

# Energy-sector Behavioural Insights Platform

DSM Day, Bern, Switzerland, 3<sup>rd</sup> April 2019



### Background

- IEA/IPEEC/G20 workshop
- Desire amongst behavioural insights teams to collaborate
- DSM TCP best-placed to take forward a new Task



#### Workshop - Behaviour Change and Energy Efficiency

Date: Wednesday, 12 September
Time: 9:00 – 17:30 (TBC)

Venue: French Foreign Affairs Ministerial Conference Centre,
27, rue de la Convention, 75015, Paris, France
You will receive a link to the Registration Portal together with
the agenda.







The objective of the workshop will be to:

- Introduce behaviour change: what it is and what are the implications for policy making;
- Understand the particular challenges faced across sectors in encouraging behaviour change;
- Identify possible topics of discussion as well as potential mechanisms and resources for collaboration, including the Task Groups under the G20 Energy Efficiency Leading Programme.
- Ireland (SEAI) and the UK (Ofgem) have led the development of the concept with help from Australia (Envt Dept) and the Netherlands (RVO)
- Canada and Japan have joined teleconferences, along with BIT and OECD
- IEA secretariat are a key partner and would like to co-brand the Task



# Behavioural insights / behavioural economics





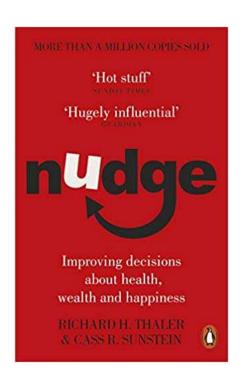
Applying behavioural insights in policies aimed at businesses Final report

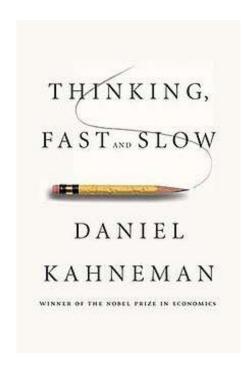


Netherlands Government, Ministry of Economic Affairs and Climate Policy

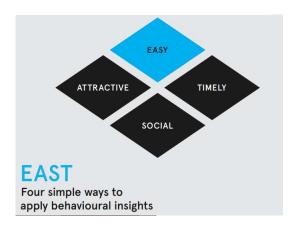


# Some influential developments











#### What is behavioural economics?

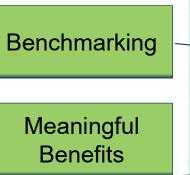
Grants Payback Period **Upfront Costs Economics**  Action of Neighbours Perception of Behavioural **Environmental Action Economics** (Tokenism?) Comfort Sociology Psychology **Benefits Hassle Factors** Trust in Advice Framing

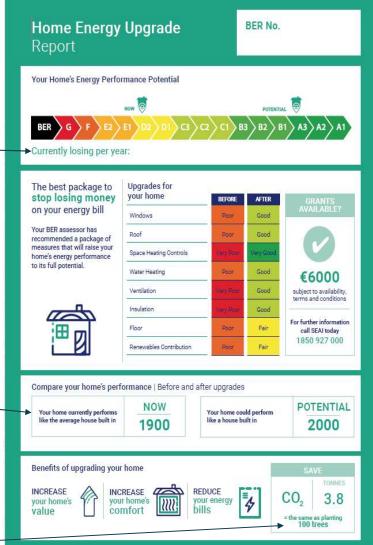


# Redesigning the Building Energy Rating Advisory Report (SEAI, Ireland)

**Loss Aversion** 

- Contributed to re-design of advisory Report
- Designing lab experiment to pre-test
- Planning field trial after advisory report launch



