

Q4 2023

# POSITIVE IMPACT COMPANIES

**US Sustainable Equity Strategy** 





## Approach to company selection

Investment principles lead the Janus Henderson Global Sustainable Equity Team to invest in businesses that have a positive impact on society and the environment by virtue of the products or services sold, and by the way in which operations are managed, thereby supporting the United Nations Sustainable Development Goals (UN SDGs). The team believes the sustainability challenge is captured by four megatrends which are putting enormous pressure on the global economy: population growth, the ageing population, resource constraints and climate change.

The team uses a thematic framework to identify those businesses that are strategically aligned with these four megatrends and, by virtue of this, offer the potential for sustainable revenue growth.

There are two sides to sustainable investing. We believe it is equally important to avoid investing in companies whose products or services negatively impact the environment or society and which are contrary to the UN SDGs."

Hamish Chamberlayne, CFA

Head of Global Sustainable Equities | Portfolio Manager

For this reason, the team has made a conscious decision to avoid direct investments in fossil fuels, tobacco, weapons, alcohol, meat and dairy production, fast food and sugary drinks, toxic chemicals and fur. It is an unfortunate truth that many of the world's largest companies have products that are contrary to the development of a sustainable economy. Many consumer brands manufacture food and drink products that contribute to poor human health and

environmental destruction: sugary snacks and drinks contribute to rising rates of obesity and heart disease; snacks and cosmetics often contain palm oil from unsustainable sources; while cattle farming has an extremely high negative environmental impact (with cattle feed production contributing to deforestation, excessive pesticide and fertiliser application, and unsustainable fresh water use). Many cosmetic companies test their products on animals even though we believe it is no longer necessary, and some well known companies support the fur trade. Chemical companies produce chemicals that are banned in certain jurisdictions or that are on non-governmental organisations' (NGOs) lists of concern.

Yet there are plenty of companies that have come to recognise that a sustainable approach to delivering goods and services and providing solutions to social and environmental problems can be a profitable enterprise.

The following pages introduce companies with an explanation of the positive environmental and/or social impact that the team has identified and the primary and secondary (where applicable) themes for each company.

#### Positive impact companies -

- These are companies identified as providing products or services that contribute in a beneficial way to the environment and/or society.
- 2. The manager believes this type of investing promotes a responsible economy, supporting sustainable industry.
- 3. The manager's view is that these types of companies confront the challenges posed by key megatrends: climate change, resource constraints, population growth and ageing populations.

## Four megatrends



RESOURCE CONSTRAINTS



CLIMATE



POPULATION GROWTH



AGEING POPULATION

**ENVIRONMENTAL** 

Efficiency
Cleaner energy
Water management
Environmental services
Sustainable transport

10 THEMES

A LOW-CARBON PORTFOLIO SOCIAL

Sustainable property & finance
Safety
Quality of life
Knowledge & technology
Health

## Positive impact case study: Mastercard

Mastercard operates a global payment processing network in more than 200 countries, connecting customers, financial institutions and businesses. Its mission is to make payments safe, simple and smart and it is regarded as a leader in the field of electronic payments innovation. There are many benefits to the electrification of payments including security, convenience and also economic development and financial inclusion. Mastercard has numerous initiatives around the world focused on providing affordable financial services programmes to promote inclusive growth. In 2020, it met its goal of bringing 500 million people into the digital economy.

Sustainable Property & Finance: 100%

SUSTAINABLE PROPERTY



Source: Mastercard

Since the creation of the first online payment systems in the 1990s, the digitalisation of payments has been revolutionising transacting and, with it, the global economy. With its low costs, real-time transactions, and remote payment options, digital payments provide users with a practical and convenient alternative to the constraints associated with physical currency, significantly enhancing the efficiency of financial transactions. According to one study by the Boston Consulting Group, transitioning fully to digital payments could lead to around 1% GDP growth in developed nations and as much as 3% in developing nations through reducing the inefficiencies associated with cash transactions<sup>1</sup>.

Besides efficiency, digital payments come with a myriad of other advantages, including security. Advanced encryption technologies and multi-factor authentication protocols make transactions more resilient to fraudulent activities. In addition, the transparency of digital payments enhances recordkeeping, facilitating expense tracking, budgeting, and auditing, instilling confidence in consumers and businesses as well as allowing governments to collect tax revenue more effectively. Moreover, digital payments play a significant role in promoting financial inclusion. According to the World Bank, digital financial services have significantly increased global bank account ownership from 51% in 2011 to 76% in 2021<sup>2</sup>. By extending access to formal financial services through platforms like mobile wallets and digital banking, they contribute to broader economic participation, particularly for underserved populations.

## **Product impact**

As one of the world's largest payments processors, Mastercard sits at the core of the revolution in payment digitalisation, facilitating electronic transactions across the globe. Mastercard enables secure and efficient digital payments, allowing individuals and businesses to make purchases and transfers seamlessly.

#### Financial inclusion

Mastercard has emerged as a global force promoting financial inclusion, enabling millions of individuals who had previously been excluded from banking systems to participate in the formal economy. Through the provision of pre-paid cards, business payments solutions, and services targeting the underbanked, Mastercard has connected 780 million people to the digital economy since 2015, with a target of hitting one billion by 2025. This approach not only improves individual livelihoods but also serves as a catalyst for economic development within communities.

One example is Mastercard's Community Pass solution which provides a way to serve people in the most remote communities, many of whom lack data records, formal identification and/or connectivity. Through 2022, three million users were registered with Community Pass. In December 2022, the company announced a goal to reach 30 million Community Pass users by 2027. In Uganda, a digital platform called YoPay Agric, powered by Mastercard Community Pass, is linking remote farmers to different partners in the agricultural sector. This technology helps farmers access more markets digitally, even without reliable connectivity. Farmers can send harvest yield information quickly and accurately to sellers, negotiate fair prices with buyers and take advantage of secure digital payments. At the same time, the technology creates a digital transaction record to automatically build a credible financial history<sup>3</sup>.

