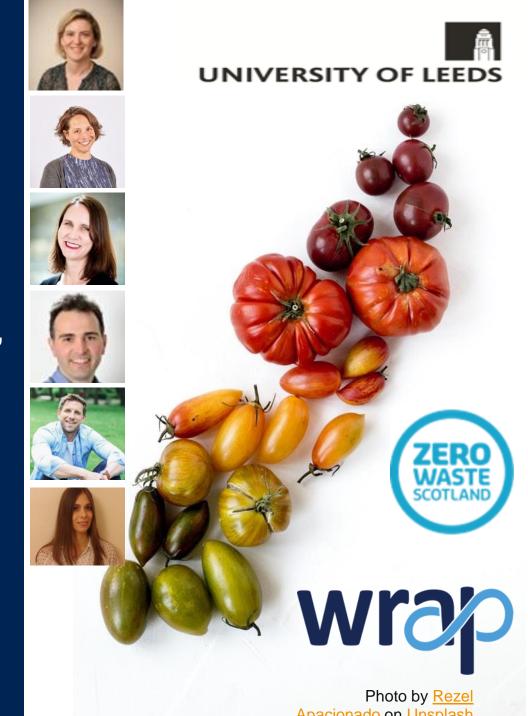


Capitalising on COVID-19 as a Trigger for Positive Change in Food Waste Behaviour

Team: ¹Dr Gulbanu Kaptan, ¹Prof Sally Russell, ¹Prof Kerrie Unsworth, ²Dr Tom Quested, ¹Dr Christian Bretter, ²Aggelina Doriza

¹University of Leeds and ²WRAP

Duration: Nov 2020 – July 2022





Agenda

- 10:00 Welcome and introduction
- 10:05 Why did we do this research?
- 10:15 How has Covid-19 influenced behaviour?
- 10:25 Key factors influencing household food waste
- 10:35 Can we influence people's behaviour?
- 10:45 Conclusion
- 10:50 Questions and Answers
- 11:10 Break
- 11:15 Breakout discussions
 - How will you use the findings?
 - What future research would be useful to you?
- 11:40 Feedback
- 11:55 Closing remarks



How we'll run the workshop

Chatham House Rule: Information disclosed during this workshop may be reported by those present, but the source of that information may not be explicitly or implicitly identified

Notes will be taken from the meeting. Comments relating to the findings of this research project may be quoted in the final evaluation report. However, any quotes used will be anonymised, and the quote will not be attributed to any workshop participant

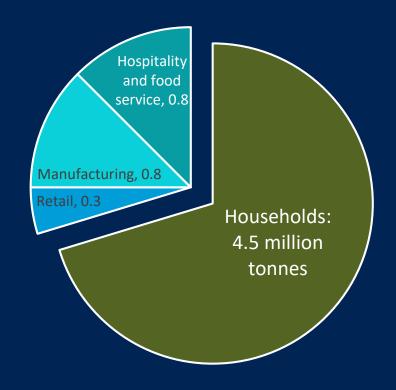
The presentations on findings will be recorded

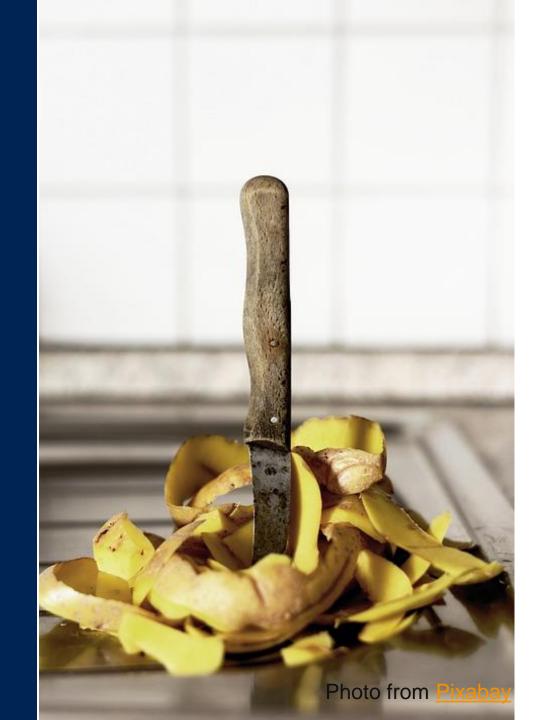
Why did we do this research?

