

transit
con

Dr David Williams – Senior Project
Manager – TRUUD project

Elephant in the Road

Festival of the
Future City

How Do We Build Healthier
Cities?



University Consortium

City/Combined
Authority Partners



Research Funders



Professional Membership Partners



Creative Partners



About Me



TRUUD Project



The Elephant



Being Trampled



Feeding the Elephant



Taming the Elephant



Consultancy

Jacobs
ATKINS

Member of the SNC-Lavalin Group

Halcrow



Government

**Bath & North East
Somerset Council**



Academia





The project “Disruption: Unlocking Low Carbon Travel” project was funded by the EPSRC/Research Council UK Energy Programme, grant number EP/J00460X/1.

Social Practice Theory and Sustainable Transport: An
Analysis of English Local Transport Planning as a System
of Provision

THESIS

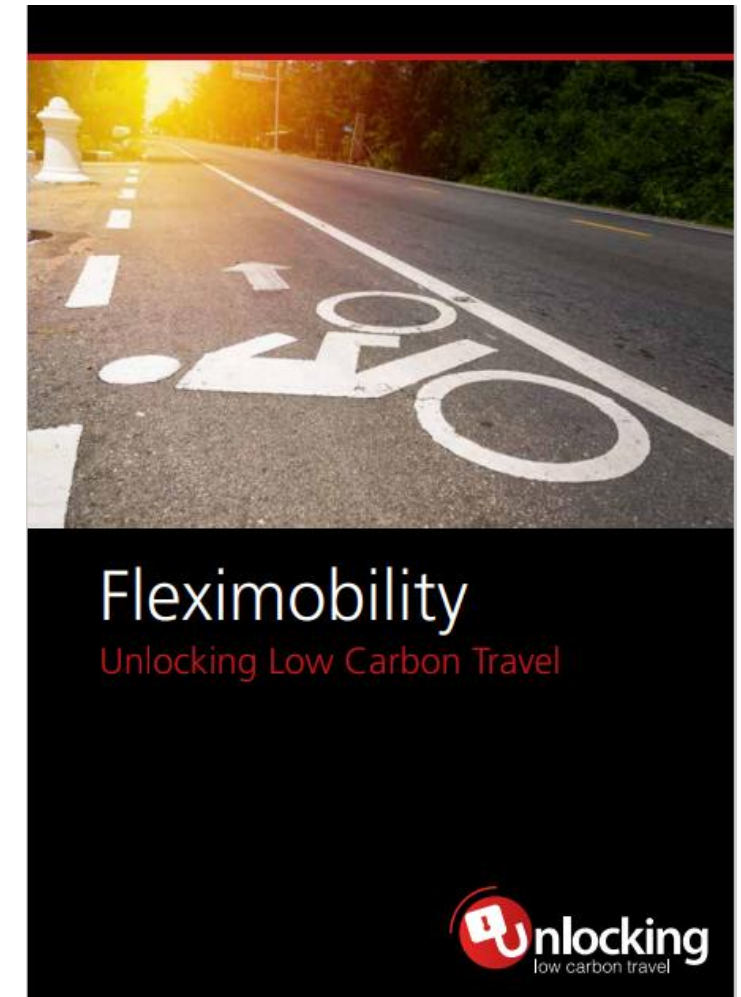
David George Williams




A thesis submitted in partial fulfilment of the requirements of the
University of the West of England, Bristol for the degree of Doctor of
Philosophy

Faculty of Environment and Technology

University of the West of England, Bristol

September 2015



	Car-centric culture	Cities are designed around cars with substantive resistance to change from many in local communities who want/ need two cars, government who want to ensure re-election and private industry who want to get planning as quickly as possible
	Local authority influence	Tasked with many responsibilities without the required resources, often lacking the capacity and power to mainstream health. They are limited by centralised power, private sector use of the law and a lack of public trust in urban development.
	Planning clarity & responsibility	Planning has a pivotal regulatory role but there are concerns over lack clarity, whether health is a planning responsibility and the extent to which the planning system can support innovation
	Policy alignment and coordination	Policy environments at local and national level are poorly aligned, often existing in siloes, complicated and expensive to navigate.
	Peripheral role of health	Health, wellbeing and sustainability are often marginalized in decision making across the system, whether governments, local communities or private interests. Where they constitute a 'win-win' aligned with traditional imperatives, they may be considered.
* 	Diversity & inclusion	A lack of diversity in voices heard by decision-makers, in whose needs are included in the design process, and in the diversity of thinking when it comes to making changes. There is however also an abundance of diversity in terms of stakeholder interests and the language used to communicate these interests.
	Understanding health impacts	Quantitative data that demonstrates health outcomes is preferred by actors, but insufficient access to this evidence. Data is challenging and expensive to obtain, with different views on which metrics are appropriate.
	Short-term profitability	The legitimacy of short-term profitability within private sector means that expensive or 'nice-to-have' aspects of development, such as health, wellbeing and sustainability are either not included in the original design, are squeezed out in implementation, or are available only to the wealthiest.