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<sup>&</sup>lt;sup>1</sup> https://www.bcg.com/publications/2019/cashless-payments-help-economies-grow

<sup>&</sup>lt;sup>2</sup> https://www.worldbank.org/en/publication/globalfindex

<sup>&</sup>lt;sup>3</sup> Mastercard sustainability report 2022

#### Countering fraud

Mastercard has also shown prowess in fraud prevention and is considered an industry leader in combating evolving fraud tactics, thwarting more than \$35 billion in fraudulent losses during the three-year period leading up to 2023. One such solution targeted at retail banking is its Al-powered Consumer Fraud Risk solution, which was deployed in the UK. This innovative technology, utilising advanced AI capabilities and tapping into Mastercard's extensive network view of account-to-account payments, played a crucial role in identifying and preventing real-time payment scams before funds could leave victims' accounts. The collaboration with nine prominent UK banks, including Lloyds Bank, NatWest, and TSB, showcased the industry-wide impact of Mastercard's initiative. TSB, an early adopter, reported a substantial increase in fraud detection, potentially saving nearly £100 million if applied across the UK4.

For businesses, Mastercard champions real-time data analysis to combat fraud, emphasising its critical role in swiftly detecting and preventing fraudulent activities. The approach involves proactive measures, particularly in credit card fraud detection, with the Mastercard Intelligence Centre providing real-time metrics and in-depth analysis. This aids in minimising false declines, ensuring legitimate cardholder charges are not mistakenly denied. The integration of artificial intelligence also enhances the accuracy and speed of fraud prevention tools. For instance, Mastercard scrutinises outgoing wires in real-time, allowing for prompt identification of suspect transactions<sup>5</sup>.

## Operational impact

Mastercard splits its operational impact into 3 focus areas, prosperity (which is delivered through Mastercard's products focused on financial inclusion), people, and planet.

#### People

Mastercard has made commendable strides in promoting diversity and equality. The company has successfully reduced its gender pay gap, increasing the global median pay for female employees to 94% of their male counterparts, a notable 0.8% improvement from 2021. Mastercard attributes the remaining median pay gap to the higher representation of men in senior roles, rather than pay variation for equal work. At the early-career stage, Mastercard's Girls4Tech® programme aims to educate five million girls aged 8–16 by 2025. In 2022, the programme reached 1.8 million girls, bringing the total to 3.6 million since its inception in 2014. Regarding racial diversity, Mastercard's commitment is evident in its goal to increase US black minority leadership at the vice president level and above by

50% by 2025, starting from 2020. The company achieved a 16% year-over-year increase, elevating US black leaders from 62 to 72 in 2022, driven in part by the company's investment in engagement, retention and the development of minority employees.

#### **Planet**

Towards supporting the planet, Mastercard has set multiple climate objectives, including a goal of net zero greenhouse gas emissions by 2040, and a reduction in Mastercard's absolute emissions by science-based targets of 38% for Scope 1 and 2, and 20% for Scope 3 by 2025, from a 2016 base year. In 2022, Mastercard's Scope 1 and 2 emissions were 44% less than in 2016, and Scope 3 emissions were 40% less than in 2016. Overall, in 2022, total Scope 1, 2, and 3 emissions were 41% less than in 2016. Mastercard has been using 100% renewable electricity for the past 6 years. Similarly, Mastercard through its Priceless Planet Coalition, has set itself a target to restore 100 million trees by 2025. Up to 2023, Mastercard has engaged more than 130 corporate partners globally to support forest restoration projects. It has also secured funding to restore an estimated 13 million trees, of which 4 million have already been restored.



Source: Mastercard

## Engagement

One area that the Global Sustainable Equity team has consistently monitored in relation to Mastercard is the company's approach to anti-competitive behaviour. The structure of the industry, such as high barriers to entry and larger players benefiting from lower costs per transaction than smaller players, means that a few large competitors hold close to 97% of the global payments market. While this represents a key attraction of the investment thesis, underpinning strong and durable business economics, it also comes with heightened regulatory risk. Whilst the team is confident in Mastercard's position, we view it as vital to

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 $<sup>^4\</sup> https://www.mastercard.com/news/press/2023/july/mastercard-leverages-its-ai-capabilities-to-fight-real-time-payment-scams/press/2023/july/mastercard-leverages-its-ai-capabilities-to-fight-real-time-payment-scams/press/2023/july/mastercard-leverages-its-ai-capabilities-to-fight-real-time-payment-scams/press/2023/july/mastercard-leverages-its-ai-capabilities-to-fight-real-time-payment-scams/press/2023/july/mastercard-leverages-its-ai-capabilities-to-fight-real-time-payment-scams/press/2023/july/mastercard-leverages-its-ai-capabilities-to-fight-real-time-payment-scams/press/2023/july/mastercard-leverages-its-ai-capabilities-to-fight-real-time-payment-scams/press/2023/july/mastercard-leverages-its-ai-capabilities-to-fight-real-time-payment-scams/press/2023/july/mastercard-leverages-its-ai-capabilities-to-fight-real-time-payment-scams/press/2023/july/mastercard-leverages-its-ai-capabilities-to-fight-real-time-payment-scams/press/2023/july/mastercard-leverages-its-ai-capabilities-to-fight-real-time-payment-scams/press/2023/july/mastercard-leverages-its-ai-capabilities-to-fight-real-time-payment-scams/press/2023/july/mastercard-leverages-its-ai-capabilities-to-fight-real-time-payment-scams/press/2023/july/mastercard-leverages-its-ai-capabilities-to-fight-real-time-payment-scams/press/2023/july/mastercard-leverages-its-ai-capabilities-to-fight-real-time-payment-scams/press/2023/july/mastercard-leverages-its-ai-capabilities-to-fight-real-time-payment-scams/press/2023/july/mastercard-leverages-its-ai-capabilities-to-fight-real-time-payment-scams/press/2023/july/mastercard-leverages-its-ai-capabilities-to-fight-real-time-payment-scams/press/2023/july/mastercard-leverages-its-ai-capabilities-to-fight-real-time-payment-scams/press/2023/july/mastercard-leverages-its-ai-capabilities-to-fight-real-time-payment-scams/press/2023/july/mastercard-leverages-its-ai-capabilities-to-fight-real-time-payment-scams/press/2023/july/mastercard-leverages-its-ai-capabilities-to-fight-real-time-payment-scams/press/2023/july/mastercard-l$ 

