

Technical Seminar Series

Communication appeals for influencing pro-environmental behaviour change

Zoe Rowe, C4D, Cranfield University

16:00-17:00 20 April 2015













We will record this webinar and issue the recording afterwards

Slides will also be made available

Please use chat to raise questions throughout the presentations

Questions after this presentation finishes? Please contact

Zoe Rowe z.o.rowe@cranfield.ac.uk

Technical webinar series – schedule

5 FEBRUARY 2015

- Today: Communication appeals for influencing pro-environmental behaviour change, Zoe Rowe, C4D, Cranfield University
- Next week: Resource Efficient
 Manufacturing: An Exergy Based Approach,
 Sanober Khattak, De Montfort University
- Future months: much more to follow!!
- ... and it could be you...
- Typically first Thursday of the month













Technical webinar series – the aims

5 FEBRUARY 2015

If you have interesting content to share from research and development, good practice, valuable results in practice, etc then perhaps you should be scheduled in the series.

Contact **Sharon Mey** cisadmin@ eng.cam.ac.uk or **Peter Ball**, p.d.ball@cranfield.ac.uk

- Sharing research results and industrial practice for Centre members
- Connecting people within the Centre as well as outside the Centre
- Providing feedback, comments, suggestions, refinement, etc to those presenting













How is the Centre structured?









Eco-efficiency

Reducing resourse use (water, energy, materials)
Improvements without radical changes to product or process



Eco-factory

Increasing added value and improving production capability and responsiveness

Decreasing consumption of natural resources



Sustainable Industrial System

Exploring future configurations of the industrial system and their implications

Taking first steps to improve understanding of the long term challenges facing industry













How the Centre works - Impact

WEBINARS ... CONTRIBUTING TO SHARING OUR KNOWLEDGE

Vision

Educating the

Leaders of Tomorrow

TODAY

Bigger **Impact**, faster, wider, sooner

Sharing **Knowledge**

Building & Sharing a **Vision**



Sharing Knowledge













Eco-Efficiency Grand Challenge: Resource Efficiency in the Factory

5 FEBRUARY 2015

16.00 Introduction (Peter)

16.10 Communication appeals for influencing pro-environmental behaviour change (Zoe)

16.30 **Q&A** (Zoe)

16.40 **Wrap up** (Peter)

16.45 Close

Questions after this presentation finishes? Please contact

Zoe Rowe z.o.rowe@cranfield.ac.uk















Context of Research

- Many issues threaten the sustainability of the environment, many of which are effected by human behaviours
- Not entirely in the control of companies
- Consumers declare that they are environmentally conscious
- Disconnect in their concerns and their actual behaviour
- Harness the power of marketing













Pro-environmental Behaviour Change Definition

Aim:

Influence consumers' behaviour in the purchase, use and disposal of products to not have a negative impact on the environment

Definition:

'behaviour that takes into consideration the well-being of the environment and individuals, that has as little harm on the environment as possible'













"How do marketing communications create specific proenvironmental behaviour outcomes?"

"What contextual factors influence the selection of marketing communications?"

- the contexts in which the behaviours are taking place
- the marketing communication strategies that are used as interventions to the pro-environmental behaviour
- the impacts of the context on the chosen marketing communication strategy

"How do marketing communications influence pro-environmental behaviours?"

- the pro-environmental behaviour outcomes
- the impact of different marketing communication strategies on proenvironmental behaviour outcomes
- the theoretical mechanisms underpinning intervention-outcome relationship













Conceptual Framework

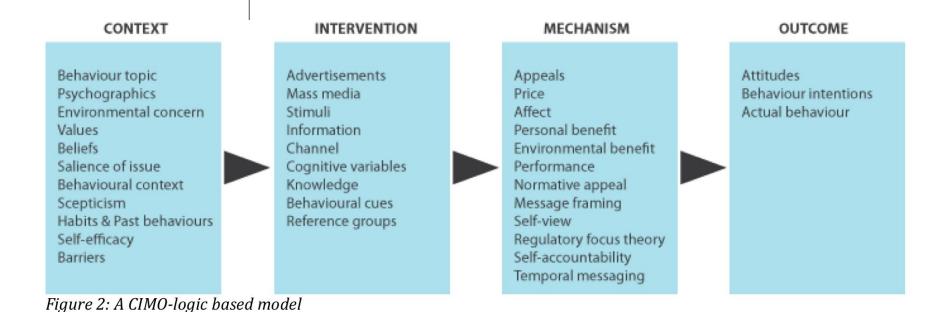


Figure 1: CIMO-logic framework (Denyer et al., 2008)









