



Shared Electric Scooters:

Pain or Potential for Sustainable Urban Transport?

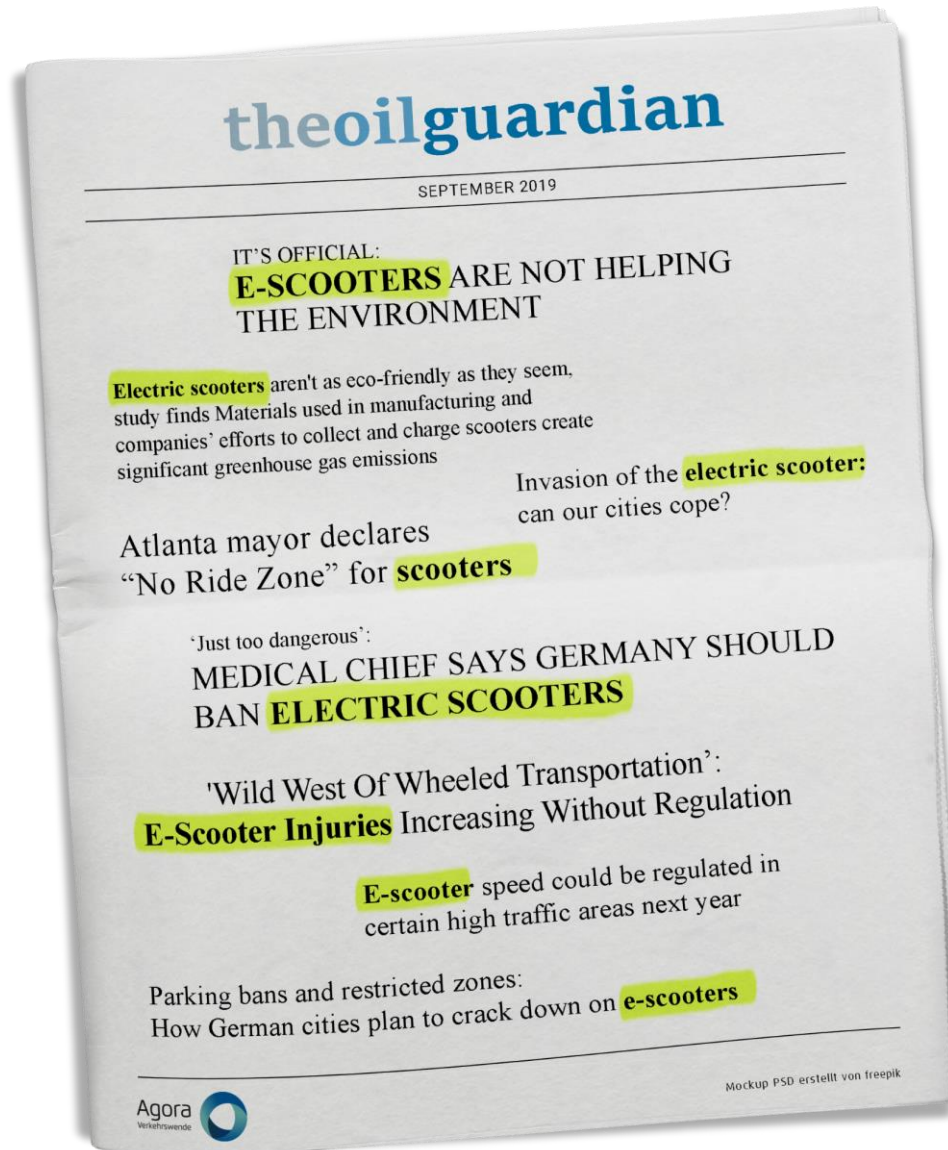
Alexander Jung

Senior Associate New Mobility
Agora Verkehrswende

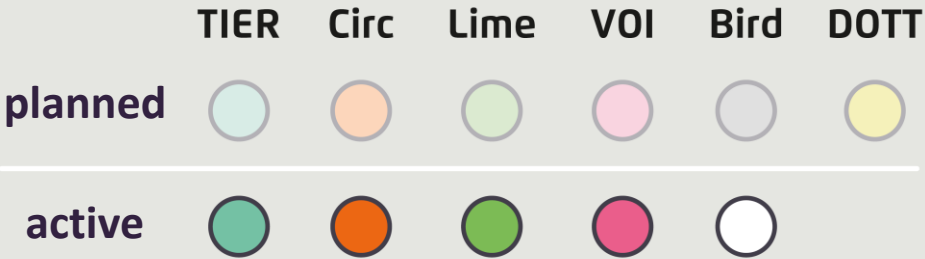
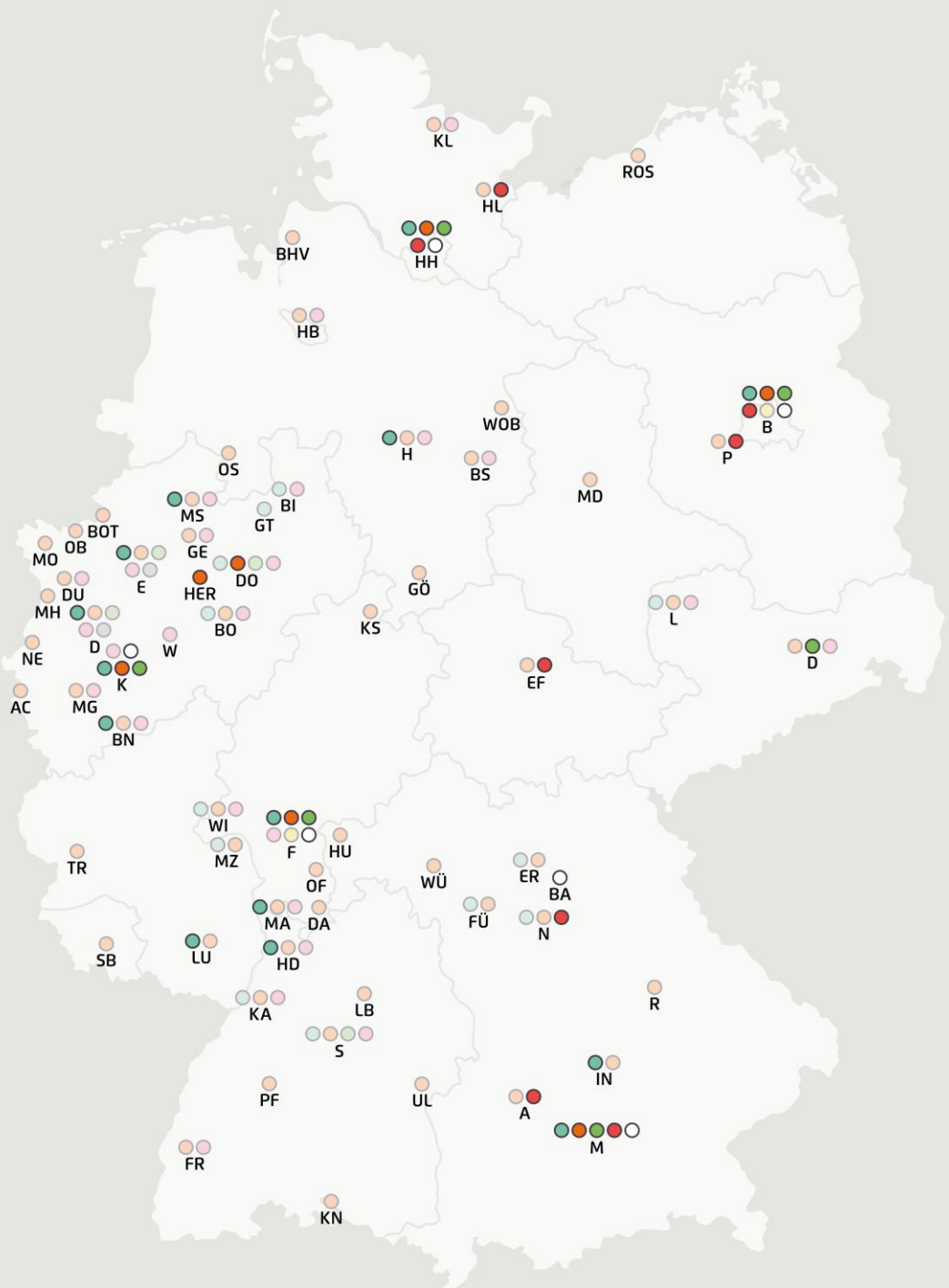
Swiss Mobility Arena, Bern
September 19th, 2019

Shared Electric Scooters

The new punching bag for urban transport problems?



Shared Electric Scooters in Germany (August 2019)



Active cities according to operators' websites and apps. Planned cities according to operators' job postings.
Source: Agora Verkehrswende.