<sup>&</sup>lt;sup>5</sup> https://www.mastercardservices.com/en/industries/financial-institutions/insights/fight-fraud-real-time-product-level-data

<sup>&</sup>lt;sup>6</sup> https://www.statista.com/statistics/278970/share-of-purchase-transactions-on-global-credit-cards/

continue to monitor and take seriously any allegations of anti-competitive practices of holdings in high-risk industries such as payment processing.

It was with this in mind that Janus Henderson Investors arranged an engagement call with Mastercard to discuss some recent allegations of price fixing in the US alongside VISA, which led to a downgrade of the company's MSCI rating. The aim was to get an update from the company on these issues to understand its positioning including how it is dealing with provisioning for legal liabilities and managing reputational issues associated with the allegations.

We learned over the course of the call that Mastercard had spoken to the publisher of the article before it went out as they believed it contained factual errors and was very one-sided given it only provided input from the merchant advisory industry. However, the article was published

nonetheless. In response, Mastercard published a blog pointing out the factual errors and confirming that the company had no plans to increase network or interchange fees in the US. That being said, the company does perform regular price reviews. Overall, the company is confident it has done nothing wrong and is currently involved in a process with MSCI to provide as much information as possible to try and correct the downgrading. The company is taking the approach of staying as transparent as possible with investors and communicating the fact that they are not overly concerned with the article and its implications. Overall, the investment team felt that Mastercard's position was a confident one. Nevertheless, the team will continue to monitor how the company manages the reputational risk associated with the allegations and how they are perceived by investors and consumers alike.

#### **United Nations' Sustainable Development Goals**

We believe Mastercard addresses the following UN SDGs with its products, services and operations.













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<sup>&</sup>lt;sup>4.</sup> Texas Instruments, 2022 Corporate Citizenship Report.



Theme allocation is based on current or future revenues with a 50% threshold for primary theme and a 10% de-minimus threshold for secondary theme. Theme weightings are rounded to the nearest 10% (or rounded to zero if below 10%). Any revenues that do not have a thematic allocation will be represented as non-thematic. All revenues meet our avoidance criteria. The overall thematic distribution of the portfolio is based on thematic revenues and non-thematic revenues on pro-rata allocation according to position weights. Data rounded and may therefore not add up to 100%.

Information relating to portfolio holdings is based on the representative account in the composite and may vary for other accounts in the strategy due to asset size, client guidelines and other factors.

For example, if company X is a 1% position in the fund and its revenues are allocated 60% to the Sustainable Transport theme, 20% to the Cleaner Energy theme and 20% Non-thematic, there would be a 0.6% weight to Sustainable Transport, a 0.2% weight to Cleaner Energy and a 0.2% weight to Non-thematic. Primary, secondary and non-thematic weightings have then been summed to derive the overall portfolio theme allocations.

Source: Janus Henderson Investors as at 31 December 2023.

Company	Positive impact	Primary Theme	Weight %	Secondary Theme	Weight %
ADVANCED DRAINAGE SYSTEMS	Advanced Drainage Systems (ADS) is a leading thermoplastic corrugated pipe manufacturer headquartered in the US. The company's range of products cover a variety of applications throughout the water management supply chain to keep waterways safe from pollution and prevent excessive stormwater runoff. ADS products are used across a broad range of end markets and applications, including non-residential, residential, agriculture and infrastructure applications. The company is a key enabler in the pipe industry's significant material conversion shift from high-emitting traditional materials such as concrete and steel toward plastic. Its products are lightweight, simpler to install, and more durable than comparable alternatives made with conventional materials. Today, more than 3 billion metres of ADS pipe is in service around the world. ADS recycles over 2.3 million tonnes of plastic a year and integrates 66% re-manufactured content into its products, making it one of North America's largest recyclers and a contributor towards the circular economy.	WATER MANAGEMENT	50%	ENVIRONMENTAL SERVICES	50%
AON	Aon is a global provider of risk management, insurance, reinsurance brokerage, and human resource consulting. As one of the leading repositories of risk and insurance placement data, Aon uses big data analytics to help clients manage complex risks. There is a growing demand for insurance given the emergence of new risks such as the environmental consequences of climate change, cyber risk, and the risks associated with the provision of retirement and healthcare services to an ageing population. Aon operates in over 120 countries serving organisations worldwide, with over 300 associations and organisations using its commercial risk solutions. The company has over \$4 trillion of assets under advisement within its wealth solutions division.	SUSTAINABLE PROPERTY & FINANCE	60%	SAFETY	40%
APTIV	Aptiv, headquartered in North America, is a leader in the automotive technology industry. Aptiv is unique in being able to offer auto manufacturers complete solutions, comprising both hardware and software that enhance electrification and enable the development of smarter vehicle architectures. Aptiv prioritises smart design to make components smaller and lighter, helping make the resulting product greener, more efficient, and more connected. In addition, Aptiv's technology is a key building block enabling driverless vehicles. With 94% of accidents being a result of driver error, Advanced Driver Assistance Systems can help avoid accidents entirely. The result should be fewer accidents and the creation of new transportation business models.	SUSTAINABLE TRANSPORT	70%	SAFETY	30%
AUTODESK	Autodesk is one of the global leaders in design software used by architects and engineers worldwide, and is a provider of software to product designers. According to Autodesk, 80% of the environmental impact of a product or a building is determined in early-phase design, Autodesk's solutions therefore aim to empower customers to optimise the environmental and social impacts of their designs. This can encompass producing designs that dramatically reduce energy needs, provide resilient and environmentally sustainable infrastructure, or allow new approaches to product development and manufacturing. Customised goods that are created locally with less materials waste are of benefit to a sustainable economy. Autodesk has over 5 million paying subscribers with more than 100 million people using its software worldwide.	SUSTAINABLE PROPERTY & FINANCE	70%	KNOWLEDGE & TECHNOLOGY	30%
BRUKER	Bruker is a manufacturer of high-performance scientific instruments such as mass spectrometry, nuclear magnetic resonance, and microscopy. These instruments can be used to research applications in immunology, infectious disease, and immuno-oncology. Bruker's products should help to drive more efficient diagnosis and research into the treatment of different diseases while also supporting research into next generation nanotech and semiconductors. Bruker has 7,400 employees worldwide in over 90 locations across all continents, and its flagship timsTOF proteomics platform had an installed base of more than 250 systems globally at the end of 2020.	HEALTH	60%	KNOWLEDGE & TECHNOLOGY	40%