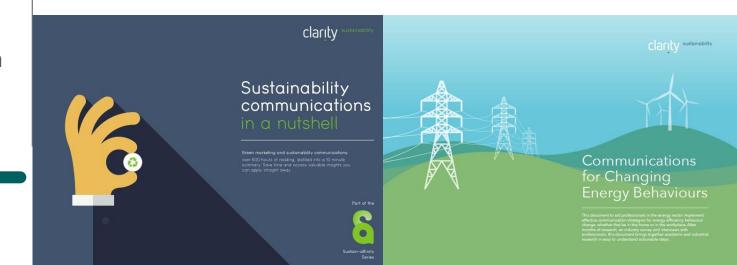




clarity sustainability

White papers:

Industry research
Academic research
Surveys
Interviews
Case studies



STEP 2 - Understand the direct and indirect impacts of the issue and specific solutions



STEP 3 - Understand the context you are addressing (e.g. homeowners; rentals; social housing; employees)



STEP 4 - Identify the different groups you are targeting



STEP 5 - Understand the attitudes and motivations of each group and the benefits they seek



STEP 6 - Identify the types of appeals they best respond to



STEP 7 - Uncover the barriers preventing behaviour change



EXPRESS

STEP 8 - Highlight the integrated communication strategy to effectively influence attitude and behaviour change



STEP 9 - Test the strategy in a pilot test with a small group



STEP 10 - Use the data to continually refine, scale up and increase return on investment

clarity sustainability

عاد الرائطة الأعداد المراجع المحا**لة الأراز المائلة الأراز المائلة الأعداد إ**ليار

Encouraging energy and waste efficiency behaviours in the workplace could save businesses £300 million a year and over 6 million tonnes of carbon (1). Large businesses could cut 15% of their bills through energy efficiency measures. Much of this can be done through behavioural factors in the business but there are few businesses trying to engage employees with only 23% of employees in a survey by the Carbon Trust having been asked to save energy in the workplace (6). The internal rate of return for energy efficiency in the workplace averages at 40%. which is significantly higher than normal returns from business investments that are usually 10-15% (6).

"ONLY 23% OF EMPLOYEES IN A SURVEY BY THE CARBON TRUST HAVING BEEN ASKED TO SAVE ENERGY IN THE WORKPLACE"

orporating energy into the daily practices of the business can help integrate the behaviour into the company culture. This will help prevent the behaviour from fading and help them become a habit. Strategies may be more effective if they are brought in from the top. Top management buy-in could be key in some cases for the successful implementation of behaviour change strategies. Not everybody speaks 'carbon jargon', including the most senior managers. Technical specifics are not likely to engage them, so present a case, including that of the consequences of inaction in everyday language and business benefits.

Their can be a dramatic difference in energy use between different types of workplaces. In complex buildings it can be difficult for the average worker to often fully appreciate where energy is used and what the results are. This is why for energy consulting clients for example. Clarity have delivered sets of tools and campaigns to easily cut away or drill into the building visualise impacts in their type of building.

Another challenge for businesses is that people tend to work in silos and see others as a vehicle of change and don't necessarily take responsibility themselves. This is where leadership is important to encourage people to take ownership for their hehaviours and the impacts. Make staff feel part of the change so they feel they are contributing. Show staff how they are part of the impact on the company performance and give them a sense of pride in both achieving this and the wide sustainability benefits of energy reductions

"Incorporating energy into the daily practices of the business can help integrate the behaviour into the company culture This will help prevent the behaviour from fading and help them become a habit."

What can we do?



- Engage and educate employees for increased cost savings in the business
- Make energy efficiency part of daily core business practice to become a habit . Identify someone to lead and manage strategies so it is effective for the long-te
- Get top management buy-in to help implement and enforce strategies
- Present a strong business case to get top management buy-in, in their language £ not KW!