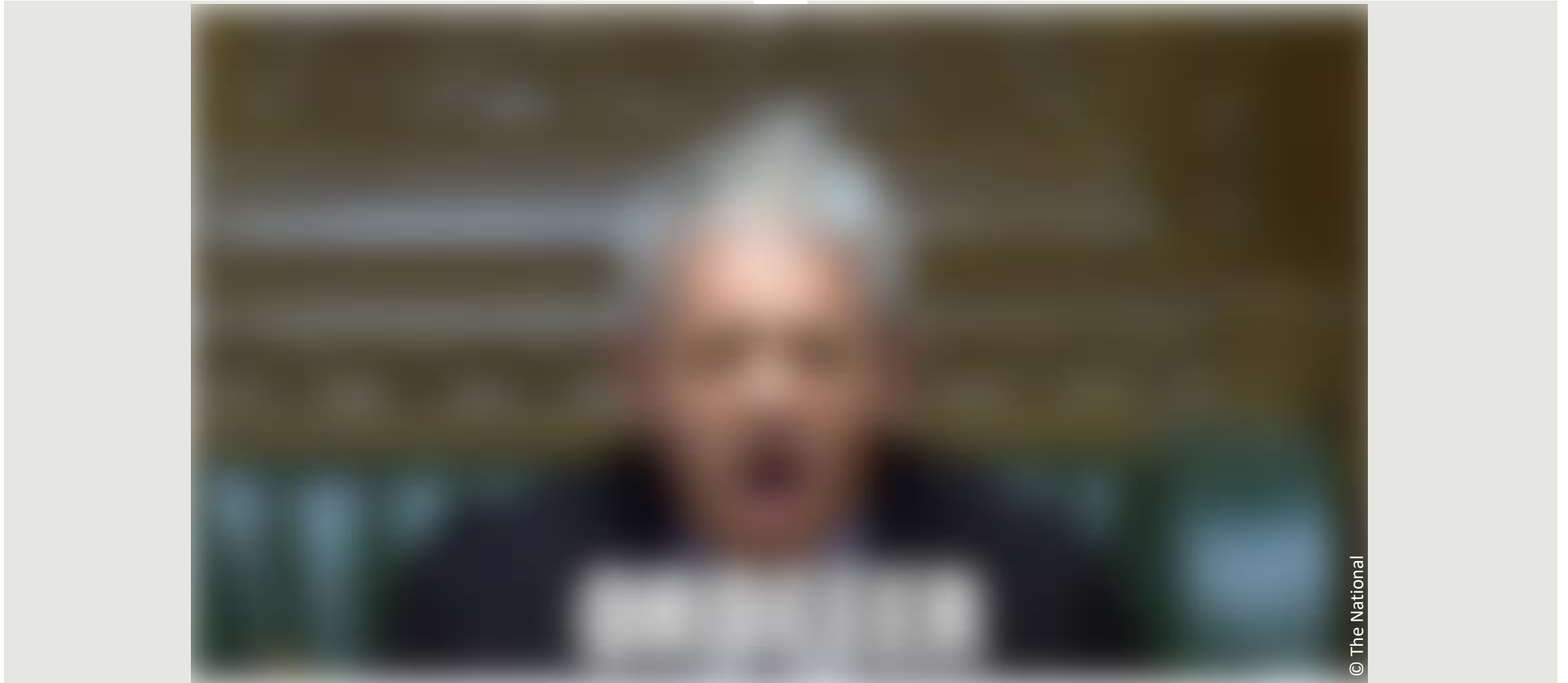
Impact on public space

Why (German) cities do not like shared electric scooters



Impact on public space

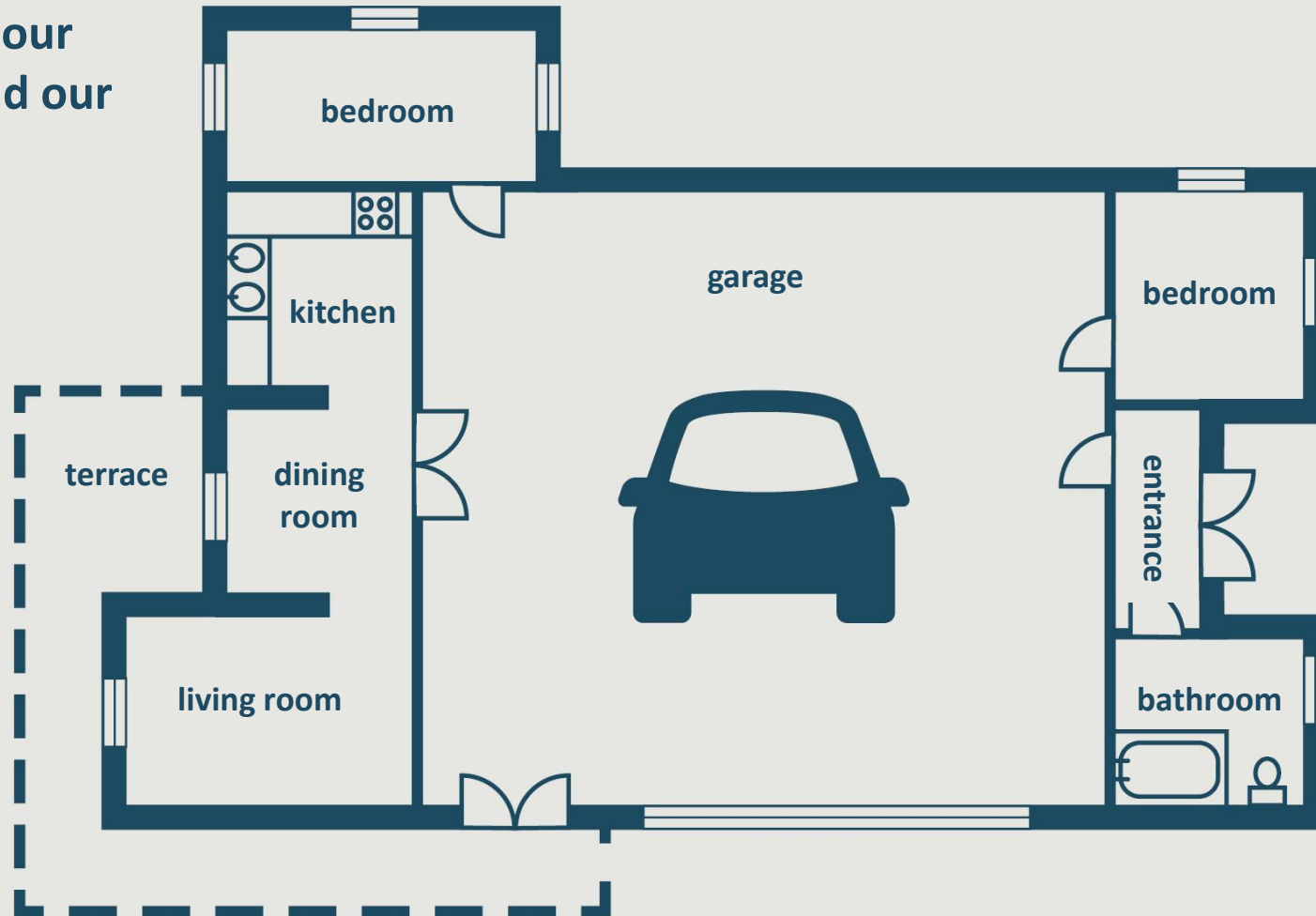
Why (German) cities do not like shared electric scooters



