

13 November 2013 Mossley Mill

Newtownabbey





November 13, 2013 @ Keep Northern Ireland Tidy

Nudging litter into the bin

A behavioural perspective on litering - cases from Copenhagen























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J RESEARCH







FORBRUGERRÄDET

















































































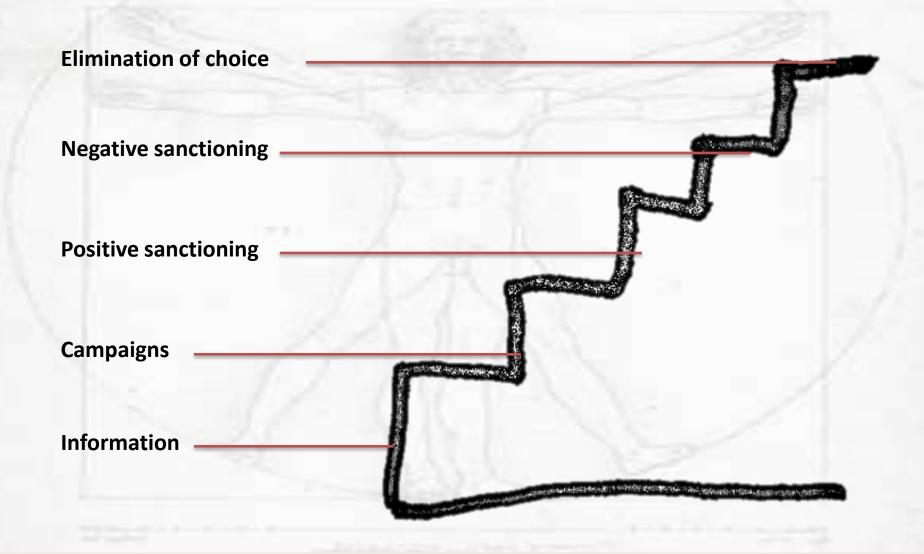




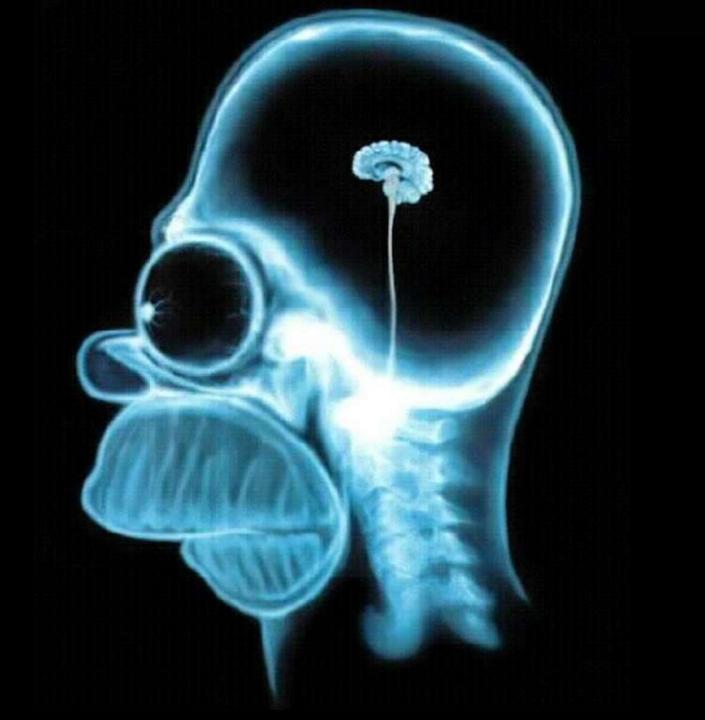




THE INTERVENTION LADDER







BEHAVIOURAL INSIGHTS DUAL PROCESS THEORY

- 1. Sloman S.A. (1996) The empirical case for two systems of reasoning. *Psychological Bulletin*, 119, 3-22.
- 2. Kahneman D. (2003) A perspective on judgement and choice. *American Psychologist*. 58, 697-720.
- 3. Evans, J. (2003). "In two minds: dual-process accounts of reasoning". TRENDS in Cognitive Sciences 7 (10).
