

Micromobility:
Climate's Secret Weapon

Peter Jacobsen
Bike Davis



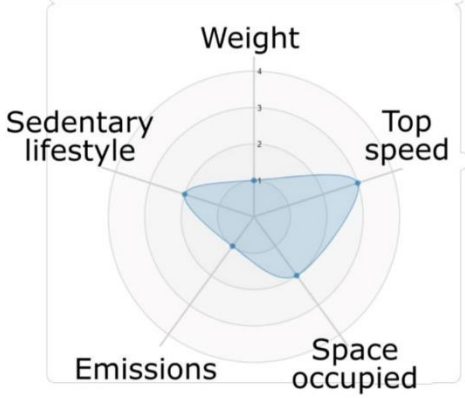




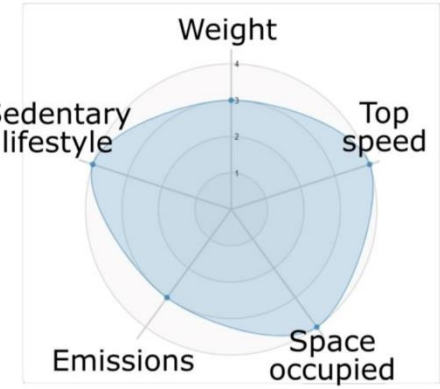
Micromobility?

	Powered Bicycle	Powered Standing Scooter	Powered Seated Scooter	Powered Self-Balancing Board	Powered Non-Self-Balancing Board	Powered Skates
Center column	Y	Y	Y	Possible	N	N
Seat	Y	N	Y	N	N	N
Operable pedals	Y	N	N			
Floorboard / foot pegs	Possible	Y	Y			
Self-balancing[2]	N	N	N			















Fastest Growing EV



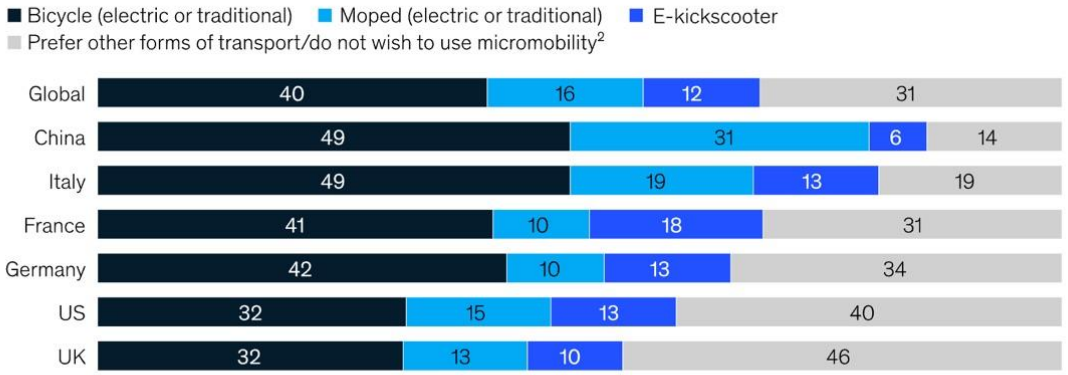




70% Willing

In our survey, almost 70 percent of respondents stated that they were willing to use micromobility for their daily commute.

Preferred micromobility vehicle for commuting, by country, % of respondents[1]



[1] Question: "What type of micromobility vehicle would you prefer for your daily commute trips?" If respondents selected a type of micromobility vehicle, it was inferred that they were willing to use this form of transport for commuting. The survey included more than 6,000 respondents aged 18 to 65 who used mobility options at least once a day. Figures may not sum to 100%, because of rounding.
[2] Other forms of transport included walking or riding in a private car.
Source: McKinsey Mobility Ownership Consumer Survey, July 2021

McKinsey & Company







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Climate action

Race To Zero Campaign

RACE TO ZERO







Can We Before 2050?

Saving History With Sandbags: Climate Change Threatens the Smithsonian



Study finds Atlantic hurricanes becoming more frequent, destructive

Snowfall may be nearly zero for years at a time in Mountain West because of climate change, study finds

The study warns of potential water supply problems in about 35 to 60 years.

MARTIN ZWICK/UNIVERSAL IMAGES GROUP, VIA GETTY IMAGES

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Audio recordings in Arctic seas show orcas in waters that were once blocked by ice, and the effects are being felt up and down the food chain.

Climate Change Is Driving Some Albatrosses to 'Divorce,' Study Finds

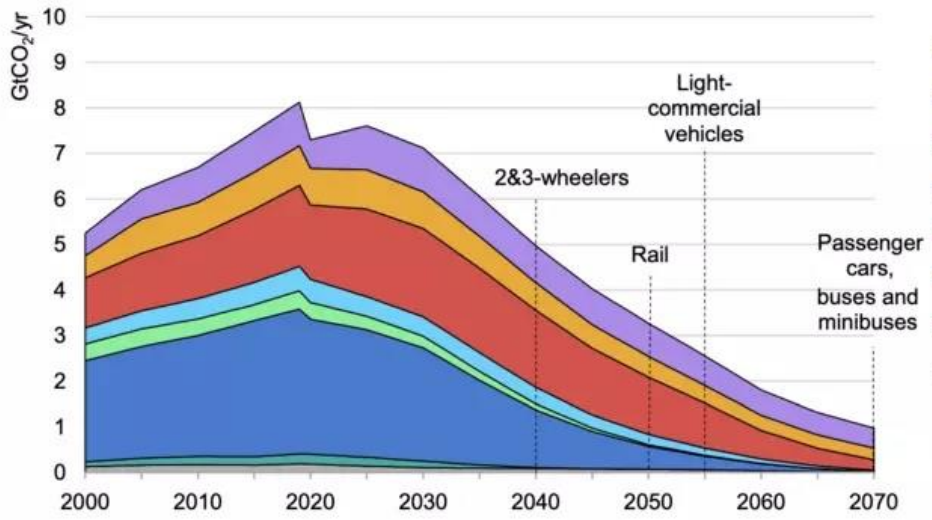






Can We?

