

Make way for active transport: Opportunities to change travel behaviour

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INHERIT AIMS

MODIFYING:

- Lifestyles
- Behaviours

AIMING FOR A "TRIPLE WIN":



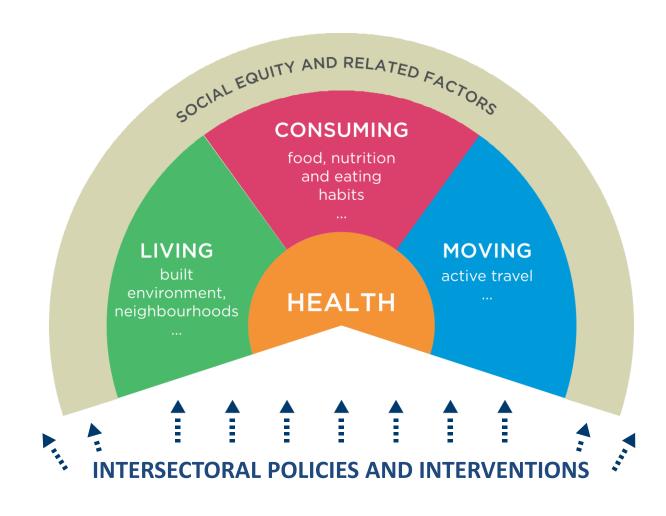
Health



Equity



Environment



INHERIT Process



BASELINE REVIEW ANALYSIS

COMMON ANALYTICAL FRAMEWORK 50 PROMISING PRACTICES

VISIONING AND FUTURE SCENARIOS 12 PILOT PROJECTS

IMPACT ASSESSMENT POLICY KIT



Aims Baseline Review

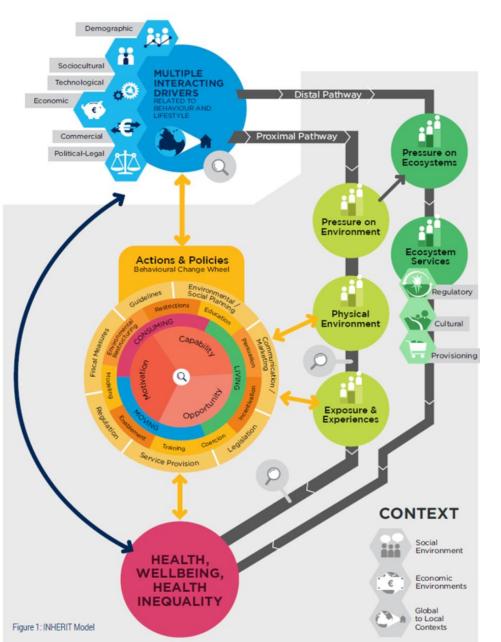
- Bring together knowledge on impacts of key environmental factors on health across the social gradient
- Identify main (drivers of) behaviours that impact environment and health, health equity and wellbeing ('triple win')
- Collect information on policies, interventions and innovations
- Focus on behaviours and lifestyles

Focus on

Living- green space & energy efficient housing **Moving** - active transport **Consuming** - food and food waste



INHERIT model or "Behaviourally enhanced DPSEEA model"



A brief walk through the model



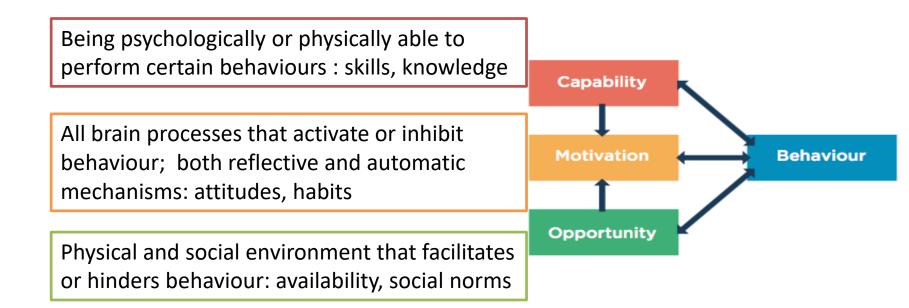


Reis et al. (2013) Michie et al. (2011)

COM-B

Behavioural System:

Entry-points to change behaviours and lifestyle



Behavioural Change Wheel

What conditions internal to

- Individuals/populations
- Decision-makers
- Social/physical environments
 need to be in place to achieve
 specific behavioural targets?



