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UNIVERSITEIT VAN AMSTERDAM Faculteit der Maatschappij- en Gedragswetenschappen

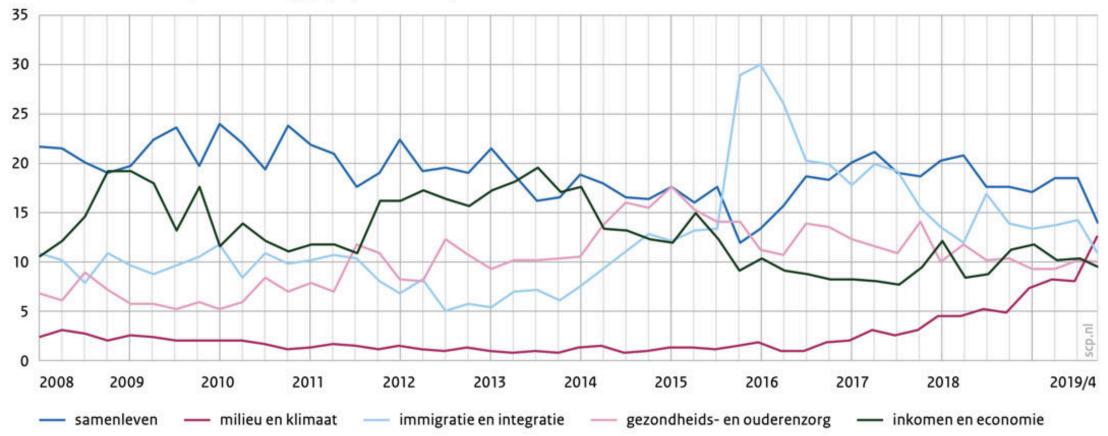
Understanding and changing Consumer perceptions and behavior towards polymers

Prof. dr. Frenk van Harreveld



Perceived importance climate change

Figuur 1.5 Ontwikkelingen in het nationale probleembesef, de vijf grootste categorieën van dit kwartaal, bevolking van 18+, 2008-2019/4 (in procenten)^a









Environmental concerns

	Global warming/climate change
	Dealing with the amount of waste we generate
	Air pollution
25	Future energy sources and supplies
21%	Over-packaging of consumer goods
21%	Depletion of natural resources
20%	Overpopulation
18%	Wildlife conservation
15%	Water pollution
13%	De-forestation
13%	Emissions
13%	Future food sources and supplies
9%	Poor quality drinking water
9%	Flooding
2	Soil erosion