- 4. Stanovich, K E.; West, R F. (2000). "Individual difference in reasoning: implications for the rationality debate?". *Behavioural and Brain Sciences* **23**: 645–726.
- 5. Stupple, E.; Waterhouse (2009). "Negations In Syllogistic Reasoning: Evidence for a Heuristic analytic Conflict". *The Quarterly Journal of Experimental Psychology* **62** (8).

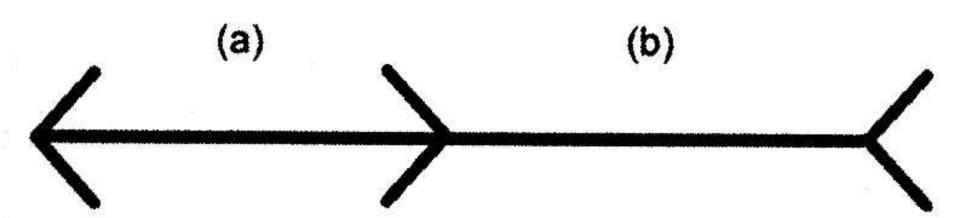


$34 \times 52 =$

Dual process theory

(Kahneman Thinking, Fast and Slow, 2011)

Automatic system	Reflective System
Uncontrolled	Controlled
Effortless	Effortful
Associative	Reasoned
Fast	Slow
Unconscious	Self-aware
Skilled	Rule following
Caused	Actions
Behaviour	Choice



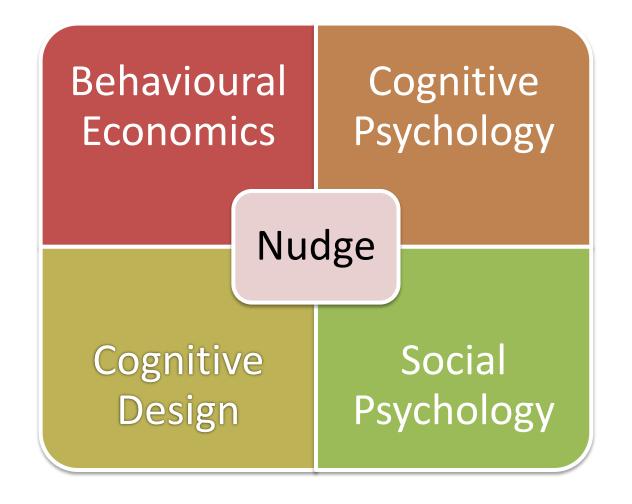


Shiv, B. & A. Fedorikhin (1999) Heart and Mind in Conflict: the Interplay of Affect and Cognition in Consumer Decision Making, *Journal of Consumer Research*, Vol. 26, No. 3 (December 1999) (pp. 278-292)