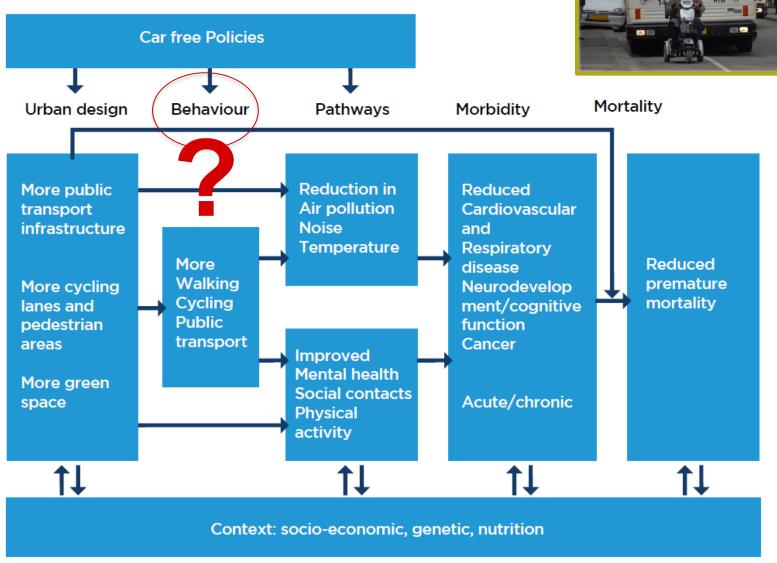




Challenges

- Motorised transport: 25% greenhouse gas emissions EU
- 50% daily journeys by cars < 5 km
- Congestion, air pollution, noise, sedentary behaviour
- People want convenience and speed
- Unattractive, unsafe walking & cycling infrastructure
- High household income: better active transport settings

Rethink urban design needed



Source: Nieuwenhuijsen& Khreis, 2016

Triple win shift - active transport



- Decrease in air and noise pollution and greenhouse gas emissions
- Less congestion (if shift from motorized transport to active transport)



- · Lower body mass index and decrease obesity
- Reduced prevalence of type 2 diabetes
- Reduced cardiovascular morbidity/mortality
- Improved mental health
- Increased self-sufficiency and social activity
- Positive effect related to less noise/air pollution
 - Decreased rates of respiratory and cardiovascular diseases
 - Improved sleeping patterns
 - Less noise
- Negative effects: Increase of traffic injuries and deaths (depending on safety measures)



- Reduced exposure of social disadvantaged groups to traffic, air pollution and related adverse effects
- Increased physical activity among low income and ethnic minority adults.











Opportunities & challenge

Combine structural measures with behavioural measures

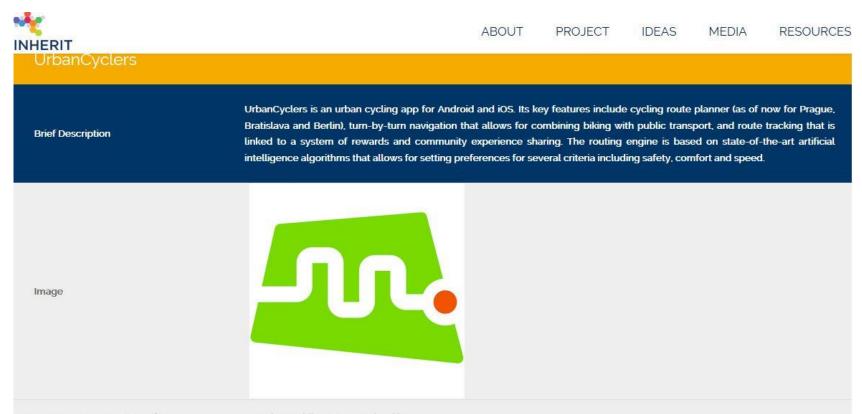
Capability	Opportunity	Motivation
Being able to (safely) cycle and walk	Safe, attractive walking and cycling infrastructure	Perceived accessibility/safety
Cycle training	Dense public transport network	Incentives for active travel, fun /play aspects



Rotterdamse doortrappers



INHERIT Database promising practices



This app has been chosen because it has a clear win-win potential that may turn into triple win. From an environmental perspective, it motivates a switch from car to cycling for daily commuting and reduces emissions, noise and congestion. From a health perspective, it promotes regular physical activity thus contributing to healthier lifestyle, reduces morbidity and premature mortality risks. The social perspective is somewhat less pronounced but cycling is one of the most affordable transport means, and a well-designed and clear approach may help users overcome perceived barriers of urban cycling, e.g. by means of route planning and navigation, or community experience sharing.



Conclusions



- Need to understand & address (behavioural) trends driving current & future mobility
- Most effective: combine structural with behavioural measures
- Enough evidence to act now, (intersectoral) coherent action needed from policy makers, private sector & citizens
- Opportunities: e.g. EU-SUMP, city and country initiatives
- Need for longitudinal studies/natural experiments to improve understanding (cost-)effectiveness of innovative measures which stimulate active transport
- Sustainable and healthy transport for all

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THANK YOU!

