Cycling in Cities is Healthy (E-bikes too)



BE ACT Be Active in your Community Today

Objective: More people more active in their community

Active citizens, active citizenship, active cities

More people walking & cycling more often — and making even more want it



Cycling for Transport: More Benefits than risks



Much greater benefits of more physical activity VERSUS

Increased exposure to air pollution & traffic crashes

Sources Johan de Hartog J, Boogaard H, Nijland H, Hoek G.: Do the health benefits of cycling outweigh the risks? Environ Health Perspect. 2010

Celis-Morales CA et al. Association between active commuting and incident cardiovascular disease, cancer, and mortality: prospective cohort study. *BMJ*.

2017;357:j1456.https://doi.org/10.1136/bmj.j1456.



Cycling for Transport: Benefits > risks



Bicycle sharing

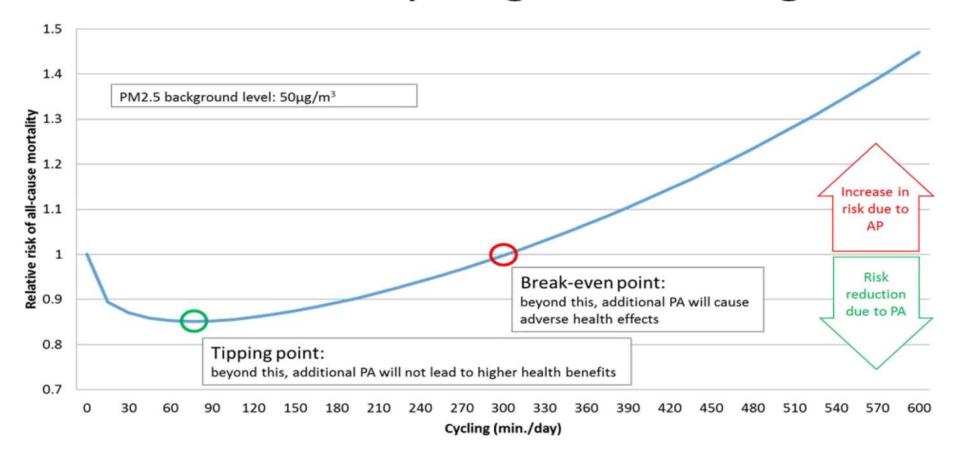
Health benefits of physical activity much greater than risks of air pollution & traffic incidents. 2011study

"Bike share is safer than riding a private bike." 2018 review

Source:Rojac-Rueda, D et al "The health risks and benefits of cycling in urban environments compared with car use: health impact assessment study" BMJ 2011; 343: d4521 doi: 10.1136/bmj.d4521

Fishman, E. &P. Schepers (2018), "The Safety of Bike Share Systems", ITF Discussion Papers, International Transport Forum, Paris. https://www.itf-oecd.org/sites/default/files/docs/safety-bike-share-systems 1.pdf

Can air pollution negate the health benefits of cycling and walking?



Marko Tainio^{a*}, Audrey J de Nazelle^b, Thomas Götschi^c, Sonja Kahlmeier^c, David Rojas-Rueda^{d,e,f}, Mark J Nieuwenhuijsen ^{d,e,f} , Thiago Hérick de Sá^g, Paul Kelly^h, James Woodcock^a. Prev Med 2016 (accepted)

Pedelec E-Bikes:

Health benefits > risks



New cyclists!

- Older
- Less fit
- Overweight
- Bike to Work
 -=> 15-25 km
- Bike to shop & school

Health benefits of electrically-assisted cycling: a systematic review, Bourne J et al. Int J Beh Nutr & Phys Act.,15,116 (2018)