Decision-making and behavioral biases

- **Anchoring** the common human tendency to rely too heavily, or "anchor," on one trait or piece of information when making decisions.
- <u>Attentional Bias</u> implicit cognitive bias defined as the tendency of emotionally dominant stimuli in one's environment to preferentially draw and hold attention.
- **Backfire effect** Evidence disconfirming our beliefs only strengthens them.
- **Bandwagon effect** the tendency to do (or believe) things because many other people do (or believe) the same. Related to groupthink and herd behavior.
- **Bias blind spot** the tendency to see oneself as less biased than other people. [2]
- <u>Choice-supportive bias</u> the tendency to remember one's choices as better than they actually were. [3]
- <u>Confirmation bias</u> the tendency to search for or interpret information in a way that confirms one's preconceptions.^[4]
- <u>Congruence bias</u> the tendency to test hypotheses exclusively through direct testing, in contrast to tests of possible alternative hypotheses.
- <u>Contrast effect</u> the enhancement or diminishing of a weight or other measurement when compared with a recently observed contrasting object.^[5]
- <u>Denomination effect</u> the tendency to spend more money when it is denominated in small amounts (e.g. coins) rather than large amounts (e.g. bills). [6]
- <u>Distinction bias</u> the tendency to view two options as more dissimilar when evaluating them simultaneously than when evaluating them separately.^[7]
- **Empathy gap** the tendency to underestimate the influence or strength of feelings, in either oneself or others.
- **Endowment effect** "the fact that people often demand much more to give up an object than they would be willing to pay to acquire it".[8]
- <u>Experimenter's</u> or <u>Expectation bias</u> the tendency for experimenters to believe, certify, and publish data that agree with their expectations for the outcome of an experiment, and to disbelieve,

Applied Behavioural Science



nudge

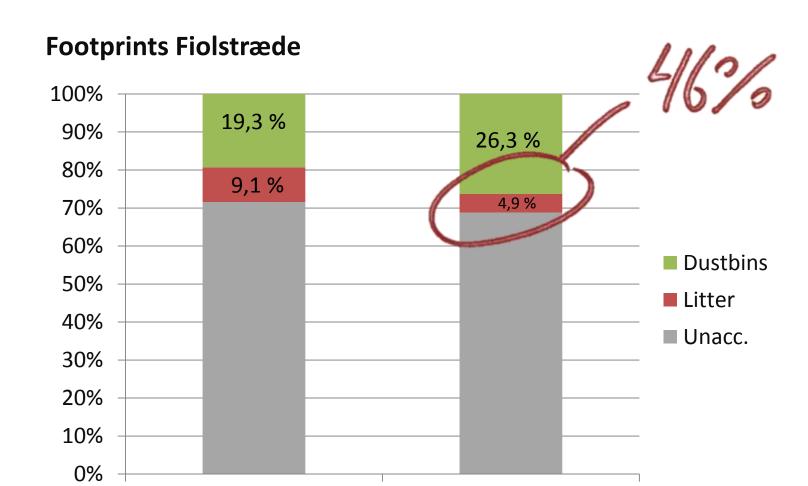
A nudge is an umbrella term for any attempt at influencing choices and behaviour in a predictable way without

- 1) limiting the original choice set, or
- 1) making alternatives appreciable more costly in terms of time, trouble, social sanctions, and so forth.