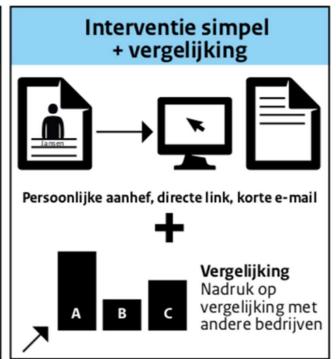




# Energy saving in companies – encouraging downloads of feedback reports (RVO, Netherlands)

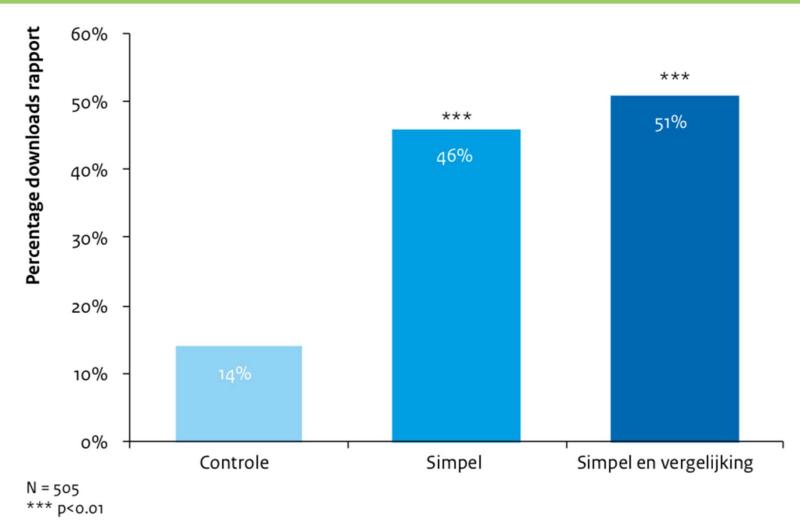








# Results





# Fit the bill (BETA, Australia)



#### Australian Government

Department of the Prime Minister and Cabinet



#### **Electricity information to fit the bill**



Energy prices in Australia have risen 56 per cent in a decade, putting significant pressure on household budgets.

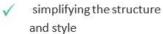
People can save hundreds of dollars a year by shopping around but more than half of Australians have not switched plans or providers in the past five years.



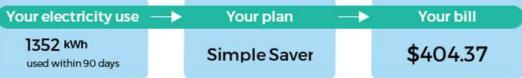
Energy bills are the primary tool to inform consumers about their energy plan and usage—but they are dense, inconsistent and hard to read.

We worked with the Department of the Environment and Energy, to design and test new electricity bill designs with around 4,200 Australians.

#### We focused on:

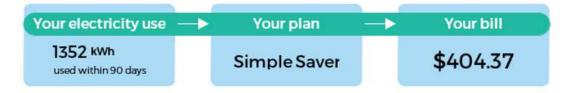


drawing attention to key information





# Simple design and personalised savings



including a 'ways to save' box encouraging people to search for a better deal.



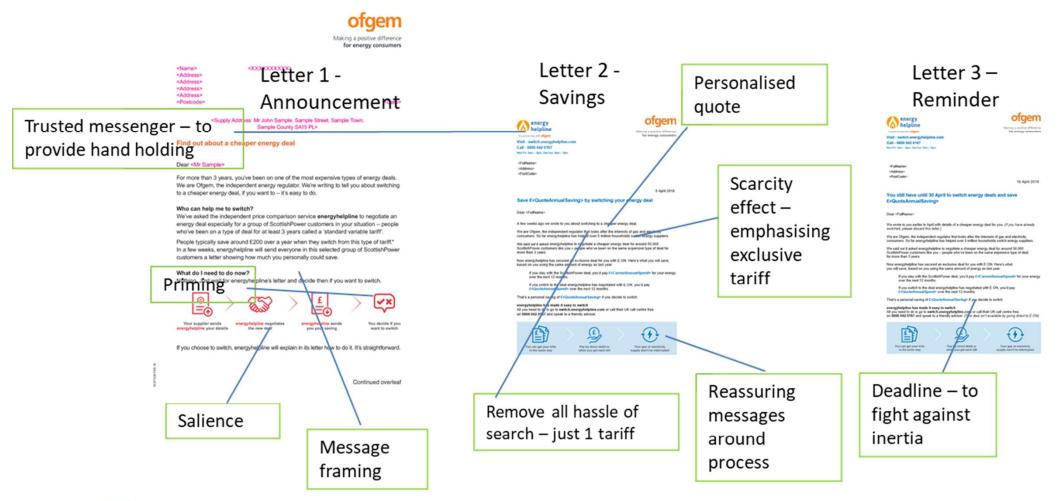
But we found no difference among the bill types with regard to consumers' stated intention to look for a better deal.



Increasing consumer confidence in a market facing record-low levels of trust is important. For this reason alone, making bills clearer and more accessible for consumers makes sense and should be considered by electricity retailers.

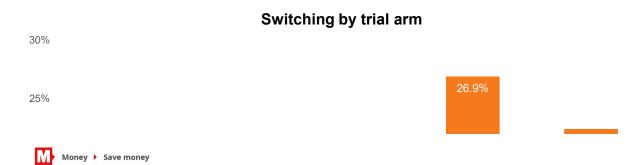


# Nudging people to switch energy tariff - applying BI to address as many of the barriers as possible (Ofgem, UK)



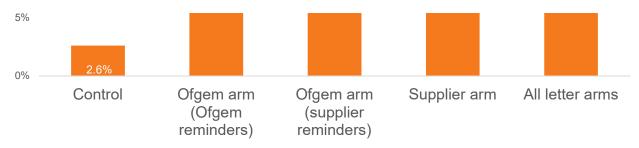


#### Results



# Most successful money-saving tactic tried yet - as thousands get £300 off bills each

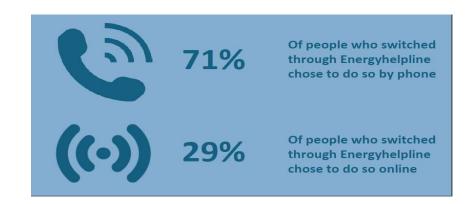
The best way to get people moving to cheaper energy deals is for them to club together, according to a new trial





