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CAN WE NUDGE TO NET ZERO?

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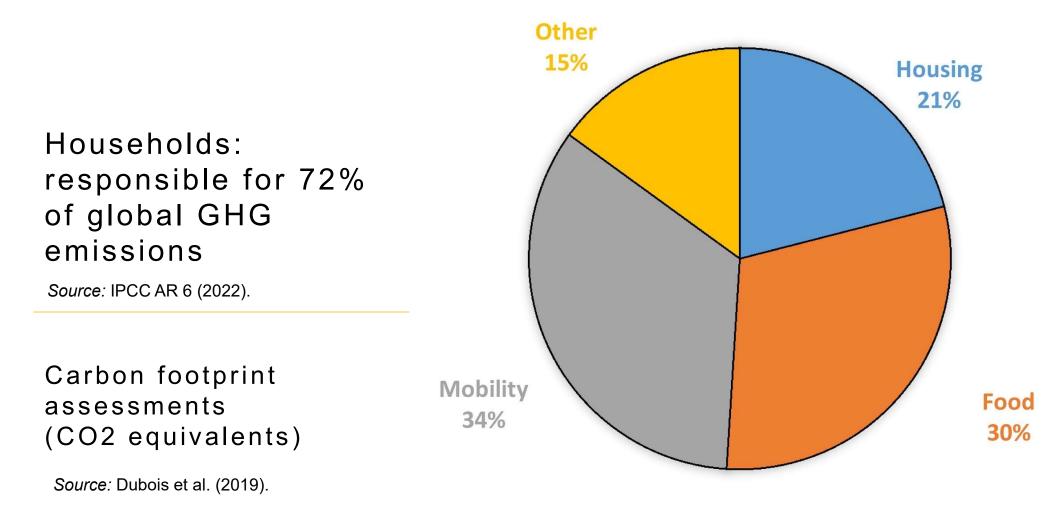
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The demand side dilemma











Once we have weaned off fossil fuels, it will be food that has the largest climate and biodiversity impact.



Dasgupta Review

Demand-side policies

Regulation

- bans, mandates, product and process standards, guarantees, soft law

• Financial (dis)incentives

- taxes (carbon taxes, VAT), subsidies (climate bonus); cap & trade schemes

Public procurement

- preferred vendor, market development

• Choice architecture & behavioural insights ("nudges")

Co-production and empowerment

- innovation agencies, living labs, participation

Disclosure and information

- deshrouding (labels), observatories, GHG inventories

Capacity building

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- education & advice; consumer organization





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▲ Chapter 5: Demand, services and social aspects of mitigation

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The panel concludes that behavioural interventions can increase the efficacy of pricing strategies, mandates, subsidies and taxes.



Intergovernmental Panel on Climate Change (IPCC), AR 6

The essence of "behaviourally informed policy"







bounded rationality behavioural capability behavioural lens understand & predict multiple theories empirical & experimental human-centred participative

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Demand Side Net Zero Strategies

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- 1. BETTER: efficiency, innovation
- 2. LESS: sufficiency, moderation
- 3. TOGETHER: collaborative consumption, sharing, avoiding peaks
- 4. SMARTER: new materials, bioeconomy
- 5. CIRCULAR: circular economy, repair, zero waste
- 6. SELF: prosumerism, own-production

Factor in the behavioural factor!

What makes acting on values so difficult? Behavioural barriers

- **Present bias and hyperbolic discounting** "future generations" are far away
- Loss aversion people are more negative about anticipated losses than they are positive about anticipated gains; politicians try to push losses into the future
- Missing immediate feedback on consequences long term, shrouded, not salient
- **Consumer confusion** it is puzzle!
- Misinformation and disinformation re most climate-friendly choices, climate attribution (?)
- Free riding and NIMBY as regards provision of public goods individual and national level
- No specific villain, diffusion of responsibility countless faceless people colluding
- Subjective **cost-benefit estimation** is often against it (anything but FEAST)
- ...



My personal living lab





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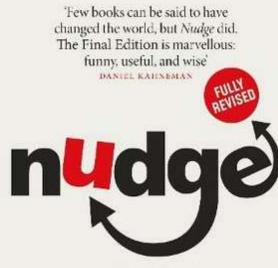


- ☺ 14 months of planning plus 22 months of execution
- © Ca. 2000 eMails over 3 years
- © 12 visits to the municipal "Climate Office"
- Complicated (and changing) proposals for (municipal, regional, and federal) Energy Efficiency Funds
- Service Complex application forms
- Overbooked energy counsellors, climate finance and building permit offices
- © Challenging to get bank loans for over 55-year-olds
- S Lack of skilled heating engineers
- Shortage of highly efficient heat pumps, solar panels, and insulation material
- IMBY ism and complaining neighbours
- ◎ (plus: inflation, material shortages, COVID)

A **nudge** is "any aspect of the **choice architecture** that alters people's behaviour in a predictable way without forbidding any options or significantly changing their economic incentives.