Impact on public space

There is not enough public space for shared electric scooters!?

What if we'd build our houses like we build our cities...

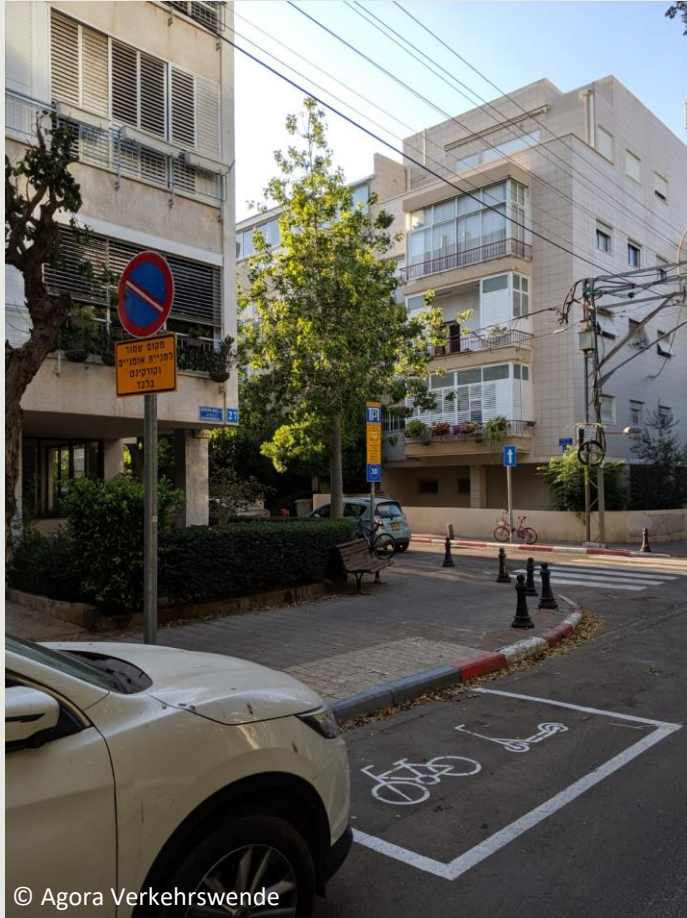


Source: Agora Verkehrswende

Impact on public space

There is not enough public space for shared electric scooters!?