Commony	Decitive impact	Primary Theme	\\\\ain\b \ 0/	Secondary Theme	
CADENCE DESIGN SYSTEMS	Cadence Design Systems is a provider of system design tools, software, internet protocol solutions, and services. It is the only company to offer the full suite of products required for the entire electronics design chain, from chip design to chip packaging to boards and systems. It provides the resources semiconductor companies need to develop highly differentiated products within the automotive, cloud datacentre, consumer, industrial, Internet of Things and mobile industries. Its solutions help speed up the design and reduce the cost of innovative electronic products that transform the way people live, work and play. Cadence reports that the technological advancement of electronic design automation has helped reduce the cost of System on a Chip (SoC) from \$7.7 billion to \$40 million by 2011. As of 2021, Cadence had around 9,300 employees located in 23 countries worldwide with its products used in electronic products across a range of dynamic market applications.	KNOWLEDGE & TECHNOLOGY	Weight %	THEILE	Weight %
CARRIER GLOBAL	Carrier is a leading manufacturer of heating, ventilation, air conditioning (HVAC), refrigeration, fire and security systems. The company's products and services work to optimise indoor air quality, protect people and perishables, and save costs for clients through enhanced energy efficiency, leading to a reduced environmental impact. For example, Carrier's air conditioning units are around 50% more energy efficient than most modern units on average. Carriers' solutions are essential in helping residential and commercial customers adapt to challenges posed by global warming, such as elevated health risks and declining productivity. Carrier has supported research together with US universities showing the positive impact buildings can play in health: HVAC tools and tactics, such as managed occupancy, filtration and ventilation, can reduce the risk of airborne transmission of pathogens by up to 80%.	SAFETY	60%	EFFICIENCY	40%
CERTARA	Certara is one of the global leaders in bio simulation. The company's products help to reduce research and development drug cycle times, lower costs and improve outcomes for patients. Bio simulation also helps to reduce the need for animal testing in preclinical trials. Certara customers have received drug approval on 90% of all drugs that utilised Certara technology since 2014. Its customers include over 1,650 global biopharmaceutical companies, leading academic institutions, and key regulatory agencies across 61 countries.	HEALTH	100%		
CORE & MAIN	Core & Main is a leading distributor of products and services for water infrastructure and fire protection in the United States. Its products are used by municipalities and construction industries for the building, repair, and maintenance of water, wastewater and fire protection systems. Core & Main is a key beneficiary from the upgrade of America's ageing water infrastructure, with a nationwide footprint to ensure the safe and reliable distribution of water to the public. This includes community water supplies affected by drought and climate change, such as Nevada's Lake Mead which provides drinking water to 25 million people - a \$650 million project for a new pumping station involving Core & Main created capacity to deliver up to 900 million gallons a day to area treatment facilities.	WATER MANAGEMENT	90%	SAFETY	10%
CROWN CASTLE	Crown Castle is a provider of communications infrastructure in the US. It owns and leases over 40,000 cell towers and fibre networks and it is investing in small cells which will enable the transition to 5G communication networks, providing the backbone to a more connected world. Its colocation model enables its customers to operate networks with increased efficiency leading to a reduced environmental impact and enabling a path to lower cost access to connectivity for wider communities.	KNOWLEDGE & TECHNOLOGY	100%		

