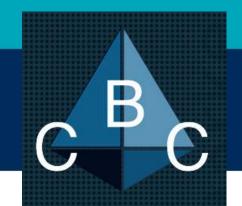
Director: Prof Susan Michie





Behaviour change in the context of sustainability, health & social inclusion

Susan Michie Professor of Health Psychology





Acknowledgments

Funders including











The Health Psychology Research Team



• The Centre for Behaviour Change

www.ucl.ac.uk/behavior-change





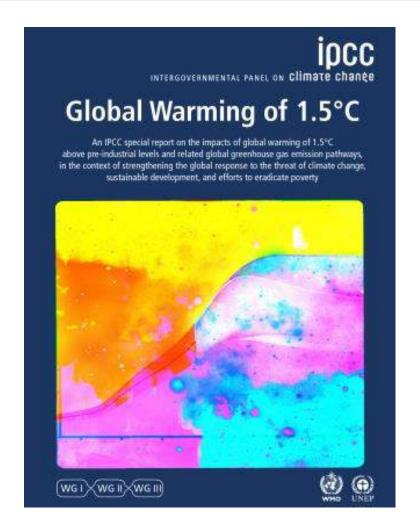


Behaviour is everywhere ...

- Understanding and changing patterns of behaviour are key to
 - promoting health and well-being,
 - social cohesion and equity
 - a sustainable environment
 - efficient and equitable delivery of services
 - a productive economy
 - and pretty much everything!



Behaviours relevant to climate change



FOOD

BUILDINGS

TRAVEL

Use lowemission alternatives to aluminium

Reduce food waste

Insulate buildings

Use solar water heaters

Drive electric vehicles

Walk or cycle short distances

POLITICS

Buy less meat and dairy

Install heat pumps

Use lowcarbon building materials Replace business travel with teleconferencing

Engage as a citizen

Buy local, seasonal food Use energy efficient appliances

Line dry laundry

Lower thermostats

Use mass transit rather than flying



Systems approach to changing behaviour

- Need changes at city/population-wide levels
 AND individual levels
- Not either/or, these can work synergistically with each other



City-wide transformation





Middle income

Low income



















How will we bring about transformation?

• Aim:

 Transform environmental quality, sustainability, population health and health equity

Methods:

- 1. Participatory engagement and systems thinking
- 2. Partner with local organisations to:
 - improve understanding of the effects of policy actions and
 - develop viable paths for policy implementation



Stakeholder workshop, Kisumu, Kenya



Systems and implementation

- 1. Analyse multiple interactions between different parts of the urban system and draw on the best global and local scientific evidence
- 2. Consider policy **implementation** and behaviour change from beginning



Example of indoor air pollution system in Nairobi

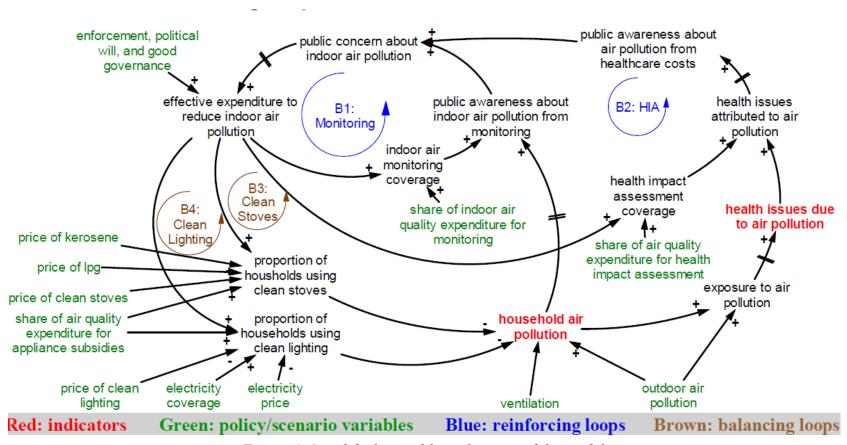


Figure 6: Simplified causal loop diagram of the model



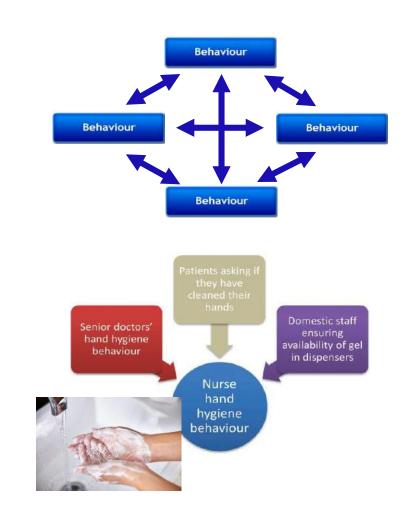
Designing behaviourally-sensitive policies requires ...

