Experimentation and behavioural change: How to develop social experimentation

David Halpern, President of BIT

Rencontres de Santé publique France - Juin 2024

BEHAVIOURA INSIGHTS TEAM

CONFLICT OF INTEREST DECLARATION

This intervention is made independently from the organiser of this meeting.

I do not have conflicts of interests with the topic of this session.

BIT is a current supplier on Santé Publique France's "études" framework agreement (lot 4 "sciences comportementales").



"Our government will find intelligent ways to encourage, support and enable people to make better choices for themselves."

...with a little help from our friends

...across the world

BIT projects

BIT offices

Local staff presence

1.

77 Countries

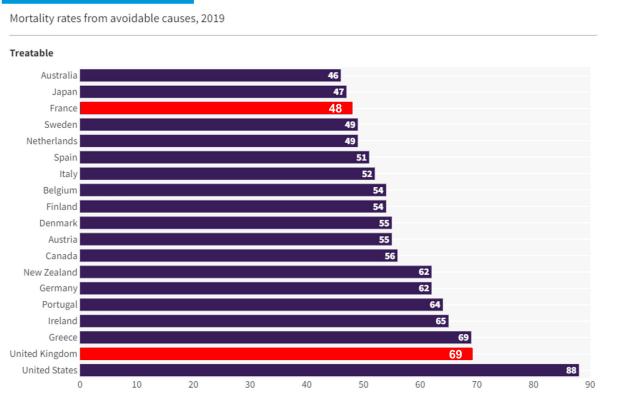
international offices (+2 countries with local staff)

1,000+

behavioural and experimental projects

How do France and the UK compare?

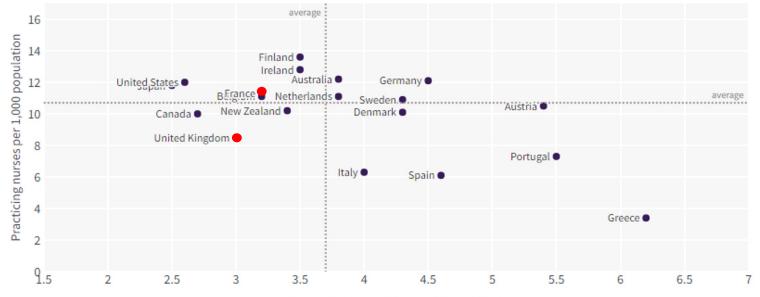
Patient outcomes are better, on average, in France than the UK



Source: King's Fund

Age-standardised rate per 100,000 people

France has more doctors and nurses per head than the UK (2019)



Practicing doctors per 1,000 population

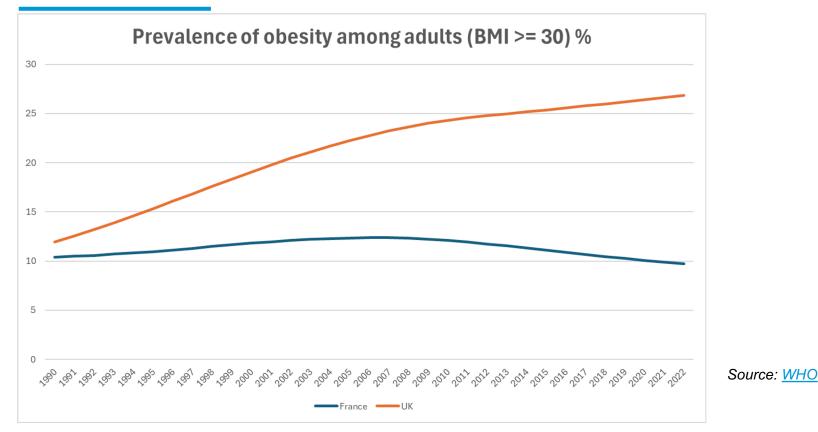
Source: King's Fund

Most years of life are lost through lifestyle and behavioural factors: 10 more years of life by changing behaviours?