Treatment

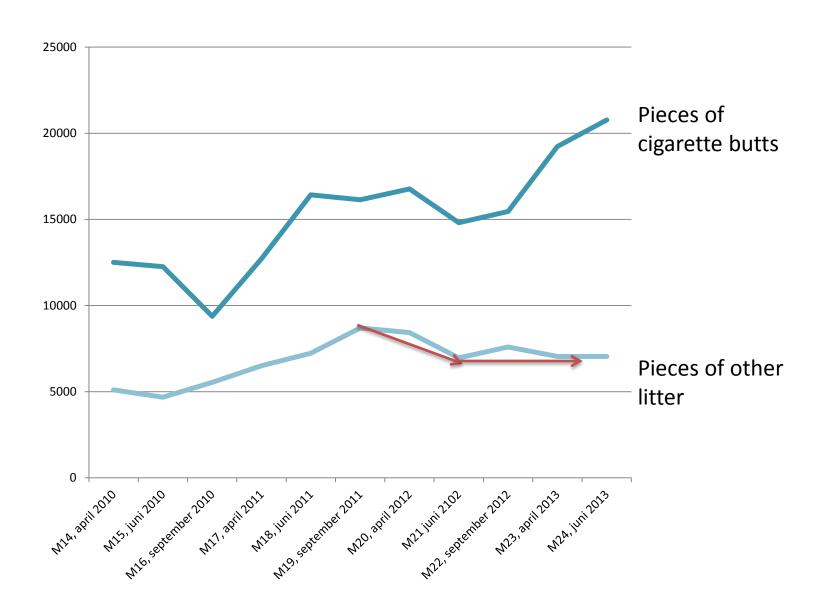
Control







PIECES OF LITTER COLLECTED IN TEST AREAS



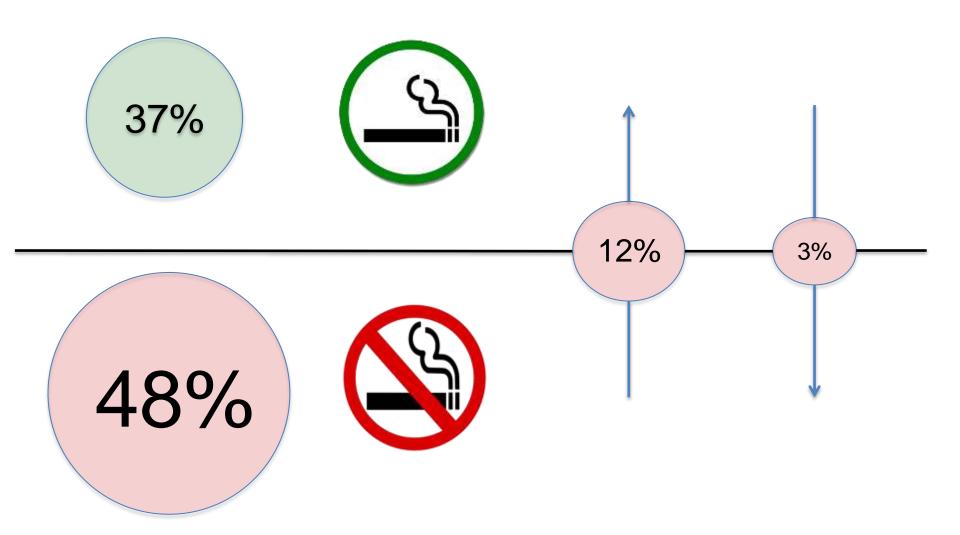


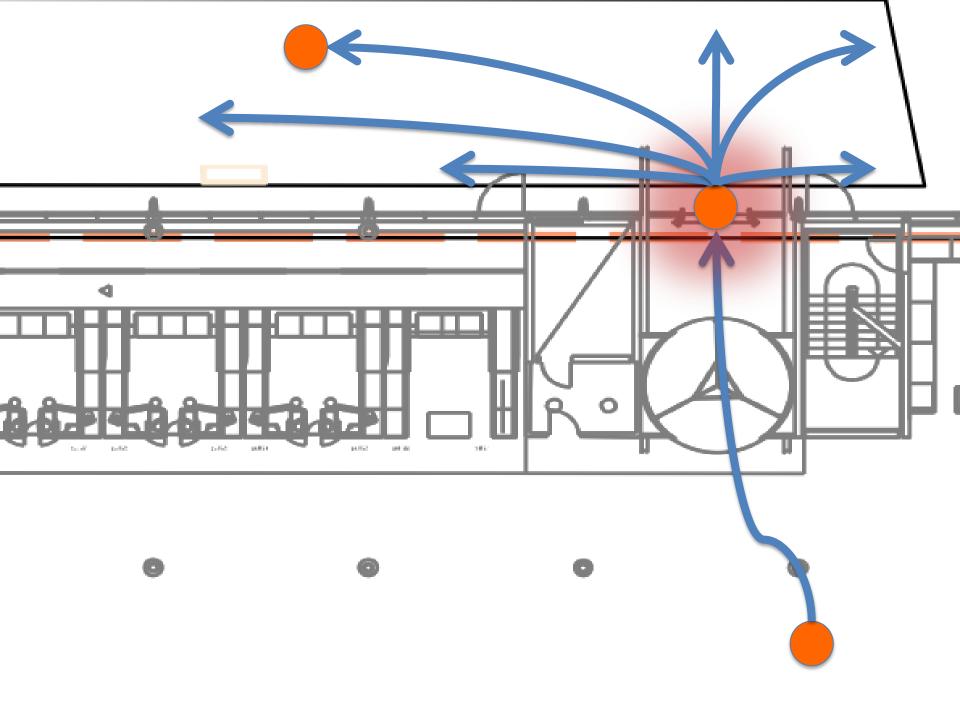






Types and distribution of transgressions







Priming / intention implementation

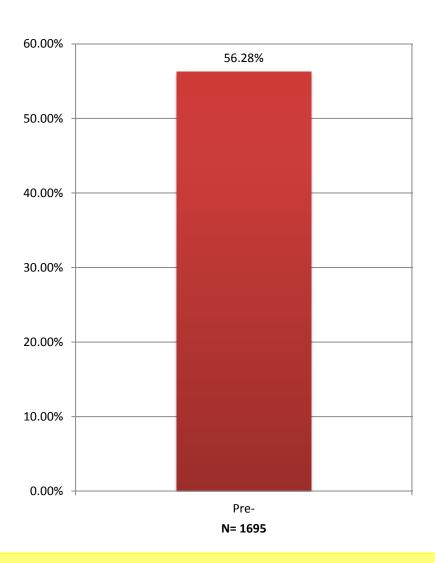








Main effect: total shares of transgressions, pre- and post intervention



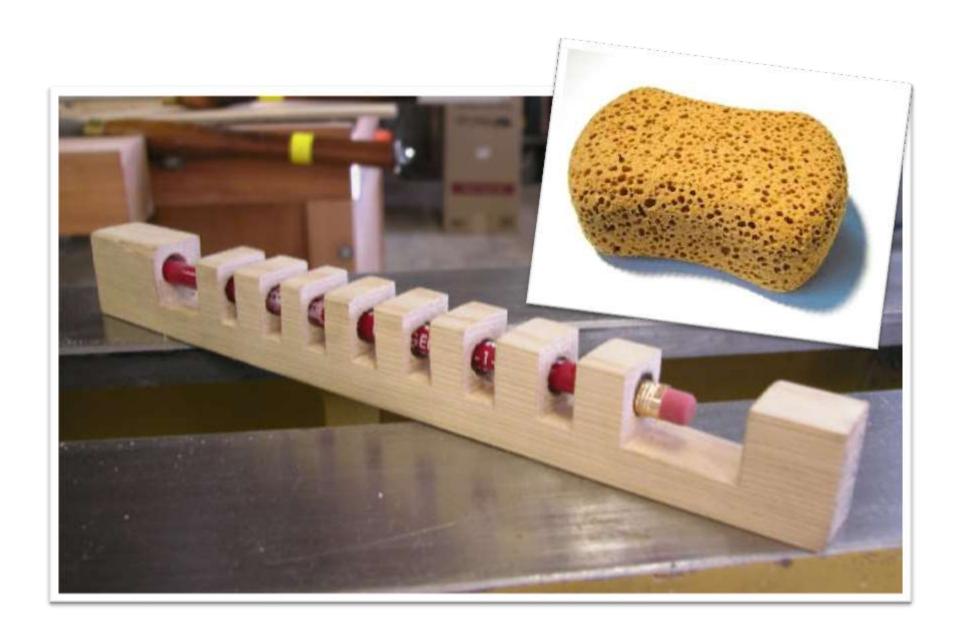
The main effect pursued in the intervention was the reduction of smoking activity in the no-smoking zones directly outside the door areas of the Airport. As total shares of transgressions pre- and post intervention show the intervention succeeded in reducing this by more than 50%. In particular, the intervention has caused a change from transgressors being the *majority* group to being the *minority* group.































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