Recipe for Change

Building support for an industry levy to help make our food healthier

Version 2 (updated December 2023)
# Contents

- Executive summary ................................................................. 3
- Our vision .................................................................................. 4
- It’s hard to eat healthily when we’re surrounded by bad options .......... 5
- The result: too much of our food is unhealthy ............................... 6
- We know what works, but we aren’t doing enough of it .................... 9
- Our solution: financial incentives for reformulation ....................... 14
- There are different options for a new industry levy ....................... 16
- References ............................................................................... 19
Recipe for Change is a campaign calling for a new industry levy to help make our food healthier, while raising revenue that can be invested back into children’s health.

This report outlines the challenges faced by families in accessing healthier diets due to the environment they live in, and the current lack of incentives for businesses to act to improve this. The products sold and served to us could and should be healthier, and healthier food should be more affordable and accessible than less healthy products. It looks at the history of policy making in this area, including the limitations of voluntary programmes, showing where more action is needed. It explores the success of the Soft Drinks Industry Levy in reducing sugar and raising revenues for child health, and the opportunities for building on this to improve the healthiness of our food and in turn the health of children and families all over the country.

In this report two options are proposed for what a new fiscal measure could look like. One applies a levy to all salt and sugar purchased for use in all manufactured food and for catering, as recommended by the National Food Strategy. New modelling data is presented which demonstrates the potential health gains of introducing this first approach – over 2 million cases of chronic disease could be prevented, and up to £77.9 billion of overall economic gains including NHS cost savings. An alternative, more targeted approach could build on and work alongside the existing Soft Drinks Industry Levy, focussing on specific non-staple food categories that together contribute significantly to excess salt, sugar or overall HFSS consumption, such as confectionery, desserts, sweet and/or savoury snacks.

We are clear that a new fiscal incentive is a foundational part of building a food system which works for health and profit in tandem.

Our call to action:

1. For government to build on the success of the Soft Drinks Industry Levy by introducing a new levy on unhealthy food.
2. For business to change the recipe of the food and drink that they sell to make them healthier for all of us.
3. To invest revenue raised from the levy in children’s health and access to good food.

We would recommend that any new fiscal measure be introduced as part of a comprehensive package of educational and structural policies designed to tackle a wide range of dietary drivers.

We invite you to read our report, and to join the campaign by visiting: www.recipeforchange.org.uk
Recipe for Change is a campaign which is calling for a new food industry levy to help make our food healthier, while raising revenue that can be invested back into children’s health. Such a levy could be applied to all salt and sugar used in manufactured food and catering, or applied to specific product categories only. It has the potential to have wide ranging health and economic benefits by improving health and reducing cases of preventable diet-related disease such as obesity, cardiovascular disease, type 2 diabetes and various cancers.

Our vision

We must redesign our broken food system to put health first

Families want access to healthy, affordable and convenient food. It should be easy for children to eat healthily but the current market is flooded with cheap, unhealthy options making it harder to do so.

We have an opportunity to rebalance food environments to make them healthier for our children and build on the impact of measures like the Soft Drinks Industry Levy. The levy led to a reduction in sugar content across soft drinks purchased by all socio-economic groups, while raising money which has been invested back into children’s health. We must build on this success to ensure that healthier options are affordable and accessible for everyone.
It’s hard to eat healthily when we’re surrounded by bad options

“Choices are being stripped away from families. Processed foods are cheaper than fruit and vegetables, leaving many parents unable to access a healthy diet for their families”

Kathleen Kerridge, Food Foundation Ambassador

Our health is shaped by our surroundings

We know that the accessibility and affordability of different types of food influences what we eat.

In the National Food Strategy, Henry Dimbleby described the link between our dietary preferences and the food and drinks industry’s behaviour as a ‘junk food cycle’.1

We enjoy these foods. They are cheap. We buy more of them. Economies of scale increase, production costs fall further, margins increase, and businesses invest in marketing. They become even cheaper and more appealing. We buy more.

