

The Transport and Health Integrated Research Network

Dr Sarah Jones, Public Health Wales.

Professor Charles Musselwhite, Aberystwyth University





Contents

- Why are we needed

- Our topics

Road traffic injuries

Pollution

Active travel

Our approach

The THINK Foundry

The THINK Academy

THINK Participate

Community severance













Where we're going...

A health perspective on transport / cars

- 12,000 years of roads
- Advantages trade, development, communication
- Disadvantages illness, disease



■ Pre-car ■ Car





Roads seen as a public space, which all citizens had an equal right to. Including children at play.

"What evil bastard would drive their speeding car where a kid might be playing?"







Road traffic crashes... Killing people since 1896...





"Such a thing should never happen again"

HM Coroner, 1896





TION ROUSED AGAINST MOTOR KILLIN

or vigorius no nettes to postet and highway upted Secretary upted Secretary upted Secretary or of the variage and in electrical and the subjects will hington on Dec. the subject from the subject to the subject for planning and to electrical and the subject for planning and to electrical and the subject for the subj

t war appear to be than the horses of exposed the trees up destructive pleas of than the marbine tectoriet deals game intymes. The mes jose soft than the

our man were killed weignis in the abocountry's portholofus. Take is at the r a membra, median tred with the startin destroyed meethly United States.

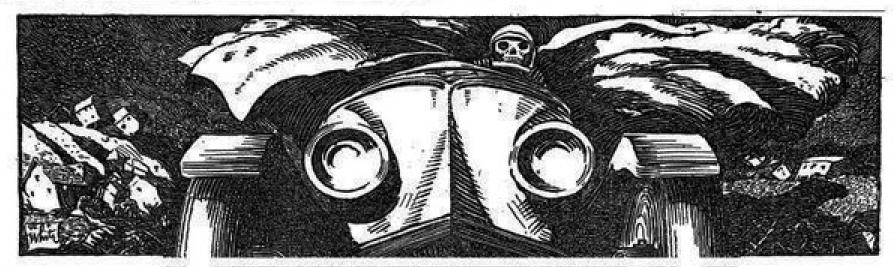
i behad factor in the absorbine in it water a 1995. It accordant According to the reserved in the first age there will be an a 2,000 for 1995. At taker approximately had already been

ind by Secretary 1th tell estatements in street and highless street and highless street in the later in by Mr. Banear in with a clearly depetite audited street in placing para the neural report Commun Dorson on which revealed that a retreet medium; if almost 1,000 over

telled in automobile on any given as 2 MAH.

also concerned in it was a man of the content of it was a man of the content of its angular to the content of its angular in the content of its angular investigation of its angular investigation of its a think think in the content of its angular investigation of its angular investigatio

Secretary Hoover's Conference Will Suggest Many Ways to Check The Alarming Increase of Automobile Fatalities.—Studying Huge Problem



reach became indignificant by assumptions with Clear custed by astemption.

The hope exceeds loss exceed by ayest and highway anothers in set forth in a preliminary months to prepared by the Committee on Statistics appointed by the Committee on Statistics appointed by the property Normal. On this public the report any in party.

"The seconds has die to these spreadening 190,000 and others to which personal infloriou occur our probably carry to known. Sevent authorities have been made. The most exceptivities have been made to we would likelikly of \$1,000 per \$16 and average of \$175 for each personal factor.

"These two home, applied to \$1,000 fatalities and \$15,000 two-fatal inferior, respectively, give an approximate level, and an approximate level, and an other an arrange actual property fatalism of \$100 first in all accidents levelying other personnel injury or property damage cleans received in the set of the property of the property damage conservatively militarial at LMSADOL, there receive a total content of the property set of the property of the property

To these authorites no adversed t



esserting these is the actual use of the highway in the presence of superior focus in the shape of the compressor montropy

"It is usually early when its exect at the post-marries of an accelerate or his own holdly post-marries from such solidant that the 'potentian is, as to neach, allowed to under the logal rights' floor of us profes not to fall violance as the price of such reposture.