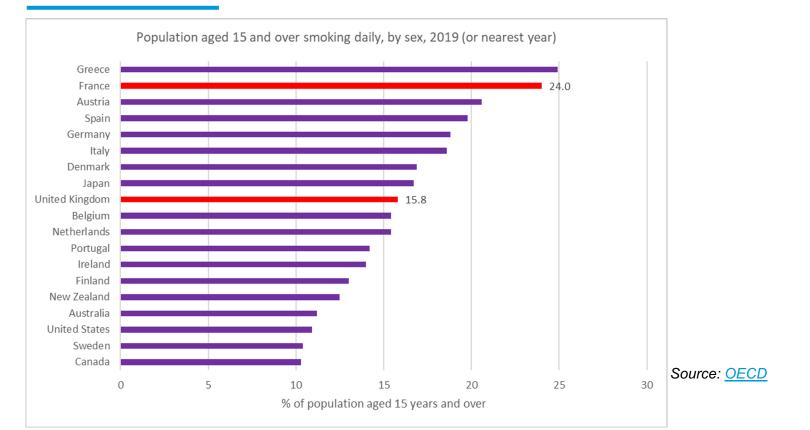
Risk	Estimated years of lost HLE across UK population
Diet (inc indirect effects)	2 – 4
Stress, purpose & relationships	0.5 – 2.5
Smoking	1 – 2
Alcohol	0.5 – 1
Physical inactivity	0.25 – 0.5
Air pollution	0.25 – 0.5
Total	4.5 – 10.5

Rough estimates for HLE achievable from addressing the primary known behavioural and environmental causes (Source: UK data, Behavioural Insights Team estimates). Published by the APPG for Longevity in 'The Health of the Nation. A Strategy for Healthier Longer Lives', February 2020, https://appg-longevity.org/health-of-the-nation

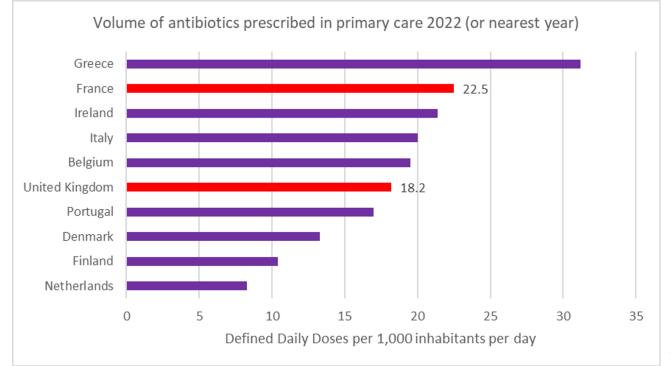
France has a far lower (and falling) prevalence of obesity than the UK



Other areas, France does worse, eg smoking



... or over-prescription of antibiotics (leading to AMR)



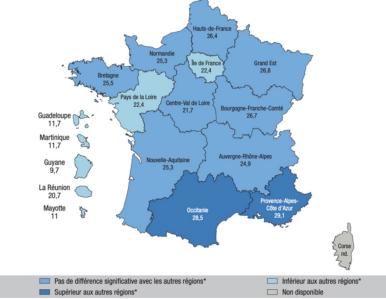
Source: Nuffield Trust, 2024

Within country differences are often more striking than between country

Smoking



Prévalence du tabagisme quotidien par région parmi les 18-75 ans en France métropolitaine et dans les DROM en 2021



* Différence significative au seuil de 5% pour la comparaison de chaque région au reste de la France métropolitaine. Pour cette comparaison, les taux sont standardisés sur la structure croisée par âge et sexe de la France métropolitaine.

** Pour Mayotte, la prévalence porte sur la tranche d'âge 18-69 ans en 2018-2019.

DROM : départements et régions d'outre-mer.