		Primary		Secondary	
Company	Positive impact	Theme	Weight %	Theme	Weight %
EDWARDS LIFESCIENCES	Edwards Lifesciences is a healthcare technology company with a focus on improving treatments for cardiovascular diseases. It has revolutionised heart valve replacement surgery via its Sapien transcatheter aortic heart valve. The procedure allows the patient to avoid the highly stressful chest opening approach that entails significant anaesthesia, recuperation, and a lengthy hospital stay. Edwards is also playing a role in utilising artificial intelligence to better detect aortic stenosis, the condition that warrants heart valve replacement. By most accounts, this condition is underdiagnosed and leads to a deteriorating quality of life.	HEALTH	100%		
ENCOMPASS HEALTH	Encompass Health is a leading provider of post-acute care in the US. It operates more than 120 inpatient rehabilitation centres across 29 states. Encompass Health is able to offer cost-effective inpatient rehabilitation centres and home care services. Encompass Health treats on average more than 350,000 patients annually.	HEALTH	100%		
EQUINIX	Equinix is a real estate investment trust that develops and operates interconnected data centres. It is one of the largest operators in the world, with more than 180 data centres in 44 markets across five continents. Data centres are the backbone of the internet and a more connected world – with advances in the Internet of Things and artificial intelligence there should be continued growth in demand for efficient and secure storage and transmission of data. Equinix has a long-term goal to use 100%renewable energy to power its operations and should therefore have a positive impact on lowering carbon emissions by enabling customers to move energy-intensive computing processes into the cloud. In 2020, Equinix avoided more than 1.9 million tonnes of $\mathrm{CO}_2$ e through their purchase of renewable energy for their data centres.	CLEANER ENERGY	100%		
HOME DEPOT	Home Depot is a home improvement retailer that sells products throughout North America. It targets both do-it-yourself (DIY) and professional customers with broad selection of products used for home building, renovating, remodelling, and gardening. Buildings have multiple components with different life expectancies, Home Depot's products improve the resilience, energy performance, and aesthetics of homes. As a large retailer, it is exerting influence over its supply chain to adhere to high environmental standards, including circular economy initiatives, sustainable sourcing, and responsible manufacturing. In 2020, Home Depot had over 1.76 billion customer transactions across its 2,300 stores.	SUSTAINABLE PROPERTY & FINANCE	80%	QUALITY OF LIFE	20%
HUMANA	Humana is a health insurance company with a primary focus on providing Medicare Advantage plans (a type of health plan) to senior citizens in the US. It is a pioneer in integrated care, aiming to lower costs for its members through better prevention of health problems and programmes to encourage healthier lifestyles. It has a range of clinical capabilities and resources such as in-home care, behavioural health, pharmacy services, data analytics, and wellness solutions. Ageing demographics are driving growth in demand for retirees' health care and Humana is catering to this by offering affordable products with a service that is consistent with private health insurance. Humana has approximately 22 million members in its specialty products and medical benefits plans.	HEALTH	100%		

		Primary		Secondary	
Company	Positive impact	Theme	Weight %	Theme	Weight %
ICON	ICON PLC is one of the largest global clinical research organisations (CRO). CROs help pharma and biotech companies manage the human clinical trial process as they move towards drug approvals. This helps accelerate the development of drugs and devices that save lives and improve quality of life. An example of this is the human trials organised for the COVID-19 vaccine. This was one of the largest and swiftest clinical trials ever performed where over 44,000 patients were recruited within four months during the global pandemic. Icon has also had a hand in the development of 18 of the worlds top 20 most popular drugs.	HEALTH	100%		
ILLUMINA	Illumina is a global leader in developing life science tools used for genetic sequencing. Its technology enables researchers to study the genome in a manner that saves time and cost. One of the core benefits of genetic sequencing is in the diagnosis of, and finding treatments for, genetic and chronic diseases, such as cancer. Illumina's technology has reduced the cost of sequencing a human genome to less than US\$1,000 today, down from a price of \$1 million in 2007. Illumina also plays a role in early virus detection by partnering with 70 countries to provide its technology to identify emerging viral threats. Finally, the company through its acquisition of Grail will play a major role in the mass expansion of early cancer detection via Grail's ground-breaking liquid biopsy technology. This technology could ultimately save tens of thousands of lives each year.	HEALTH	100%		
IPG PHOTONICS	IPG Photonics is one of the leading global manufacturer of high-performance fibre lasers, and is headquartered in North America. Fibre lasers are up to 20 times more energy efficient than traditional industrial lasers and their use leads to material energy savings and a reduction in carbon emissions. They also have low running costs, requiring no consumables or scheduled maintenance, such as lamps or bars to replace, meaning less waste is produced. Fibre lasers have a large number of applications and they are transforming industrial manufacturing processes, medical technology, and consumer entertainment. IPG reports that its lasers saved more than 7 million metric tons of emissions in 2020.	EFFICIENCY	100%		
KEYSIGHT TECHNOLOGIES	Keysight Technologies is an electronic design and testing company. It is at the heart of the digital revolution, providing solutions that are used by customers in the design, simulation, manufacture and optimisation of electronic systems in the communications, networking, electronics, semiconductor, automotive, aerospace and battery industries. Keysight's solutions are helping customers accelerate innovations in 5G communications, Internet of Things network security, and electric vehicles. It supports innovation by providing specialist equipment to more 32 thousand researchers, engineers, and innovators annually.	KNOWLEDGE & TECHNOLOGY	80%	NON-THEMATIC	20%
LAM RESEARCH	Lam Research is a global supplier of fabrication equipment and services to the semiconductor industry. Nearly every advanced semiconductor chip in the world is built with Lam technology. Lam's products are essential to driving innovation in silicon, which is the foundation of all technological progress. As we enter a new age of advanced computing and connectivity, Lam is contributing to the development of new devices and applications enabled by the Internet of Things becoming widespread in connected homes, connected vehicles, and connected cities; from digital energy to new consumer and medical technologies. Since 2015, LAM Research has helped to reduce the energy intensity of semiconductor production lines between 25-35%.	EFFICIENCY	50%	KNOWLEDGE & TECHNOLOGY	50%