"Steam them mays Occamed O'Epum was quested an angling that besset off us are quested as angling that besset off us are still additional to the sills of a patronic of the second of the

Pedestrian Like a Habber

De already and you would be'n privileg about such mentures, towarding driving an eight new.

"Under present 's deadly despetition and metaclet for a of invelory we'ved deadly to 10 want

Treatily, 5-4s is viscopalist, this on some bediebtest if the other white of the bedies and as two bedies and the second as the second a

"Nanifestly, the sea. The menging a mentione. Homean's mentione Rieman's testified and the school following aged personal testification opening the season of their death opening the season of their death opening the season of their death opening the season ope

"As R stands, the his seminat for the seminat for the semipropert of local passes present officers of pater vehicle authority and his kind. The a four and the part of four and the part of four and the part of

"If we have falled

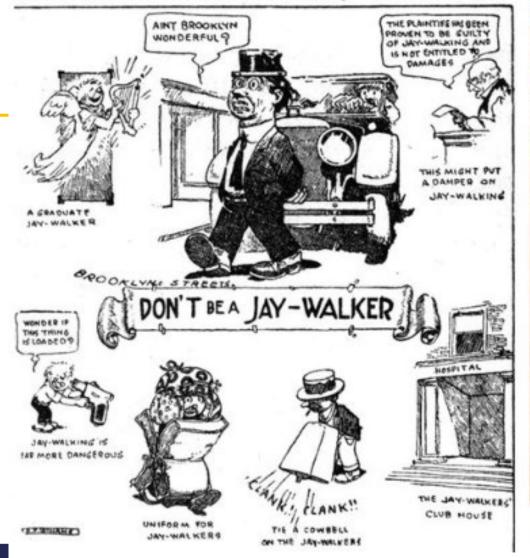
into controlling plants in the fin anticouple to me. It is well enough to warden, it by the control of the cont

"Any regulating as to be done with contioned rights will extinued rights will be. To place in the handchal such as the Politics or any other of power to premisipals duct for a quantitionable for here will measure.

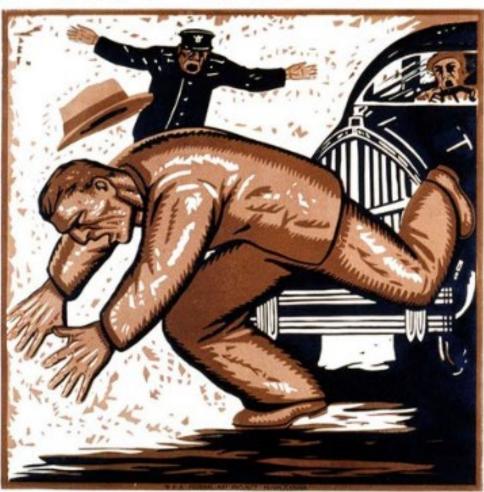




A Traffic Problem—Jay Walking



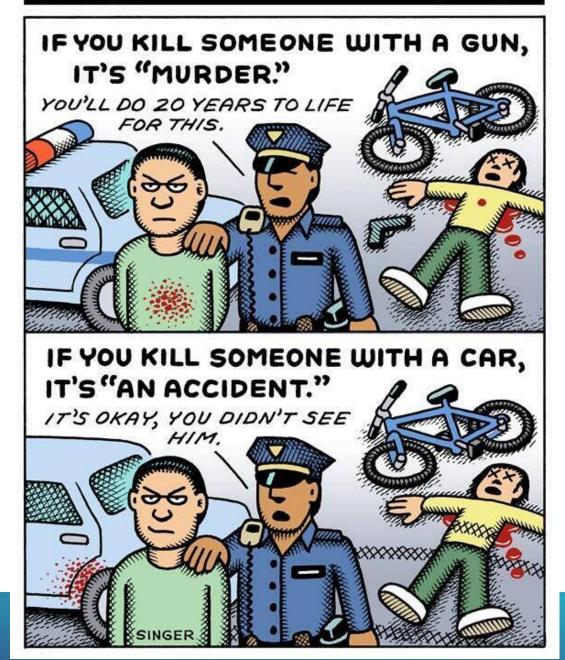
DON'T JAY WALK



WATCH YOUR STEP

Government safety posters ridicule jaywalking in the 1920s and '30s. (National Safety Council/Library of Congress)