To count as a mere nudge, the intervention must be easy and cheap to avoid." (p. 8)

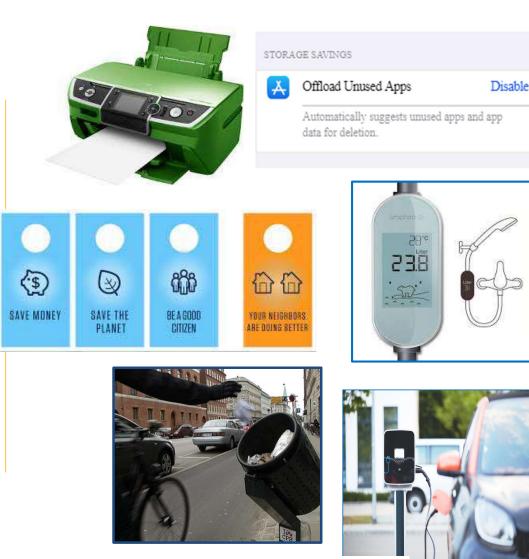
THE GLOBAL BESTSELLER



The Final Edition

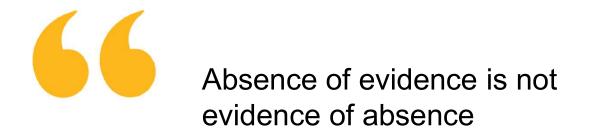


- Defaults
- TIPPME (physical micro-environments)
- Priming and framing
- Increase ease of use (FEAST)
- Simplification
- "Sludge" audits (time gains)
- Use of social norms (dynamic)
- Disclosure and warnings (visuals)
- Self-binding tools ("snudges")
- Timely reminders (with "maps")
- Feedback (personalized)
- Non-financial benefits





Source: Sunstein (2014); Sunstein & Reisch (2014); Sunstein & Reisch (2023); Reisch & Sunstein (2024)

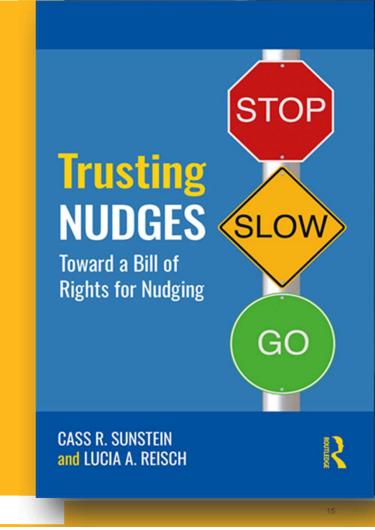




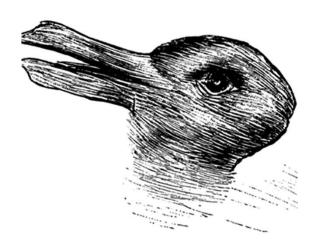
Carl Sagan

Good governance key for ethics, effectiveness, acceptance

- Welfare enhancing
- Benefits larger than costs, side effects included (distributional, rebound, crowding out)
- Autonomy and freedom of choice preserving
- Open to public debate and scrutiny
- Transparent stepwise processes, review & adapt
- Internal trusted promoter(s) are key



Should structural solutions be preferred?



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- Structural changes tend to be more effective and long-lasting but depend on accepting more **paternalistic policies**; processes are slow, and coalitions are vulnerable.
- 2. No single policy or policy approach should be expected to solve one major societal problem progress requires **packages**.
- Some structures are shallow; some are deep. Structural changes are not always "big"; many small behavioural changes *can* be impactful.
- 4. Weak structural policies (e.g., laws with loopholes) can even be a major **barrier** to transformation.
- 5. Structural and individual approaches are **not antithetical**, neither in theory nor in practice. They are interdependent and mutually supporting.

(Often, it is about perspectives and disciplines).

So – can we nudge to net zero?





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- 1. Behavioural insights-based instruments can be very effective, sometimes more than harder instruments. There are only a few universal "laws"
 - test, learn, adapt, and share the results
- Nudges do little harm, can be adapted low-cost. Get consumers in the driver's seat. Useful to trigger change (not necessarily to sustain it)
 complementary use is strongly recommended; low-hanging fruits
- 3. Behavioural approaches *alone* are easily overcompensated by growth (rebound effect)

- individual and structural level transformation needed

- Behavioural scientists have played little role in some major (technical) science-policy interfaces (e.g., the IPCC, IEA, national climate packages)
 include behavioural science and the behavioural lens
- 5. "ASAP tools" responding to the urgency and wickedness of climate change – no time for ideological think bans, "all hands on deck"







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