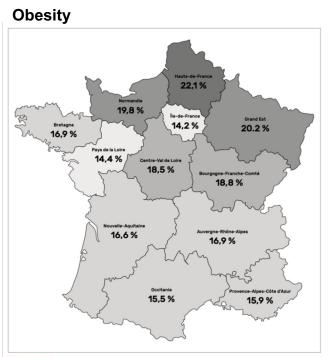


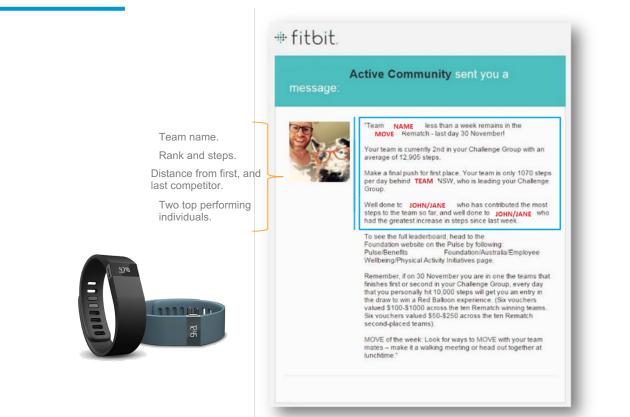
Figure 3 - Répartition géographique des prévalences de l'obésité en 2020 dans les régions françaises.

Upstream / downstream model

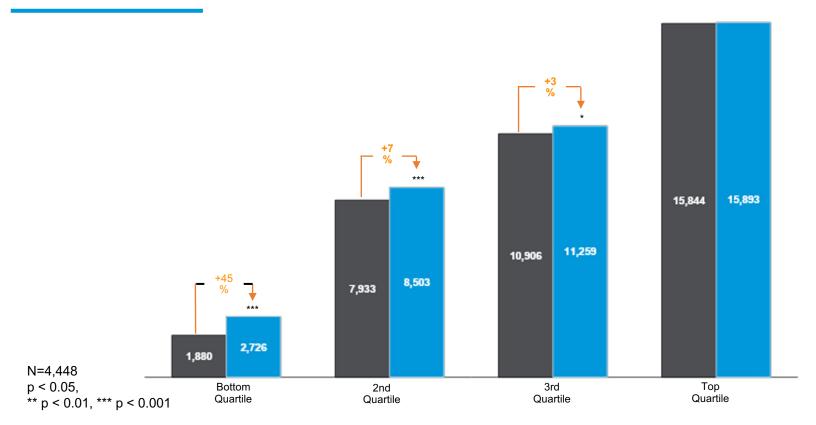
Behaviour change at three levels



Downstream: social gamification to increase people's physical activity



Downstream: social gamification had the greatest effect on the least active

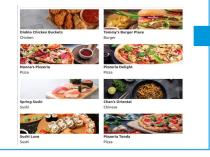


Midstream: changing the choice environment on online delivery platforms



Restaurant selection page

The first page displays all the restaurants available, with their name, a picture, and information on the type of cuisine offered. A filter is also available on the right hand side of the page to allow people to filter according to restaurant category (e.g. pizza, sushi, burger)



Food menu page

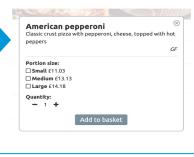
The food menu page displays the starters, mains, desserts, and drinks available from the selected restaurant. On average food menus on Take a BITe, include 25 food items to choose from. Selecting a food item opens a portion size popup window.

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Starters		
Deep fried calamari With a caesar dip	£6.39	Garlic bread 65.03 Veg
Olives V, Veg, GF	€2.87	Grilled chicken wings £6.39 With a special mixed-herbs dip GF
Halloumi fries V, GF	€4.67	
Mains		



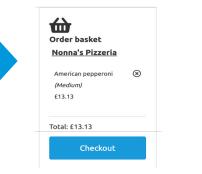
Portion size pop-up

The portion size pop-up allows users to select the portion and the number of items to be added to the basket. Each item is available in a small, medium, or large portion.