* Diversity by Cara Foster from NounProject.com

DISCLAIMER

Tackling Root causes Upstream of
Unhealthy Urban Development



Disclaimer

[This Photo](#) by Unknown Author is licensed
under [CC BY-SA-NC](#)

The Elephant

Tackling Root causes Upstream of
Unhealthy Urban Development



Photo by Unknown
Author is licensed under
[CC BY-SA-NC](https://creativecommons.org/licenses/by-sa/4.0/)

The Elephant

Tackling Root causes Upstream of
Unhealthy Urban Development



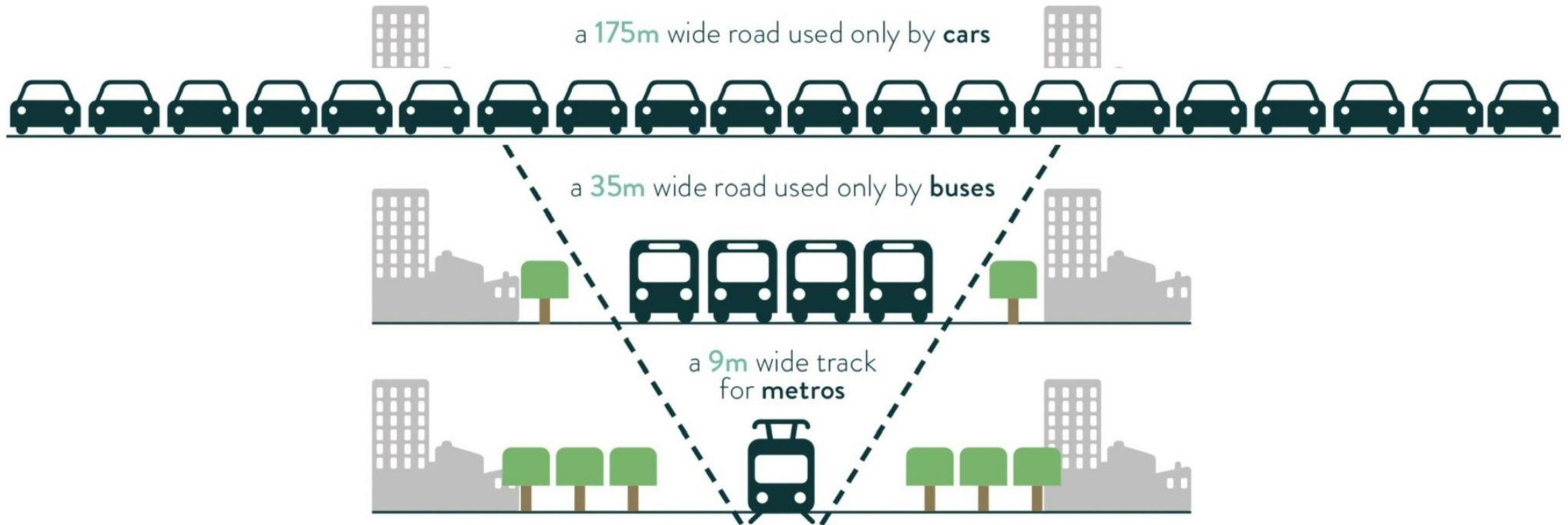
Source: Magical Quote (2023) [Brooks Hatlen Quotes - MagicalQuote](#)

The Elephant

Tackling Root causes Upstream of
Unhealthy Urban Development



To carry **50,000 people** per hour per direction,
a city needs...



