### Interreg Europe



**Enabling Behaviour Change** for Sustainable Mobility

Presentation summary

Behaven From science to sustainable behaviours

# Nice to meet you



Behavioural science to make people actors of sustainability and encourage the behaviours that benefit society and the planet the most

Scientific Committee (leading academics)

**Executional partners** (e.g. implicit research)

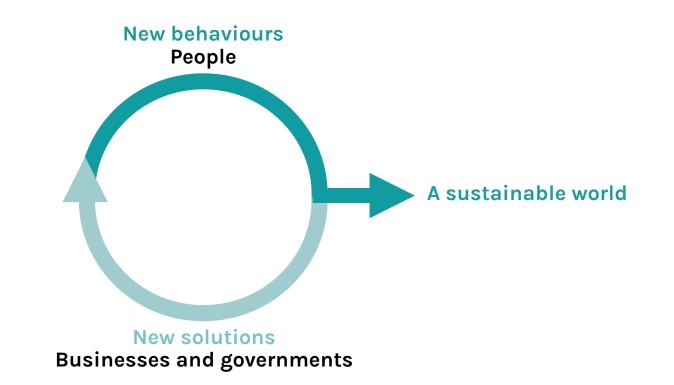
Sustainability Lead, as part of a global organisation
 European presence in BE, FR, NL, DE, HU and UK

www.behaven.com





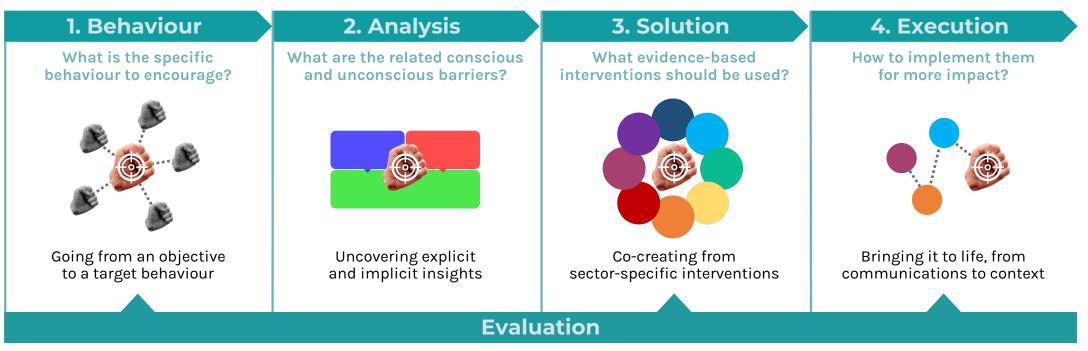
A sustainable world requires efforts by all





# **Our methodology**

Our B.A.S.E. methodology<sup>™</sup>, developed **specifically for sustainable behaviours**:



© Behaven.

### 1. Behaviour

What is the specific behaviour to encourage?



# Mobility behaviours have different layers

What do we mean by mobility behaviours?

**Mode of transport** – car vs active, shared and public modes

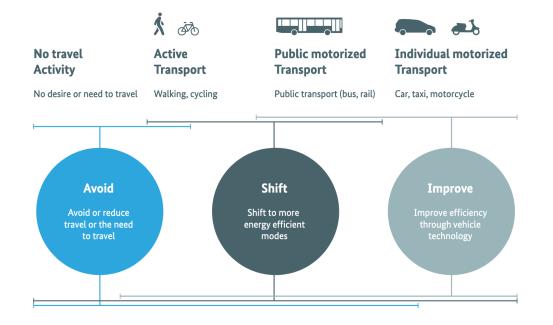
But also:

**Reasons for travel** – commuting, shopping, school drop-off, ...

Influences – proximity of alternative modes, attitudes, ...



### And they need to be changed at different levels



"In the UK, it is estimated that 62% of all emissions reductions needed to achieve net zero by 2050 will demand non-mandatory behaviours that include adopting new technologies, switching to greener modes and reducing the use of high-polluting options that remains."