Company	Positive impact	Primary Theme	Weight %	Secondary Theme	/ Weight %
MARSH & MCLENNAN	Marsh & McLennan is a global provider of risk management, risk consulting, and insurance programme management services to businesses, governments and individuals around the world. Marsh & McLennan utilises data to help clients understand and manage complex risks. There is growing demand for insurance given the emergence of new risks such as the environmental consequences of climate change, cyber risk, and the risks associated with the provision of retirement and healthcare services to an ageing population. The company conducts business through risk management and insurance, and consulting in health, wealth and career services and specialised management, economic and brand consulting services. The company's 83,000 colleagues advise clients in over 130 countries, including 85% of the Fortune 1000 companies.	SUSTAINABLE PROPERTY & FINANCE	50%	SAFETY	50%
MASTERCARD	Mastercard operates a global payments processing network in more than 200 countries around the world, connecting consumers, financial institutions and businesses. Its mission is to make payments safe, simple and smart and it is regarded as a leader in the field of electronic payments innovation. There are many benefits to the electrification of payments including security, convenience and also economic development and financial inclusion. Mastercard has numerous initiatives around the world focused on providing affordable financial services programmes to promote inclusive growth. In 2020, it met its goal of bringing 500 million people into the digital economy.	SUSTAINABLE PROPERTY & FINANCE	100%		
MCCORMICK & CO	McCormick is a leading global manufacturer of herbs and spices, headquartered in North America. In 2015, the US Dietary Guidelines Advisory Committee specifically recommended greater use of herbs and spices as part of a healthy diet and as a way to reduce sodium intake. McCormick has a robust sourcing programme in place, working with producers from all over the world to improve the sustainability of farming practices. McCormick own leading consumer brands in nearly 170 countries and develop flavour solutions for a wide range of applications. McCormick has a goal of generating 90% of revenue from health nutrition or natural consumer choices by 2025.	QUALITY OF LIFE	100%		
MICROSOFT TECHNOLOGY	Microsoft is one of the world's leading computing providers and its products are used in many different ways for the benefit of the environment and society. The power of computing underpins all technological innovation and Microsoft's mission is to empower every person and every organisation on the planet to achieve more. Its strategy is to "build best-in-class platforms and productivity services for a mobile-first, cloud first world". For over 40 years, Microsoft has been producing productivity and business processes software that is universal, easy to use and multipurpose. This has improved efficiency and reduced barriers to entry for computing, and is now used by over 1.2 billion people around the world across sectors including education, energy, water, agriculture, the built environment and transportation. This is all underpinned by the carbon-neutral Azure cloud platform which enables businesses to decarbonise their energy intensive computing operations.	KNOWLEDGE & TECHNOLOGY	<b>60%</b> Note: 10% is NON	CLEANER ENERGY N-THEMATIC	30%
NIKE	Nike is one of the world's largest supplier of shoes and clothing. It has the stated mission of bringing inspiration and innovation to every athlete in the world. Alongside the health and wellbeing benefits of its products, Nike is a leader in sustainable manufacturing and is moving towards a low impact, closed loop model that uses reclaimed materials at the start of the manufacturing process. Additionally, Nike is targeting using 100% renewable energy in its owned and operated facilities by 2025. Nike sells over 250 million pairs of shoes per year, or around 8 pairs a second.*	QUALITY OF LIFE	100%		

<sup>\*</sup> Taking footwear sales segment and assuming a \$100 average price

		Primary		Secondary	
Company	Positive impact	Theme	Weight %	Theme	Weight %
NVENT ELECTRIC	<b>nVent Electric</b> is a key provider of electrical and digital infrastructure. The company's products and solutions protect mission-critical equipment from dangerous conditions, and include technical enclosures, fasteners, control systems, and other critical components. These products serve to protect its customers from the high cost of failure, with downtime potentially aggregating up to \$1 million per hour for some end-users. The business is exposed to the electrification megatrend and serves several end-markets with the aim to enhance electrical safety and sustainability, including industrial (automation, digitization, onshoring), commercial/residential (smart buildings, power and data, etc), infrastructure (data solutions, power utilities, renewables), and energy (clean fuels, carbon capture, hydrogen) markets. Data centres are a key growth area for the business; within this vertical, a key driver is liquid cooling, in which the company was one of the first-movers, and liquid cooling is 30-50% more energy efficient than air cooling. The liquid cooling market is growing 3x faster than legacy cooling and only 5% of data centres being liquid cooled today. The company enjoys a scale advantage, and the majority of sales are from products where they are the #1 or #2 player in the space, with more than 30 million nVent enclosures in use around the globe today. nVent is also targeting for 90% of new product introductions to have a sustainable impact.	SAFETY	50%	SUSTAINABLE PROPERTY & FINANCE	50%
NVIDIA	NVIDIA is a US based company that designs, develops and markets graphics processing units (GPUs) that enhance the performance of computing platforms across the globe. NVIDIA GPUs are typically 20x more energy efficient for certain AI and HPC workloads than CPUs. This increases the processing power efficiency of computing and in turn energy efficiency. Analysis from the International Energy Agency shows that in a 10-year period from 2010 to 2019 global data centre energy use remained flat despite a greater than 8-fold increase in data centre workloads. NVIDIA's GPUs have also enhanced cloud-based gaming and game-streaming, increasing connectivity between users; NVIDA GeForce has more than 200 million gamers. In addition, the company's products are increasingly being used in autonomous vehicles, artificial intelligence, and research and development for medical science.	EFFICIENCY	70%	QUALITY OF LIFE	30%
ON SEMI	ON Semi is one of the world's leading semiconductor manufacturer which is headquartered in the US. It has strong franchise in Silicon Carbide (SiC) power semis which can operate at higher voltages , frequencies and temperatures, eliminating most of the power losses of devices and providing better than 90% efficiency in most applications. These power semis can generate savings that are 3x to 7x the incremental cost via space, cooling and energy range. Onsemi's intelligent power technologies are enabling electrification and improved efficiency across many different applications. Its automotive solutions allow its customers to exceed range targets with lower weight and reduced costs. It also sells components for medical devices, fitness trackers and smartwatches, charging stations, solar inverters and more. In addition, Onsemi's intelligent sensing technologies support nextgeneration industry, allowing for smarter factories and buildings, and advanced driver-assistance systems which improve automotive safety.	EFFICIENCY	60%	KNOWLEDGE & TECHNOLOGY	40%
PROGRESSIVE	Progressive is one of the largest car insurance companies in the US with an expanding home insurance segment. Serving both individuals and businesses, Progressive considers itself a data science company that services the insurance market. It uses data analysis to track driving habits and identify lower risk drivers, which in turn allows it to offer lower insurance rates, thus incentivising safer driving habits amongst its policy holders. Progressive currently has over 20 million policies in force.	SUSTAINABLE PROPERTY & FINANCE	60%	SAFETY	40%