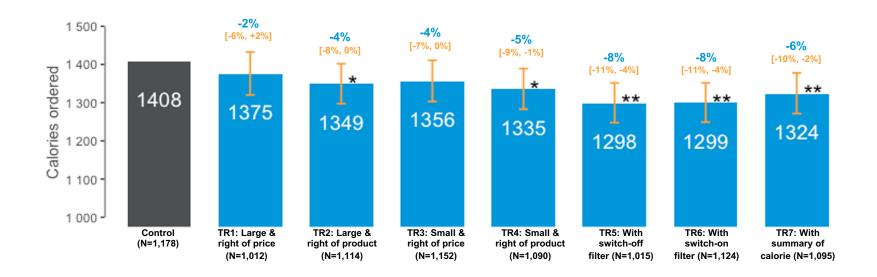




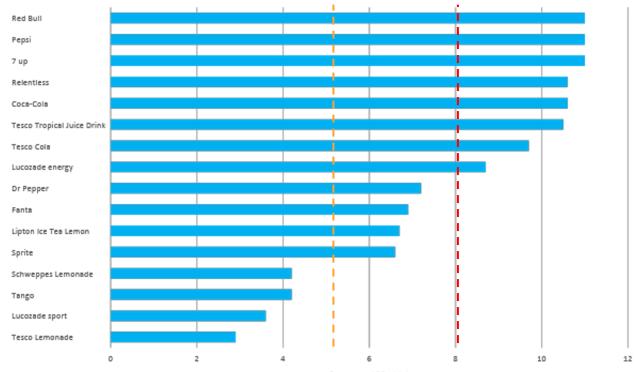
A 'check-out' section shows all the foods added to the basket, their portion sizes, their prices, and the price of the total basket. Once happy with their order, participants can 'check out'.



Midstream: effective interventions resulted in 59-110 fewer kcal/order.

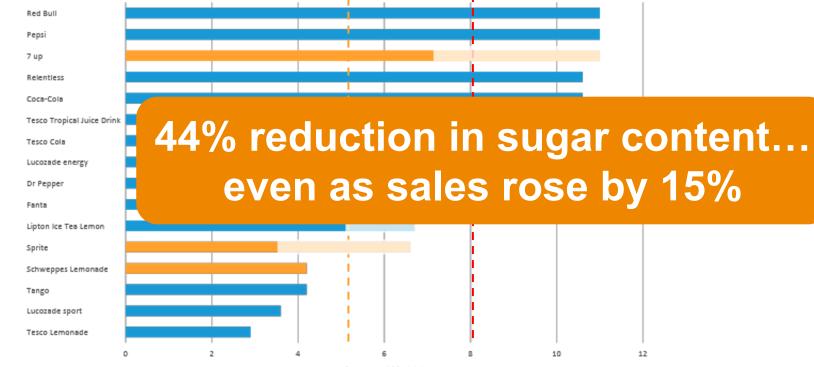


Upstream: Sugar tax: a 'double nudge'



Sugar per 100ml (g)

Upstream: Reformulation meant that the default changed for consumers



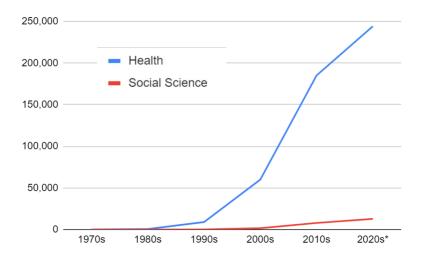
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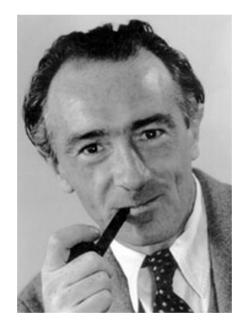
PHE (2020). Sugar reduction. Report on progress between 2015 and 2019.

Experimentation

Health is far ahead of social sciences when it comes to experimentation and evaluation...

Number of RCTs in Health vs Social Science (produced by the Campbell Collaboration)





Rapid experimentation: Simplifying COVID-19 messages

HM Government

Coronavirus Action Plan Public Information

The Government and NHS are well prepared to deal with Coronavirus

Protect yourself and others: wash your hands for 20 seconds each time.

Everyone can help. Wash your hands more often, especially when you:

- Touch other people
- Get home or into work
- Blow your nose, sneeze or cough
- Eat or handle food

Remember to use soap and water, or use hand sanitiser gel.

