# What works and what doesn't work for sustainable accessibility?

ITS.be Congress
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Arie Bleijenberg
President
TRANSPORT &
FNURONMENT

# T&E

**24** Countries

61 Members

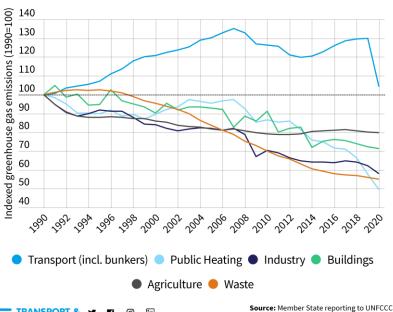
**6** Country Offices

100+ Staff



## Greenhouse gasses: transport is lagging behind

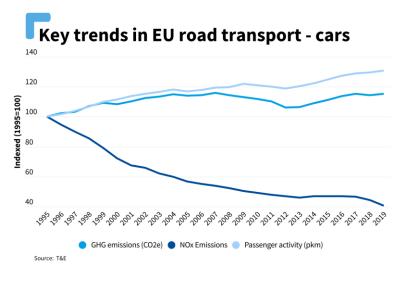
## EU indexed emissions by sector

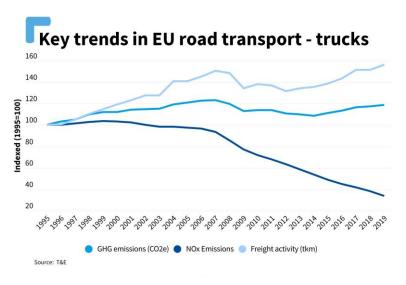






## Emission standards are effective, but not sufficient

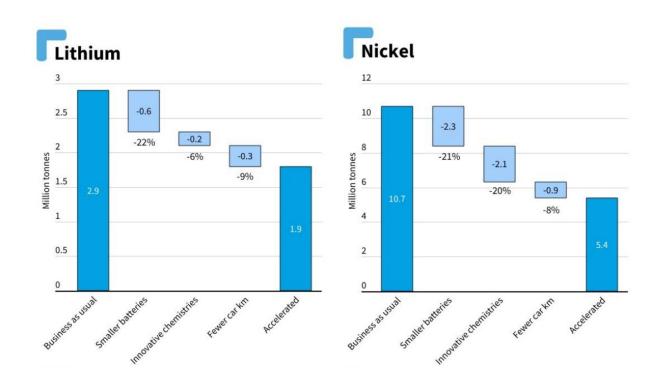




TE TRANSPORT & W B C B

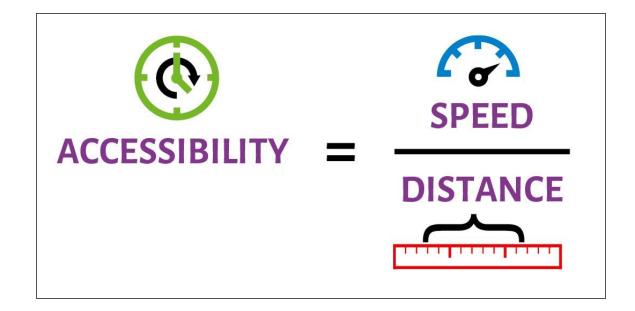
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## Reduce materials use for batteries