Company	Positive impact	Primary Theme	Weight %	Secondary Theme	Weight %
PROLOGIS	Prologis is an owner, operator, and developer of industrial real estate specialising in modern distribution facilities which it leases to ~5,800 customers; these include manufacturers, retailers, transportation companies, third-party logistics providers, and other enterprises. The company has nearly 500 buildings, with an aggregate footprint of over 100 million square metres, that have achieved sustainable building certification, and it has committed to 100% of all future developments achieving certification. E-commerce enabled by Prologis has been shown to have 36% lower carbon emissions on average and replace up to 100 car trips compared to traditional instore retail. The company's built-out logistics network can also reduce transport related emissions by 50%.	SUSTAINABLE TRANSPORT	50%	CLEANER	50%
REVVITY	Revvity, formerly PerkinElmer, provides technology, services, and solutions to the diagnostic, research, environmental, industrial, and laboratory services markets. It's products range from helping to detect disease, contaminants, and biological pathways, to providing imaging and informatics, to offering custom laboratory management solutions. The company's goal is to help customers make smarter decisions, earlier diagonises, and more effective scientific breakthroughs, which it achieves through its commitment to scientific innovation. PerkinElmer currently has over 3,500 patents outstanding, and its detection technologies are helping to reduce 8 million metric tons of plastic from drinking water.	HEALTH	60%	KNOWLEDGE & TECHNOLOGY	40%
STAAR SURGICAL	STAAR surgical company develops, manufactures and markets visual implants that improve a patient's quality of vision. STAAR is the leading manufacturer of lenses used worldwide in corrective or 'refractive' surgery. The company also makes lenses for use in surgery that treats cataracts. The company has improved the vision of over 1,000,000 people world wide through it lens implants.	QUALITY OF LIFE	100%		
S&P GLOBAL	S&P Global (SPGI) is a leading provider of credit ratings, benchmarks, analytics, and workflow solutions in the global capital, commodity, and automotive markets. The company operates in five divisions - Ratings, S&P Dow Jones Indices, Commodity Insights, Market Intelligence and Mobility. SPGI's mission is to "accelerate progress" through the harnessing of its data insights to power markets. SPGI's data and analytics influence the capital allocation and investment decision making of its more than 100,000 customers world wide, which include financial institutions, corporates and governments. Recently it has been focusing on sustainable investments with its Sustainable initiative aiming to embed sustainability products across all divisions. This underlines the importance of SPGI's role in influencing in the transition to a more sustainable global economy - by providing insights on the risks, opportunities and impacts in relation to topics such as climate, energy transition, biodiversity, clean technology, and other ESG issues, it helps companies and investors identify prospects for growth, mitigate risks, position for emerging regulations and maximise performance through intelligent capital allocation; which in turn drives the evolution of the global economy towards a more sustainable footing.	SUSTAINABLE PROPERTY & FINANCE	50%	KNOWLEDGE & TECHNOLOGY	50%

Company	Positive impact	Primary Theme	Weight %	Secondary Theme	Weight %
TE CONNECTIVITY	TE Connectivity is one of the global leaders in the connectors and sensors industry. It designs and manufactures devices that connect and protect the flow of power and data inside a wide variety of industrial and consumer products such as subsea communications networks, factory automation systems, electric cars, and wearable fitness trackers. Its sensors also play a critical role in improving healthcare, being incorporated into medical devices with applications from diagnostics and therapeutics, to imaging and surgery. TE Connectivity's technology enables customers to make products that are more reliable, safe, and energy efficient and which improve people's lives. With more than 85,000 employees, including over 8,000 engineers, TE Connectivity working alongside customers in approximately 140 countries.	SUSTAINABLE TRANSPORT	60%	KNOWLEDGE & TECHNOLOGY	40%
TEXAS INSTRUMENTS	Texas Instruments is one of the world's largest semiconductor design and manufacturing companies. Its primary area of focus is on developing analogue chips and embedded processors, which are fundamental building blocks of a more connected world and can also improve efficiency. Examples of the wide variety of end customer applications include renewable energy technology, healthcare diagnostics equipment, factory automation, smart meters, security systems, battery management systems, autonomous driving, and smart irrigation. The company has over 100,000 customers and produces tens of billions of chips each year.	EFFICIENCY	80%	KNOWLEDGE & TECHNOLOGY	20%
T-MOBILE	<b>T-Mobile</b> is one of the major global communication services companies. As the clear leader in 5G investment in the US, T-mobile stand to play a pivotal role in the upcoming era of ubiquitous connectivity through the Internet of Things. Digital connectivity is a powerful tool for economic and social development. In developed economies, 5G networks will enable societies to capture productivity gains from smart cities, mobile working and autonomous driving. T-mobile's 5G networks already cover nearly all of the US, around two years ahead of competitors, with additional investments planned to improve speed and reliability.	KNOWLEDGE & TECHNOLOGY	100%		
WABTEC	Westinghouse Air Brake Technologies (Wabtec), headquartered in North America, is one of the world's largest providers of equipment and components to the global freight and transit rail industries. Its products are focused on safety and efficiency, including driver control systems, collision-avoidance systems, braking equipment, signalling technology and low emission locomotives with enhanced fuel efficiency. Rail has the lowest environmental impact out of all motorised modes of land transportation, with the greenhouse gas (GHG) emission of rail per kilometre 41g on average, less than a third of a short haul flight at 156g. With the global transportation sector accounting for nearly 25% of total worldwide GHG emissions, rail and public transportation systems have a key role to play in achieving decarbonisation. Wabtec has over 23,000 locomotives in services and over 45,000 vehicles fitted with Wabtec breaking systems in over 100 countries.	SUSTAINABLE TRANSPORT	50%	SAFETY	50%
WALKER & DUNLOP	Walker & Dunlop is a full service commercial real estate financing company in the United States, originating loans, servicing mortgages and providing asset management services. It has a particular focus on multi-family properties (apartment buildings) and it has a leading share of mortgage originations with the government sponsored agencies Fannie Mae (Federal National Mortgage Association) and Freddie Mac (Federal Home Loan Mortgage Corporation). Walker & Dunlop has specialist expertise in helping clients comply with government regulations and programmes concerning the provision of affordable housing and green lending, as well as healthcare, senior living and student properties. The loan servicing professionals from Walker & Dunlop manage a \$107.2 billion portfolio, one of the largest commercial real estate portfolios in the country.	SUSTAINABLE PROPERTY & FINANCE	100%		