A third (33%) of food and soft drink advertising spend goes towards confectionery, snacks, desserts and soft drinks compared to just 1% for fruit and vegetables2.

This is about the environment that we live in and the commercial forces that are acting against us and our biology.

During times of population famine, our body’s ability to seek out energy-dense food and to resist losing weight, was essential for survival. However, when unhealthy, high-calorie and low nutrient food is so readily available and cheap, this biological trait no longer sets us up for optimal health.3

Teaching people cooking skills and about the importance of good nutrition are important. But education is not, on its own, a sufficient defence against food environments which offer unhealthy options at every turn. “Upstream” population-wide policies have been found to achieve larger reductions in population-wide salt consumption than “downstream”, individually focussed interventions.4

While most people are aware that fruit and vegetables are good for them, and that sugary and salty snacks and fast food aren’t, a range of other factors impact on what we eat such as price and special offers5.

As less healthy processed food has become cheaper, it has undercut healthier foods with shorter shelf-lives and more expensive production processes. Healthier foods are now around double the cost calorie-for-calorie of less healthy foods.6

Businesses are not incentivised to act

Many businesses state that they would like to improve the healthiness of the food that they sell, but the reality is that their overriding purpose will always be to maximise profit – we need to build a food system which makes healthier options the most profitable.

The products which are easiest to sell to us for a good profit are those that can be made with cheap ingredients, kept for a long time without wastage, and packaged with appealing branding and marketing. These tend to be highly processed foods that are high in saturated fat, sugar and/or salt (HFSS).

In industry jargon, these products are more ‘expandable’, meaning that people can be more easily persuaded to buy and eat more than they otherwise would – either because they tend to be purchased as snacks rather than eaten at mealtimes, or because they tend to be less satiating, meaning that people can eat more of them without feeling full.
The result: too much of our food is unhealthy

Our food contains too much sugar and salt

As much as 85% of the salt we eat is already in our food when we buy it, and just three categories – biscuits, confectionery and desserts – are responsible for 60% of the added sugar that we eat at home.

This makes it hard for people in the UK to eat within government guidelines.

As a nation, we eat 40% more salt than is advised, with 66% of children exceeding salt intake recommendations.

Sugar makes up twice as much of our total calorie consumption than recommended. And children eat even more sugar than adults – 95% of them are eating more than is recommended. Amongst children and teenagers, sugar is providing on average over 12% of calories.

Our food is harming our health as a nation

Four of the top five risk factors for poor health are related to diet.

High salt consumption is strongly associated with high blood pressure – increasing risk of major conditions such as stroke (by 23%) and cardiovascular disease (by 14%). Evidence also links high salt intake with an increased risk of other health conditions such as gastric cancer, obesity, osteoporosis and kidney disease.

High sugar consumption is a key driver of excess weight and obesity and of tooth decay – which results in the highest number of hospital admissions in children aged 6-10 years old. 24% of children in England have had experience of dental decay by age 5.

Sugar consumption is also linked with various chronic health conditions such as type 2 diabetes and musculoskeletal ill-health, as well as cardiovascular disease and a range of cancers.

The UK Government has a target to halve childhood obesity levels by 2030. The target was set in 2018, but since then levels of overweight and obesity in children have only increased further. In 2017/18 34.3% of children were above a healthy weight by the time they left primary school. Now, 37.7% are – more than 1 in 3.

Adult obesity rates have also increased substantially – from 53% in 1993, to 64% (almost 2 in 3 adults) by 2019.

---

1 Free sugars include honey, syrups and nectars whether added to products during manufacture or by the consumer.
**This costs the NHS and slows the economy**

Poor health isn’t only a problem for individuals. Poor population health also damages the economy – reducing our participation in the workforce and our productivity, and increasing our need for the social care and welfare systems.

When we look across the whole population, worsening health is costing the NHS significant amounts of money. For instance, the total economic impact of obesity in the UK is estimated to be around £58 billion annually.\(^{24}\) We spend about £18 billion a year on the direct medical costs of conditions\(^{25}\) – which is equivalent to the United Kingdom’s budget for the police and fire services combined. And this doesn’t account for the costs associated with many of the other diet-related conditions discussed above.