27.02.2020

For more information go to nhs.uk/coronavirus

NHS

CORONAVIRUS

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& OTHERS

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CORONAVIRUS PROTECT YOURSELF & OTHERS

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NHS

Coronavirus

NHS

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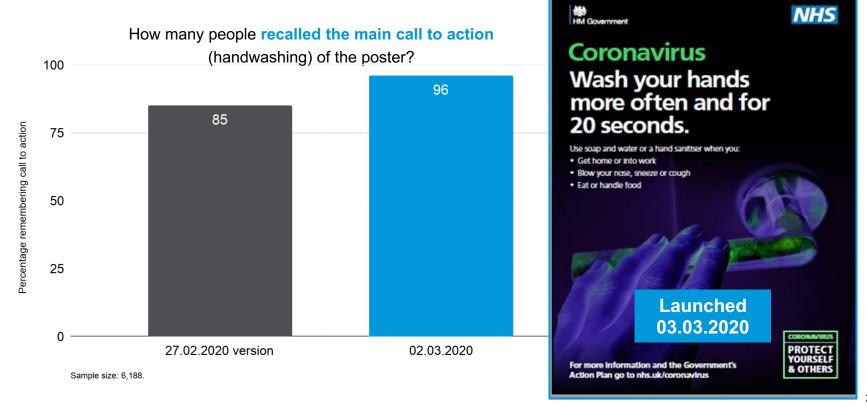
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Rapid experimentation: Simplifying COVID-19 messages



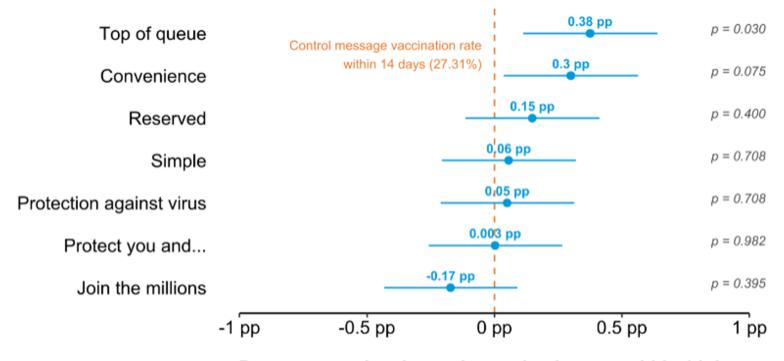
Fast, large scale experimentation built into our systems

NHS You are now eligible for your free NHS Covid-19 vaccine. Please book yours now at [LINK] or by calling 119.

Message 1: Control

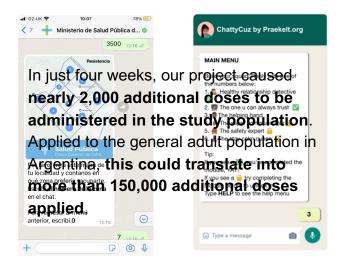
Theme	Message
Control	You are now eligible for your free NHS Covid-19 vaccine. Please book yours now at [LINK] or by calling 119.
Simple	You can now book your free NHS Covid-19 vaccine. Please book yours now at [LINK] or by calling 119.
Reserved	Your free NHS Covid-19 vaccine is waiting for you. Please book yours now at [LINK] or by calling 119.
Top of queue	You've reached the top of the queue and are a priority for getting a free NHS Covid-19 vaccine. Please book yours now at [LINK] or by calling 119.
Join the millions	You are now eligible for your free NHS Covid-19 vaccine. Join the millions who have already had theirs. Please book yours now at [LINK] or by calling 119.
Convenience	You are now eligible for your free NHS Covid-19 vaccine. Choose a time and place that suits you. Please book yours now at [LINK] or by calling 119.
Protection against virus	You are now eligible for your free NHS Covid-19 vaccine. Getting vaccinated is the best protection against coronavirus. Please book yours now at [LINK] or by calling 119.
Protect you and those close to you	You are now eligible for your free NHS Covid-19 vaccine. Getting the vaccine is the best way to protect yourself and those close to you against coronavirus. Please book yours now at [LINK] or by calling 119.