45%

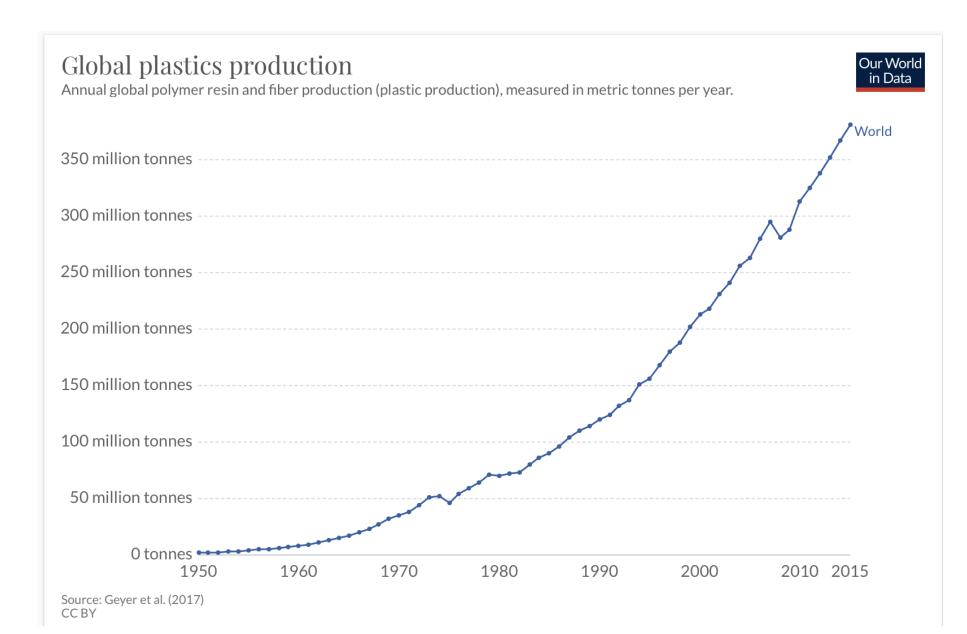
40%

30%

25%

1%







Plastic: Why Coca-Cola won't be ditching single-use plastic bottles

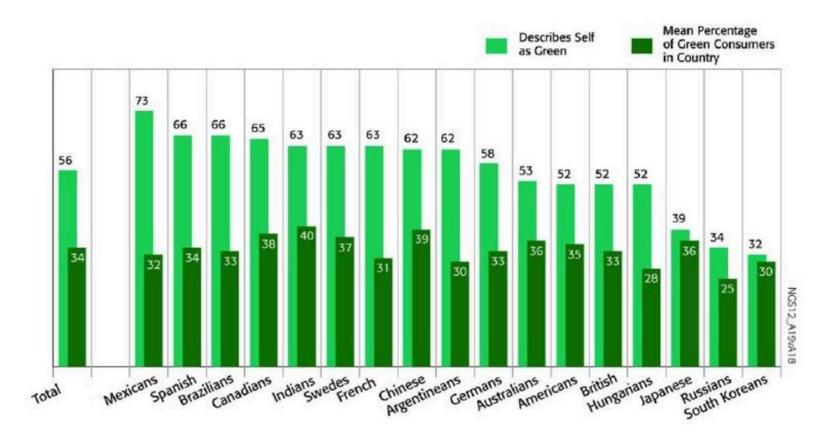
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One of Coca-Cola's bosses has said that the soft drink company won't stop using <u>single-use</u> <u>plastic</u> because people still want plastic bottles.

Bea Perez, who is the firm's head of sustainability, argued that customers like them because they reseal and are lightweight.

Mind the gap



Terlau, W. & Hirsch, D. (2015). Sustainable Consumption and the Attitude-Behaviour-Gap Phenomenon - Causes and Measurements towards a Sustainable Development. *Int. J. Food System Dynamics 6*, 159-174



Psychological distance

"a cognitive separation between the self and other instances such as persons, events, or times."

Trope & Liberman (2003).





The psychology of sustainable behaviour













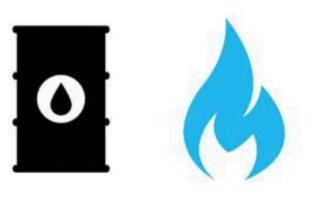


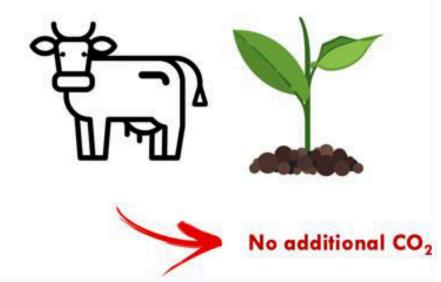


fossil feedstocks



biomass







You will now be presented with a number of statements. Please indicate to what extent you agree with each of the statements. (7-point Likert-scale from 0 = strongly disagree to 6 = strongly agree)

Plastic/Bio-based plastic...

- I. ... is convenient.
- 2. ... is lightweight.
- 3. ... is cheap.
- 4. ... is readily available.
- 5. ... is **useful.**
- 6. ... is durable.
- 7. ... is hygienic
- 8. ... is safe.
- 9. ... is good for storage and packaging.

10. ... is recyclable.

11. ... takes a long time to decompose.

12. ... pollutes bodies of water (e.g. oceans).

3. ... causes waste.

14. ... pollutes the air.

15. ... is harmful to people's health (e.g., by entering the food chain or drinking water).

- 16. ... is harmful to animals.
- 17. ... depletes natural resources.

18. ... is often of poor quality (e.g., breaks easily).





We are now going to ask you about your feelings concerning plastic/bio-based plastic use. Please indicate how much you agree with the following statements. (7-point Likert-scale from 0 = strongly disagree to 6 = strongly agree)

When I think about plastic/bio-based plastic use, I feel....

- ... worried.
- ... joy.
- ... guilty.
- ... sad.
- ... angry.
- ... uncertain.
- ... excited.