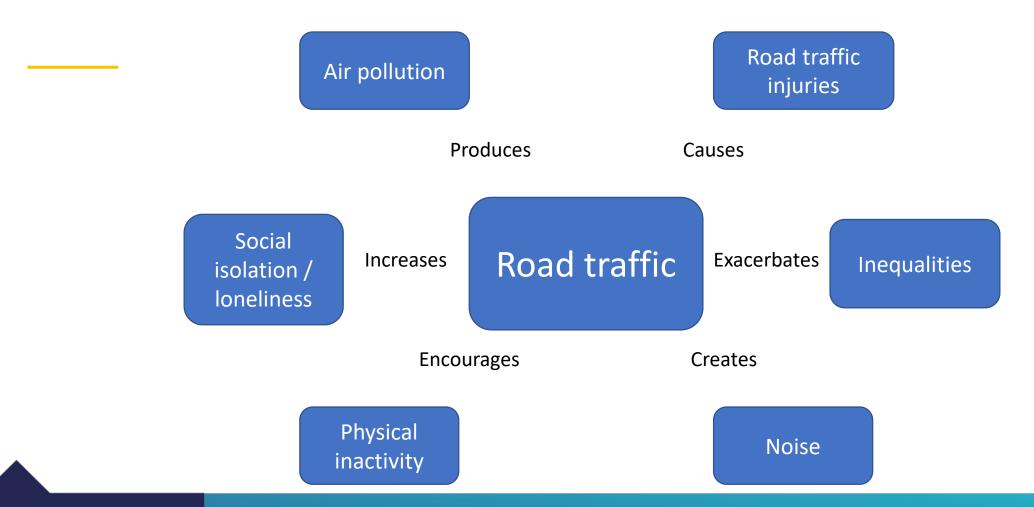








What does road traffic do for us?







Community severance



- Car dependency
- Isolation and loneliness
- Low social capital and support

High deprivation=more main roads

Health and wellbeing impacts

Road traffic casualties and injuries



- 153,000 casualties in UK/year
- Big improvements in numbers
 But mostly for vehicle occupants
 - Vulnerable road uses walking/cycling - still high
- Older pedestrians & young drivers
- Those living in areas of high deprivation

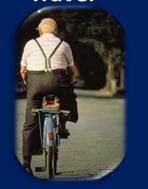
Pollution



Vehicles still high level of pollutants

- Research indicates 8.8m early deaths each year worldwide
- Direct health consequences
 e.g. asthma, emphysema, lung cancer
 - Narrows arteries and weakens muscles
 - Stroke and dementia link.

Reduction in active Travel



- All cause mortality down by 20%
 - Cardiovascular disease by 30%
 - Reduce high blood pressure and stroke
 - Mental health improvements
- Low levels in UK of active travel
 - Obesogenic environments

Some potential research avenues for THINK!

- Identification of interventions to increase active travel and the use of public transport equitably.
- 20mph default speed limits chance to improve all 4 areas injuries but also pollution, community severance and active travel. When and how do they work to improve health and how to implement them successfully.
- How to engage stakeholders and the public in transport and health debates and gain acceptability of the public in some of the interventions.

- Transport innovations, such as electric bikes and autonomous vehicles and their effect on health.
- Transport system innovations, smart cities, Mobility as a Service etc. how to build in health.
- The issue of health inequalities arising from changes to the environment.
- Rurality, transport and health.





Mapping out potential projects for THINK!