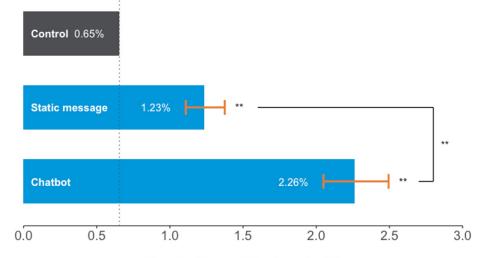
Fast, large scale experimentation built into our systems



Percentage point change in vaccination rate within 14 days

Leveraging new tools: Chatbots for good





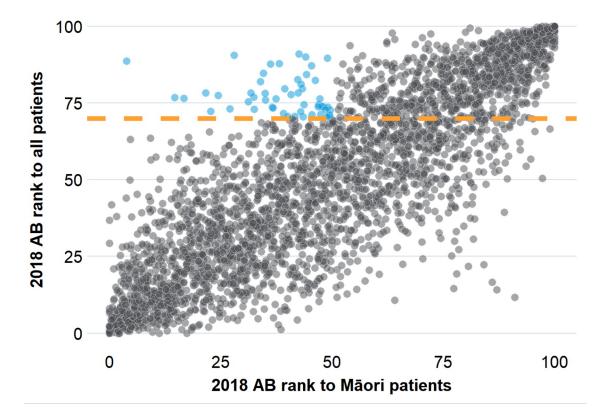
Vaccinations within 4 weeks (%)

n = 249,705

Other chatbot projects:

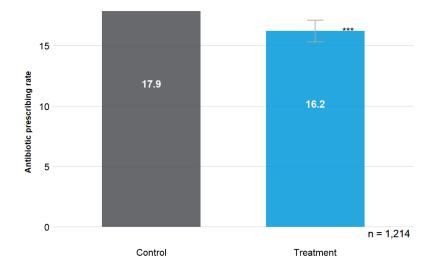


Nudging clinical behaviour...



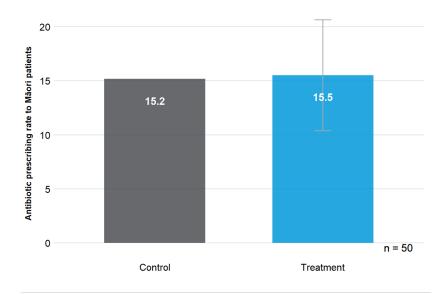
Blue dots = high prescribers overall but low prescribers to Māori

Overall prescriptions reduced by 9.2%, without changing rates to low prescription Maori patients

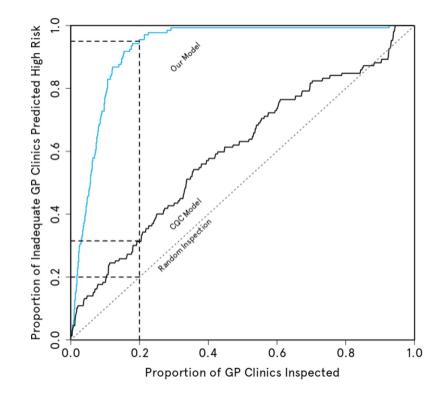


Overall change

Change to Maori patients with previously low prescriptions



Harnessing machine learning and user experience



Conclusion

Can we increase healthy life expectancy?

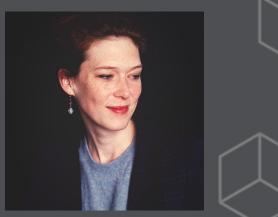
- Behaviour change is not just individual level... think 'choice environment' and system
- 'EAST': Easy, Attractive, Social, and Timely
- Experiment and evaluate...rapidly, using technology and new tools

Finally, ennable the public to 'shape the shapers' (...cf forthcoming work with SPF!)





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David Halpern

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FOREWORD BY RICHARD THALER, winner of the Nobel Prize in Economics

INSIDE THE NUDGE UNIT NEW UPDATED How small changes can make a big difference 'Stunning' Alain de Botton

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