Source: @fietsprofessor (2023) [Cycling Professor](https://t.co/T8v3emE78x) on Twitter: "Can you think about a less efficient way to transport people through your city than cars?"
<https://t.co/T8v3emE78x> / Twitter

The Elephant

Tackling Root causes Upstream of
Unhealthy Urban Development



Giulio Mattioli @giulio_mattioli@urbanists.social
@giulio_mattioli

...

Every time large cities consider introducing some restriction on car, some argue that that would be particularly unfair against the poor.

But in large cities the vast majority of the poor have no car, while the vast majority of the rich have one. See data from Germany

Basis: Households (Germany)

summarized regional statistical area type (7 categories):

- city region - metropolis

rows %	Total		Car in HH yes/no		
	base weighted	base unweighted	no	Yes	not specified
economic status of the household					
very low	2,158	1,117	73%	27%	0%
low	4,514	2,586	62%	38%	-
middle	14,750	13,089	43%	57%	0%
high	7,245	9,299	28%	72%	-
very high	2,176	3,390	18%	82%	-

Columns: all cases

Rows: all cases

Subdivision: all cases

Source: @giulio_mattioli (2023) [Giulio Mattioli on Twitter: "Every time large cities consider introducing some restriction on car, some argue that that would be particularly unfair against the poor. But in large cities the vast majority of the poor have no car, while the vast majority of the rich have one. See data from Germany https://t.co/OPIZmxeldt" / Twitter](https://t.co/OPIZmxeldt)

Being Trampled

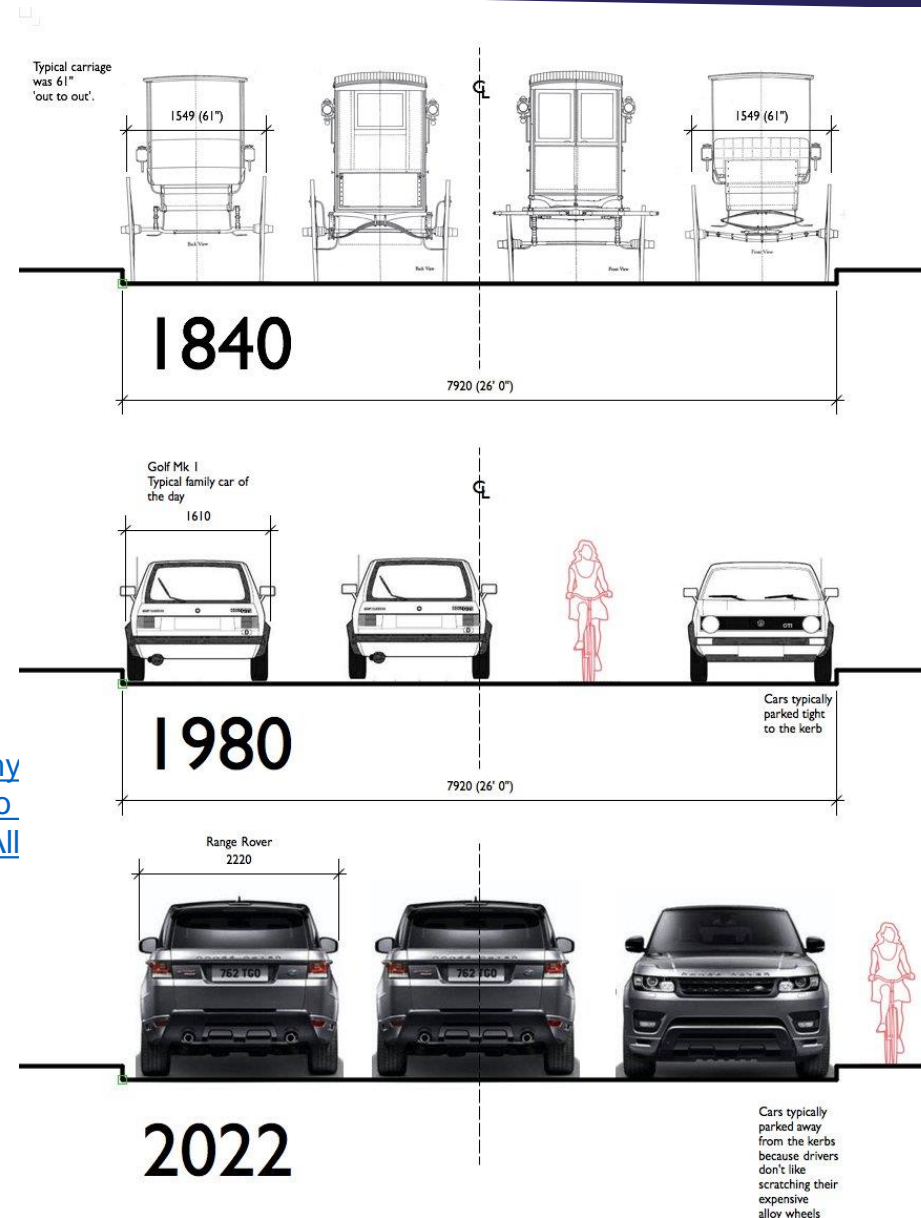
Tackling Root causes Upstream of
Unhealthy Urban Development



