

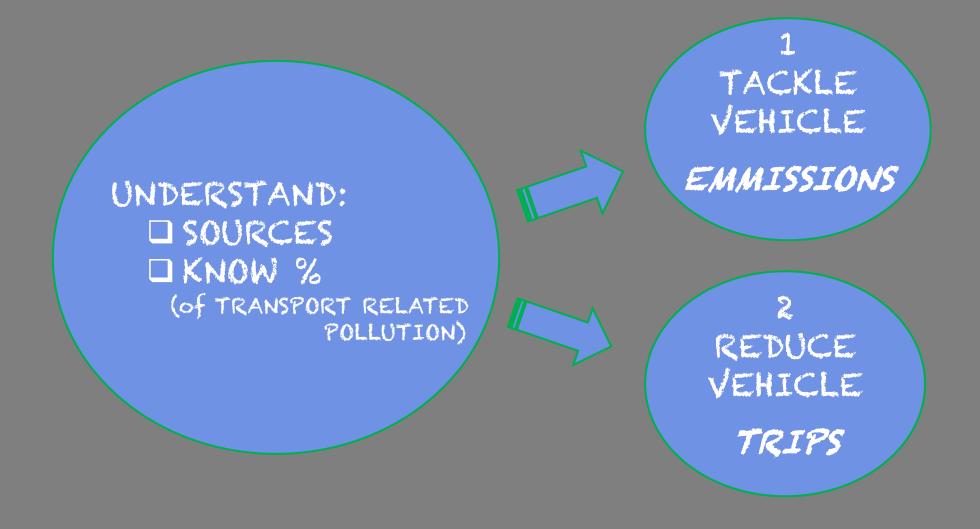
ICLEI CitiesSHIFT WEBINAR

29 AUGUST 2019

Improving Air Quality through Ecomobility

CAMILLA WEENGOLDSTEIN WEEN ARCHITECTS

Shifting Travel Behaviour to Improve Air Quality Some examples from UK and Europe



TACKLE VEHICLE EMISSIONS

- 1. ENFORCE CLEANER VEHICLES LEZ / ULEZ
- 2. REDUCE VEHICLE NUMBERS (ESPECIALLY NON-ESSENTIAL JOURNEYS)





TACKLE VEHICLE EMISSIONS

LONDON ULTRALOW EMMISSIONS ZONE - ULEZ



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TACKLE VEHICLE EMISSIONS

LONDON ULTRALOW EMMISSIONS ZONE - ULEZ

(Part of Low Emission Zone / More stringent for central London)

- ☐ Since April 2019
- ☐ 24 Hours 7/7
- ☐ Cost (If non-compliant):

£12.50 most vehicles

£100 HGVs

- ☐ (Same area as the Congestion Charge Zone)
- ☐ Proposal to expand zone Oct 2021

TACKLE VEHICLE EMISSIONS

LONDON ULTRALOW EMMISSIONS ZONE - ULEZ

Expectation: Reduce polluting emissions by 45%

In the lead-up to the ULEZ's introduction:

- 37% actualy **swapped usual mode** of transport
- 46% thinking of <u>changing preferred transport</u>
 82% have changed / considered changing <u>way they trave</u>
- 31%: ULEZ made driving in centre unaffordable
- 32% : would drive in the area <u>less often</u>

 Only 8% viewed it negatively

Moped / scooter riders keen to switch to low-emissions versions

- 1. Congestion Charge Scheme
- 2. Mode shift away from cars
- 3. Promote Walking, Cycling, Public Transport
- 4. Travel Demand Management

REDUCE VEHICLE NUMBERS

1. Congestion Charge Scheme (2003)

- 07.00 18.00
- Monday Friday
- £11.50 / day
- Number plate recognition





REDUCE VEHICLE NUMBERS

1. Congestion Charge Scheme (2003)

IMPACT (TFL report post implementation)

- Traffic fell 15%
- 30% improvement in journey time
- Improved air quality
- Reduction in accidents
- Tripling in survival rates from cardiac arrests
 (London Ambulance Service report)
- Fears re displacement of traffic <u>not realised</u>

REDUCE VEHICLE NUMBERS

- 2. Mode shift away from cars
 HEART/HEAD/PURSE
- Psychology (heart) change culture
- Information (head) help people make choices
- Efficient (purse) create fast seamless transport network

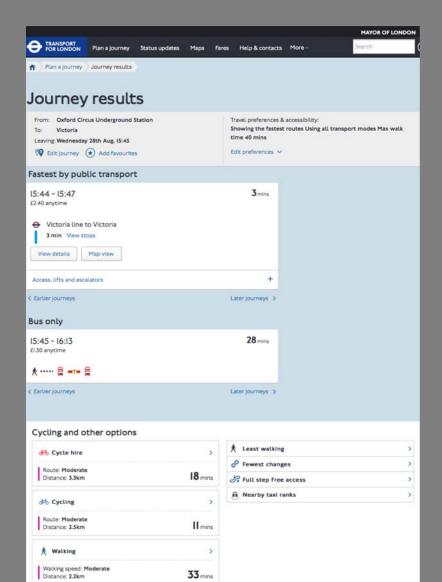
- 2. Mode shift away from cars
 HEART-Psychology and Change of culture
- Awareness of impact of car use
- Environmental concerns
- Get People to want to leave cars behind!
- Make clean alternatives available
- Raise the profile of Ecomobility
- 'Walk to School' programmes