What can we do?



- Understand the barriers that may prevent people from being energy efficient and address them head on
- Show people how their actions will have an actual impact in a relatable and realistic way
- Guide and support people in how to change their behaviours so they feel they have the ability
- Think about who is sending the message and how people will



- communication strategy
- Find out which intervention: your audience will respond to
- Don't overload people with information, give them easy to understand bite sized nuggets
- Make your interventions fun. engaging and memorable Show people the direct link
- between their behaviour and energy use
- Choose the channel to communicate Your message depending of your audience and the context they will be receiving
- Use a champion as an example for people to learn from



- Use visible daily reminders to prompt the behaviour
- Tell people how they are performing through regular feedback that is relevant to
- Show how a person's performance compares with others to encourage competition
- Use multiple interventions for more effective behaviour change



- Find a small group of people audience
- Introduce them to your communication strategy
- Observe their reactions to gain insights
- Use a questionnaire to understand their attitudes towards the communication



- Trail your strategy and scale it up for long term success
- Report your results regularly to the right people to show its impact and keep interest in energy efficiency
- Provide regular feedback to employees on the impact of their efforts towards energy efficiency in an easy to understand, visual



Testing: NewLife Appliances



- Environcom remanutactured/recycled WEEE waste
- Member of Ellen MacArthur Circular Economy
- Selling white goods on Ebay and Amazon
- Launched New Life Appliances website
- The main issue they have identified is the need to change consumer perceptions around remanufactured goods and to increase awareness of the benefits





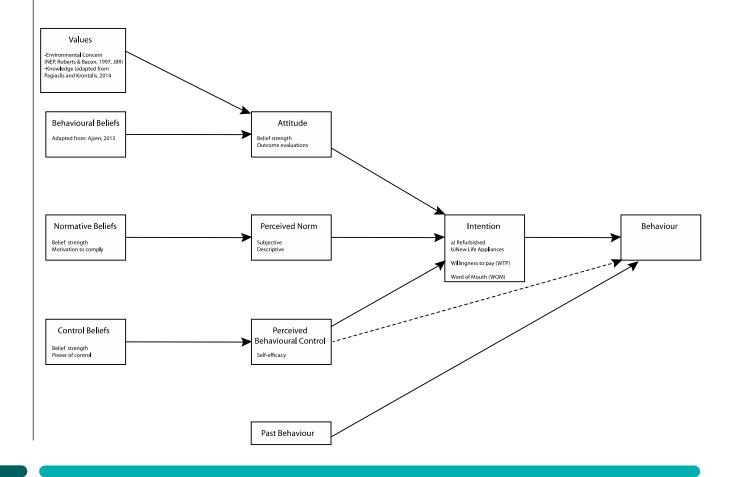








Theory of Planned Behaviour (Ajzen, 1985)















Market Research: Survey

- Problem wanted to address: perceptions around refurbished products
- Market research through online panel
- Test consumers' responses to different message appeals
- Randomising the offer that is presented in the surveys
- Contact 3 months later in a follow up survey
- Insights into the types of message appeals that are most effective
- Segmentation of the types of people who actually buy remanufactured white goods













Circular Economy Business Model

- Middle class consumption and urbanization continue to grow in developing world
- Business will struggle to meet demand
- Opportunity/importance or refurbished/leasing
- Need to shift consumer attitudes and behaviour towards more circular business models













Next Steps: Research Directions

- Priming self-accountability will encourage proenvironmental behaviour change
- Anticipated guilt and pride with self-accountability will influence behaviours
- The social identity a person holds in the context they receive the communication will inform the type of message to use













Next Steps

- Follow up survey from study 1
- More research into self-accountability (linking social identity; emotion; and the self)
- More testing on NewLife Appliances' communications
 Testing communication appeals for encouraging leasing of refurbished white goods
- Research into environmental issues and publishing white papers with Clarity Sustainability













Technical Seminar Series

30th April

Resource Efficient Manufacturing: An Exergy Based Approach, Sanober Khattak, De Montfort

4th June

Sustainable value creation in manufacturing through maintenance services, Maria Holgado, Cambridge

All at 16:00-17:00