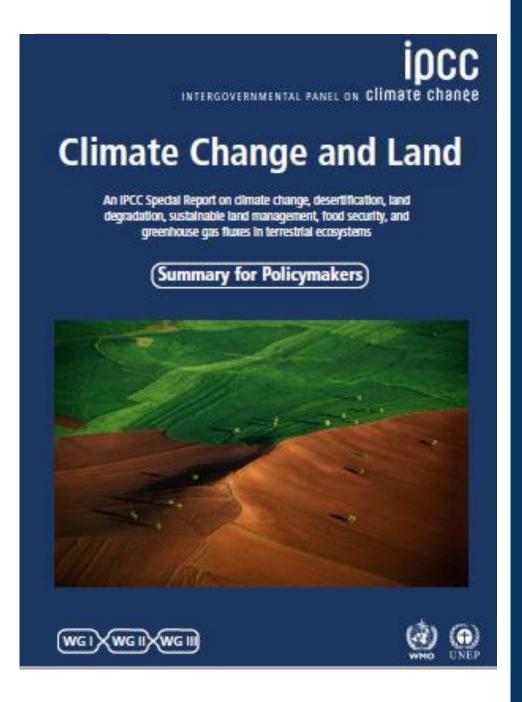


Photo by <u>Nastassia</u> <u>Ustyan</u> on <u>Unsplash</u>

Households generate more food waste than any other sector in the UK...







... the food thrown away requires energy and land to produce, and generates greenhouse gas emissions

"During 2010–2016, global food loss and waste equalled 8–10% of total GHG emissions ...

and cost about 1 trillion USD per year

. .

Food waste also costs households

In 2015, food waste cost the average household £540 each year



Final Report

Household food waste: restated data for 2007-2015



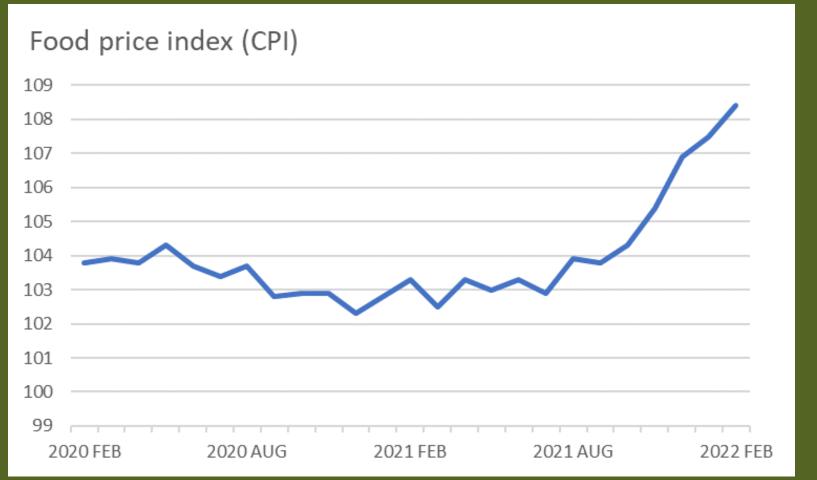
This report restates existing estimates for the amounts of food waste produced by UK households between 2007 and 2015. The information has been restated to align it with new international standards that WRAP helped to develop.

Project code: CIT012-004

Research date: July 2017 - January 2018

Date: 22 May 2018

... which is important due to increased living costs





So, what's the solution?