Tel Aviv, IL

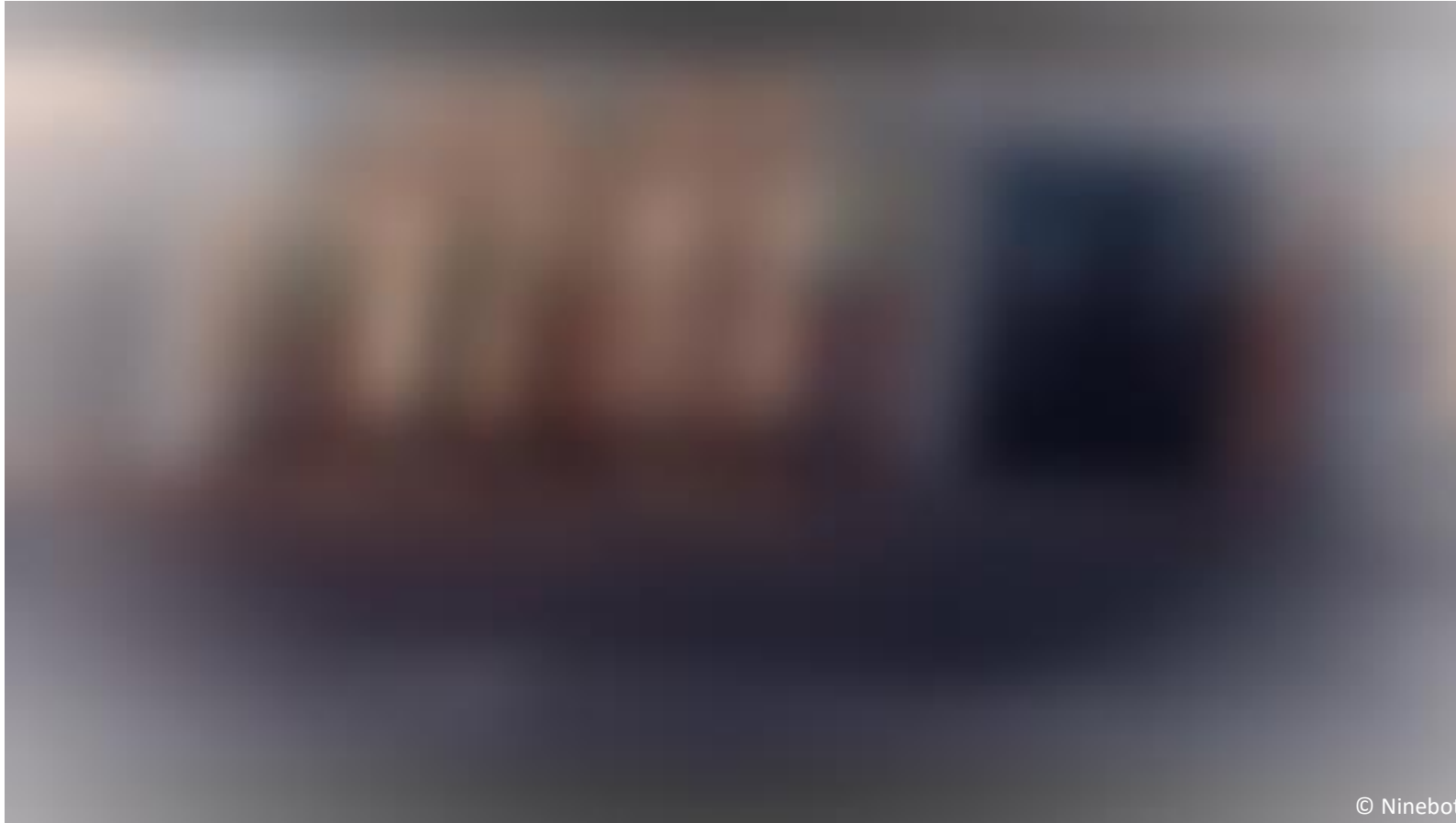


Santa Monica, USA



Impact on public space

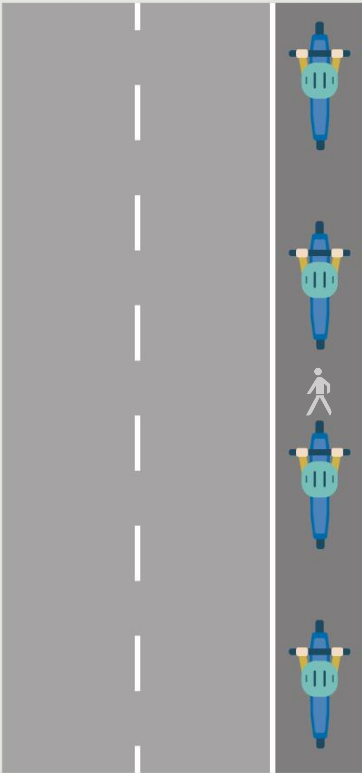
Automated Scooters – What order-seeking Municipalities dream of?



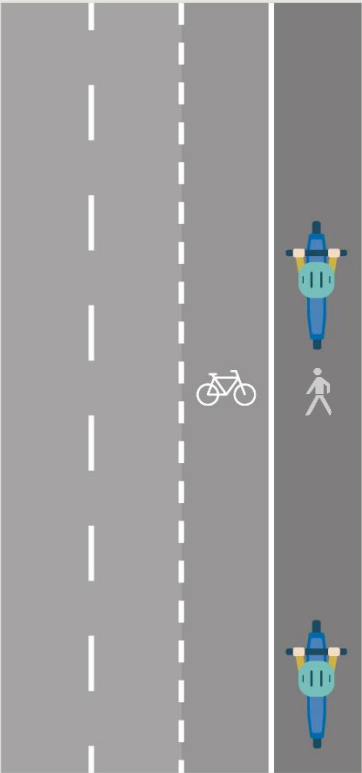
Impact on public space

Fool me once, shame on you – fool me twice, shame on me!

