THE FUTURE OF FOOD: THE INVESTMENT CASE FOR A PROTEIN SHAKE UP

2016 Briefing

BUILDING A MORE RESILIENT PROTEIN SUPPLY CHAIN

$1.6 TRILLION AT RISK
FACTORY FARMING RISK
ANTIBIOTIC RESISTANCE
UNSUSTAINABLE SUPPLY
CLIMATE CHANGE IMPACTS
STRAINED ASSETS

8.4% ANNUAL GROWTH
LONG-TERM VALUE CREATION
PRODUCT INNOVATION
SUSTAINABLE PROTEIN SUPPLY
CORPORATE LEADERSHIP
RISK MITIGATION STRATEGY

"The dynamics of how we consume protein are shifting – investors must manage the risks and capitalise on the opportunities to protect value” JEREMY COLLER, FOUNDER, FAIRR INITIATIVE
By 2050 our global food system will be tasked with the challenge of feeding over 10 billion people. With this burgeoning population comes a growing demand for protein, which plays a critical role in our diets. The world must develop ways to meet this need sustainably in order to manage the risks around climate change and food security. Producing protein now and in the future in ways that stay within our planet’s limited resources is an essential challenge for today’s food companies, capital markets and society as a whole. This briefing highlights how investors can understand and address the related risks, and take advantage of the resulting opportunities.

A SUPPLY CHAIN REACHING ITS LIMITS
Currently, much of the world relies on meat for its protein requirements – with approximately 70% of livestock now produced in factory farms. However, as recent research[^1] by FAIRR and others has shown, factory farming is emerging as a high-risk production method linked with significant environmental damage and major public health issues, such as the emergence of antibiotic-resistant bacteria and outbreaks of pandemics such as avian flu.

In short, this is a critical call to action: as the world’s population rises and demand for protein grows, the current protein supply chain simply cannot cope. It’s a recipe for a financial, social and environmental crisis.

RISKS AND OPPORTUNITIES: WHAT CAN INVESTORS DO?
For long-term investors the analysis in this briefing presents a compelling case to act now to help influence the protein supply chain and its actors – with the aim to improve resilience through risk mitigation and innovation.

The briefing also sets out the risks of inaction – from overvalued food companies to shifting regulation. It highlights some potential exciting opportunities – from investment in food technology, to engagement with companies to influence the supply chain.

We hope this briefing acts as a starting gun for further discussion and investigation, and as a call to action at the investor, corporate and consumer level.

Jeremy Coller
Founder, FAIRR Initiative and CIO, Coller Capital

Catherine Howarth
CEO, ShareAction
EXECUTIVE SUMMARY

Demand trajectories for animal products in recent decades have intensified a number of sustainability issues, with high levels of consumption fuelled by low, often subsidised, prices that do not correlate with their true production costs. This briefing examines the investment risks linked to the over-reliance on intensively farmed animal products, offering strategies to mitigate this risk. Alongside this, the briefing reviews the investment opportunities presented by a transition towards more diverse sources of protein to capitalise on current market trends.

The livestock sector currently accounts for 14.5% of greenhouse gas emissions (GHGs); more than the global transport sector. Research by Chatham House has indicated that it will not be possible to limit temperature rises to below 2°C – the goal agreed at UN climate talks in 2015 – if livestock production and consumption are not reduced.

“It is critical for consumer-centric food and beverages companies...to focus on changing consumer preferences and adapt accordingly. This strategy will be essential to drive long term growth”

Forbes

While there are efficiency gains to be made in production (for example, mixed crop-livestock systems to make best use of available land) and the potential of technical...
innovations that could reduce some detrimental impacts of livestock production (for example, adjustments to animal feed, and methane capture), they are limited and only part of the solution. Crucially, current levels of production are unsustainable, with negative environmental and social consequences leading to financial risk, as FAIRR’s 2015 risk report outlines. Combined, these impacts could prove costly, with a recent University of Oxford study suggesting that if unaddressed, the public health and environmental expenses associated with the increased demand for animal products could be up to $1.6 trillion globally by 2050.

The possible accumulation of these factors and their collective impact weakens supply chains and makes them more susceptible to disruption. The future sourcing of protein will play a significant role in responding to these problems and ensuring supply chain security.