Reducing our salt consumption in line with international targets by 2030 could save the UK economy up to £11.4 billion by 2035.\(^{26}\)

**The products sold and served to us could and should be healthier**

Improving the food we eat and our health will require long-term political commitment and a wide range of interventions.

Amongst the most important is taking action to rebalance the price of healthier and less healthy foods, and to make the processed products that we now eat in large quantities as healthy as they can be. Unlike with soft drinks, companies manufacturing many of the unhealthiest foods are not required to pay additional levies for excess use of fat, sugar and salt.

We know that businesses change product recipes and portion sizes all the time, and that there is scope for them to remove significant quantities of sugar and salt from our diets in this way.\(^{27,28}\) This is called reformulation and it is a well-established public health tool for improving the nutritional composition of products. Reformulation can be achieved by small gradual changes in the recipes or the portion sizes. Ideally sweetness or saltiness should be gradually reduced and replacers not used. When the calorie density of processed food changes,
or sugar is reduced, people do not fully compensate by eating more elsewhere – their overall calorie and sugar consumption falls.\textsuperscript{29,30} Reformulation does not require any individual behaviour change as there is no need for individuals to consciously review and sustain changes to what they eat.

Slowly improving the balance of ingredients in everyday products could therefore have a big impact. Nesta have demonstrated that reducing the calorie content of the food categories that contribute most to calorie consumption by 10% would remove 38 calories per person per day from diets\textsuperscript{31} – a significant step towards the 216 calories per person per day reduction that would be needed to halve obesity rates.\textsuperscript{32}

Reformulation also has the potential to drive innovation and economic growth, as companies are encouraged to find new and creative ways to produce healthier products.
We know what works, but we aren’t doing enough of it

“Changing the food system isn’t just about averting disaster. It is also an opportunity to create something wonderful for ourselves”

Henry Dimbleby, 2021, National Food Strategy

Obesity prevention policies to date have seen limited success

689 separate government policies aiming to address obesity rates have been proposed over the past 30 years, but very few have been implemented and those that have been had little impact on overall obesity levels.33

This is because those that have been introduced have placed high demands on individuals to change their behaviour (for example through public health information campaigns, food labelling schemes, and educational programmes), overlooking the wider systemic issues influencing food choices.34

Such policies will have limited effect in isolation, and are likely to worsen health inequalities, not improve them. Of the small number of more equitable policies that would create more structural change (e.g. by restricting the ability of industry to advertise and promote unhealthy foods), many have been limited in scope or are yet to be implemented.

A successful strategy for reducing obesity would include a broad range of integrated policies that mutually reinforce each other – encompassing both policies that focus on individual behavioural shifts and those that seek to improve the food environment.

Voluntary initiatives have shown slow progress

We have tried different ways to encourage reformulation, many of which have been voluntary for industry to participate in. For a timeline of UK policy of reformulation see page 10.

Although voluntary approaches have led to some progress by companies, they have not led to change that is rapid enough to significantly improve public health.

The 2011 Public Health Responsibility Deal included commitments from individual businesses to reduce salt, trans-fats and calories in their food products, but led to little progress with many businesses concerned about the lack of level playing field and risks of competitive advantage of their competitors if they do not also make changes. The programme was widely criticised as ineffective in driving industry change by public health experts.

Similarly, the Voluntary Sugar Reduction Programme has resulted in limited overall change. Some categories made progress (notably breakfast cereals and yoghurts), but no categories achieved the government’s 20% reduction target by the end of the programme in 2020.

The Voluntary Salt Reformulation Programme initially saw greater success in the early 2000s, but progress has since stalled with only 52% of the 2014 targets having been met by 2017.35 Researchers from the University of Oxford found no statistically significant reductions in salt content between 2015-2020 in the 9 food categories that are part of the voluntary programme.36

It is now widely accepted, including by many in the food industry, that voluntary schemes will never deliver sufficient progress to support systemic change. The schemes lack accountability, with initial involvement optional, limited oversight, and no consequences for failing to fulfil any commitments that are made.
A short timeline of UK policy on reformulation:

**2006**
The Food Standards Agency (FSA) launches a set of voluntary salt reduction targets to be achieved by 2010. The targets cover the 85 food categories contributing most to salt intake. The programme aims to encourage businesses to reduce the amount of salt in processed and packaged foods.