- 1. A model of behaviour for understanding behaviour in its context
- 2. A framework linked to this model for designing interventions and policies to change behaviour



Behaviour: part of a system of behaviours

- ... that facilitate and compete with each other
 - within and between individuals
 - influenced by their social and material world
- Understanding the system of behaviours and the influences on them is the starting point for identifying where best to intervene and how





Behaviours are different and contexts are different

•If we are to develop behaviour

•identify each group of people, who

•unde For each group

•unde For each do

•unde For each to do

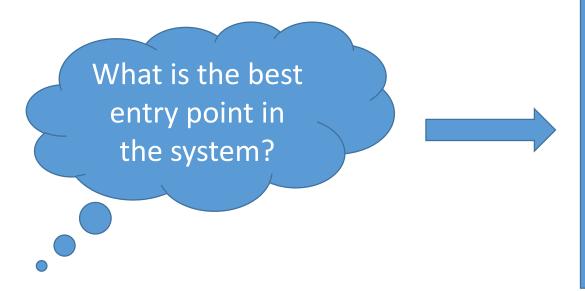
ntions to change

their specific contexts



Which behaviour to start with?

 Map the system of actors, behaviours and relationships between them that are relevant to your problem



- 1. If I change this, what is the likely impact?
- 2. How easy is it to bring about change?
- 3. Preference, acceptability, cost?
- 4. Spillover/generalisability to other behaviours and people?

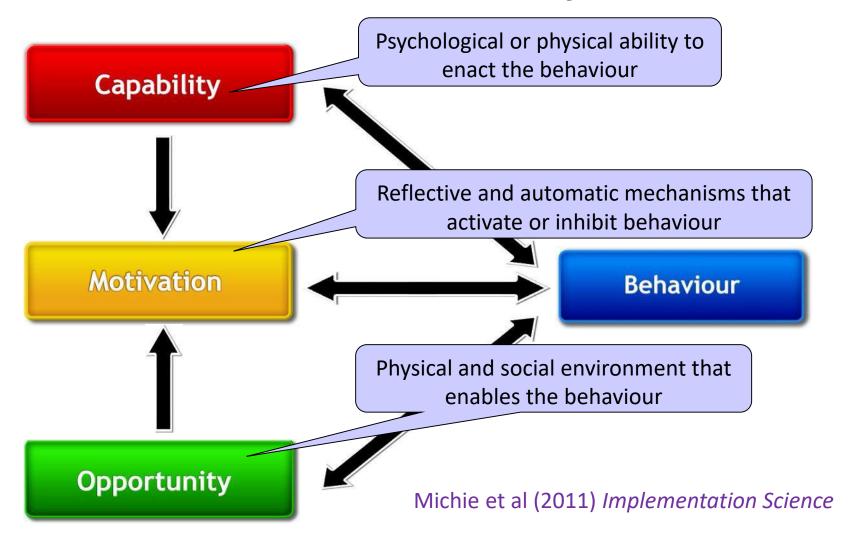


Understand the behaviour in context

- •Why are behaviours as they are?
- •What needs to change for the desired behaviour/s to occur?

Answering this is helped by a model of behaviour ...

The COM-B system: Behaviour occurs as an interaction between three necessary conditions





