

# About the institute and its sponsors and partners

### About the institute

The First Sentier MUFG Sustainable Investment Institute (the Institute) provides research on topics that can advance sustainable investing. As investors, both First Sentier Investors and MUFG recognise our collective responsibility to society and that investment decisions should be made with consideration to our communities both now and in the future.

The Institute commissions research on Environmental, Societal and Governance issues, looking in detail at a specific topic from different viewpoints. The Institute recognises that investors are now looking in far greater depth, and with far greater focus, at issues relating to sustainability and sustainable investing. These issues are often complex and require deep analysis to break down the contributing factors. If as investors we can better understand these factors, we will be better placed to consider our investment decisions and use our influence to drive positive change for the benefit of the environment and society.

The Institute is jointly supported by First Sentier Investors (FSI) and Mitsubishi UFJ Trust and Banking Corporation, a consolidated subsidiary of MUFG. Representatives of both organisations will provide input to the activities of the Institute.

An Academic Advisory Board advises the Institute on sustainability and sustainable investment research initiatives. The Academic Advisory Board comprises prominent leaders from academia, industry and nongovernmental organisations in the fields of

Responsible Investment, climate science and related ESG endeavours. The Board provides independent oversight to ensure that research output meets the highest standards of academic rigour.

Institute@firstsentier.com www.firstsentier-mufg-sustainability.com www.mufg-firstsentier-sustainability.jp

### The Institute's Sponsors and Partners

**About First Sentier Investors** 



First Sentier Investors (formerly First State Investments) is a global asset management group focused on providing high quality, long-term investment capabilities to clients. We bring together independent teams of active, specialist investors who share a common commitment to responsible investment and stewardship principles. These principles are integral to our overall business management and the culture of the firm.

All our investment teams – whether in-house or individually branded – operate with discrete investment autonomy, according to their investment philosophies.

https://www.firstsentierinvestors.com

### **About MUFG**



Mitsubishi UFJ Financial Group, Inc. (MUFG) is one of the world's leading financial groups. Headquartered in Tokyo and with over 360 years of history, MUFG has a global network with approximately 2,000 locations in more than 40 countries. The Group has about 140,000 employees and offers services including commercial banking, trust banking, securities, credit cards, consumer finance, asset management, and leasing. The Group aims to "be the world's most trusted financial group" through close collaboration among our operating companies and flexibly respond to all of the financial needs of our customers, serving society, and fostering shared and sustainable growth for a better world. MUFG's shares trade on the Tokyo, Nagoya, and New York stock exchanges. For more information, visit

https://www.mufg.jp/english.

### **About the Trust Bank**

Mitsubishi UFJ Trust and Banking Corporation, as a core member of MUFG, provides its customers with a wide range of comprehensive financial solutions leveraging unique and highly professional functions as a leading trust bank. Such financial solutions include real estate, stock transfer agency, asset management and investor services, and inheritance related services, in addition to banking operations. The Trust Bank aims to realize its vision to be the trust bank that can create a safe and enriching society and future alongside customers through trust; as such, its key concept is "Create a Better Tomorrow". For more information, visit

https://www.tr.mufg.jp/english

### **About Planet Tracker**



Planet Tracker is an award-winning non-profit financial think tank aligning capital markets with planetary boundaries. Created with the vision of a financial system that is fully aligned with a netzero, resilient, nature positive and just economy well before 2050, Planet Tracker generates break-through analytics that reveal both the role of capital markets in the degradation of our ecosystem and show the opportunities of transitioning to a zero-carbon, nature positive economy.

https://www.planet-tracker.org

# **Executive summary**

The global food sector profoundly impacts human health, with obesity, malnutrition, food insecurity and antimicrobial resistance from animal farming posing critical challenges. In 2020, 42% of the global population was classified as overweight or obese, with projections indicating a rise to 54% by 2035¹ (Figure 3). The consumption of ultra-processed foods, which make up over 50% of total caloric intake in some high-income nations, has exacerbated diet-related health issues, including diabetes and cardiovascular diseases.²

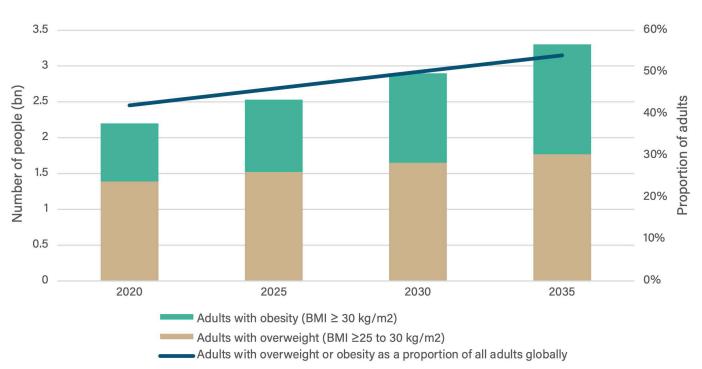


Figure 1: Global Trends in Adult Overweight and Obesity (2020-2035). (Source: World Obesity Federation, 2024)<sup>1</sup>