In addition to helping mitigate the risks, there are also up-side opportunities to be seized by investors and companies who show leadership on this issue. Market analysis and sales over recent years have shown that consumers are increasingly aware of the detrimental impacts of a heavily meat-based diet and are moving to cut back on its consumption. With the clock ticking on climate change and an imminent public health crisis, some governments are already moving to legislate against highly polluting and potentially carcinogenic foods. Forward-looking investors and large food companies can move now to respond to and help shape this burgeoning market, and in the process help to build supply chains that are more resilient to future shocks.

“A recent University of Oxford study suggests that if unaddressed, the public health and environmental expenses associated with the increased demand for animal products could be up to $1.6 trillion globally by 2050.”
INTRODUCTION

Over the past half century, the growth of the factory farming model and the increasing overconsumption of animal products has been taking its toll on the environment and human health. Consumers in early industrial countries now eat far more protein than is needed for optimum health or that the world can sustainably supply. According to current trajectories, by mid-century global meat production is projected to double from its 1999 levels, which will be catastrophic for our climate. Research by Chatham House has indicated that it will not be possible to limit temperature rises to 2°C – the goal agreed at the UN Climate Change Conference, COP21, in 2015 – if livestock production and consumption are not reduced.

“...it will not be possible to limit temperature rises to 2°C – the goal agreed at the UN Climate Change Conference, COP21, in 2015 – if livestock production and consumption are not reduced.”

ENVIRONMENTAL AND SOCIAL RISK CONNECTED TO FACTORY FARMING

- **GHG emissions:** Livestock production accounts for 14.5% of GHG emissions (more than the global transport sector), with research providing strong evidence that it will not be possible to limit temperature rises to 2°C if meat and dairy consumption is not reduced from current levels.

- **Resource use:** Animal agriculture contributes to resource scarcity that can cause local opposition and conflict. As an example of water inefficiency, it can take 1,800 to 2,500 gallons of water to produce just 1 pound of beef. This can result in water stress in water-scarce regions.

- **Deforestation and other environmental impacts:** Environmental impacts are wide-ranging and include deforestation, soil degradation, water and air pollution (all with potentially material impacts for investors).

- **Animal welfare:** Increasing demand for animal products is driving industrial livestock production, dependent on practices such as close confinement and genetic manipulations focused on high production at the expense of welfare. This model comes with significant reputational risks, especially with consumers increasingly paying attention to welfare and valuing brand transparency.

- **Public health:** Overconsumption of animal produce is linked to health issues such as diabetes, heart disease and cancer. Overuse of antibiotics in intensive livestock production contributes to antimicrobial resistance. The growth of the livestock sector has also led to food safety scares and pandemics, such as avian flu.

- **Supply chain disruption:** The collective impact and possible accumulation of these factors means that supply chains reliant on exploitative and unsustainable practices are inherently more susceptible to disruption. This has been seen with overexploited fisheries and egg supply chains impacted by avian flu.
The costs of the current food system are borne by business as well as individuals. Taking just one example, poor eating habits are reported to cost employers around £17 billion a year, or 97 million lost working days in the UK alone.\(^4\)

There has been an increasing adoption of ‘western’ diets that are high in processed foods along with fat, sugar and salt. This is, in turn, contributing to the global spread of ‘diseases of affluence’ crises, such as heart disease, hypertension, obesity, and increasing rates of cancer. At the same time, our global food system is a major driver of climate change, being responsible for more than a quarter of all GHG emissions, and linked to a number of other crucial sustainability issues (see box 1).\(^5\)

This briefing paper overviews the investor case for protein diversification – supporting a transition from an over-reliance on intensively farmed animal products – as a key means of addressing these and other related issues and building resilient supply chains. It considers both the risks and opportunities, offers strategies for corporate engagement, and suggests companies for targeted focus.

The call for protein diversity and an emphasis on promoting the availability and affordability of plant-based proteins is not a request for abstention from animal products, but rather the development of sustainable supply chains that do not rely on a single protein source. This is not just about what we eat, but about how that food is produced (see Box 2) – under what conditions, and at what price to the environment and workforce.