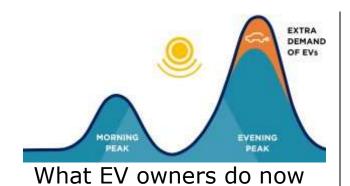
- The intervention had a clear and substantial impact on behaviour
- Customers who received information and reminder letters with their supplier's branding switched the most 10X the control
- 24% of the switches made through energyhelpline were by customers over 75 years old

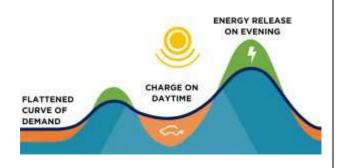






# Smart charging of electric vehicles – what behaviour are we trying to promote?





What EV owners are 'expected' to do

Two key behavioural changes:

- Adopt a smart charging tariff or service
- 2. Respond to the price signals by adjusting the timing of their charging or not overriding automated current curtailment



#### One size fits all solutions to inertia



Inertia affects pension and organ donation enrolment as well as switching to cheaper energy deals



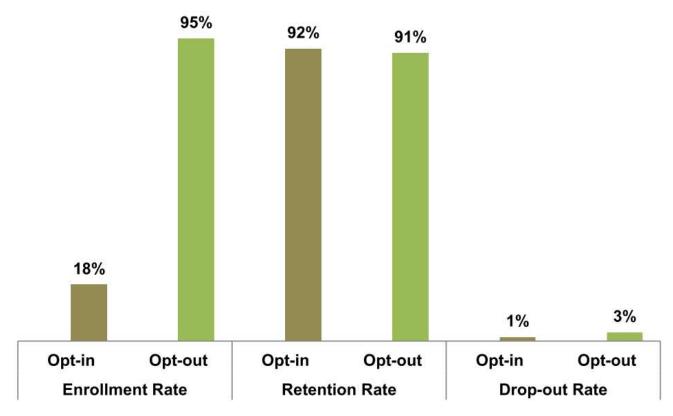


Opt-outs
don't
account
for
variation
in
'flexibility
capital'



# Opt-out enrolment is likely to overcome inertia and increase uptake of smart charging

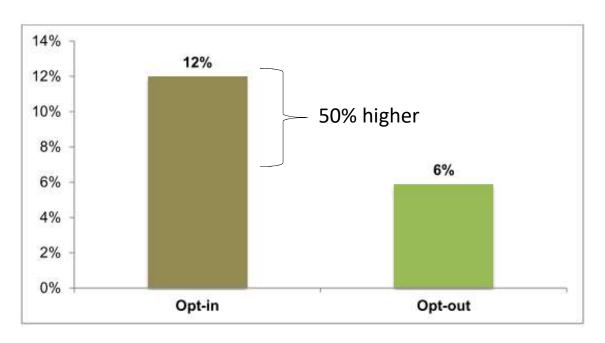
# Enrolment, retention and drop-out rates amongst US Consumer Behaviour Smart Grid trials of time of use tariffs





# Not everyone is able to respond to price signals – there is variation

# Peak load reduction across opt-in and opt-out groups (Sacramento Municipal)



US Department of Energy, Interim Report on Customer Acceptance, Retention, and Response to Time-Based Rates from the Consumer Behavior Studies, p 31.





# A different approach to nudge – effective and selective

Choice architecture should be about getting people 'into the right box' by being effective and selective (Johnson, 2016)

		Population sub-group	Tariff A Smart charging tariff	Tariff B Flat-rate tariff
Increase adoption amongst them	$\rightarrow$	Have flexibility capital	X	
Not them		No flexibility capital		X



### Approach

Bring together government officials and other experts working on the application of behavioural insights in the energy field to

- enable the sharing of knowledge and experience;
- develop guidance based on case studies and theory on the
  - application of behavioural insights (for example from behavioural economics and psychology);
  - development of trials, including how to move beyond pilot projects to broader policy implementation; and
  - evaluation of the energy savings / efficiencies associated with energy behaviour change programmes; and
- disseminate guidelines and examples of best practice



#### Next steps

- Development of proposed work plan by IRE, UK, AUS & NL
- Outreach to potential participants
- Identification of prospective Operating Agents
- Possible side meeting at IEA conference in Dublin (June)
- Possible side meeting at BX conference in London (Sep)
- Work with IEA to define ways to jointly lead the Task



# Thank you. Any questions?