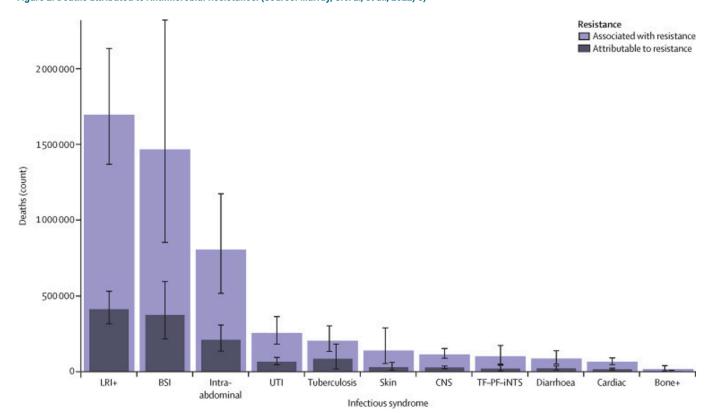


Figure 2: Deaths attributed to Antimicrobial Resistance. (Source: Murray, C. J. L., et al., 2022) 3)3

Additionally, the misuse of antibiotics in livestock and aquaculture is accelerating antimicrobial resistance, a growing crisis responsible for 1.27 million human deaths annually (Figure 2).

If left unchecked, antimicrobial resistance-related fatalities could double by 2050, with significant economic consequences. This report explores these challenges, their financial implications, and the regulatory developments addressing them.<sup>3</sup>

The intersection of the food sector and public health has major financial repercussions. Rising obesity rates and antimicrobial resistance are increasing healthcare costs, productivity losses, and regulatory pressures, leading to significant risks for investors. Governments are increasingly implementing policies, including sugar taxes, marketing restrictions and limits on the inappropriate use of antibiotics, directly affecting corporate revenue streams. Consumer preferences are also shifting toward healthier and more transparent food choices, creating competitive advantages for

companies that adapt. Investors must assess company strategies for mitigating health risks, ensuring regulatory compliance, and capitalising on changing consumer behaviours to build sustainable, long-term investment portfolios.

Obesity is a leading contributor to non-communicable diseases, responsible for an estimated 42 million deaths annually.<sup>4</sup> Ultra-processed foods, rich in sugars, salts, and unhealthy fats, are the primary drivers of this trend. The economic burden of obesity is substantial, costing OECD countries 3.3% of GDP.<sup>5</sup> Without intervention, global healthcare costs related to obesity could surpass \$18 trillion by 2060. Childhood obesity is particularly concerning, with rates doubling over the last five decades. Similarly, antimicrobial resistance threatens public health and global economies, with projections indicating a 3.8% reduction in GDP by 2050 due to its impact on healthcare systems, agricultural productivity, and labour markets.

The dominance of ultra-processed foods in global diets contributes to poor health outcomes, particularly among low-income and marginalised communities. Food marketing strategies exacerbate these health risks, especially among children and communities of colour. Companies target vulnerable populations through television, digital advertising, and celebrity endorsements, normalising unhealthy consumption patterns. In 2019, U.S. fast-food advertising spending exceeded \$5 billion, with the majority directed toward products high in fat, sugar, and salt.<sup>6</sup> The disproportionate marketing of unhealthy foods to marginalised communities exacerbates existing health disparities, contributing to higher rates of obesity, diabetes, and cardiovascular disease.

Governments worldwide are implementing policies to mitigate the health risks associated with unhealthy diets and antibiotic misuse in agriculture. Sugar taxes, front-of-package labelling, and restrictions on unhealthy food marketing are gaining traction, with over 100 countries implementing sugar-sweetened beverage taxes and nearly 70 countries adopting front-of-package labelling systems. Mandatory food composition policies, including reformulation targets for salt, sugar, and trans fats, are becoming more prevalent. Meanwhile, regulations on antibiotic use in livestock, such as the EU's ban on antibiotic growth promoters, are setting industry precedents. Companies

that fail to adapt face financial penalties, export restrictions, and reputational damage, while those embracing reformulation and transparency stand to gain market share.

### Investors play a pivotal role in shaping a healthier and more sustainable food system.

Supporting companies to proactively address health risks can mitigate financial exposure and drive long-term value.