While some progress has been made through improvement in livestock production practices (for example, certification schemes such as the RSPCA Assured in the UK, the Global Animal Partnership scheme in the US, the Marine Stewardship Council, or zero-deforestation commitments), there remains a need for a greater focus on the role of plant-based protein sources as an important part of a resilient supply chain.

Acting on this now is in the long-term interest of investors and retailers alike, who can seek competitive advantage by developing strategies to address this issue. Proactive companies can help to future-proof their infrastructure and investments as, without such affirmative action, the collective impact and possible accumulation of these risk factors weakens supply chains, and makes them more susceptible to disruption.

“This growing ranks of novel protein sources and potential replacements appeal to the everyday consumer, foreshadowing a profoundly changed marketplace in which what was formerly ‘alternative’ could take over the mainstream.”\(^6\) Mintel 2016 global food and drink trends

“Consumers are much more aware of the health impact of food than they were 10–15 years ago. They are also ready to pay premium for quality food.”\(^7\) Martijn Oosterwoud, Head of Client Portfolio Management, RobecoSAM
**SUSTAINABLE PROTEIN: WHAT DOES THIS MEAN IN PRACTICE?**

The call for sustainable protein supply chains is not a demand for ruling out animal products entirely, though some companies and consumers will identify that as the commitment they want to make. From a health and sustainability perspective, a varied diet\(^{18}\) that includes some animal products should mean:

- **Diversifying the range of protein on offer** and prioritising choices that have less impact on health, land, water and the climate: for example, opting for sustainably sourced fish or poultry instead of beef, or beans instead of pork.

- **Moving away from meat and dairy as the dominant ingredient in every menu option** to instead making them an occasional complement to a meal.

- **Selecting lean cuts for meals that do feature meat, and reducing or eliminating the use of red and processed meat** (such as bacon, ham and sausages).

- **Sourcing food that meets a credible certified standard** – like Animal Welfare Approved or the Global Animal Partnership for high-welfare methods of farming in the US, the Marine Stewardship Council certification for sustainable fish and the Soil Association for organic certification in the UK.

- **Producing and procuring appealing and accessible alternatives to meat** based on plant proteins and new food tech innovations.

**DRIVING FACTORS BEHIND THE PLANT-BASED MARKET SHIFT**

Market analysts acknowledge that increasingly consumers are making the link between food and health\(^{19}\), and researchers estimate that demand for meat substitutes – products prepared from tofu, tempeh, textured vegetable protein, seitan, quorn and other plant based sources – will grow by 8.4% annually over the next five years.\(^{20}\) Other studies predict that alternative proteins could constitute a third of the total protein market by mid-century.\(^{21}\) Already, nearly half of Americans are reported to consume non-dairy milk, with this trend attributed to concerns over heart health and weight loss.\(^{22}\)

In terms of the driving factors behind this trend, the public health evidence base for such a shift is increasing: for example, within recent months there has been widespread reporting of research that animal protein is a significant factor in the obesity crisis\(^{23}\) and that red meat is linked to kidney damage. The World Health Organization also recently classified red and processed meats as carcinogenic.\(^{24}\) Though the UK’s recently revised ‘eat well’ guidelines specifically recommend a reduction in consumption of red and processed meat, medical professionals – for both health and environmental reasons – advocate for a recommendation to eat less meat overall.\(^{25}\) Similarly, in the US there is an acknowledgement within government circles that the environment and sustainability should be considered alongside health in food policy,\(^{26}\) and the US Department of Agriculture has its own certification standard to help producers tap into a $43 billion domestic market for organic produce.\(^{27}\) However, despite significant red flags from the medical profession and scientists as seen previously with regard to the tobacco industry, most governments have – so far at least – run shy of tackling this issue head on.\(^{28}\) How long governments can continue to prioritise trade over public health and the environment is a matter of debate.
WHAT ARE SOME OF THE ALTERNATIVES TO ANIMAL PROTEIN?

Plant-based and food-tech alternatives to animal protein can offer additional benefits such as product stability and shelf-life, as well as having markedly less emissions and impact on resources such as land and water.