**2008**
It is announced that salt intakes have fallen by 10%. A new set of voluntary salt reduction targets are published by the FSA to be achieved by 2012. These targets covered 80 categories of food and were more challenging than the 2010 targets.

**2011**
Responsibility for nutrition moves from the FSA to the Department of Health (DH). DH launch the Public Health Responsibility Deal, which is a voluntary partnership between the government and food industry, and commit to continue the salt reduction programme as part of the Deal. Individual businesses make commitments as part of the Deal to reduce sugar, calories and saturated fat in their food products.

**2014**
DH sets new salt targets to be achieved by 2017. These are on average 10% lower than the 2012 targets. A new set of targets for the out of home industry are also published.

**2016**
The Government publishes ‘Childhood obesity: A plan for action’, which announces a structured voluntary program to reduce the levels of salt, sugar and calories in everyday foods. All sectors of the food industry are challenged to reduce sugar in the foods that contribute most to children’s intake by 20% by 2020.

**2017**
Following on from the dissolved Responsibility Deal, which ceased to function after the 2015 General Election, Public Health England (PHE) re-publishes the 2017 salt targets.

PHE publish guidelines to support the voluntary sugar reduction programme.

**2018**
Chapter 2 of the childhood obesity plan is published, stating that the government will ‘consider further use of the tax system to promote healthy food if the voluntary sugar reduction programme does not deliver sufficient progress’.

The Soft Drinks Industry Levy is implemented, introducing a new tax on soft drinks that are high in sugar.

PHE release their analysis of industry progress towards achieving the 2017 salt targets, which demonstrates that around half of the targets were not met.

PHE launch a new voluntary calorie reduction programme. It challenges the food industry to achieve a 20% reduction in calories by 2024 in product categories that contribute significantly to children’s calorie intakes.

**2020**
The Government publishes a new Obesity Strategy in which is re-iterates its commitment to consider ‘further action’ if results are not seen through the voluntary sugar, salt and calorie programmes.

PHE publish revised salt reduction targets to be achieved by 2024.

PHE publish guidelines to support the voluntary calorie reduction programme.

**2022**
The Office for Health Improvement and Disparities (successor to PHE) publish the final progress report for the voluntary sugar reduction programme, showing widespread failure to meet the 2020 targets across product categories.
Only the Soft Drinks Industry Levy has been a resounding success

When compared with the range of voluntary reformulation programmes which have been attempted over recent years, the success of the mandatory Soft Drinks Industry Levy (SDIL) is marked.

The SDIL was introduced in 2018 with the aim of reducing the volume of sugar that was being consumed in the UK through soft drinks.

The levy, which manufacturers had 2 years to implement, created two new rates of tax on soft drink products, applied on the basis of a product’s sugar content: the ‘standard rate’ (18p per litre) applies to drinks with total sugar content between 5g and up to (but not including) 8g per 100ml; the ‘higher rate’ (24p per litre) applies to drinks with total sugar content equal to or greater than 8g per 100ml. There is no tax applied to drinks with sugar content of less than 5g per 100ml.

Clear evidence is now emerging that the SDIL has triggered substantial reformulation (at well above the levels seen in the voluntary sugar reduction programme), has reduced the sugar content of soft drinks being purchased, and is even starting to show measurable health benefits.

Reformulation and reductions in the volume of sugar sold

The total sugar sold through soft drinks fell by 34.3% between 2015 and 2020 (removing a total of 46,000 tonnes of sugar from our diets). In the first year after implementation the average household bought 8g less sugar per week.