Photo by Unknown Author is licensed under [CC BY-SA-NC](#)

Feeding the Elephant - Vehicles

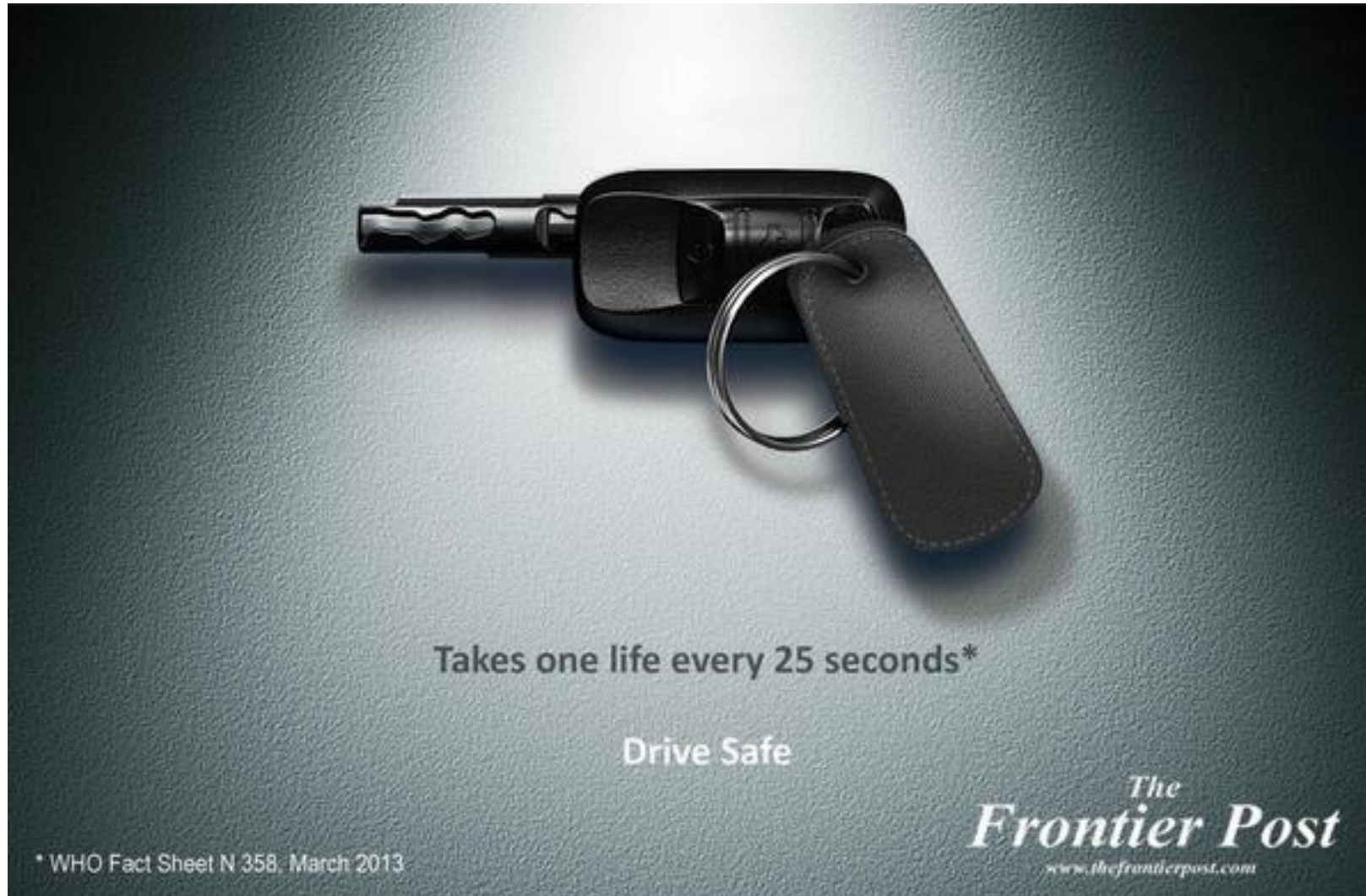
Tackling Root causes Upstream of
Unhealthy Urban Development