Twitter @BEACThealth

https://ijbnpa.biomedcentral.com/articles/10.1186/s12966-018-0751-8

A. Act Now to increase PA





Advocacy Leadership

www.ActiveVoice.eu



6 HEALTH-ENHANCING PHYSICAL ACTIVITY. CORE DOCUMENT FOR

. VIEW



10 STRAIGHT TO THE POINT: MAPPING AN ADVOCACY STRATEGY

₹ VIEW



14 PLANNING MOMENT #5: 10 MAPPING ADVOCACY



7 GOVERNING INTERNATIONAL ADVOCACY NGOS

4 VIEW



11 ADVOCACY TOOLKIT

≛ VIEW



8 ADVOCACY IN ACTION – A TOOLKIT TO SUPPORT NGOS

4. VIEW



9 MONITORING, EVALUATION AND LEARNING IN NGO

₹ VIEW



12 HANBOOK ON ESTABLISHING AND RUNNING AN

± VIEW



13 GUIDELINES FOR HEALTH-ENHANCING PHYSICAL ACTIVITY

VIEW



15 SPORT4ALL ADVOCACY TOOLKIT



16 ROAD MAP FOR A STRATEGY ON HEALTH-ENHANCING PHYSICAL



17 HEALTH-ENHANCING PHYSICAL ACTIVITY POLICY

B. Bring Health...

- A> Bring Health experts & officials to discussions
- B> Lobby for Health proposals
- Best value for money (World Health Org):
- 1. Mass market information campaigns
 - to increase knowledge
- 2. Physical Activity in health screenings
 - everyone every year

C. Count the Costs



Health Economic Assessment Tool (HEAT) for walking and cycling



HEAT estimate

Reduced mortality as a result of changes in walking behaviour

The walking data you have entered corresponds to an average of 30 minutes per person per day.

This level of walking provides an estimated protective benefit of: 14 % (compared to perso

From the data you have entered, the number of individuals who benefit from

Out of this many individuals, the number who would be ex

The number of deaths per year that are

APPLYING HEAT TO THE EUROPEAN Economic

If all citizens in the EU aged 20-74 cycled or walked an additional 15 minutes per day, 100,000 premature deaths could be

prevented each year

Plea: popula that the

isk reductions for individual persons but an average across the mould not be misunderstood to represent individual risk reductions. Also note alue to the life of one particular person but refers to an average value of a "statistical life".

It is important to remember that many of the variables used within this HEAT calculation are estimates and therefore liable to some degree of error.

Cycling Economics



Netherlands:

Health benefits > 3% GDP

€31bn/year

Infrastructure for cycling cost €0.5 bn/yr

27% of all trips by cycle

Dutch adults 20 -90 yrs cycle

74 minutes / week



Fishman, Schepers & Kamphuis 2015

Dutch Cycling: Quantifying the Health and Related Economic Benefits" online, AmJ Pub Heal June 11, 2015

HEAT in **Finland**

FINNS TOLD TO GET ON THEIR BIKE

Nationwide campaign to increase walking and cycling "I move, therefore I am."

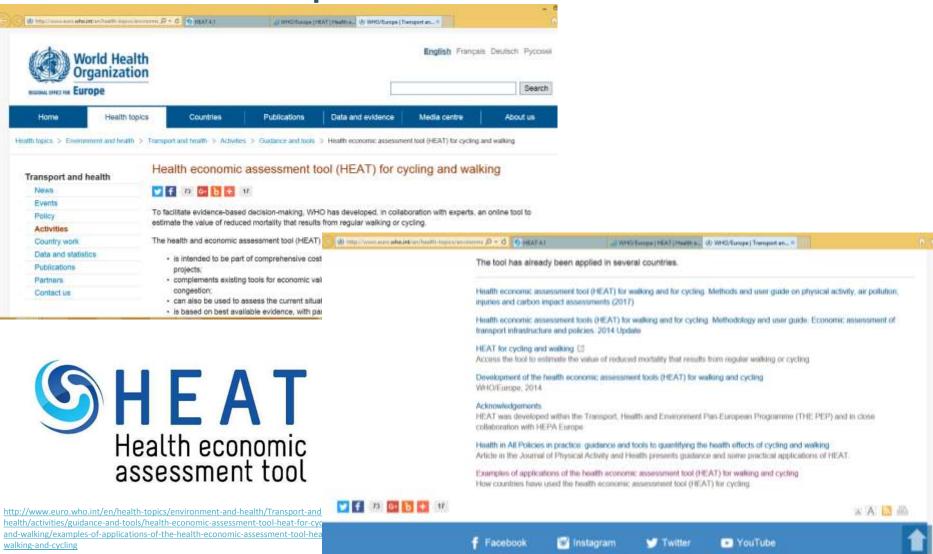
SHEAT

- Transport Minister Anne Berner (2018)
 - "the two-year campaign could create some <u>€4</u>
 billion in (...) benefits" if cycling and walking increase 20%.