Figure 3.16 Global CO_2 emissions in transport by mode in the Sustainable Development Scenario, 2000-70



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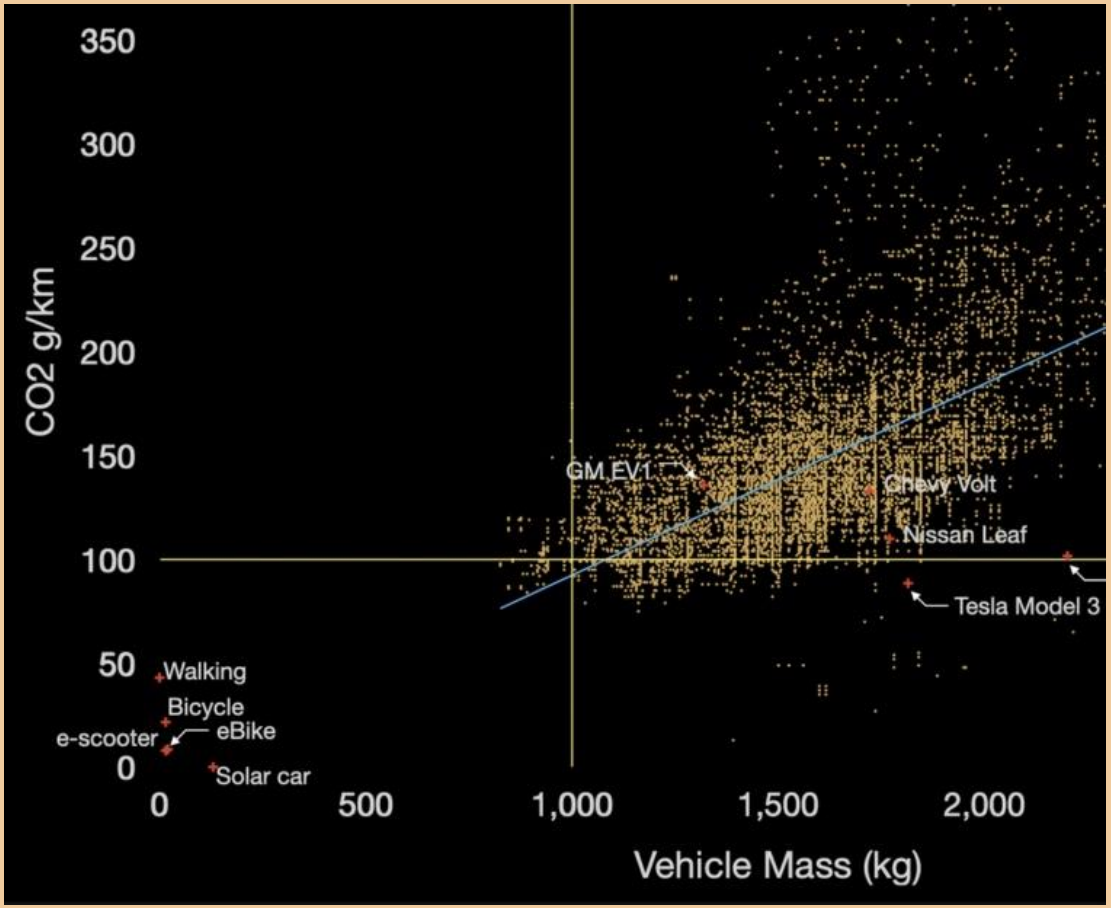
Notes: Dotted lines indicate the year in which various transport modes have largely stopped consuming fossil fuels and hence no longer contribute to direct emissions of CO_2 from fossil fuel combustion. Residual emissions in transport are compensated by negative emissions technologies, such as BECCS and DAC, in the power and other energy transformation sectors.







Can We?


350
300
250
200
150
100
50
0
CO2 g/km
0
500
1,000
1,500
2,000
Vehicle Mass (kg)
GM EV1
Chevy Volt
Nissan Leaf
Tesla Model 3
Walking
Bicycle
e-scooter
eBike
Solar car





Can We?

THE CONVERSATION

Academic rigor, journalistic flair

Search analysis, research, academics…

COVID-19 Arts + Culture Economy + Business Education Environment + Energy Ethics + Religion Health Politics + Society Science + Technology



Cycling is ten times more important than electric cars for reaching net-zero cities

March 29, 2021 10.59am EDT

Michael Wheatley/Alamy

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Globally, only one in 50 new cars were fully electric in 2020, and one in 14 in the UK. Sounds impressive, but even if all new cars were electric now, it would still take 15-20 years to replace the world's fossil fuel car fleet.

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Author



Christian Brand
Associate Professor in Transport, Energy & Environment, Transport Studies Unit, University of Oxford







Legislation on Subsidies

The E-bike credit

- Max of $900
- Phases out at $75k of individ. income





Creative Approaches

- **Durham, NC: Free e-bikes for downtown small business employees**
- **Oakland, CA e-bike library**





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