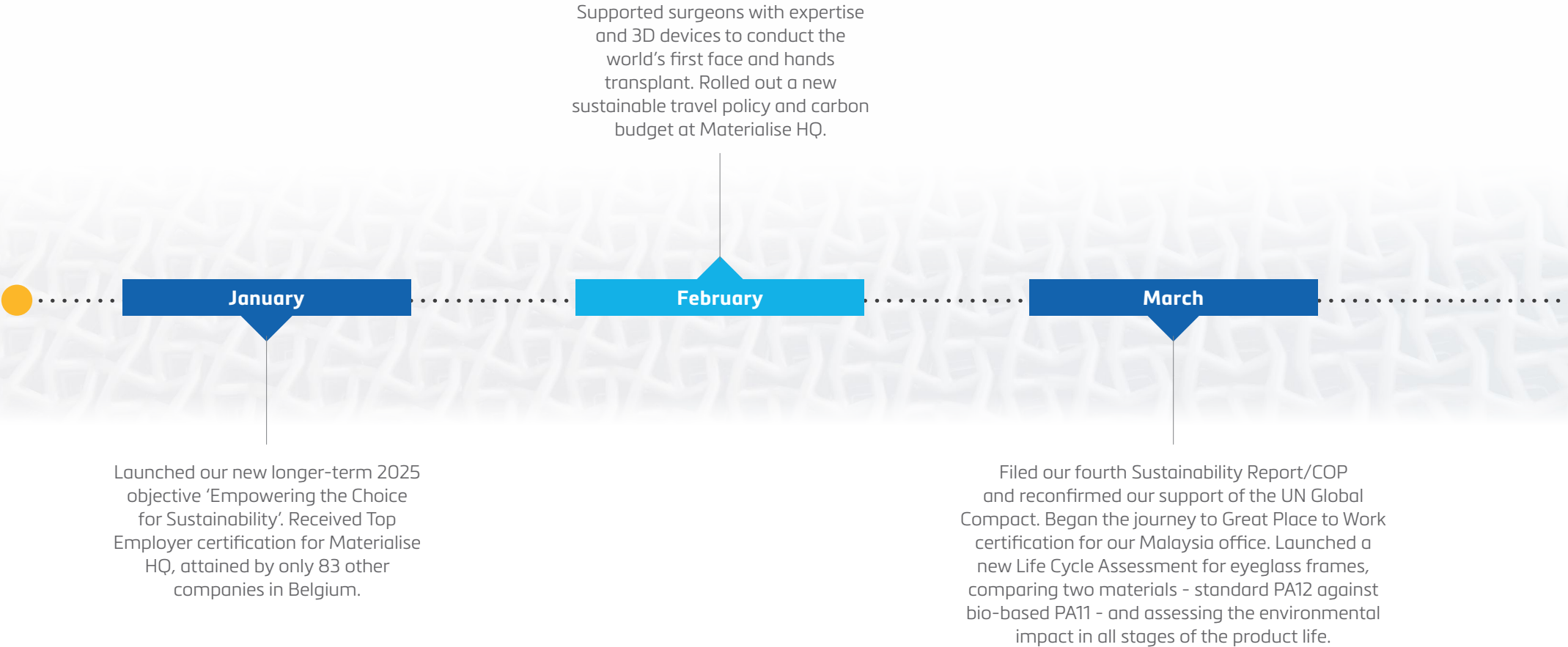


In 2021, Materialise began collaborating with the strategic consultancy Sustenuto on the development of a materiality matrix and sustainability roadmap. Sustenuto specializes in helping companies integrate sustainability into the core of their organizations, products and brands.

www.sustenuto.com



2021 Highlights



Added new sustainability ambassadors in our Brazil office. Fully commercialized our Bluesint PA12 technology, creating a path for eliminating waste in the 3D printing process.

April

Collaborated in the creation of Maggie Shelters, helping those who were forcefully displaced from their homes due to war, persecution, or natural disasters, and enabling access to proper education, healthcare, community centers and temperature-controlled warehouses.