Health economic

assessment tool

More examples....



What's a Cycling Master Plan worth? HEAT 4.1 in Austria, Germany & France





AUSTRIA: Cycling worth € 11 billion over 10 yrs



GERMANY:

Cycling Worth

62 040 000 000 per year.

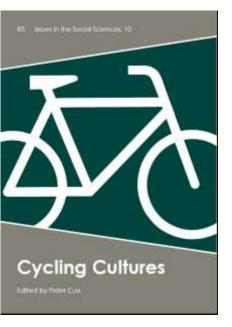




















CYCLE-LOGISTIC

Bikes = City Chang

Cargo Bike City Changer + Healthy!

Replace

32% trips commercial delivery

50% trips service

77% *trips* shopping



Flower Shop Bike



Barbecue Bike



Newsman Bike



Projection Trike



Advertising Bike



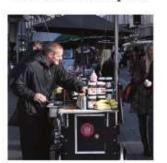
Generations Bike



People Transport



Private Transport



Rolling Vendor



Parcel Delivery Bike



Party Bike



Street Transformer

Cargo Bike Trials for employers

- Cargo Bike testing lets employers & employees get real experience.
- 80% of the bikes were 'adopted' and used after the test ended.

A NEW MOVE FOR BUSINESS- Electric cycle logistics in European cities (Free Online in EN & IT, PT, SL, HR) http://www.pro-e-bike.org/publications2/



Building on Experience

- You are experts
- Your situation + experience = the key
- What has worked?
 - "almost worked"?
 - failed?
- What can you do?

Thank You

Contact
Randy Rzewnicki, PhD
Be Act (vzw)
Brussels BE

- Randy@onepost.net
- +32 486 481 422 or +32 486 839 556
- www.BEACT.eu

Brief Workshop

- 1.Urobte menšie skupiny (4-5 ľudí, dve polovice stola ...) 1 min
- 2. Predstavte sa navzájom a o ktorej téme chcete hovoriť (číslo témy) 2 min
- 3. Dohodnite sa, o ktorej téme teda budete hovorit'.
- 4. Preberte vybratú tému plusy a mínusy každý človek max 1 min
- 5. Jeden človek zo skupiny nech je pripravený zhrnúť ZA a PROTI alebo zhrnúť "prečo sa to nedá".

1. Presadzovanie záujmov

Témy

- 2. Rozvoj lídrestva
- 3. Využitie argumentov a údajov o zdravotnom stave obyvateľstva
- 4. Zapojenie odborníkov na zdravotnú starostlivosť do diskusie
- 5. Lobovanie za healthe proposal: (Mass market information & events OR Physical activity screening in health checks)
- 6. Využitie ekonomických argumentov
- 7. Využitie HEAT vo vašej práci
- 8. Presadzovanie, aby HEAT bol využívaný pri hodnotení dopravných projektov
- 9. Podpora dochádzania do práce na bicykli
- 10. Zavedenie certifikátu "Zamestnávateľ priateľský k cyklistom"
- 11. Využívanie nákladných bicyklov v zásobovaní
- 12. Presadzovanie nákladných bicyklov do mestských politík
- 13. Nákladné bicykle

REFERENCES

CYCLING MASTER PLAN 2015–2025, FEDERAL MINISTRY OF AGRICULTURE, FORESTRY, ENVIRONMENT AND WATER MANAGEMENT, Vienna, Austria, bmlfuw.gv.at

National Cycling Plan 2020: Joining forces to evolve cycling, 2012, Federal Ministry of Transport, Building and Urban Development, Division, Passenger Transport, Public Transport Systems, Cycling, Berlin

Kahlmeier ea 2017 Health economic assessment tool (HEAT) for walking and for cycling Methods and user guide on physical activity, air pollution, injuries and carbon impact assessments Copenhagen: WHO Regional Office for Europe; www.euro.who.int Free to download at HTTPS://BIT.LY/2C4IDZZ

Neun & Haubold 2016. The EU Cycling Economy – Arguments for an integrated EU cycling policy. European Cyclists' Federation, Brussels, December 2016

Rutter ea 2008 Health economic assessment tool for cycling (HEAT for cycling). User guide. Copenhagen: WHO Regional Office for Europe;