Frameworks simplify complexity

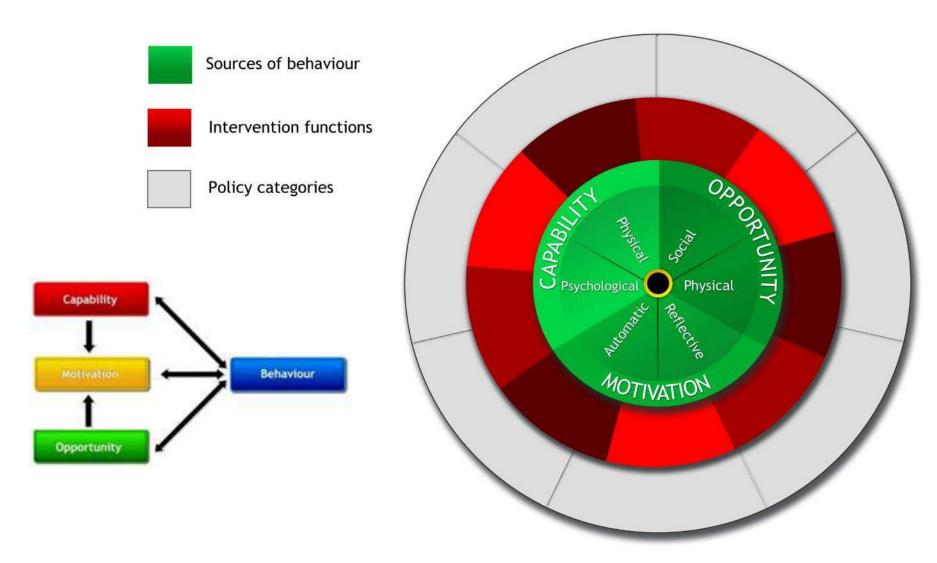


Frameworks of behaviour change

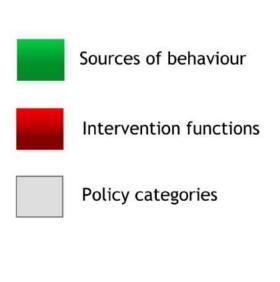
- Systematic literature review identified 19 frameworks of behaviour change interventions and policies
 - related to health, environment, culture change, social marketing etc.
 - none met criteria of comprehensive, coherent, linked to model of behavior
- So Synthesised the 19 frameworks
- 'The Behaviour Change Wheel'

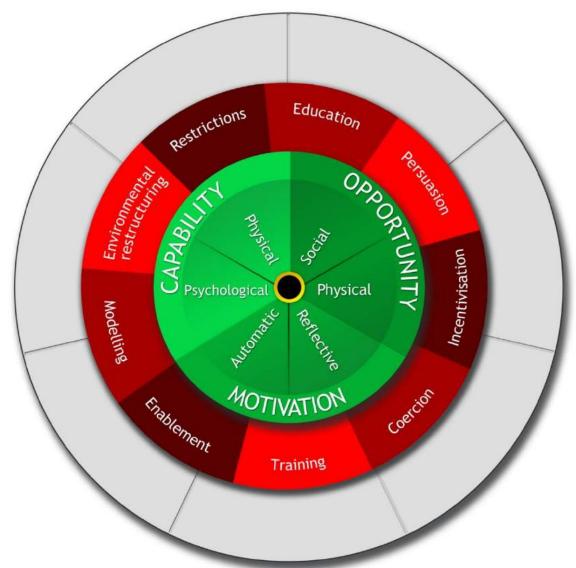
Michie et al (2011) The Behaviour Change Wheel: a new method for characterising and designing behaviour change interventions, *Implementation Science*.