Multiple behaviours / practices





Different depending on type of food

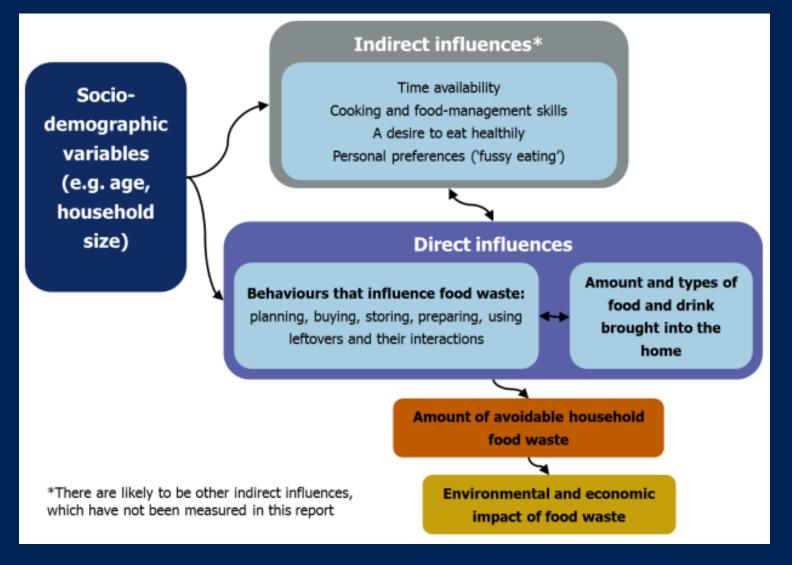
Photo by <u>nrd</u> on <u>Unsplash</u>

Varies between different groups of the population



Photo by Ben Allan on Unsplash

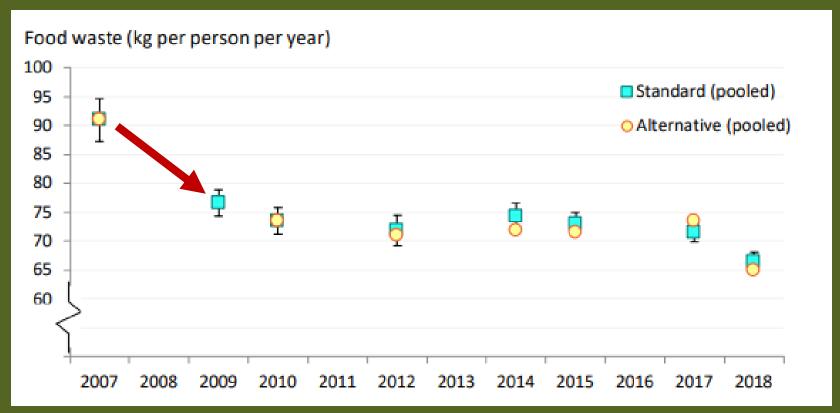
Understanding food waste can be as complex as sorting out spaghetti soup...



- Intensive initiatives, involving tailored support to households, can lead to large reductions...
- ... but scaling such interventions would be challenging



... change has occurred...





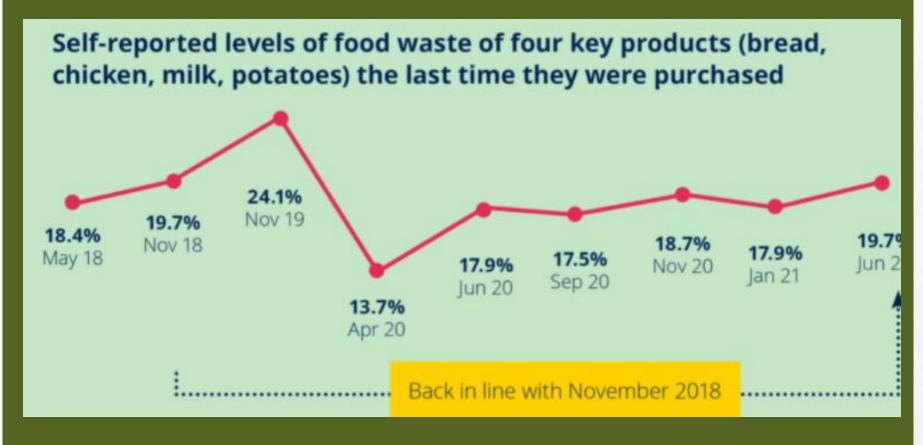
... possibly more than once

Self-reported levels of food waste of four key products (bread, chicken, milk, potatoes) the last time they were purchased





... possibly more than once







Key questions:

- What can we learn from the acute disruption of the pandemic?
- Does this tell us what factors are important to food waste?
- Can these factors be used to design effective interventions? And how?