Key considerations include:

- Corporate strategies for reducing ultra-processed food dependence.
- Compliance with emerging regulations.
- Efforts to curb antibiotic misuse in food production.

This report provides a framework for assessing food sector risks and opportunities, empowering investors to make informed decisions that align with evolving market and regulatory landscapes. In addition to risk assessment, the report offers investor engagement guidance on key health-related issues in the food sector, equipping investors with targeted questions to drive meaningful corporate action across six key themes:

Key themes	Description
Pricing and affordability	Examines whether companies are making healthier foods more accessible and affordable, particularly for low-income consumers. Focuses on how pricing strategies support equitable access to better nutrition.
Sales and targets	Assesses whether companies set and report on measurable targets to increase the sales of healthier products, promoting transparency and accountability in their health and nutrition commitments.
Marketing and advertising	Explores how companies influence consumer behaviour through advertising, particularly whether they prioritize healthy foods and limit unhealthy food marketing, especially to children.
Product reformulation and innovation	Looks at how companies improve the nutritional profile of their products through reformulation and innovation, ensuring that healthier options are embedded across product lines.
Governance and strategy	Evaluates whether nutrition and health are embedded into corporate strategy and governance structures, reflecting leadership commitment to public health and long-term business sustainability.
Risk management	Focuses on how companies identify, assess, and manage risks related to health, particularly in connection with ultra-processed foods, shifting consumer preferences, and evolving regulations.

Addressing these challenges will not only benefit financial portfolios but also contribute to improved public health outcomes and economic stability.

### Why this matters for investors

The food sector's role in public health is increasingly influencing financial markets, with major implications for corporate profitability, economic stability, and long-term investment sustainability. Investors must consider the systemic risks associated with obesity, malnutrition, and antimicrobial resistance, as these challenges translate into mounting healthcare costs, productivity losses, and regulatory pressures on businesses.

Governments worldwide are introducing stringent food policies, such as sugar taxes, front-of-package labelling, and restrictions on unhealthy food marketing, which directly impact corporate revenue streams and necessitate strategic adaptation. Companies that fail to reformulate their products or adjust their business models accordingly may suffer from declining consumer demand and reputational damage, while those that proactively address these issues stand to gain market share in an evolving marketplace.

For investors, assessing how well companies manage these risks and opportunities is essential. By considering factors such as pricing strategies, product composition, regulatory compliance, and reputational risks, investors can make informed decisions that align with sustainable, long-term value creation. Understanding the interplay between food sector practices and health outcomes is crucial to mitigating risk and ensuring resilient investment strategies in a rapidly changing global landscape.

### A call to action for investors

Investors play a crucial role in driving change within the food sector by prioritizing health-conscious and sustainability-focused companies. Key actions for investors include:

- Encouraging companies to reduce their reliance on ultra-processed foods and curb the misuse of antibiotics in food production, helping investors to mitigate financial risks while contributing to improved public health outcomes.
- Engaging with food companies to set measurable targets for product reformulation, enhance the affordability of healthier options, and eliminate the routine use of medically important antibiotics in livestock and aquaculture.

By supporting companies that proactively address these risks through responsible marketing, transparent antibiotic stewardship, and compliance with evolving regulations, investors can make informed decisions that align with long-term value creation while fostering a healthier, more sustainable food system.

## References

- 1 World Obesity Federation. (2024). World Obesity Atlas 2024.
- 2 Giles, L. C., & Brimblecombe, J. K. (2023). Seeking sweetness: A systematic scoping review of factors influencing sugar-sweetened beverage consumption in remote Indigenous communities worldwide. Beverages, 9(1), 11. https://doi.org/10.3390/beverages9010011
- 3 Murray, C. J. L., et al. (2022) "Global burden of bacterial antimicrobial resistance in 2019: a systematic analysis." The lancet 399, no. 10325, 629-655.
- 4 IHME, Global Burden of Disease (2024) with minor processing by Our World in Data. "Age-standardized deaths from all causes attributed to high body-mass index per 100,000 people" [dataset]. IHME, Global Burden of Disease, "Global Burden of Disease Risk Factors".
- 5 OECD (2019). The Heavy Burden of Obesity. Available at: https://www.oecd.org/en/publications/the-heavy-burden-of-obesity\_67450d67-en/full-report.html
- Rudd Center for Food Policy & Health. (2021). FACTS 2021: Food Advertising to Children and Teens Score. Retrieved from https://media.ruddcenter.uconn.edu/wp-content/uploads/sites/2909/2024/06/FACTS2021.pdf

#### **Important Information**

This material is intended for professional investors, sophisticated or wholesale clients or professional or institutional clients (or equivalent) as may be defined in the jurisdiction in which the material is received, including Hong Kong and Singapore and should not be relied upon by other persons. It is made available to you for information purposes only and does not constitute investment or financial advice, an offer of asset management services, a recommendation or an offer or solicitation to buy, hold or sell any security and has not been prepared in connection with any such offer.

