

# POLIS

CITIES AND REGIONS FOR TRANSPORT INNOVATION

ANNUAL  
CONFERENCE

# 2023

LEUVEN, BELGIUM • 29-30 NOVEMBER 2023



leuven



# Roadmapping Urban Freight Governance:

Sustainable visions, targets, and pathways for SULPs  
and LEZs/ZEZs

Regina Clewlow | Prepared for the POLIS Annual Conference

# The Rapid Rise of Delivery Services

- There has been significant growth of on-demand food delivery and package delivery from online shopping
- Urban areas are at the forefront for challenges to congestion, emissions, and safety
- Without effective intervention, carbon emissions are expected to increase by 30% by 2030



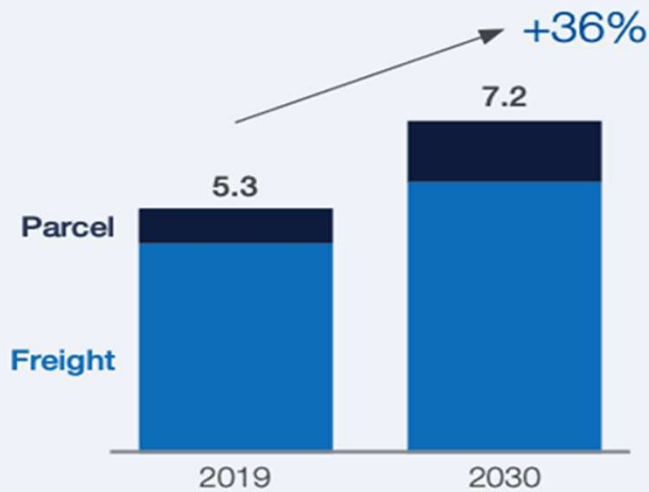
# Growing Impacts on Cities

2030 base case scenario



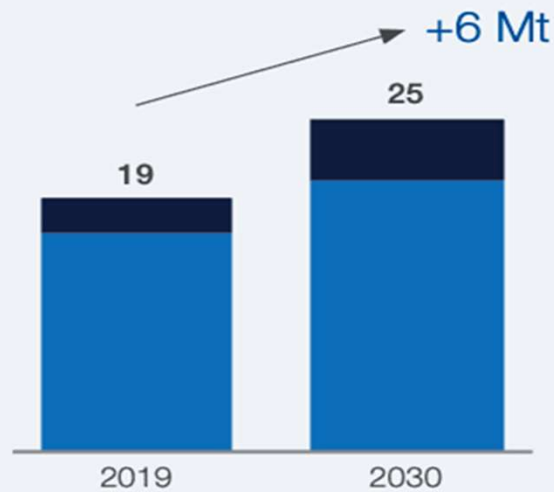
## Delivery vehicles

Million vehicles



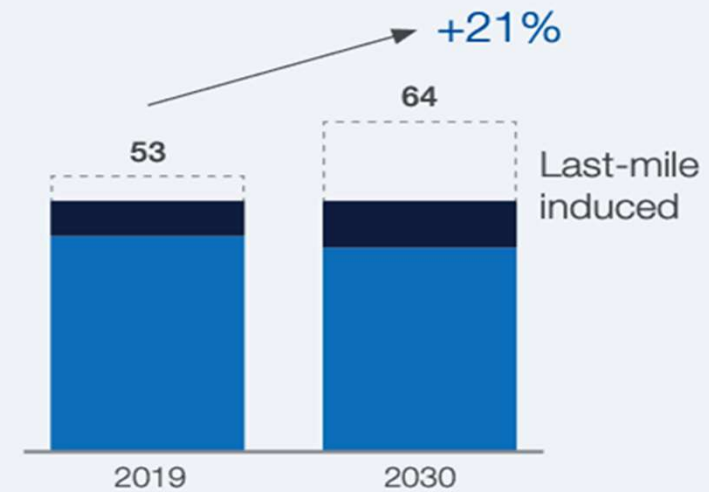
## Emissions

Million tonnes CO<sub>2</sub>



## Congestion

Average commute,\* minutes



# Cities Hold a Key to Accelerating Change

- Ambitious global decarbonization goals require action from city leaders
- Cities have the authority to guide policies that influence and prioritize access to public space
- A transition to alternative vehicle technologies and fuels isn't just desirable—it's imperative