Methods used

National representative survey

- Split over two time points
- 1,336 participants

Qualitative interviews

- 30 households
- Also responded to survey previously
- Grouped by 'responsibility'

Experimental interventions

- 5 x on-line experiments
- Total sample size = 4,122 participants



By the way...

Here are two concepts you are going to encounter:

Responsibility

 Refers to the subjective importance of medium-term goals, such as being a good person, protecting the environment, and ensuring social justice.

Altruism

Is the perceived importance of equality, a world free of conflict and caring for the weak.

How has Covid-19 influenced behaviour?





Consumer Interviews

- Conducted in May-June 2021
- 50-min interviews over Zoom with 30 of the survey participants, with different levels of responsibility goals (low *vs* medium *vs* high)
- Questions on
 - food waste behaviour
 - emotions about wasting food
 - food management behaviours (e.g., planning, buying, preparing) and change during Covid-19



Food waste in low vs higher responsibility groups

- Wasting food was more frequently mentioned in low responsibility group
- Nearly all respondents reported checking date labels, whereas this is a practice only for perishable foods in the higher responsibility groups
- There are overlaps across the groups, as well (e.g., leftovers)



Emotions about food waste

- Feeling *guilty, annoyed, disappointed, bad, and sad* were expressed in all groups
- Wider range of emotions (i.e., *feeling frustrated* and *distress*) were mentioned in lower compared to high responsibility group
- Negative emotions were less frequently reported in high responsibility group
 - "I throw so little away that it doesn't bother me"

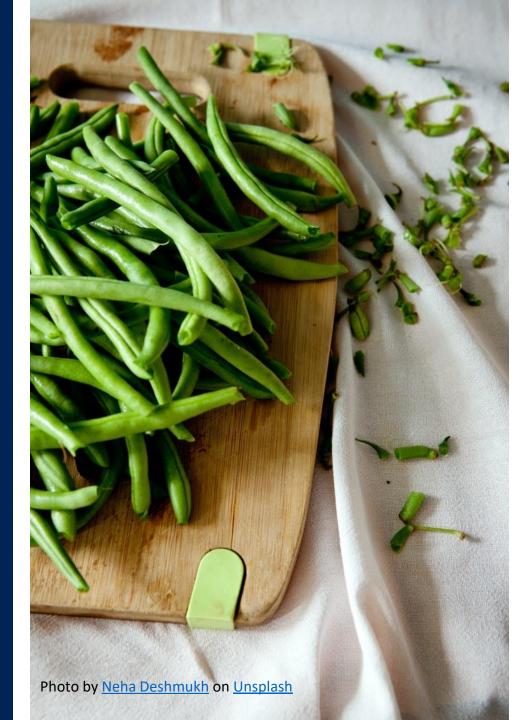


Behaviour change during Covid-19 in lower responsibility groups

- Switching to online shopping or more online shopping
- Less frequent shopping (although reported in all groups)
- Improvement in making shopping lists
- Improved meal planning
- Buying more frozen food
- More cooking at home