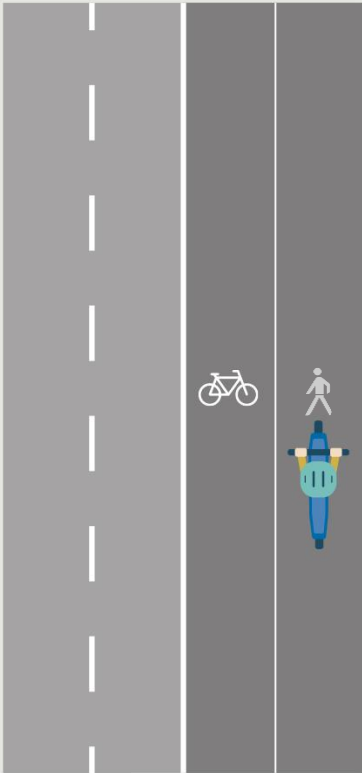
Percentage of shared electric scooter riders who used the sidewalk (Portland, Oregon)



39 %
No bike facilities



21 %
Bike lane



8 %
Protected bike lane



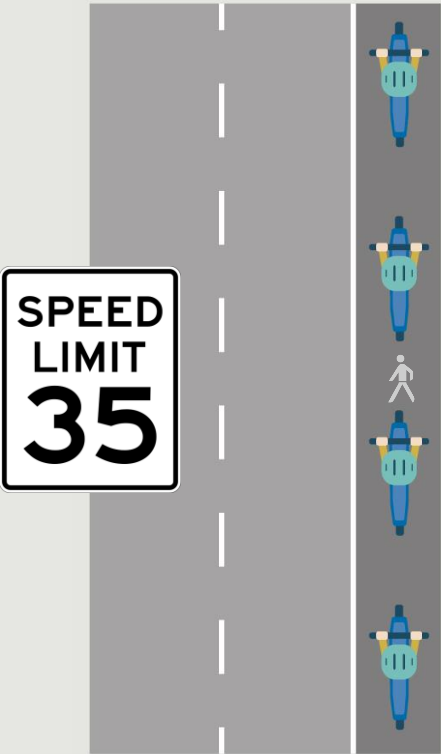
0 %
Neighborhood greenway

Source: Agora Verkehrswende, based on PBOT (2019).

Impact on public space

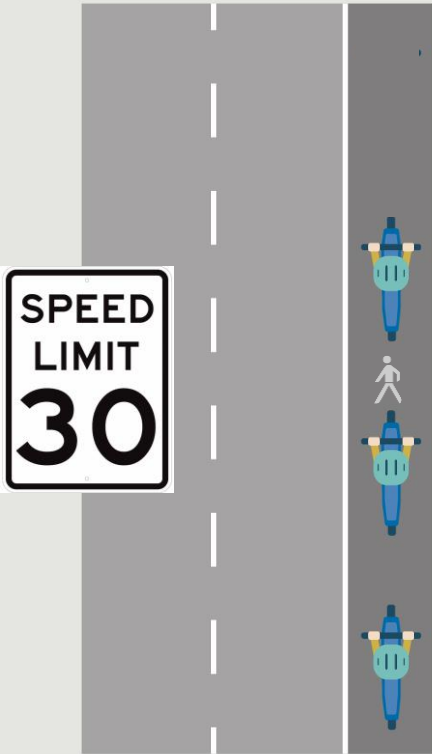
Fool me once, shame on you – fool me twice, shame on me!

Percentage of shared electric scooter riders who used the sidewalk (Portland, Oregon; speed in mph)



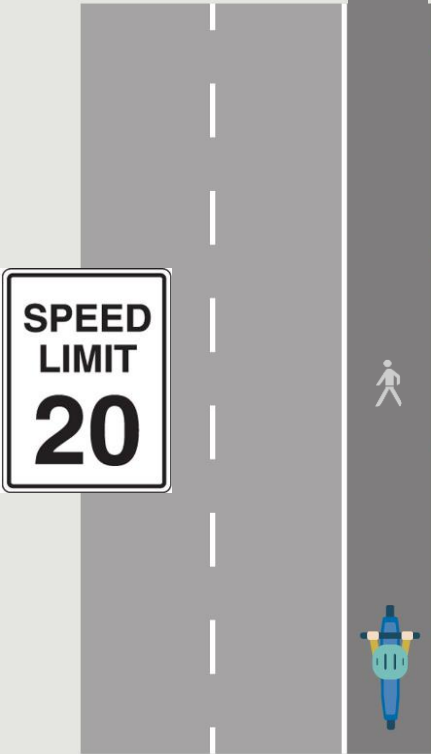
66%

No bike facilities



50%

No bike facilities



18%

No bike facilities

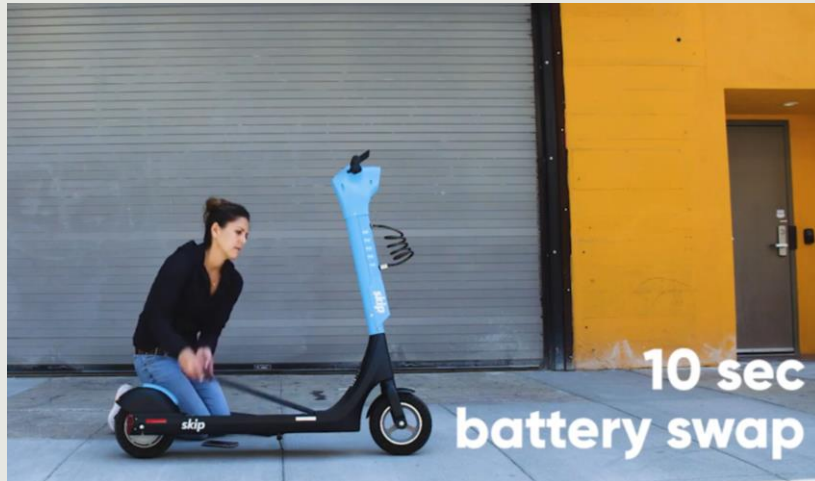
Source: Agora Verkehrswende, based on PBOT (2019).