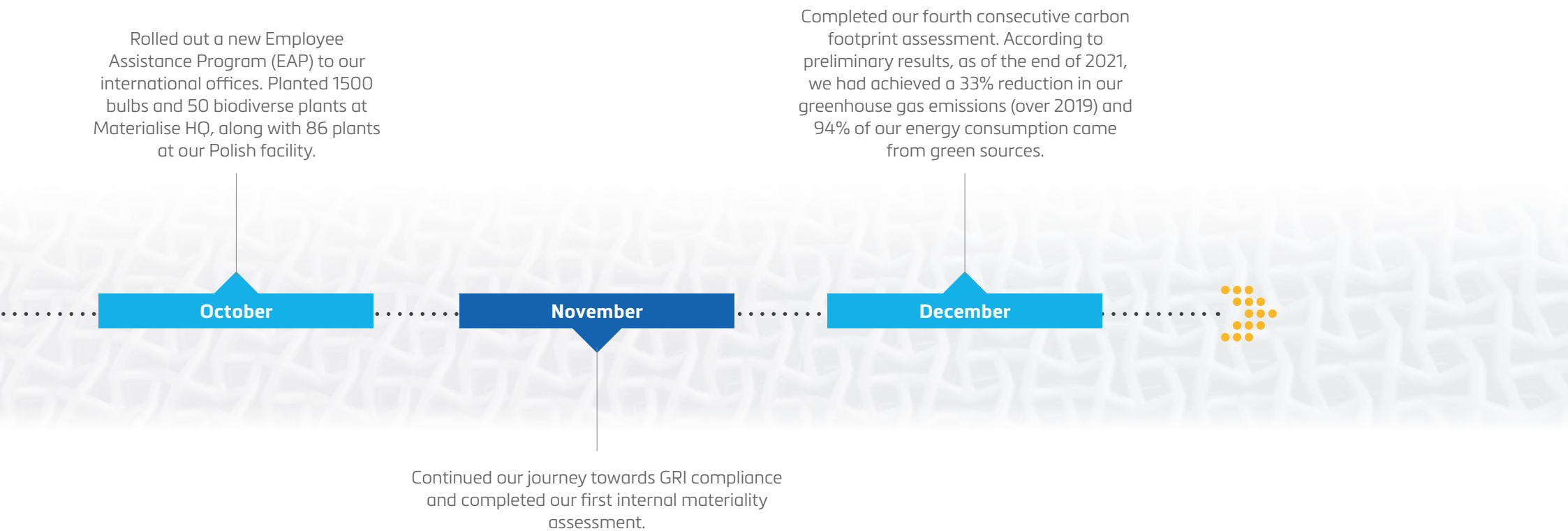
May

Expanded our downcycling program to our Polish facilities, eliminating standard PA12 powder waste in all our primary production sites. Completed the expansion of our ISO 14001 certification to our Polish facilities. Launched new hybrid work policy.

June - August

Signed and submitted the 'Business Ambition for 1.5°C Commitment Letter' to the Science Based Targets initiative (SBTi) and joined the UN Race to Zero. Added sustainability ambassadors in our Japan office, expanding our sustainability team to 22 worldwide members.

September



2022 Objectives

For 2022, we will continue to build on the foundation that was laid in preceding years and put further focus on our new longer-term 2025 objective 'Empowering the Choice for Sustainability'.

In this context, our 2022 objectives include but are not limited to:

- Complete our first materiality assessment and matrix and create a new sustainability roadmap and targets.
- Continue expanding our sustainability team to include representation from all business units and offices worldwide.
- Roll out our new sustainable travel policy and carbon budget to our international offices. Conduct our fifth annual Carbon Footprint Assessment. Achieve a 40% reduction in our greenhouse gas emissions (over 2019) by the end of 2022.
- Further invest in sustainability research, specifically Life Cycle Assessments. Launch our new sustainable packaging project.
- For the third consecutive year, complete the program to achieve Top Employer certification for our headquarters in Belgium. Attain Great Place to Work certification for our Malaysia office.
- Continue to evolve our non-financial reporting and our move towards GRI compliance.
- COVID-19 permitting, launch new charitable initiatives worldwide which are focused on sustainable solutions.



2021 Sustainability Report

Communication on Progress (COP)

For more information, please contact us at:
sustainability@materialise.com

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