These levels of sugar reduction weren’t achieved by selling fewer soft drinks (sales have in fact risen), but rather through reformulation and by shifting customers to lower sugar options. The average total sugar content of soft drinks fell by 46.0% between 2015 and 2020 - from 3.8g per 100ml in 2015 to 2.1g per 100ml in 2020.

These impressive levels of reformulation have been achieved because soft drinks businesses have invested in reformulation. Ribena Suntory has invested £13 million in reformulation since 2016, removing 25,000 tonnes of sugar from its drinks.

Figure 2. Change in total volume sales (litres) of drinks subject to the Soft Drinks Industry Levy and change in total sugar content of those drinks by socioeconomic group between baseline year (2015) and year 4 (2020) for retailers and manufacturer branded products

<table>
<thead>
<tr>
<th>Total Sugar Sales</th>
<th>Total Sales</th>
</tr>
</thead>
<tbody>
<tr>
<td>All -34.3%</td>
<td>21.3%</td>
</tr>
<tr>
<td>AB -35.4%</td>
<td>21.8%</td>
</tr>
<tr>
<td>C1 -28.0%</td>
<td>32.5%</td>
</tr>
<tr>
<td>C2 -36.5%</td>
<td>17.8%</td>
</tr>
<tr>
<td>D -36.5%</td>
<td>13.9%</td>
</tr>
<tr>
<td>E -38.4%</td>
<td>16.4%</td>
</tr>
</tbody>
</table>

Source: OHID, 2022, Sugar reduction – industry progress 2015 - 2020
Reduced inequalities

All socioeconomic groups purchased less sugar in 2020 than they did in 2015, but the biggest decreases were seen in the lower income group, where purchases reduced by over a third, as shown in Figure 2 above.

Lifetime modelling of the impacts of reductions in sugar purchasing shows that the positive health impacts of SDIL are likely to be largest for children and adolescents in the most deprived fifth of households.  

Improved health

19 months post-implementation, obesity rates had reduced by 0.8% from previous predictions in 10-11 year old children. In 10-11 year old girls the reduction was 1.6%, amongst children in the most deprived fifth of households the reduction reached 2.4%.

22 months post-implementation, the number of children being admitted to hospital for the extraction of teeth with dental caries had fallen by 12.1%.

Reduced pressure on the NHS

It is projected that SDIL will lead to net health gains and monetary benefits to the health sector. Modelling indicates that over the lifetime of the current UK population, SDIL could add 200,000 ‘quality-adjusted life years’ and prevent £174 million in health care costs. The overall benefit of these impacts will be worth £12.2 billion for the health sector.

Revenues

The SDIL has raised over £1.5 billion in revenues between 2018/19 and 2022/23, with the Office for Budget Responsibility forecasting a further £1.6 billion by 2026/27.

Though the full SDIL revenues have not publicly been accounted for, it is known that revenue from the SDIL has been spent on programmes for children, including the National School Breakfast programme, the Primary School Sports and PE Premium, and the Essential Life Skills Programme.

Continued profitability of the soft drinks industry

Despite the changes being driven by SDIL, the soft drinks industry has not suffered. The total volume of soft drinks sold has actually risen by 21.3% between 2015 and 2020, and the SDIL did not have long-term negative impacts on the economic performance of soft drinks companies – either by hitting their stock market performance, or their domestic turnover.

---

Figure 3. **Volume and total sugar content of retailer- and manufacturer-branded soft drinks sold liable to the soft drinks industry levy, 2015-2020**


\[\text{Quality adjusted life years is a measure of disease burden, and considers both the quality and quantity of life lived.}\]
Our solution: financial incentives for reformulation

“Sugar, rum, and tobacco are commodities which are nowhere necessaries of life, which are become objects of almost universal consumption, and which are, therefore, extremely proper subjects of taxation”

Adam Smith, 1776, The Wealth of Nations

We need to use all the tools at our disposal

Many successive governments over the past decades have claimed that they want to improve diets and reduce obesity levels. Successfully achieving this goal will require policy-makers to take an honest look at progress to date and to learn from what has worked well and from what has worked less well.