Source: @baoigheallian (2022) [Michael @baoigheallian@mastodon.ie](#) on Twitter: "I discovered my neighbourhood was developed in the 1840s so decided to an 1840 section to my 'cars are getting bigger' drawing. All same scale. <https://t.co/fhg2oDgDc3>" / Twitter

Being Trampled - Fatalities

Tackling Root causes Upstream of
Unhealthy Urban Development



Source: @fietsprofessor (2023) [Cycling Professor](#) on Twitter: "Kills one person every 25 seconds... <https://t.co/Pff9OetPIb>" / Twitter

Being Trampled - Noise

Tackling Root causes Upstream of
Unhealthy Urban Development



Journal of Transport & Health


Volume 27, December 2022, 101532



Evaluating urban public spaces from mental health point of view: Comparing pedestrian and car-dominated streets

Hooman Hematian ^a, Ehsan Ranjbar ^{b, c}  

[Show more](#) 

[+ Add to Mendeley](#)  [Share](#)  [Cite](#)

<https://doi.org/10.1016/j.jth.2022.101532>

Under a Creative Commons license

[Get rights and content](#)

 [Open access](#)

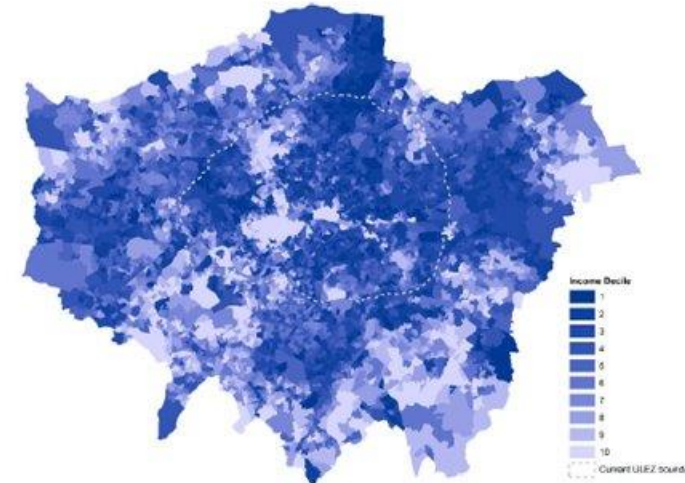
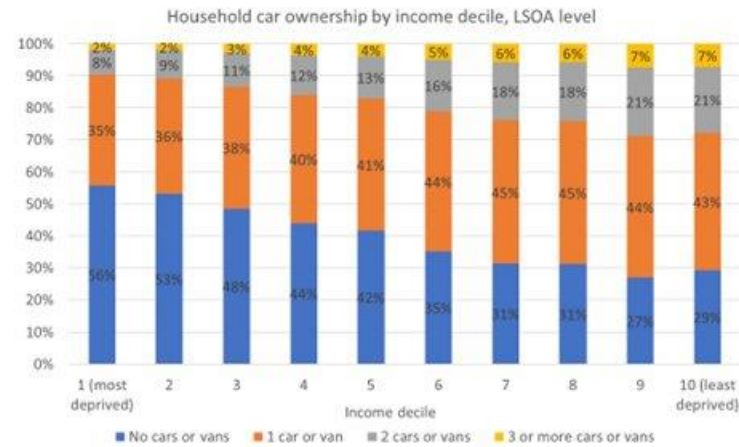
Source: Hematian and Rajbar (2022) [Evaluating urban public spaces from mental health point of view: Comparing pedestrian and car-dominated streets - ScienceDirect](#)

Being Trampled – Air Pollution

Tackling Root causes Upstream of
Unhealthy Urban Development



Income deprivation (MHCLG2019) and car ownership (Census 2021)



Car ownership
decreases as income
deprivation
increases

- This graph and map show the income deprivation only.
- Combining the income deprivation data with the Census 2021 car ownership at LSOA level shows that car ownership increases in households with lower levels of income deprivation. In the most income deprived decile, 56% of households do not own a car or van, compared to 29% of households in the least income deprived decile.
- Households in less income-deprived areas are more likely to own two or more cars or vans. In the most deprived decile, this is 10% of households and in the least deprived decile it is 28%.
- The map shows the spatial distribution of income deprivation.