Managing shared electric scooter fleets

Today...

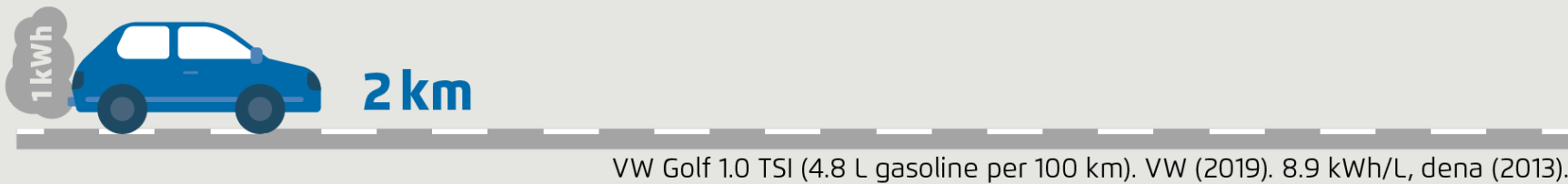


Managing shared electric scooter fleets Tomorrow!



Energy efficiency

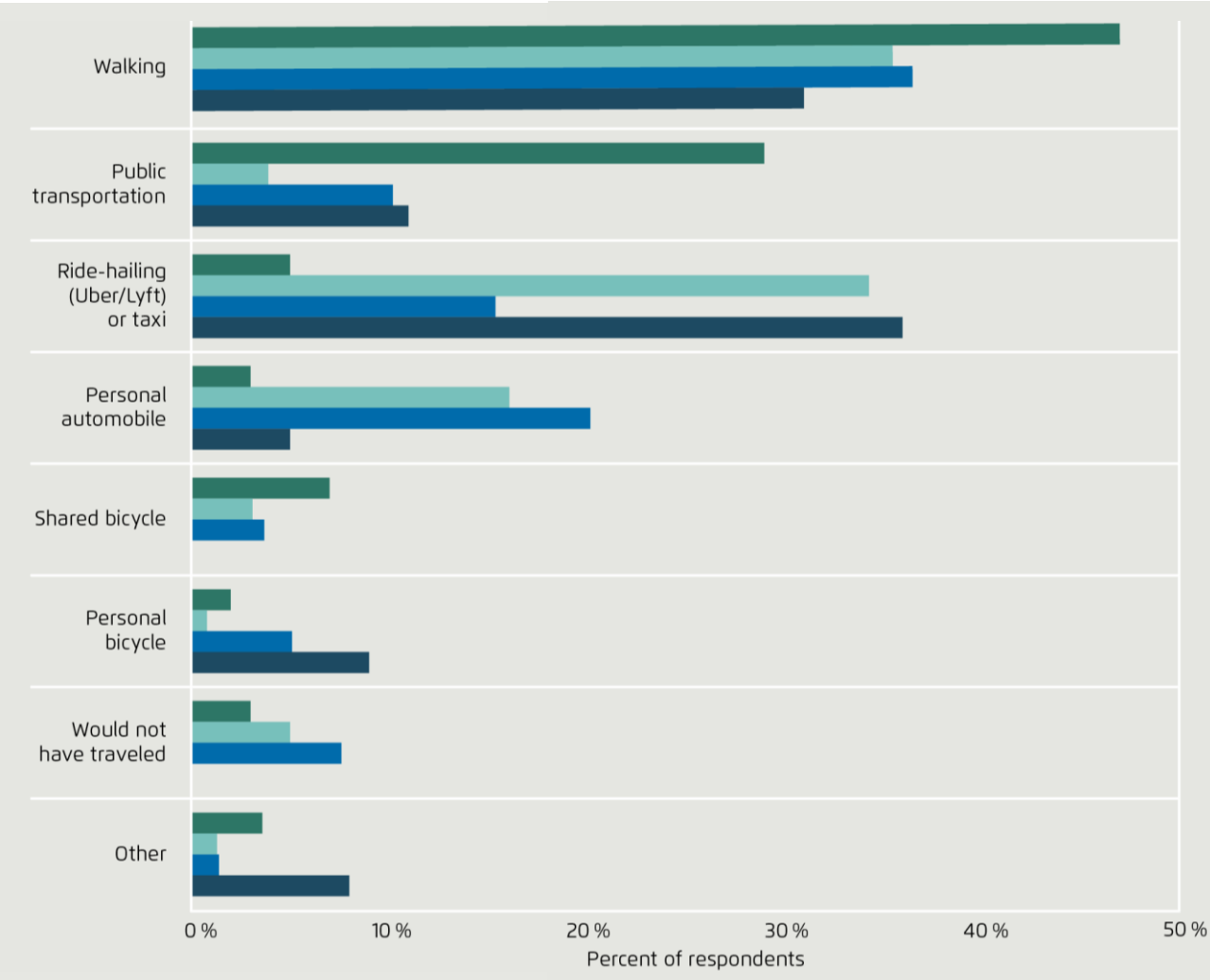
Range per kilowatt hour of energy, for representative motorized vehicles