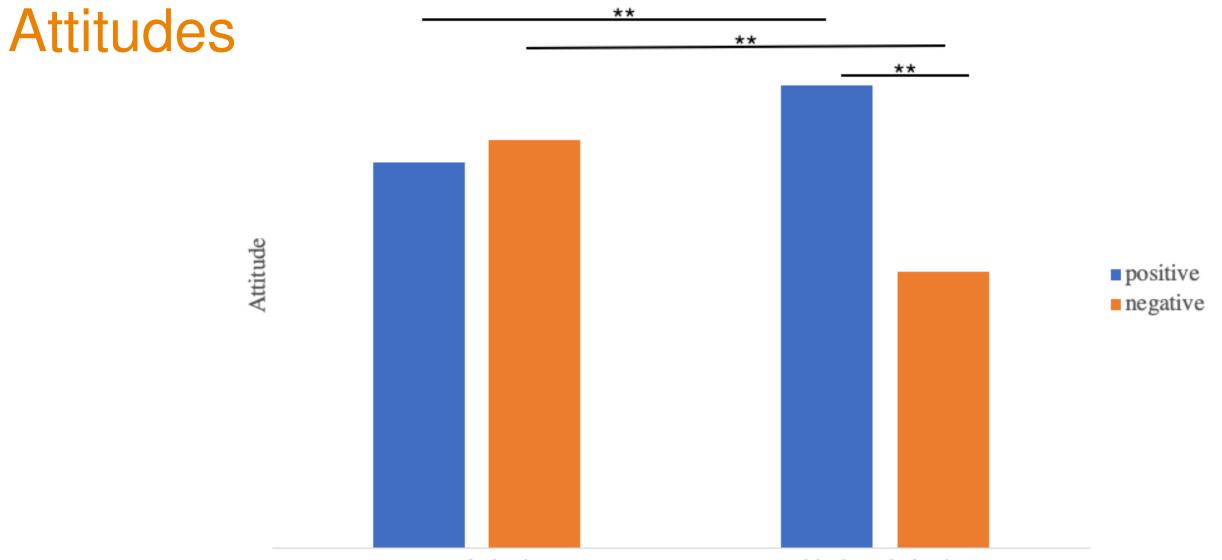


This 1.5L regular plastic bottle of water costs £1.

How much would you be willing to pay for the same bottle of water if it were made from **bio-based** plastic?