- **Dairy-free milks:** Almond, flax, hemp, rice and soy, which are often fortified with additional calcium and nutrients.
- **Grains, legumes, nuts, pulses and seeds:** Beans, lentils, oats, peas, and quinoa are just a few in this category that are full of soluble fibre, protein, and essential nutrients while also being low in saturated fat.
- **Insects:** Opinions differ on how readily these will be welcomed into the global food chain, although they are already consumed in some countries. Aside from human consumption, these could provide a valuable alternative source of animal feed and free up plant-based foods for human use.
- **Lab, cultured or ‘clean’ meat:** However, this technology is estimated to be several years away from being feasible at scale.
- **Macro and micro-algae:** Macro-algae are seaweeds, like dulse and kelp. Micro-algae is generally used as a wholefood ingredient and includes species such as spirulina and chlorella.
- **Meat substitutes:** Many of these are still based on soy (e.g. tempeh or tofu) or wheat-protein (e.g. seitan), but there are also a broader range of alternatives such as pea, grain and nut-based products.

“Environmental impact food labels can help consumers compare across and within food product types and make more sustainable and environmentally-conscious decisions.”

Allison Leach, University of Virginia

“People don’t want to rely on animal-derived materials and there is a lot of pressure on companies to switch to plant-based alternatives. It’s not just a handful of vegans asking for this.”

Alexander Lorestani, co-founder and CEO, Gelzen
INVESTMENT RISKS AND OPPORTUNITIES

STAYING AHEAD OF POLICY AND REGULATORY FRAMEWORKS

Companies need to embed sustainability into all areas of their business. While making the case for addressing readily quantifiable environmental impacts may be an easier short-term win – there are, for example, clear up-front cost savings to be made in reducing energy consumption and tackling food waste – taking a medium to long-term view of sustainability risks and opportunities also requires a focus both on how protein is sourced and at what cost.

An example can be seen in the livestock sector, which currently accounts for 14.5% of global anthropogenic GHG emissions: more than the global transport sector.31 While there are certainly improvements to be made in production and distribution efficiencies, research indicates that these have only a small part to play; with, for instance, a reduction in food waste likely to lower food-related emissions by just 1 to 3%.32

In contrast, adopting global dietary guidelines with lower meat consumption would cut food-related emissions by 29%, vegetarian diets by 63%, and vegan diets by 70%.33 As the effects of climate change become more immediately apparent, governments may increasingly legislate and insert regulations that dictate the need for progressive action on the part of business to address a wider range of sustainability concerns. For example, Denmark is considering proposals to introduce a tax on red meat, with the Danish Ethics Council citing the livestock industry’s immense impact on climate change.34 Another notable exception to official reticence to declare against a meat-centric diet is China, which – on the basis of domestic obesity and diabetes problems – has refocused efforts on urging its citizens to eat 50% less meat than at present.35

Moving beyond policy pronouncements to tangible taxation and quota frameworks would have a major impact on companies that have not moved to diversify their offering.

The Paris Climate Agreement (pictured) indicates a tougher regulatory climate for high-emission industries like livestock.
BUILDING RESILIENT SUPPLY CHAINS
Market changes and climate shocks are both critical areas of risk for supply chains, and factory farming has broad exposures to both. Exposure through the media of animal cruelty can seriously affect a company’s reputation and lead to a drop-off in sales, but the demands of manufacturers are such that current exploitation can seem hardwired into the system. Meanwhile, the rapacious demands of the meat production sector play a major role in using up the world’s land and resources. While it takes 2,000 litres of water to produce a kilo of soybeans, 43,000 litres are required to produce the same quantity of beef. Meat is the most damaging product to the environment, with beef having the largest carbon, nitrogen, and water footprints per kilogram of product. Beef and dairy create the most intensive impact on our environment with, per unit of protein, beef production causing GHG emissions estimated to be up to 150 times those of plant proteins such as legumes. The least impactful animal product in terms of GHG emissions, chicken, still causes an estimated 40 times higher impact than legumes. None of these resource demands are sustainable in a scenario of increasing population, alongside rising temperatures and sea levels.

Through working in collaboration with others, companies can implement urgently needed collective actions across and along the supply chain to address broader food system challenges. Around two-thirds of consumers feel that independently verified sustainability standards increase their confidence in a brand, and initiatives such as the Global Roundtable for Sustainable Beef can help to mitigate some of the most serious risk factors, but so far these initiatives have not gone far enough, and too few firms are taking these measures seriously. To help with the evolution to a less-meat and more plant-based diet, partnerships and long-term investments in food producers can help to build skills, knowledge and capacity, helping to ensure that supply chains are future-proof.