UK's Climate Change Committee, as cited by Pete Dyson in his book 'Transport for Humans', page 234. Sustainable Urban Transport: Avoid-Shift-Improve (A-S-I), <u>https://www.transformative-mobility.org/assets/publications/ASI\_TUMI\_SUTP\_iNUA\_No-9\_April-2019.pdf</u>

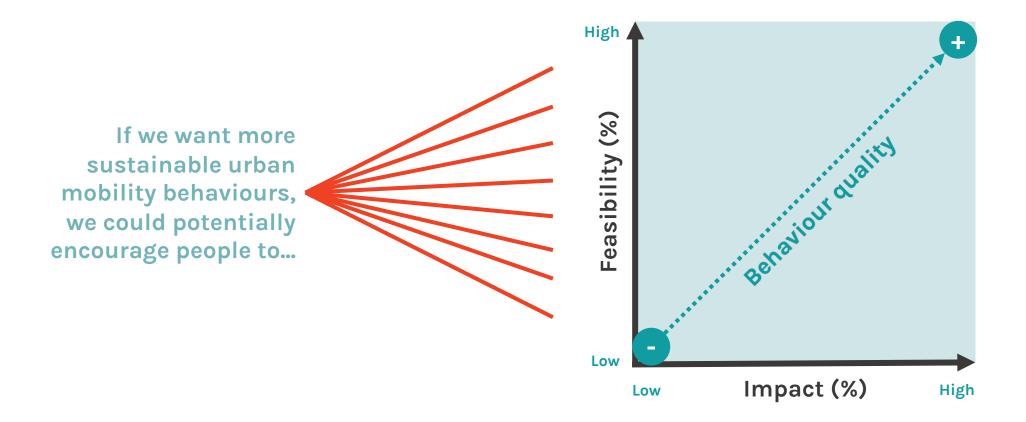
# There is no 'silver bullet' solution

If we want more sustainable urban mobility behaviours, we could potentially encourage people to...



Walk the kids to schools?
Walk or cycle to the gym?
Walk or cycle for short distances?
Shop locally for groceries?
Try public transports (for elderly people)?
Go to work via alternative modes?
Use alternative modes once/week?
Carpool once/week?

### So we have to make choices





# And we need to be specific

Express our target behaviour(s) in a specific and actionable way, for instance:

Actor: who needs to do it?	Urban drivers		
Action: what do they need to do?	To walk		
Place: where?	For short distances (less than 2km)		
Time & frequency: when and how often?	By default		
People: who with?	On their own (or with their families/flatmates)		