Source: @willnorman (2023) [Will Norman on Twitter: "New: Toxic air is harming all Londoners' health, but analysis of census data shows it's the poorest who suffer the worst consequences of pollution & are much less likely to own a car. 56% of households with the lowest incomes don't own a car vs 29% in the least deprived areas. https://t.co/RCzdpsrhxn" / Twitter](#)

Being Trampled - Obesity

Tackling Root causes Upstream of
Unhealthy Urban Development



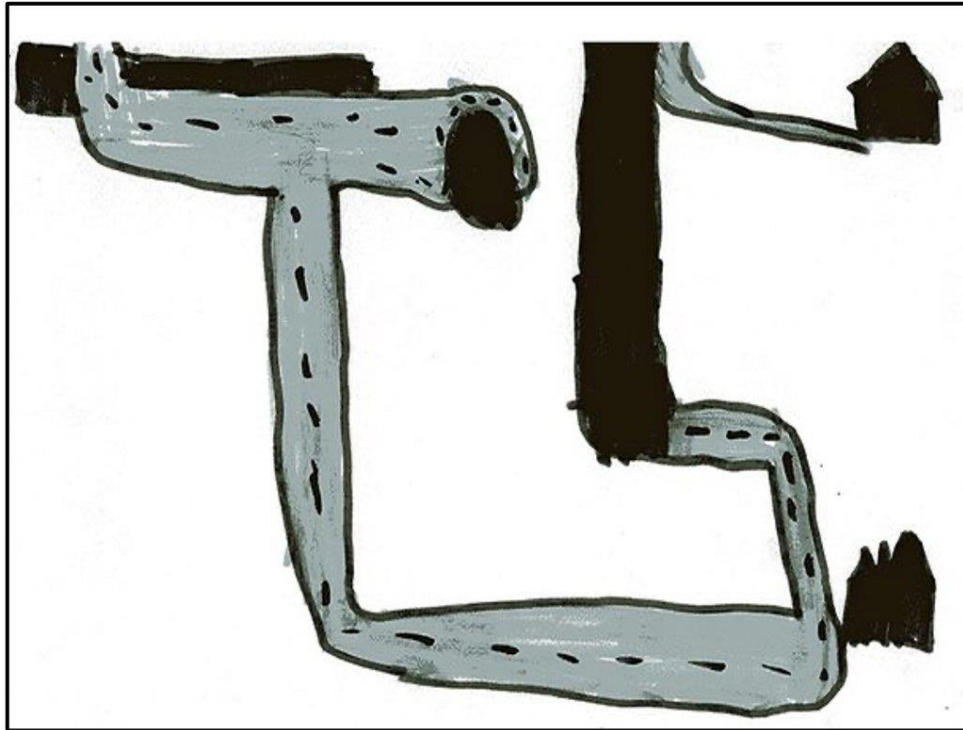
Photo by Unknown Author is licensed under [CC BY-SA-NC](https://creativecommons.org/licenses/by-sa/4.0/)

Being Trampled – Mental Health

Tackling Root causes Upstream of
Unhealthy Urban Development



Children's drawing of their trip to school



DRIVEN TO SCHOOL



WALKING TO SCHOOL

Source: @fietsprofessor (2023) [Cycling Professor](https://t.co/UR6MLkBZ7n) on Twitter: "Driving kids to school by car is not only bad for their health, their fitness or the safety of all other children. It also deprives children from a rich experience of their direct surroundings! (via @MargritStamm) <https://t.co/UR6MLkBZ7n>" / Twitter