Past voluntary approaches to food reformulation have not produced sufficiently rapid results. By contrast, we know from our experiences with the Soft Drinks Industry Levy that mandatory measures work. This is where Government should focus next – doing more of what works, for the good of all our health, by expanding fiscal intervention to a wider variety of less healthy food products.

Other countries are ahead of us

Many other countries have already introduced taxes on less healthy food and are seeing early signs of success. For example:

- **Hungary** has incentivised switches away from processed foods and 20-35% reductions in the consumption of target products through a ‘public health product tax’ on foods high in sugar and salt that was introduced in 2011.65,66

- **Mexico** has seen purchases of target foods decline by around 6%67 and dental health improve68 following the introduction of a tax on non-essential foods with a high energy-density in 2014.

The World Health Organisation has concluded that the balance of evidence now suggests that taxes on unhealthy foods would have a large, positive effect on population health.69

The public and businesses are on side

Governments are often concerned about making more ambitious policy changes on food, fearing public backlash. But the public are less averse to government intervention than politicians often assume.

A representative survey conducted in May 2022 suggests that 73% of the public support requiring food manufacturers to reduce sugar and salt from everyday foods,70 and successive surveys have shown public support of around 50-60% for the introduction of fiscal incentives/taxes to improve health.71,72,73,74 Support for SDIL remains high post-implementation, with around 70% of adults expressing support between 2017 and 2019.75
Successful intervention will require government to take the public on a journey – building widespread understanding that the challenge of obesity is as much structural as individual. This has been successfully achieved in relation to climate change and tobacco control, with the public now accepting (and even demanding) much greater government support and intervention.

Food businesses are also increasingly supportive of government intervention on diets. CEOs of many major UK food businesses, including Aldi, LIDL, Compass, Greggs, Sainsbury’s and Tesco, signed a public joint statement in 2022 after the publication of the National Food Strategy to say that legislation is needed to help businesses accelerate their transition towards more healthy, sustainable practices.  

Eight of the biggest food companies in the UK – Costa, Danone, Deliveroo, Innocent, Chartwells, Jamie Oliver and KFC – have also said they need a level playing field to help them support better food for young people. In 2023, the CEO of Danone called for more taxes on unhealthy food.
**There are different options for a new industry levy**

Recipe for Change is calling on the Government to introduce a new fiscal incentive to drive reformulation of less healthy foods and to raise funds for improving health.

**Our research has led us to two main routes that the Government could choose to take:**

**Option 1 would be a broad upstream sugar and salt reformulation levy, like that envisioned in the National Food Strategy.**

Such a levy would be applied to all sugar and salt sold for use in processed foods or in restaurants and catering, and would therefore impact all processed food categories in which sugar or salt is used as an ingredient. Under this model, imports of processed food would also be taxed when they enter the UK on the basis of their sugar and salt content in order to prevent manufacturers off-shoring their operations to avoid the tax. The levy would include a carve-out applied to sugar and salt that goes straight to retail to avoid taxing ingredients that are used in home cooking.

The levy would be paid by the manufacturers and importers of processed foods. The National Food Strategy proposed it be applied at a rate of £3/kg on sugar (and other ingredients used for sweetening) and £6/kg on salt.

**Option 2 is a levy that would be applied to certain categories only, targeting a selection of discretionary/ non-staple products to drive reformulation.**

The tax would target categories that contribute significantly to excess sugar or HFSS consumption and which are ‘discretionary’ to the diet, to avoid the tax being applied to staple foods. Key categories to focus on are likely to include confectionery, cakes, desserts and biscuits, all of which contribute heavily to added sugar consumption.

A similar approach could be taken for savoury snacks and crisps or other processed foods containing high levels of salt. The product categories used by Government for restricting advertising and promotions which are based on categories that contribute most to children’s excess consumption, along with evidence from voluntary reformulation programmes, would provide a guide for defining which products would come into scope.
With large health and economic gains

Both policy options can deliver substantial public health and economic benefits.

Our campaign has published new research on the potential health and economic impacts of a levy, the results of which are described below.