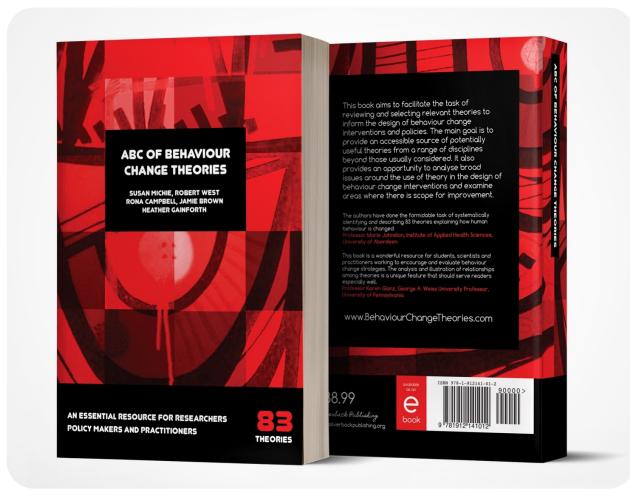




**2. Analysis** What are the related conscious and unconscious barriers?



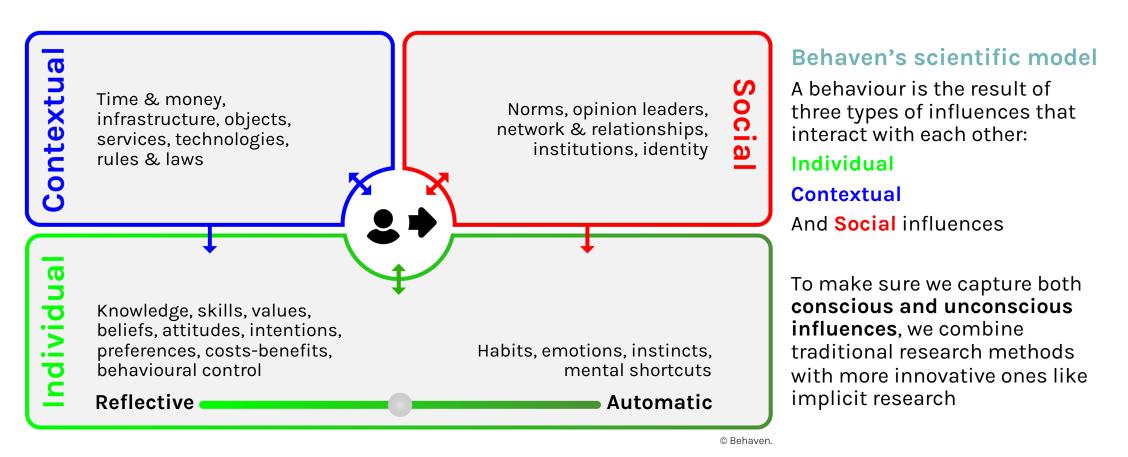
# Using a scientific model as a guide



Many models to choose from 😻



# A complete view of behavioural influences



WWF-UK case study: Better understand and address the intention-behaviour gap of 25-34 y/o, a group open to reducing meat consumption and eating more healthily, but also one of the biggest meat eaters

#### <u>Analysis overview (1<sup>st</sup> step of the project):</u>

What we did		What came out of it			
1. Literature review	5	50+ barriers and enablers, organised into Individual, Contextual and Social factors, i.e.:			
		Contextual barriers <	Reflective barriers <	Contextual enablers >	Reflective enablers >
2. Qual research	<b>Fiq</b>	Limited availability of plant-based options in drua®) torses and restaurants     Lack of health-realised balling on fast food items     Sustainable diets more likely to require multi-store shopping	Lack of knowledge on what a sustainable diet is     On the impact of food on the environment     On how to prepare plant-based meals     On know to prepare plant-based meals     On what local produce is     On what	Students transitioning into young professionals switching to healthier, sustainable diese     Vegetables delivery services     Information on plant-based cooking 101     Help and support in changing diets     Access to quick and easy recipes     Social enablers >	Concern for animal welfare Students transitioning into young professionals being conscious of their diet Exercise enabling conscious living, incl. diet Conscious living presented as self-care Enjoying cooking/being a foodie Whole plant-based foods preferred ver plant-based meat alternatives Wegetananism preferred over vegenism
3. Implicit research	ø		Perception of reduced meal quality without meat     Perception that meat eding is a natural behaviour     Difficulty in perceiving eating meat as a treat     Plant-based perceived as a trend     Cooking seen as time consuming     Sustainable dists perceived as more expensive     Perceived registration and a more avenative     Perceived registration and the set of the	Social enablers > Trying new foods or distary poutnes with a partner Cooking as a group activity Being cooked plant-based meals by someone else	Automatic enablers> Health concern helping addown area taking "Name health seare" positively associated among men and women "Vegetarian" implicitly associated among men "Vegetarian" implicitly associated with being familiar, healthy, sustainable and ethical Women associating "Vegetarian" and "Vegan with tasty, "nourshing" and for me' more than me, and vegetarians concerning vegetarian beef Vegetables more enjoyable than intriis, bars and planc based meat alternatives Lentis, beams and vegetables concidered integrantive
		Social barriers <	Automatic barriers <		Lentria, usaria and vegotavisa considered mexpensive
4. Integration	▦	Political conservatism driving mast consumption     Family and friends as conside bis ources to provide dictary advice*     Difficulty in avoiding meat during holidays     Incorporating kids' dictary needs     Western culture not inclined towards plant-based     Individual family culture and upbringing     Thexitarians' lacking a social identity	Tondency to avoid new foods (food neephobia)     Meat tatk-fixed.     Meat tatk-fixed.     Peeling of anger or trideness without meat     Meat "Implicitly associated with being familiar, tasty, masculine and nourishing     "vagan" least implicitly associated with being tasty, familiar and nourishing     Health Concerns prevent a subtainable did triansition     Beel and chicken perceived as more onjoyable than lentifs, beans and plant-based     alternatives		

© Behaven.

### 3. Solution

What evidence-based interventions should be used?



# A behaviour change toolbox

# nform eeisuade Simply. stimulato socialiso Incenti ₽<sub>/an</sub> Practice

© Behaven 2022.

#### The Rainbow Wheel<sup>™</sup>

Made of 66 interventions

Specifically developed for sustainable behaviours

With the support of



Behaviour change interventions as 'active ingredients' to:

- 1. Reinforce
- 2. Complement

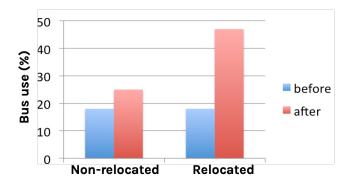
your existing marketing efforts

# **Stimulate: example**

Looking at people's life stages as an opportunity to encourage the adoption of sustainable behaviours and habits "For instance, personalised travel package for new people in a neighbourhood (e.g. public transport options, nearest essential stores, ...)"