This material is neither directed at nor intended to be accessed by persons resident in, or citizens of any country, or types or categories of individual where to allow such access would require any registration, filing, application for any licence or approval or other steps to be taken by First Sentier Investors in order to comply with local laws or regulatory requirements in such country.

This material does not constitute investment research. Accordingly, this information has not been prepared in compliance with the legal provisions promoting independent investment research, and it is not subject to any restriction prohibiting the execution of transactions prior to the dissemination of investment research. Any research in this document has been procured and may have been acted upon by First Sentier Investors for its own purposes.

Reference to specific securities (if any) is included for the purpose of illustration only and should not be construed as a recommendation to buy, sell or hold the same. All securities mentioned herein may or may not form part of the holdings of First Sentier Investors, Mitsubishi UFJ Trust and Banking Corporation ('the Trust Bank') ' or Mitsubishi UFJ Financial Group, Inc. ('MUFG') portfolios at a certain point in time, and the holdings may change over time.

Although the information presented here is from sources believed to be reliable and reputable, neither First Sentier Investors, the Trust Bank nor MUFG make any representation or warranty in relation to the accuracy, completeness or reliability of any information contained here. The information and views expressed are those of the authors and not necessarily those of either First Sentier Investors, the Trust Bank or MUFG. The opinions expressed are subject to change without notice. Reliance upon information in this material is at the sole discretion of the reader. To the extent permitted by law, no liability is accepted by MUFG, First Sentier Investors, nor their affiliates for any loss or damage as a result of any reliance on or use of this material.

This document is the intellectual property of First Sentier Investors, the Trust Bank and if applicable a third party. They retain all intellectual property or other rights in all information and content (including, but not limited to, all text, data, graphics and logos).

References to 'we' or 'us' are references to First Sentier Investors, a global investment management business, the ultimate owner of which is MUFG. First Sentier Investors includes a number of entities in different jurisdictions.

For readers located in the United Kingdom, this document is issued by First Sentier Investors (UK) Funds Limited (First Sentier Investors), authorised and regulated by the Financial Conduct Authority. Registered office: Finsbury Circus House, 15 Finsbury Circus, London EC2M 7EB.

For readers located in the EU, this document is issued by First Sentier Investors (Ireland) Limited (First Sentier Investors), authorised and regulated by the Central Bank of Ireland. Registered office: 70 Sir John Rogerson's Quay, Dublin 2, Ireland number 629188 (CBI registration number C182306)

For readers located in Hong Kong, this document is issued by First Sentier Investors (Hong Kong) Limited and has not been reviewed by the Securities & Futures Commission in Hong Kong. First Sentier Investors, FSSA Investment Managers, Stewart Investors, RQI Investors and Igneo Infrastructure Partners are the business names of First Sentier Investors (Hong Kong) Limited.

For readers located in Singapore, this document is issued by First Sentier Investors (Singapore) whose company registration number is 196900420D. This advertisement or publication has not been reviewed by the Monetary Authority of Singapore. First Sentier Investors (registration number 53236800B), FSSA Investment Managers (registration number 53314080C), Stewart Investors (registration number 53310114W), RQI Investors (registration number 53472532E) and Igneo Infrastructure Partners (registration number 53447928J) are the business divisions of First Sentier Investors (Singapore).

For readers located in Australia, this document is issued by First Sentier Investors (Australia) IM Limited (ABN 89 114 194311 AFSL 289017). This material is intended for persons who are professional, sophisticated or 'wholesale clients' (as defined under the Corporations Act 2001 (Cth) (Corporations Act)) and has not been prepared for and is not intended for persons who are 'retail clients' (as defined under the Corporations Act). This material contains general information only. It is not intended to provide you with financial product advice and does not take into account your objectives, financial situation or needs. Before making an investment decision you should consider, with a financial advisor, whether this information is appropriate in light of your investment needs, objectives and financial situation. Any opinions expressed in this material are the opinions of the author only and are subject to change without notice. Such opinions are not a recommendation to hold, purchase or sell a particular financial product and may not include all of the information needed to make an investment decision in relation to such a financial product.

In the US, this document is issued by First Sentier Investors (US) LLC authorised and regulated by the Securities Exchange Commission (RIA 801-93167).