Feeding the Elephant

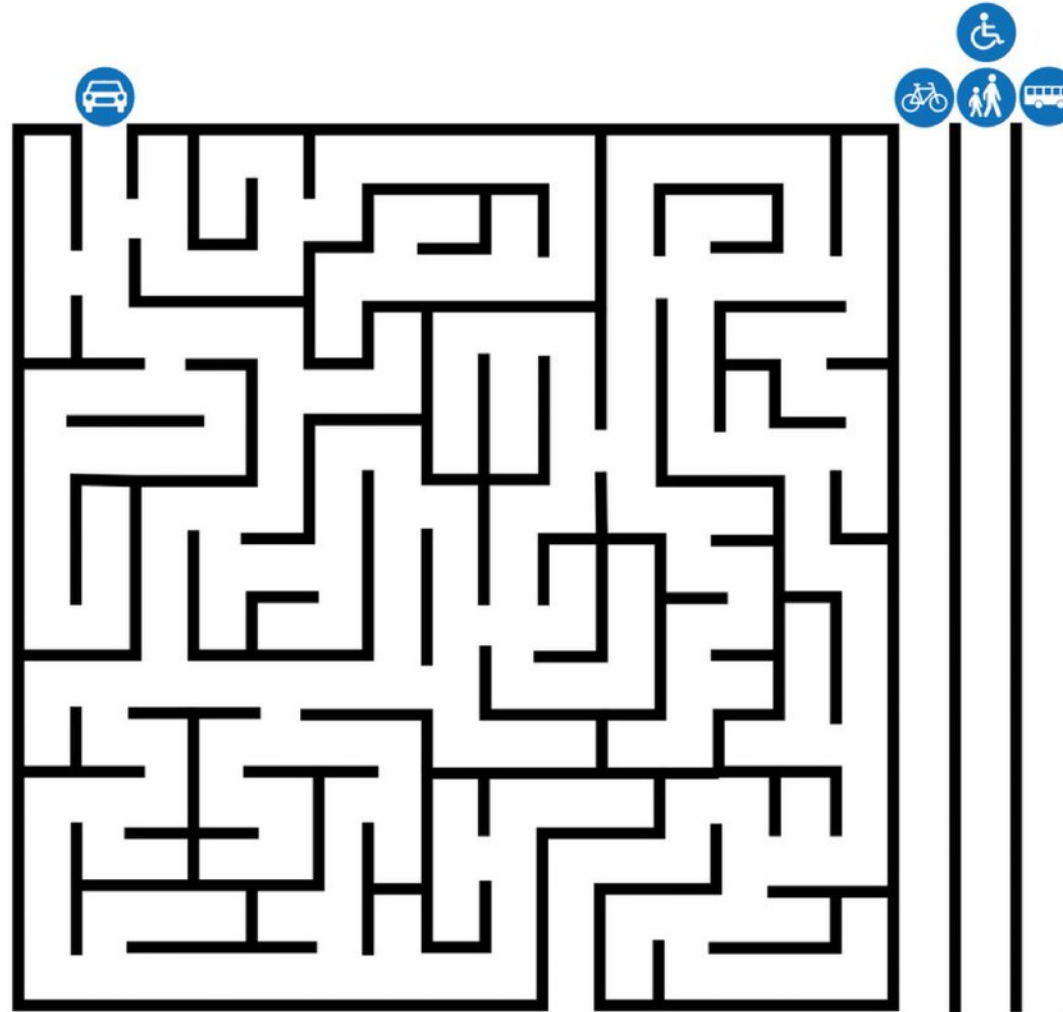
Tackling Root causes Upstream of
Unhealthy Urban Development



Photo by Unknown Author is licensed under [CC BY-SA-NC](https://creativecommons.org/licenses/by-sa/4.0/)

Feeding the Elephant - Planning

Tackling Root causes Upstream of
Unhealthy Urban Development



Source: @_dmoser (2022) [Daniel Moser - dmoser@mastodon.social](https://t.co/XH7TH7AyOA) on Twitter: "Brilliant 21st Century Urban Mobility Planning HT @colvilleandersn <https://t.co/XH7TH7AyOA>" / Twitter

Feeding the Elephant - Infrastructure

Tackling Root causes Upstream of
Unhealthy Urban Development



Source: @adamxyglis (2016) [Adam Zyglis on Twitter: "Slow roll... @TheBuffaloNews #Buffalo #NewUrbanism #SlowRoll #CompleteStreets https://t.co/kbw0DHF0x2 https://t.co/2W3zA65GWd" / Twitter](https://t.co/kbw0DHF0x2)

Feeding the Elephant - Maintenance

Tackling Root causes Upstream of
Unhealthy Urban Development



Elina Seppänen, Jarkko Karjalainen ja Selma-koira seuraavat säätilaa Oulun Konetyön tallilla linatissa. Kuva: Pasi Rytinki