		Primary		Secondary	1
Company	Positive impact	Theme	Weight %	Theme	Weight %
XYLEM	Xylem is a global water infrastructure and technology company headquartered in North America. It has a broad portfolio of products and applications for the water and wastewater, agriculture, industrial, residential and commercial end markets. Climate change is having a disruptive impact on the global water cycle; at the same time that demand for fresh water continues to increase due to population growth and urbanisation. Xylem's solutions range from flood recovery services to water conservation and treatment services. Xylem provides water and sanitation solutions to of 4.5 million people around the world.	WATER		ENVIRONMENTA SERVICES	<b>50%</b>

### **Environmental themes**



A global energy mix shifting to renewable and cleaner energy is crucial in order to limit global temperature increases. Additionally, battery storage will play an essential role in enabling renewables to become a mainstream source of energy by smoothing the peaks and troughs associated with variable output from solar and wind farms. We also seek to recognise where products and services are delivered primarily with low/zero carbon energy.

For example: renewable energy developers and operators, renewable energy technology, battery technology, low carbon cloud operation, low carbon real estate operation



Roughly two thirds of the primary energy contained in fossil fuels globally is wasted. As well as reducing emissions, efficiency gains are necessary in the use of all natural resources, including materials, food and water. At its core, efficiency is about minimising environmental impact while still providing essential goods and services to society.

For example: electrical equipment, industrial process and automation technology, building materials, software, semiconductors



The value of 'natural capital' is not captured in economic measures and yet it is the foundation of prosperity. There are many negative impacts on the environment associated with population growth and a linear economic model. Waste management, pollution control, environmental protection & remediation, and the creation of circular business models are all required. Underpinning this is the environmental data and analytics that inform resource reduction and management decision-making.

For example: recycling & circular economy, natural capital, sustainable packaging, waste management, environmental engineering & infrastructure, environmental data solutions



Transportation is one of the main contributors to global greenhouse gas emissions and pollution, and is a key target for government curbs. There is significant opportunity for companies as the forefront of pioneering new energy technologies, vehicle efficiency, public transport infrastructure and other low carbon solutions.

For example: electric vehicles, electric vehicle technology, rail, public transport, shared economy, cycling



Water is under pressure from both the supply side (insufficient fresh water, uneven distribution, poor quality and climate change) and the demand side (increasing use in agriculture, industry and municipal/residential areas). Substantial investment is required in infrastructure, alongside behavioural changes, in order to bridge the supply gap.

For example: water utilities, water technology, water infrastructure

#### Social themes



There is a close link between sustainability and innovation. Technological innovation and the advancement of knowledge play an integral role in the development of a more sustainable economic model. The world needs companies that provide tools and services that enable greater productivity and innovation.

For example: software, semiconductors, AI, cloud computing, robotics, communication services, education & publishing



Ageing populations are putting systemic pressures on health provision and social care services. The demand for healthcare increases with age and the challenge will be providing affordable care and services for this growing segment of society over a longer time horizon – as life expectancies are also rising – in addition to supporting healthcare innovation to address unmet needs.





Growing populations, technological change and climate change are leading to an increase in the scope and complexity of risks. Companies with goods and services that prevent or mitigate risks are necessary to protect human life and enhance economic resilience. Examples are technology or services related to road safety, natural disasters, cyber security and food safety.

For example: food, drug & environmental testing, transportation & electrical safety, public safety equipment, insurance, quality assurance



Financial services play an integral role in the development of a sustainable economy. Banks provide essential products and services for savers, borrowers and business. Insurance companies contribute to economic resilience. Urbanisation, demographic trends and climate change necessitate the construction of sustainable and resilient housing and other types of property used in the provision of social services.

For example: financial technology, commercial and retail banks, insurance, housing, digital payments



Thousands of years of human development have resulted in rich and diverse societies with complex needs. There are many companies with goods or services that make a positive contribution to society and human culture by improving quality of life, including healthy living, sustainable consumer goods, and entertainment & leisure.

For example: entertainment & leisure, sports & fitness, sustainable clothing, healthy food



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#### **Important Information**

#### All data sourced from Janus Henderson Investors (as at 31 December 2023), unless otherwise stated.

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