2. Mode shift - away from cars

HEAD – Provide Information to make best choices

- Make public transport easy
- Simple ticketing and transferability
- On-line information (Journey Planner)
- Real-time information



REDUCE VEHICLE NUMBERS





2. Mode shift - away from cars

PURSE – Economic benefits – efficient and fast

- Speed and Efficiency Easy interchange / seamless journeys
- Pricing Public transport and ecomobility cheaper than car

REDUCE VEHICLE NUMBERS

- 3. Promote Walk, Cycling, Public Transport
- Need infrastructure
 - Walking environment and wayfinding
 - Cycle and 'Non-car' facilities
- Good Urban Design puts people before cars
- Re-allocation of road space



3. Promote Walk, Cycling, Public Transport
Make walking easy and attractive / put people first



REDUCE VEHICLE NUMBERS

3. Promote Walk, Cycling, Public Transport
Make walking pleasant







REDUCE VEHICLE NUMBERS

3. Promote Walk, Cycling, Public Transport

Make walking pleasant





REDUCE VEHICLE NUMBERS

3. Promote Walk, Cycling, Public Transport

Make walking and dwelling pleasant







REDUCE VEHICLE NUMBERS

3. Promote Walk, Cycling, Public Transport
Make wayfinding easy







TRANSPORT FOR LONDON – LEGIBLE LONDON

REDUCE VEHICLE NUMBERS

3. Promote Walk, Cycling, Public Transport
Make cycling easy





REDUCE VEHICLE NUMBERS

3. Promote Walk, Cycling, Public Transport

Make cycling easy

- Utrecht:
- 22,000 cycle parking spaces (when complete)
- Plus further 11,000 near station



REDUCE VEHICLE NUMBERS

3. Promote Walk, Cycling, Public Transport

Make cycling convenient / clean / safe

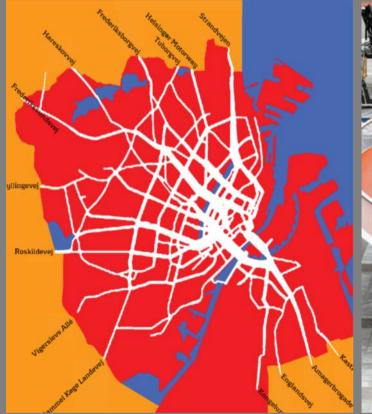




3. Promote Walk, Cycling, Public Transport

Making cycling convenient / overcoming barriers - COPENHAGEN







3. Promote Walk, Cycling, Public Transport

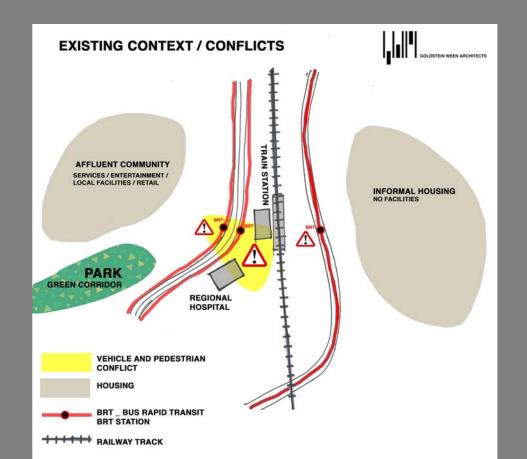
Make cycling easy - cycle bridge / create direct routes

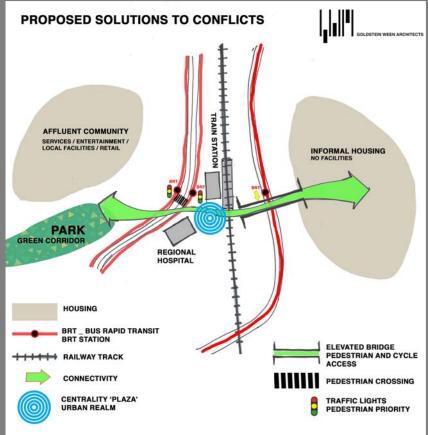


3. Promote Walk, Cycling, Public Transport Enabling cycling possible – parking solutions



3. Promote Walk, Cycling, Public Transport
Create accessible neighbourhoods





REDUCE VEHICLE NUMBERS

3. Promote Walk, Cycling, Public Transport

Attractive public transport





4. Travel Demand Management

- People will shift transport habits —
 If it is nice and they understand the need
 If they understand the impact of the change
- It should not feel like punishment
- The benefits must be clear
- Work with local groups and employers to identify options

REDUCE VEHICLE NUMBERS

4. Travel Demand Management

OSLO Car Free Scheme
Transformation of city infrastructure

- City Centre Car free from 2019
- Focus of Walking, Cycling, Pubic Transport
- Places for people to meet and dwell

View @

https://vimeo.com/212846367





SUMMARY

Key actions for cleaner air:

- 1. Cleaner vehicles
- 2. Reduce vehicles
- 3. Promote ecomobility