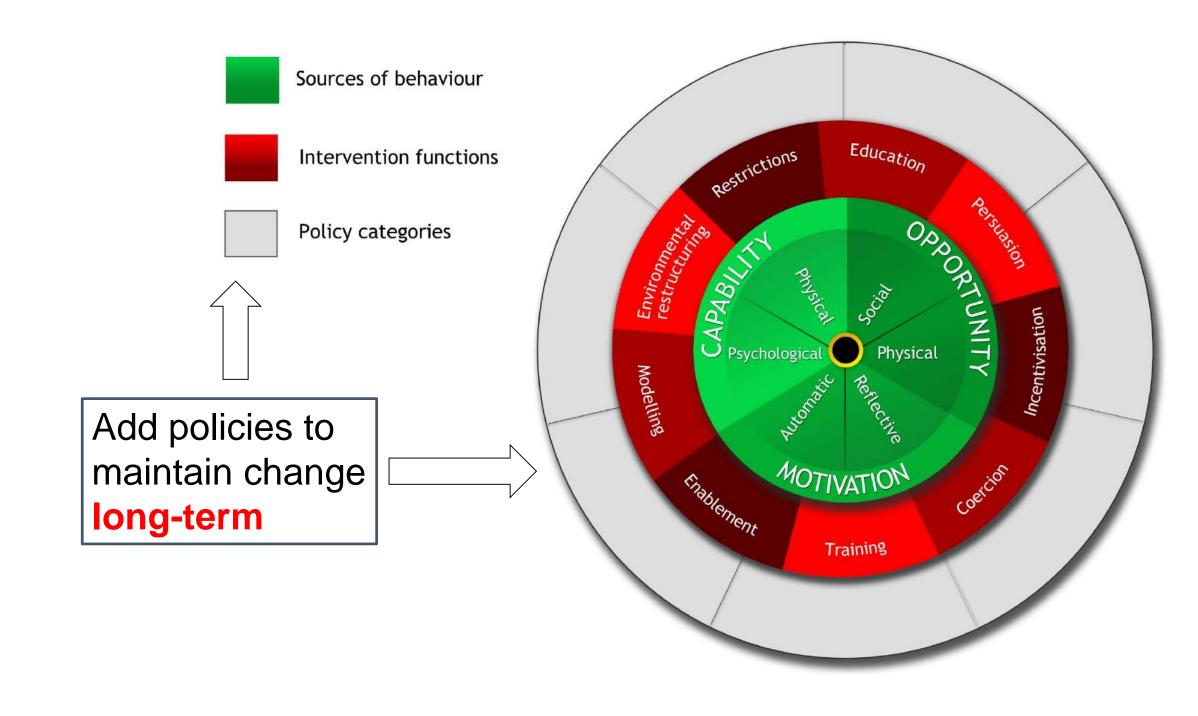
Behaviour at the hub COM-B



Nine intervention 'functions'







Seven policies categories



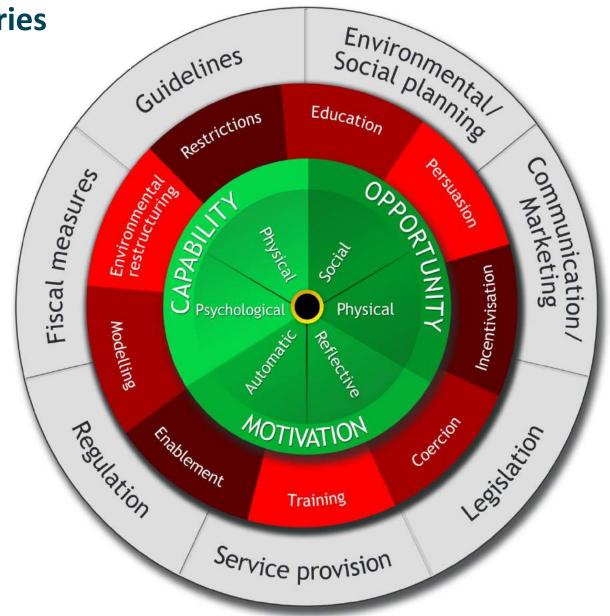
Intervention functions



Policy categories

Policies:

decisions made by authorities concerning interventions





Applying to the local context: The APEASE criteria

- Affordability
- Practicability
- Effectiveness/cost-effectiveness
- Acceptability
 - public
 - professional
 - political
- Side-effects/safety
- Equity



www.behaviourchangewheel.com



Behaviour Change Wheel been used to ...

- 1. Design interventions and policies
- 2. "Retrofit" identify what is in current interventions and policies
 - eg by Government departments
- 3. Provide a framework for evaluation
 - How are interventions working?
- 4. Structure systematic reviews of evidence





International applications of the BCW



Australia

- Management for Borderline Gestational Diabetes Mellitus
- Reduce hip/knee surgery in osteoarthritis



Ghana

Reduce risk of infection in changing toilet cartridges in slums



India

Smartphone app to reduce cardiovascular disease risk



International Red Cross

Train volunteers



Kenya

Improve paediatric health care



Kosovo

 Improve maternal health guideline implementation



Netherlands

An organisational intervention tool



Papua New Guinea

Change Betel nut chewing behaviour



Thailand

Preventing melioidosis



USA

- Improving colorectal cancer screening
- Providing long-acting reversible contraception to adolescents
- Improve parenting practices for children with challenging behaviour



A final work on equity

- How far will the intervention increase or reduce,
 - Social inequality?
 - Economic inequality?
 - Health inequality?







Behaviour change in whose interests?

- The 'population'
 - Which sections?
 - Special interest groups, marginalised groups, rich/poor
- Government, national or local
 - To get re-elected, to improve welfare
- Industry incl. multinational corporations
 - In search of maximising profit
- Within organisations,
 - Managers vs staff
- Etc.

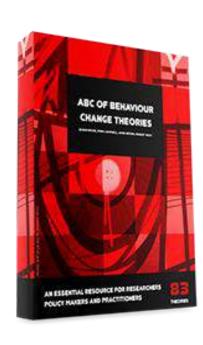






Centre for Behaviour Change resources... e.g.











www.ucl.ac.uk/behaviour-change

All proceeds from CBC teaching, training, books and products go to further development



UCL Centre for Behaviour Change

MSc in Behaviour Change, UCL

Full-time, part-time and flexible modes of study; also available as PG Certificate and PG Diploma

Four core modules on behaviour change
Three elective modules selected from 12, topics
such as health, policy, transport, decision-making
and energy use.

Contact Dr Leslie Gutman (Programme Director)

at mscbehaviourchange@ucl.ac.uk
or visit https://tinyurl.com/cbc-msc-bc