A levy on all salt and sugar used in manufactured foods and catering (policy option 1) could:

- Reduce average salt intake by up to 0.9g per day and sugar intake by up to 15g per day
- Prevent almost 2 million cases of chronic disease, including over 1 million cases of cardiovascular disease (CVD), 571,000 cases of type 2 diabetes, 11,000 cases of cancer and 249,000 cases of respiratory disease over 25 years
- Provide gains of more than 3.7 million quality adjusted life years, worth £77.9 billion to the economy, over 25 years

And though their primary goal would be to encourage businesses to produce healthier products, a levy as recommended by NFS (option 1) could raise up to £3 billion which can be invested back into children’s health in programmes such as breakfast clubs, fruit and vegetable subsidies and Healthy Start cards.

In addition, a more targeted levy only applied to the sugar used in selected product categories contributing the most sugar to our diet could also play a role in reducing sugar intake and preventing disease. Initial modelling has shown that even a more targeted category based levy could prevent 800,000 cases of chronic disease over 25 years.

Our call to action

1. For government to build on the success of the Soft Drinks Industry Levy by introducing a new levy on unhealthy food.
2. For business to change the recipe of the food and drink that they sell to make them healthier for all of us.
3. To invest revenue raised from the levy in children's health and access to good food.

We are clear that a new fiscal incentive is a foundational part of building a food system which works for health and profit in tandem.

We would recommend that any new fiscal measure be introduced as part of a comprehensive package of educational and structural policies designed to tackle a wide range of dietary drivers.
About The Food Foundation:

The Food Foundation are a young, dynamic, and impactful charity with a mission to change food policy and business practice to ensure everyone, across the UK, can afford and access a healthy diet supplied by a sustainable food system. We are independent of all political parties and businesses. We work with others who believe there is a problem with the system and want to change it.

About Sustain:

Sustain is a powerful alliance of organisations and communities working together for a better system of food, farming and fishing, and cultivating the movement for change.

Together, we advocate food and agriculture policies and practices that enhance the health and welfare of people and animals, improve the working and living environment, enrich society and culture, and promote equity.

About the Obesity Health Alliance:

The Obesity Health Alliance is a coalition of 50+ health charities, medical royal colleges and campaign groups. We work together to positively influence policies to improve population health and reduce diet-related ill health.
References

1 National Food Strategy (2021), The Report
https://www.nationalfoodstrategy.org/the-report/

2 Food Foundation (2023), The Broken Plate
https://www.foodfoundation.org.uk/publication/broken-plate-2023

3 J. Speakman & J. Elmquist (2022), Obesity: an evolutionary context. Life metabolism 1:1
https://academic.oup.com/lifemeta/article/1/1/10/6575876?login=false

4 L Hyseni et al (2017), Systematic review of dietary salt reduction policies: Evidence for an effectiveness hierarchy?

5 Cancer Research UK (2023) Trolley trends report
https://www.cancerresearchuk.org/trolley-trends-reports?_gl=1*1y0l9xn*_ga*MjMxODI2MzExLjE2NTg5MTExMzc*_ga_587362ZGNM*MTY4NDg1Njk3Ni4xOS4xLjE2ODQ4NTY5ODkuNDcuMC4w&ga=2.208822934.526715518.1684856976-231826311.165891237

6 Food Foundation (2023), The Broken Plate
https://www.foodfoundation.org.uk/publication/broken-plate-2023

7 British Heart Foundation (2022), Reducing the UK’s salt intake: potential benefits

8 National Food Strategy (2021), The impact of a tax on added sugar and salt: IFS analysis
https://www.nationalfoodstrategy.org/the-report/

9 National Diet and Nutrition Survey (2018-2019), Assessment of salt intake from urinary sodium in adults (aged 19 to 64 years) in England

10 Food Foundation (2021), Children’s Future Food Enquiry

11 Food Foundation (2021), Children’s Future Food Enquiry.

12 National Food Strategy (2021), Global Burden of Disease 2019 data, NFS analysis
https://www.nationalfoodstrategy.org/the-report/