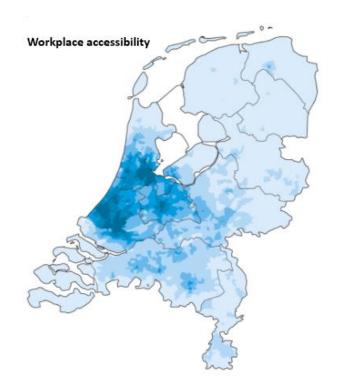


## Accessibility, proximity and mobility

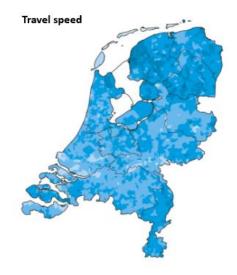




# Accessibility and urbanisation

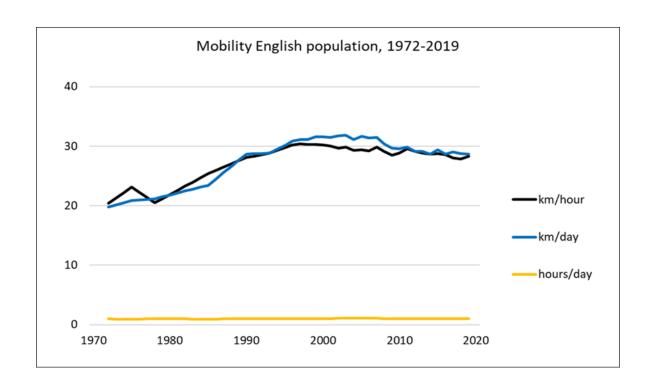






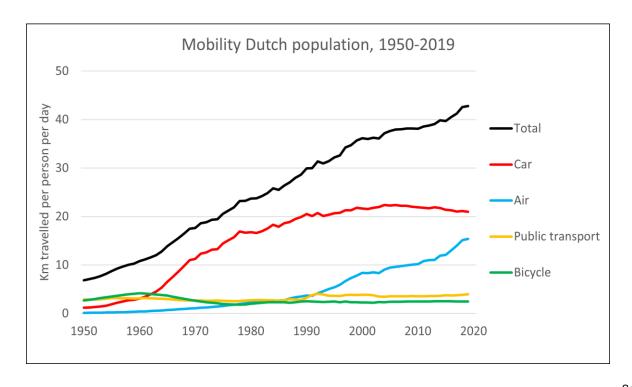


## Constant travel time! Ergo: speed bistance





## Seventy years of mobility growth





	METROPOLIS	MAJOR CITY	RURAL AREAS	COUNTRY AVERAGE
Trip distance	5 km	10 km	15 km	10 km
Commuting distance	10 km	15 km	20 km	15 km
Speed	15 km/h	25 km/h	35 km/h	30 km/h
Carspeed	20 km/h	35 km/h	50 km/h	45 km/h
Trip share of car	15%	50%	70%	60%
Car-kilometres	10 km/day	25 km/day	35 km/day	25 km/day





**ITF work on Shared Mobility** 

## Five cities Results Lyon

- 88% Fleet
- 54% Vehicle km
- 51% CO<sub>2</sub>
- 48% Congestion



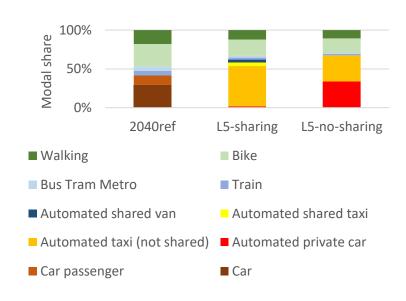
## Mobility will change due to automated vehicles (L5)

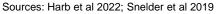
## Simulating life with an AV

43 households Sarcramento region one week

- + 60% Vehicle km of which half no passenger
- + 81% Long trips (>80 km)
- 71% Trips public transport
- 58% Ride hailing trips
- 37% Bike trips
- 13% Trips walking

### Modelling life with and AV







## **Conclusions**

- 1. Accessibility creates economic and social value
- 2. Two different approaches to accessibility: **proximity** and mobility
- 3. Urban density and **spatial concentration** are the cheapest and most sustainable ways to improve accessibility
- 4. MaaS, car sharing, ride sharing, biking and public transport are essential for the accessibility of urban regions
- **5. Emission standards** for vehicles and fuels are the main lever for sustainable mobility
- 6. Automated vehicles (level 5) must be regulated to avoid urban gridlock