There is a range of ways that companies can implement innovation in-house on this issue. Such initiatives do not necessarily need to come with an expensive research and development price tag, but can often take the form of low-cost measures: inspiring a modified dietary approach through appealing on-packet recipe suggestions that do not default to meat, factoring sustainable protein in as a category when making decisions on purchasing and placement, and thinking...
The idea of making [plant-based] products is attracting entrepreneurs and venture-capital firms who think that the traditional food industry is ripe for disruption because it is inefficient, inhumane and in need of an overhaul.  

The Economist

creatively about how to encourage consumers towards less-meat and plant-based options. Those companies that take a far-sighted approach to scoping and shaping this burgeoning market will position themselves for an ample market share, while others who lag behind may well find their current positions ebb away as consumers change allegiance and a warming climate makes existing food production models obsolete.

TAPPING IN TO A GROWING CONSUMER BASE
In recent years per capita consumption of meat, particularly in developed countries, has leveled off or even declined. Much of this shift can be attributed to people who are cutting back on rather than cutting out meat entirely. However, in Britain alone, over the past decade the number of vegans has risen by more than 360 per cent – with close to half of those 542,000 found in the 15–34 age bracket that will be the driving force in retail fortunes over coming years. This is by no means a localised trend, and between 2011 and 2015 there was a 60% increase in global food and drink launches carrying a ‘vegetarian’ label. Some companies are already paying attention to this trend and responding. For example, in summer 2016 Pret A Manger actively promoted a flagship store in the UK focused solely on meat-free and plant-based lunch options but branded ‘not just for veggies’ – the innovation paid off, with comparative sales at the branch reportedly up 70%.

Other market leading companies are developing plant-based alternatives to their prominent brands. One example is Unilever who, having previously dropped a lawsuit against the egg-free Just Mayo from Hampton Creek, subsequently developed its own Carefully Crafted Hellman’s offering. Meanwhile, with an ongoing trial of

“\n
The consumer demand for [non-meat protein] continues to grow, and we are keeping an eye on that because we want to stay relevant with consumers.”

Donnie Smith, CEO, Tyson Foods

Sales at a London Pret A Manger rose up to 70% when a meat-free menu was trialed.
vegan Ben and Jerry’s flavours in the US market, Unilever looks to have an eye on scooping up the non-dairy ice-cream market which, in the year to June 2016, had one of the highest dollar growth sales areas and grew nearly 44% in the US.51

Such surges in market share are not uncommon as increasing numbers of consumers look for healthier labels and more sustainable products. According to market analysis, Norway’s frozen meat alternatives category grew by nearly 77% in 201452 – the fastest growth within the country’s grocery trade – while in the first half of 2016 the exports of meat-substitute Quorn grew by more than 15%.53 In the UK, catering to increasingly health-conscious consumers bears financial dividends: high-street retailer Greggs recently posted a 6% rise in sales, which were boosted by its ‘balanced choice’ range.54

Clearly, the overall market is not just about catering to vegetarians but to the growing band of health-conscious ‘flexitarians’: Twenty-five percent of US consumers decreased their meat intake from 2014 to 2015, and meat alternative sales grew from $69 million in 2011 to $109 million in 2015.55 Those who are still eating animal alongside plant-based products are tending, where they can afford it, to be more discerning about their purchasing habits. For example, analysts highlight the $200bn ‘disruptive’ spending power of the millennial generation in the US who are spending two to three times as much on produce – be it grass-fed beef, artisan cheese or locally grown vegetables.56 As well as scrutinising in-store information for ‘clean labels’, engaged consumers have easier access to data on the relative merits and environmental footprints of different products, and the increase in a company’s exposure to online feedback highlights the need for greater attention to quality ingredients and transparency in sourcing.59

**POTENTIAL FOR PRODUCT INNOVATION**

It makes business sense for established brands to strengthen their less-meat and plant-based ranges in order to cater to the increasing demand.60 For example, Starbucks received nearly 96,000 requests to add almond as a non-dairy option on its menu to supplement the coconut milk and soymilk that was already available.61 Similarly, around 10,000 customers
contacted Pret A Manger to confirm demand when the UK high street retailer floated the idea of an all-plant-based store.\textsuperscript{62}