Can be relevant for:

- For first-time parents
- People moving house
- Getting a new job, ....
- But also Covid!



Transport for Humans, interview with Pete Dyson: <u>https://behaven.substack.com/p/interview-transport-for-humans</u>

Sustainability and Habits with Bas Verplanken: <u>https://behaven.substack.com/p/sustainability-habits-bas-verplanken</u>

Verplanken B., Wood W. (2006), Interventions to Break and Create Consumer Habits, Article in Journal of Public Policy & Marketing. Wood, W., L. Tam, and M. Guerrero Wit (2005), Changing Circumstances, Disrupting Habits, Journal of Personality and Social Psychology, 88 (6), 918–33.

Tailored bus information and 1-day pass to promote bus use given 6-weeks post-relocation was more effective (inc. from 18% to 47%) than when given to those not relocating (Bamberg, 2006).

## **Practice:** example

Give people the knowledge and confidence to use alternative modes "Training Mode helps to make Lime accessible to more riders, especially new riders, women and older riders, who may be more apprehensive at first."



We provide a full induction explaining how our local charge points work, and how to plan charging on a long journey if you want to use more than the range of the vehicle (each vehicle has a range of around 250 miles).

https://www.li.me/blog/lime-launches-training-mode-in-select-markets https://www.tripto.org.uk

# Socialise: example

Social norms and the promotion of shared social practices provide powerful opportunities for changing mobility behaviours *"...car use fuelling social isolation, individualism and even rightward shifts in political ideology."* 

- Shared social practices: for instance, Community Cycle Club

   cycling together as a way to connect individuals to their
   community and get them to achieve their goals or car clubs,
   e.g. TripTo, "We're a non-profit social enterprise run by and for the
   communities in which we operate."
- Social norms: "26% of commuters at our university have switched to more sustainable modes of transport to campus."
   = 5 x less private vehicle use

https://www.tripto.org.uk

https://www.cyclinguk.org/community-cycle-clubs

https://www.kcl.ac.uk/the-role-of-car-clubs-in-achieving-londons-sustainable-transport-future

Mattioli, Giulio & Roberts, Cameron & Steinberger, Julia & Brown, Andrew. (2020). The political economy of car dependence: A systems of provision approach. Energy Research & Social Science. 66. 101486. 10.1016/j.erss.2020.101486.

This message sent to to university staff and students decreased private vehicle use for commuting by approximately five times compared with baseline (Kormos et al., 2015).

### 4. Execution

How to implement these interventions for maximum impact?



### **Co-create solutions**

Critical for acceptance and effective design In particular for mobility, where choices will directly affect other people's safety and wellbeing:

- This is why Behaven regularly runs workshops to co-design and co-evaluate behavioural interventions together with key stakeholders.
- Another example, 'Fietstrommel' in the Netherlands:





# **Combine solutions**

Because combined approach work best "We identified 12 measures already implemented across European cities that have measurably reduced cars. The most effective combine charges / restrictions for cars + investments / campaigns for walking, biking, public transport."

https://twitter.com/KA\_Nicholas/status/1514584668435324933



## **Cross-sector collaboration**

Many of the things we can do to limit climate change as individuals have wider benefits on our wellbeing Collaboration with health professionals to capitalise on synergies:

- Framing sustainable mobility
   behaviours as healthy behaviours
   for instance, promoting active travel.
- It could also be a convincing argument to prompt policymakers into action, by making the health impacts of pollution more salient to them.



# environnement.brussels 🍛

Bruxelles-Environnement case study: Encourage the correct disposal of waste in Brussels' parks after covid, in a context where the volume of waste has followed the increase in visitors

#### **Execution overview:**

#### **Creative strategy**



#### Social norm

Reinforce the perception that most people bin their waste, and that keeping the parks clean benefits everyone

#### Simplification

Give specific and visual instructions about the target behaviour



Media strategy

#### **Prompts**

Deliver the message close to where the target behaviour is to take place

#### Restructuring

Optimise the immediate context of the target behaviour to make it easier and more motivating

# To keep the conversation going

Three actions to take:

Dedicated session for you and your team

 contact Fred <u>fred@behaven.com</u> or +32 476 01 01 05

2. More information on www.behaven.com

3. Subscribe to Good Moves and learn from the best experts in the science of sustainable behaviours: <u>behaven.substack.com</u>