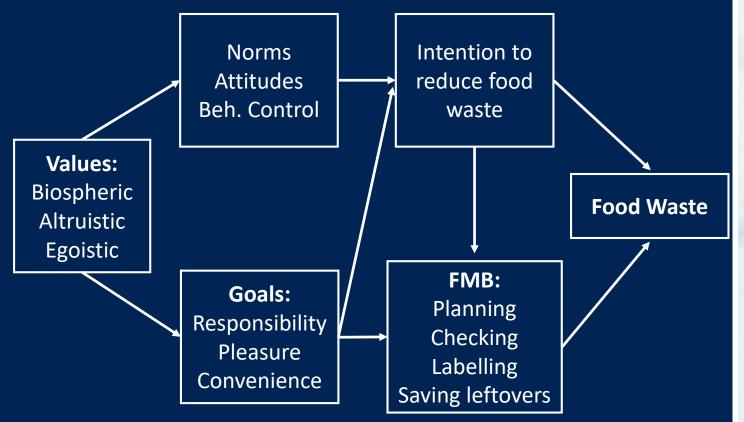


Key factors influencing household food waste



Food waste is complex...

Results of a nationally representative survey:







Can we influence people's behaviour?

Overview of Studies

Three initial experiments

- Responsibility-related text
- Responsibility-related questions
- Seeing images and messages



Initial Findings

Low altruistic people react differently to messaging when compared to high altruistic people.











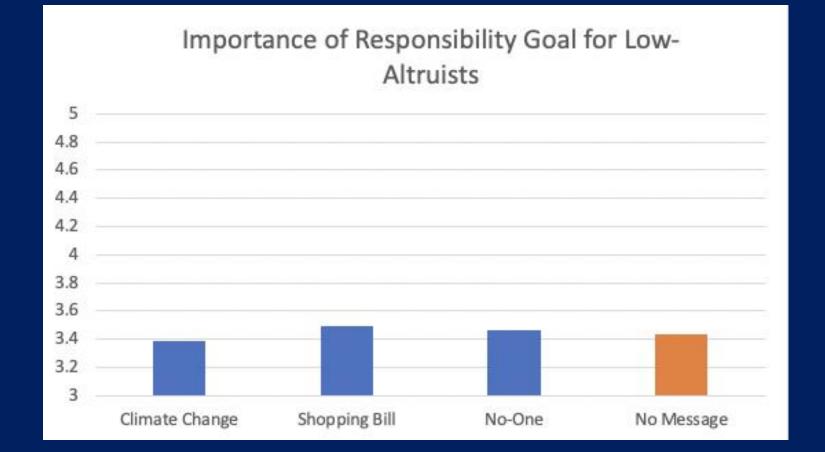


→ High-altruists find the responsibility goals more important after seeing the message 'Wasting food feeds no-one', compared to all other messages.











→ For low-altruists, our manipulations did not reveal any effect.







Making meal planning more attractive

We then investigated how to get low and high altruists engaged at the same time

- Image and message presentation
- Image and message and active engagement exercise



Experiment Manipulations

- Tasty food: Meal Planning. Because it is like planning a holiday for your tongue.
- Enough Food: Meal Planning.
 Because it makes sure you've got enough food on the table.



- Wide Range: Meal Planning.
 Because it keeps the whole family satisfied (except the dog)
- Environment: Meal Planning.
 Because how you fix the dinner can help to fix the climate crisis.











Goal Engagement

Outcomes

Planning intentions
General interest in planning
Demographics

Emotions Values

Highlighting different Goals





Active Engagement with Goals

How do you think meal planning can help you to eat delicious meals? Please write your answer in the box below.

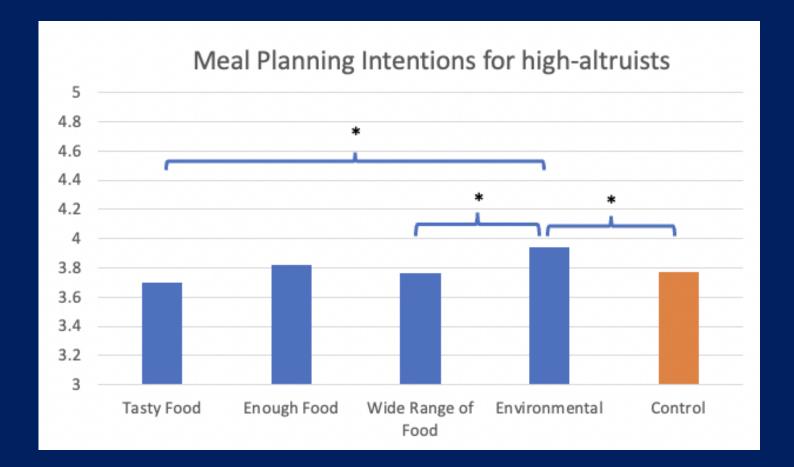
How do you think meal planning can help you to have enough food on the table? Please write your answer in the box below.