There is a clear appetite for a variety of plant-based alternatives alongside established animal products. While some established alternatives are increasing market share already – such as pea proteins, which grew 361\% in new product launches in 2014 and 183\% in 2013\textsuperscript{63} – others require further research and development. Food tech firms and an increasing number of new-entrant start-ups are looking to innovate and mimic the texture and taste of animal products to appeal to a broad base of consumers,\textsuperscript{64} with products such as algae (which may take another decade or so before the price can compete with milk and eggs).\textsuperscript{65} Another area that is ripe for development is cultured or lab-grown meat.\textsuperscript{66} The technology is exciting investors and environmentalists alike, with an independent study finding that lab-grown beef uses 45\% less energy than beef from cows, while also producing 96\% fewer GHGs and requiring 99\% less land.\textsuperscript{67}

Some of these innovative proteins require further research and development, and there is the all too common perception that ‘sustainable’ means more expensive. However, plant-based products can be lower-cost than producing traditional animal-based formulations, and when those savings are passed on to consumers this can further drive growth.\textsuperscript{68} Together with consumer education campaigns to highlight the benefits of a less-meat and more sustainable diet, such price incentives can help to stimulate consumer demand for these options. For example Sodexo, a leading global food services company, has collaborated with the WWF in the UK to reduce the impact of the meals they serve by creating healthier, more sustainable menu choices, alongside consumer education about the benefits of the partnership.

**PRACTICAL STRATEGY SUGGESTIONS FOR COMPANIES**

- **Increasing availability** of plant-based and less-meat options, which can be achieved through product reformulation as well as expanding the range of sustainable products;
- **Adapting choice architecture** in retail settings: improved labelling and packaging, alongside preferential positioning/placement of less-meat or plant-based options, offering customer choice;
- **Competitive pricing**, particularly in markets otherwise dominated by cheap, intensively reared and highly processed livestock products;
- **Promotion** of more sustainable choices through marketing and education to increase consumer awareness of the health, taste, cost-saving and wider sustainability benefits of a less-meat diet;
- **Research and development** in plant-based and cultured proteins, and product reformulation.

Plant-based proteins have been identified as one the top trends for 2016. (Image: Beyond Meat)
Many companies within the food and beverage sector are increasingly alert to the business case for sustainable supply chains – particularly with growing awareness of the systemic threats posed by unmitigated climate change, and the impacts that even small temperature rises will have on food security and future profit margins.

Companies should be encouraged by investors to examine their exposure to protein supply chain risks, and to set targets for diversifying their protein sources. This should include publishing a strategy with key milestones to monitor progress.

**JOIN THE FAIRR INITIATIVE**

The FAIRR Initiative is a network of global institutional investors with the aim of bridging the knowledge gap on risks related to factory farming. FAIRR is facilitating a coalition of institutional investors to address the issue of sustainable protein.

There are currently 40 institutional investors with combined AUM of $1.25 trillion supporting the collaborative engagement, including Swedish state pension funds AP2, AP3 and AP4, Aviva Investors, Boston Common, Collier Capital, Folksam, Nordea and Robeco.

The investors are engaging with 16 multinational food companies to highlight the material risks posed by this issue, and urging the companies to identify their strategies to respond to this risk.

For more information on FAIRR and the collaborative engagement, please contact rosie.wardle@fairr.org.

“**This isn’t a fad, it is a shift in consumer behaviour in North America toward plant-based food. That’s a shift we would like to accelerate. Because for the first time, people can pick those foods and not have to compromise on taste.**”

Matthew Sade, CEO, Kite Hill

“**On a global basis, alternate protein sources will grow faster than meat and seafood, which currently dominate but will begin to wane in coming decades. Global production increases are expected for protein-rich crops including soy, peas, rice, flax, canola and lupin.**”

David Sprinkle, Research Director, Packaged Facts
### TARGET COMPANIES FOR FAIRR’S INVESTOR ENGAGEMENT

Supermarkets, food retailers, and multinational food producers are central to food systems, and are both exposed to the risks and ideally positioned to seize the opportunities. For this reason, we have selected the companies below for engagement.