Source: Agora Verkehrswende

Impact on mobility behavior

Modal shift for e-scooter riders in selected cities



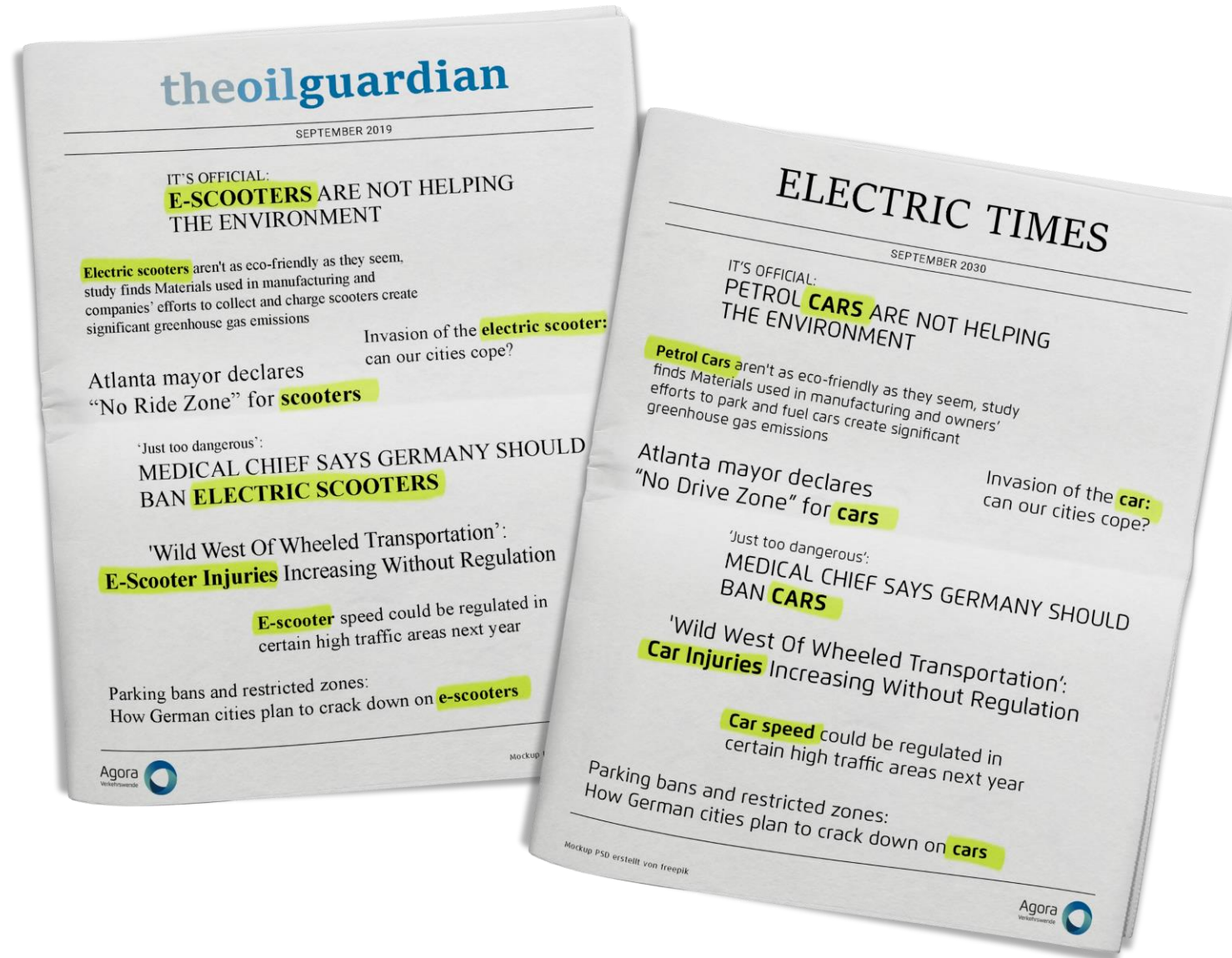
How would you have reached your most recent destination, had an e-scooter not been available?

- France (Lyon, Marseille, Paris; n=4,382)
- Portland (Visitors; n=1,088)
- Portland (Locals; n=3,444)
- San Francisco (n=1,573)

n = number of respondents
Source: Agora Verkehrswende based on 6-t (2019); PBOT (2019); SFMTA (2019).

Shared Electric Scooters

News, that we have – and news, that we need!



Shared E-Scooters - Moving Forward

Recommendations for German Cities and Towns



Thank you for your attention!

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Agora Verkehrswende ist eine gemeinsame Initiative der Stiftung Mercator und der European Climate Foundation.