How do you think meal planning can help you to keep the whole family satisfied? Please write your answer in the box below.

How do you think meal planning can help you to fix the climate crisis? Please write your answer in the box below.

Measuring

Planning intentions
General interest in
planning
Values
Emotions
Demographics





→ High-altruists report higher meal planning intentions in the environmental condition, compared to the tasty food, wide range of food and control condition.

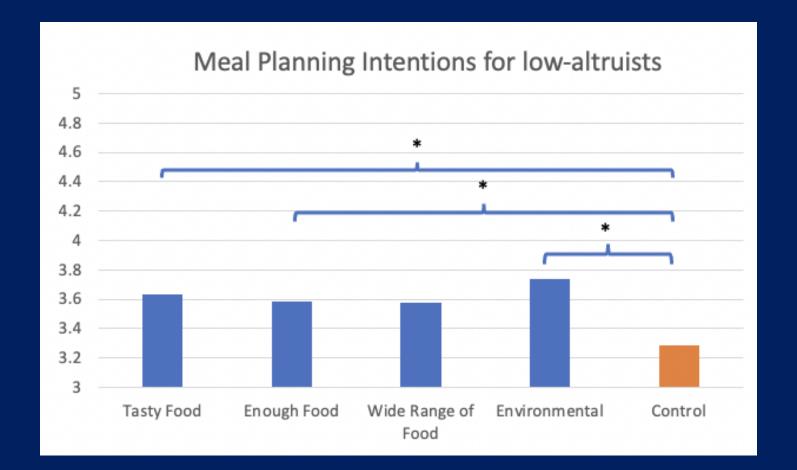








NO MESSAGE





→ Low-altruists also report higher meal planning intentions, but in the environmental, enough food and tasty food conditions conditions, compared to the control condition.









NO MESSAGE

Summary of Quantitative Studies

- 'Responsibility' seems to be important in affecting food waste.
- Individual's reaction to primes depends on their altruism.
- High-altruists respond to a lot of different messages.
- Low-altruists need to be more engaged and to be reminded on the benefit for themselves





Conclusions



So, what did we learn from the pandemic disruption?

Positive changes in food management behaviours were observed

 Across the whole population... especially amongst those in our defined low-responsibility group

...but change was short-lived



Does this tell us what factors are important to food waste?

In short, yes – but it is complex...

Our research reveals that various factors predict and influence food waste, with two being found as important predictors:

1) Responsibility

More responsible → more likely to engage in FMB

2) Altruism

High in altruism → more likely to respond to cues/messages



Can these factors be used to design effective interventions? And how?

 The findings set the scene and suggest that goals and values play an important role in determining food waste...

• ...helping to create informed campaigns and interventions that aim to reduce food waste with better audience targeting that will increase message relevance and the extent to which is translated into attitude and behaviour change



Finally, are there any limitations?

- Our research construct is novel, no other empirical studies that examined the relationship between values and food waste behavior.
- A few **considerations** when looking to translate the findings or conduct further research:
- ☐ Generalizability and transferability
- ☐ Representativeness of the final sample
- ☐ Correlation vs. causation
- ☐ Self-reported food waste data
- □ COVID-19 impact



UNIVERSITY OF LEEDS

Next...

 For the presentation slides and stakeholder workshop report, please see our project website at

https://bit.ly/foodwastebehaviour

 For questions, further comments, and suggestions, please contact the project team at g.kaptan@leeds.ac.uk