13 Scientific Advisory Committee on Nutrition (2003), SACN Salt and Health report: recommendations on salt in diet

https://www.bmj.com/content/339/bmj.b4567

15 World Health Organisation (2023), WHO global report on sodium intake reduction
https://www.who.int/publications/i/item/9789240069985

16 Scientific Advisory Committee on Nutrition (2015), SACN Carbohydrates and Health Report

17 Public Health England (2019), Child oral health: applying All Our Health
18 Food Foundation (2023), The Broken Plate
https://www.foodfoundation.org.uk/publication/broken-plate-2023#decay

19 World Health organisation (2021), Obesity and Overweight
https://www.who.int/news-room/fact-sheets/detail/obesity-and-overweight

20 Department for Health and Social Care (2018), Childhood obesity: a plan for action, chapter 2


22 National Child Measurement Programme 2021/22 (2022)

23 Health Survey for England 2021 (2022)

24 Frontier Economics (2022) The annual social cost of obesity un the UK

https://www.oecd-ilibrary.org/sites/6cc2aacc-en/index.html?itemId=/content/component/6cc2aacc-en

26 British Heart Foundation (2022), Reducing the UK’s salt intake: potential benefits


29 E. Robinson et al. (2022) Calorie reformulation: a systematic review and meta-analysis examining the effect on manipulating food energy density on daily energy intake. International Journal of Behavioural Nutrition and Physical Activity 19,48

https://www.nature.com/articles/ijo2015177

31 Nesta (2023) The future of food: opportunities to improve health through reformulation

32 Nesta (2023) Modelling ways to improve health: what would be required to halve obesity?


52. Office for Health Improvement & disparities (2022), Sugar reduction programme: industry progress 2015 to 2020. 

53. Rogers NT, Pell D, Mytton OT, et al (2021), Changes in soft drinks purchased by British households associated with the UK soft drinks industry levy: a controlled interrupted time series analysis. BMJ Open 2023;13:e077059. doi: 10.1136/bmjopen-2023-077059 [This reference was updated in December 2023 following an amendment by the authors of the original 2021 paper.]


https://www.beveragedaily.com/Article/2022/03/23/The-reformulation-journey-How-Suntory-has-reduced-sugar-in-its-drinks


57. N Rogers et al. (2023), Associations between trajectories of obesity prevalence in English primary school children and the UK soft drinks industry levy. PLOS Medicine. 
https://journals.plos.org/plosmedicine/article?id=10.1371/journal.pmed.1004160

https://www.medrxiv.org/content/10.1101/2023.02.27.2323286504v1


60. HM Revenue & Customs (2022), Soft Drinks Industry Levy statistics commentary 2022. 

61. Sustain (2021), Refreshing Investment in Children’s Health. 
https://www.sustainweb.org/reports/jan21-childrens-investment/


https://www.sciencedirect.com/science/article/pii/S1570677X19302096


https://apps.who.int/iris/handle/10665/156403

66. A Bíró (2015), Did the junk food tax make the Hungarians eat healthier? Food Policy. 


World Health Organisation (2022), Public consultation on the draft guideline: fiscal policies to promote healthy diets https://www.who.int/news-room/articles-detail/public-consultation-on-the-draft-guideline-fiscal-policies-to-promote-healthy-diets

YouGov polling, 5202 sample size (May 2022) Data available from OHA on request.

YouGov polling, 5202 sample size (May 2022) Data available from OHA on request.

Fleetwood research for the National Food Strategy, 2000 sample size (June 2021)

Demos, 1000 sample size (Aug 2020)

YouGov polling, 2832 sample size (Jul 2019)

J Adams (2021), Public acceptability of the UK Soft Drinks Industry Levy. BMJ https://bmjopen.bmj.com/content/11/9/e051677


Food Manufacture (2023), Danone UK boss calls for higher taxes on HFSS foods https://www.foodmanufacture.co.uk/Article/2023/06/13/Danone-boss-calls-for-higher-taxes-on-junk-food


Recipe for Change
Building support for an industry levy to help make our food healthier