Source: City of Oulu (2023) [Oulu's world reputation as a master of winter maintenance is being built by an SME in linatti - Mun Oulu](#)

Feeding the Elephant - Taxation

Tackling Root causes Upstream of
Unhealthy Urban Development



Photo by Unknown Author is licensed under [CC BY-SA-NC](https://creativecommons.org/licenses/by-sa/4.0/)

Feeding the Elephant – Public Transport

Tackling Root causes Upstream of
Unhealthy Urban Development



Source: @urbanthoughts11 (2023) [21st Century City](https://t.co/sSBI8fUN9J) on Twitter: "Move people, not vehicles. <https://t.co/sSBI8fUN9J>" / Twitter

Taming the Elephant

Tackling Root causes Upstream of
Unhealthy Urban Development



Photo by Unknown Author is licensed under [CC BY-SA-NC](#)

Taming the Elephant – Government Policy

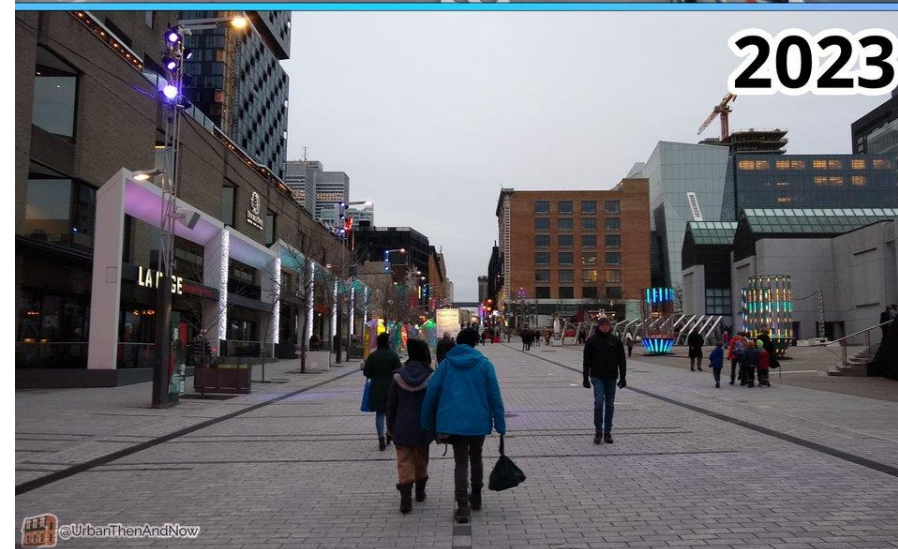
Tackling Root causes Upstream of
Unhealthy Urban Development



Source: Derenne, A. (2023) [Anne Derenne Illustration – Portfolio illustrations Anne Derenne](#)

Taming the Elephant – Business Support

Tackling Root causes Upstream of
Unhealthy Urban Development



Source: @UrbanThenAndNow. (2023) [FuckCars on Twitter: "Montreal, Canada. Every business on this street went bankrupt after they banned the cars."](https://t.co/lrbEJ8PLIe) <https://t.co/lrbEJ8PLIe> / Twitter

Taming the Elephant – Car Free Days

Tackling Root causes Upstream of
Unhealthy Urban Development



Source: @fietsprofessor (2022) [Cycling Professor 🚲 on Twitter: "We can't change our city...we are not Amsterdam!" Well. So wasn't Amsterdam! It took vision, political will and consistent steps into a new direction. ~Kinkerstraat, 1978 https://t.co/WbPCeJ8YGY" / Twitter](https://twitter.com/fietsprofessor/status/1488888888888888888)

Taming the Elephant – Infrastructure

Tackling Root causes Upstream of
Unhealthy Urban Development



Source: Soulocom(2023) [If you build it, they will come... - SOULO \(soulocom.com\)](https://soulocom.com)

Elephant in the Road - Conclusion

Tackling Root causes Upstream of
Unhealthy Urban Development



Photo by Unknown Author is licensed under [CC BY-SA-NC](#)

Acknowledgements

This work was supported by the UK Prevention Research Partnership, an initiative funded by UK Research and Innovation Councils, the Department of Health and Social Care (England) and the UK devolved administrations, and leading health research charities.

Weblink: [UKPRP - Prevention Research Partnership](https://www.ukprp.ac.uk/)