Projects 1.1: To scope, design and carry out complex system evaluation of proposed transport and transport related schemes on the health of individuals and the population (NIHR grants, complex and realistic evaluations; EU Projects) Projects 1.4: To explore new and strengthen existing connections between transport and health through research with partners, especially around inequalities (eg Welcome)

Projects 1.2: To utilise "big data" sets (ESRC)

Projects 1.3: To develop tools, products and solutions to improve healthy transport. (UKRI, industrial strategy challenges)

Projects 1.5. To sustain and grow the network into a consortium (MRC PRP / RCUK Large Centre Grants)







Work stream 1: The THINK Foundry. To generate new knowledge in transport and health (therefore enriching the network). The foundry supports two different strands of work:

- (1) Support for researchers and practitioners to systematically work together to develop, submit and win new funding in research.
- (2) Support research into policy and practice with workshops with key stakeholders aimed at maximising impact.

Work stream 2: The THINK Academy. To increase knowledge and skills in transport and health (therefore enhancing the network). The academy hosts the following strands of work:

- (1) Monthly plain English summary of research findings for practice and policy, blogs and vlogs.
- (2) A seminar series on transport and health to run every (1) 3-4 months.
- (3) Attendance at conferences
- (4) An annual THINK conference
- (5) Supporting training needs of professionals new to transport and health, including
 - a. An annual continual professional development workshop
 - b. Bespoke training support
 - c. Systematic mentoring scheme with experienced researchers
- (6) A website with a repository of information
- (7) Social media presence
- 8) Promotional material

Work stream 3: THINK Participate. To develop professionals and the public's understanding the relationships between transport and health (therefore integrating the network). Participate will provide resource to develop opportunities for collaborative working through:

- (1) 8 secondment opportunities for people from research to work in policy or practice to work together on a mini project around transport and health.
- 8 visiting practitioner opportunities for people from policy and practice to work in academic settings to work together on a mini project around transport and health.
- (3) Interactive roadshows with the public to help prioritise key issues, with published outcome material, along with summaries for the public developed.

Partnership working

















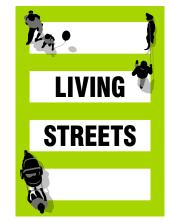
M M























VISION and BEYOND

- To make Wales the world leader on the integration of transport and health, setting the global agenda for integrated transport and health research, policy and practice, through
 - (1) new knowledge generation
 - (2) established integration of transport and health professionals, policy makers and academics,
 - (3) professionals, policy makers and academics with specialised skills and abilities in transport and health
 - (4) strengthening and supporting the implementation of local actions on transport choices for our health, environment and prosperity.

- To improve the health of people of Wales by reducing the negative impacts of transport by helping practitioners and policy makers identify the problems and achievable and workable solutions, for example,
 - improving active travel provision and quality,
 - increasing the number of people who walk or cycle,
 - reducing pollution and impact of pollution from vehicles,
 - reducing severance of communities and the number and severity of crashes on the roads,
 - with special regard for groups that are disproportionately affected by the negative health impacts, for example people living in areas of high deprivation, children, young drivers, older people and all ages of pedestrians, cyclists and motorcyclists.

- To contribute to the economy of Wales and stimulate job creation
 - Increase number of people working in transport and health
 - investment in research, education and also practice and policy e.g. environment-friendly transport including active travel, rail and light rail; clean and efficient public transport, efficient intermodal connections etc





VISION and BEYOND

But we need a strapline! Get voting!

- A. THINK moving Wales well
- B. THINK moving Wales healthier
- C. THINK Healthy movement, Healthy Wales
- D. THINK Healthy movement Wales







Thank you for your time Please get involved!

Dr Sarah Jones, Public Health Wales <u>sarah.jones27@wales.nhs.uk</u> @gdlSarahJones Professor Charles Musselwhite, Aberystwyth University <u>chm93@aber.ac.uk</u> @charliemuss