£1

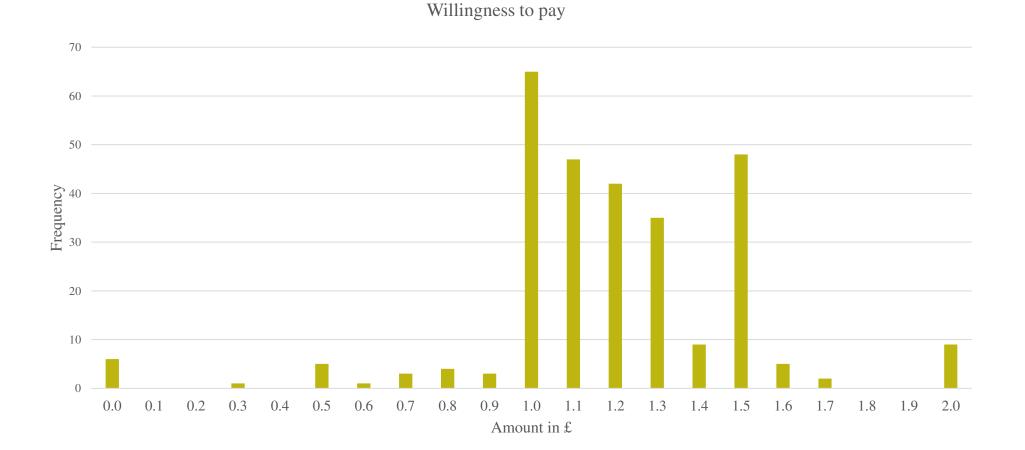
£0



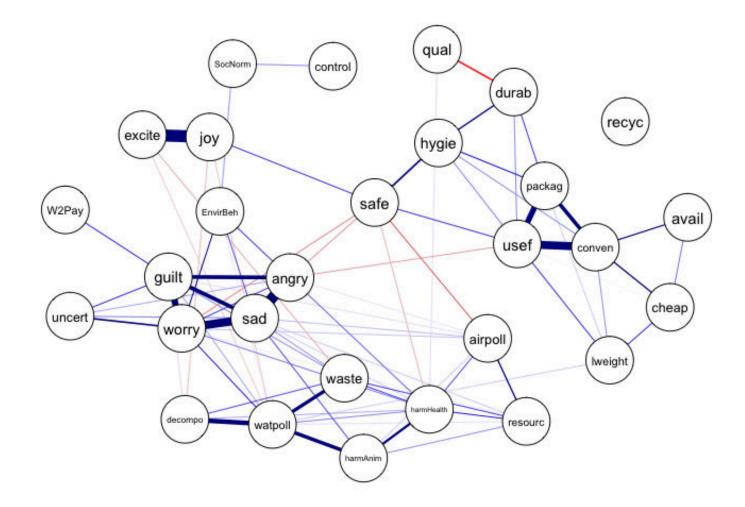
normal plastic

bio-based plastic

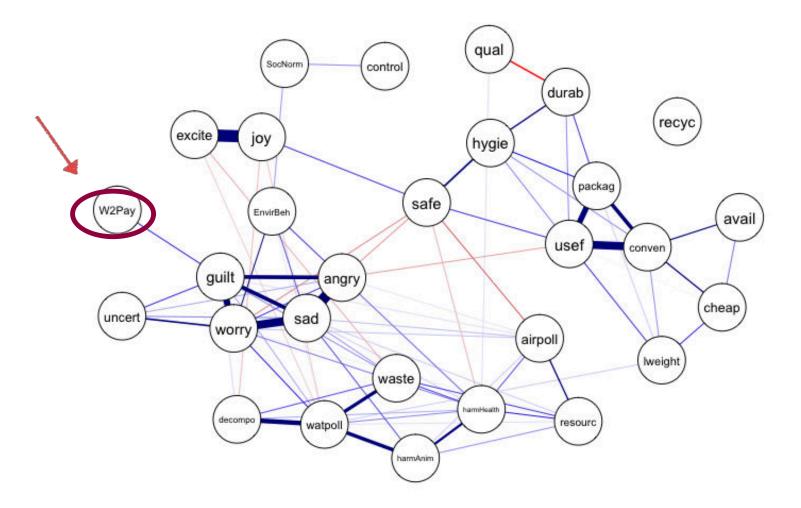
Willingness to pay



Plastic attitude network



Plastic attitude network





Willingness to pay: donation







t(230.517) = - 1.966, p = 0.05*

> **Emotions** excite joy W2Pay EnvirBeh guilt angry sad uncert worry



Emotions

None of the other emotions that we measured predict donation amount.

- Anger
- Excitement
- Guilt (t = 3.117, p = 0.002, β = 0.182)
- Joy
- Uncertainty
- Sadness
- Worry



R² = 0.033, F(1, 283) = 9.713, p = 0.002



Conclusions

- Broad values of consumers about the environment are not always translated into behaviour.
- ► Bridging the gap between attitudes and behaviour.
- Empirical network models provide insight into primary drivers of behaviour.
- Inroads into targeted persuasion strategies to change behaviours.
- ► Educating the public about consequences of plastic.

Emissions from the Plastic Lifecycle

Annual Emissions from the **Plastic Lifecycle** 189 Source: © CIEL Note: Compared to 500 megawatt coal-fired 2019 2030 2050 power plants operating at full capacity.



Moving forward

- Psychological distance revisited: reducing distance to the benefits of changing towards more sustainable behaviour.
- ► Visibility is key
- ► Role models
- ► Positive emotions

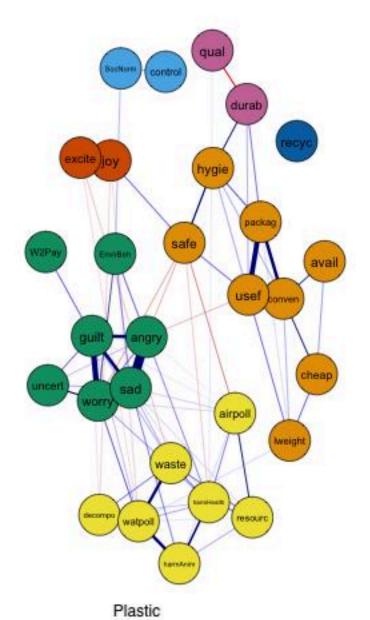


INTERPERSONAL RELATIONS AND GROUP PROCESSES

Going Green to Be Seen: Status, Reputation, and Conspicuous Conservation

Vladas Griskevicius University of Minnesota Joshua M. Tybur University of New Mexico

Bram Van den Bergh Rotterdam School of Management



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