#### Multinational food manufacturers
- General Mills
- Kraft Heinz Company
- Mondelez International
- Nestlé SA
- Unilever

#### Multinational food retailers
- Ahold-Delhaize
- The Co-operative Group
- Costco Wholesale Corporation
- Kroger Company
- Marks & Spencer
- Wm Morrison Supermarkets
- Ocado
- Sainsbury’s
- Tesco
- Walmart
- Whole Foods Market

Each company will be encouraged to set quantifiable targets for increasing exposure to protein alternatives, publishing a strategy and key milestones to monitor progress. Over time, these steps should be developed into a corporate strategy, with annual targets for increasing exposure to and promotion of non-animal protein. This strategy would be made available to shareholders to monitor progress.
FURTHER READING


World Resources Institute, *Shifting diets for a sustainable food future*, WRI (2016) wri.org/sites/default/files/Shifting_Diets_for_a_Sustainable_Food_Future_0.pdf

WWF UK, *Catering for sustainability – Making the case for sustainable diets in food service*, WWF (2016), wwf.org.uk/foodservicefullreport?_ga=1.203612949.42416488.1471787854

WWF, *From individual to collective action – Exploring business cases for addressing sustainable food security*, (2015), assets.wwf.org.uk/downloads/wwf030_foodsustainability_exec_summary_online.pdf
ENDNOTES


3. Official guidance suggests that an adult should eat 0.75g [UK] or 0.8g [US] per kilo of body weight. For someone weighing 11kg, that amounts to around 55g of protein daily from a variety of sources.


18. For more detail on sustainable diets see, for example, the NHS Eatwell Guide, nhs.uk/Livewell/Goodfood/Pages/the-eatwell-guide.aspx and WWF’s Livewell 2020 Principles, wwf.org.uk/what_we_do/changing_the_way_we_live/food/livewell_2020/ [accessed 21 September 2016].


33. Springmann, Marco, et al [2016]. Analysis and valuation of the health and climate change co-benefits of dietary change, PNAS. Available online at: pnas.org/content/113/15/4146.full [accessed 21 September 2016].


42. WWF UK and the Food Ethics Council [2015]. From individual to collective action – Exploring business cases for addressing sustainable food security. Available online at: assets.wwf.org.uk/downloads/wwf030_food_sustainability_exec_summary_online.pdf [accessed 21 September 2016].


ACKNOWLEDGEMENTS

ShareAction and FAIRR would like to thank the food team at WWF UK, in particular Nick Hughes, and other members of the Eating Better alliance for their helpful comments on a draft of this paper. We further acknowledge the role of NGO stakeholders including Forum for the Future, World Resources Institute, and the Good Food Institute for their generosity in sharing perspectives on the topic of sustainable food.

CONTACT SHAREACTION

Clare Richards
Campaigns Manager
ShareAction
claire.richards@shareaction.org
020 7183 2359

Mara Lilley
Campaigns Officer
ShareAction
mara.lilley@shareaction.org
020 3475 7875

CONTACT FAIRR

Maria Lettini
Director
FAIRR
maria.lettini@fairr.org
020 7079 9529

Rosie Wardle
Programme Director
FAIRR
rosie.wardle@fairr.org
020 7079 9427

ABOUT FAIRR

Farm Animal Investment Risk & Return (FAIRR) is an investor initiative that puts factory farming on the ESG agenda. FAIRR aims to equip members with the tools and resources they need to assess the risks and opportunities associated with factory farming, and integrate these into investment processes.

ABOUT SHAREACTION

ShareAction [Fairshare Educational Foundation] is a UK charity that aims to improve corporate behaviour on environmental, social and governance issues, through responsible investment by pension funds and other institutional investors. http://shareaction.org

Disclaimer

ShareAction is not an investment advisor, and does not make any representation regarding the advisability of investing in any particular company or investment fund or vehicle. A decision to invest in any such investment fund or entity should not be made in reliance on any of the statements set forth in this report.

While the organisation has obtained information believed to be reliable, it shall not be liable for any claims or losses of any nature in connection with information contained in such document, including but not limited to, lost profits or punitive or consequential damages.