# Tools for Change:

## Implementing Low Emission Zones (LEZs)

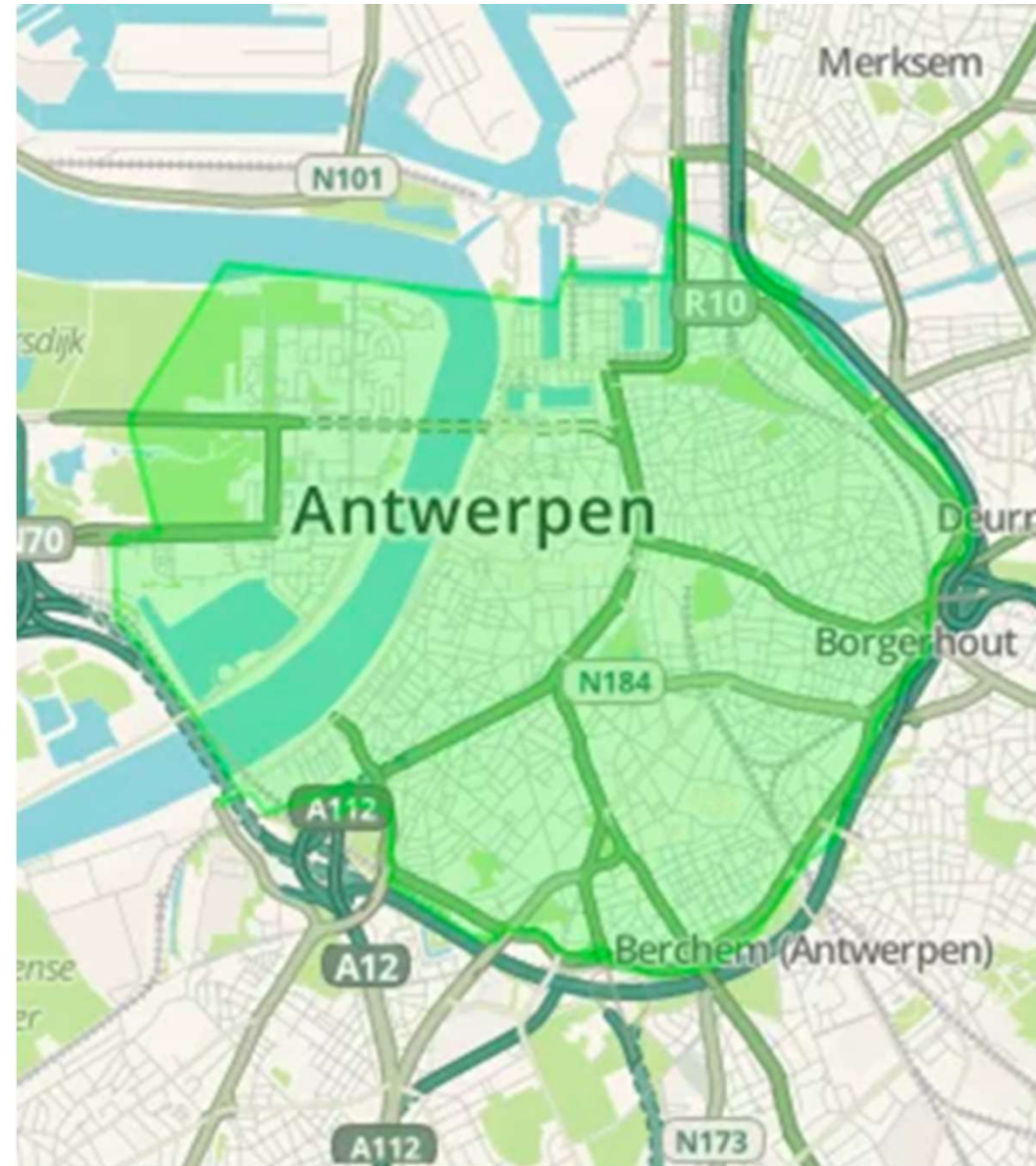
- LEZs restrict or price access to high-emission vehicles
- Studies are beginning to show proven results in cities across Scotland that have implemented LEZs
- With curb regulations already difficult to understand, cities face challenges enforcing these programs

## Digital Curb Management for Compliance

- Digital curb management offers cities and fleet operators effective tools to understand and comply with curb regulations
- The digital transformation of curb regulations offers transparency and actionable insights for optimizing the space
- City streets are less congested, idling is less likely, and data can improve EV charger placement

# Europe is Leading the Way on LEZs/ ZEZs

- According to the latest report from ICCT, there was a jump from 228 to 320 between 2019 and 2040
- Several cities are now beginning to implement Zero Emission Zones (ZEZs)



# Stockholm as an Example of Progress

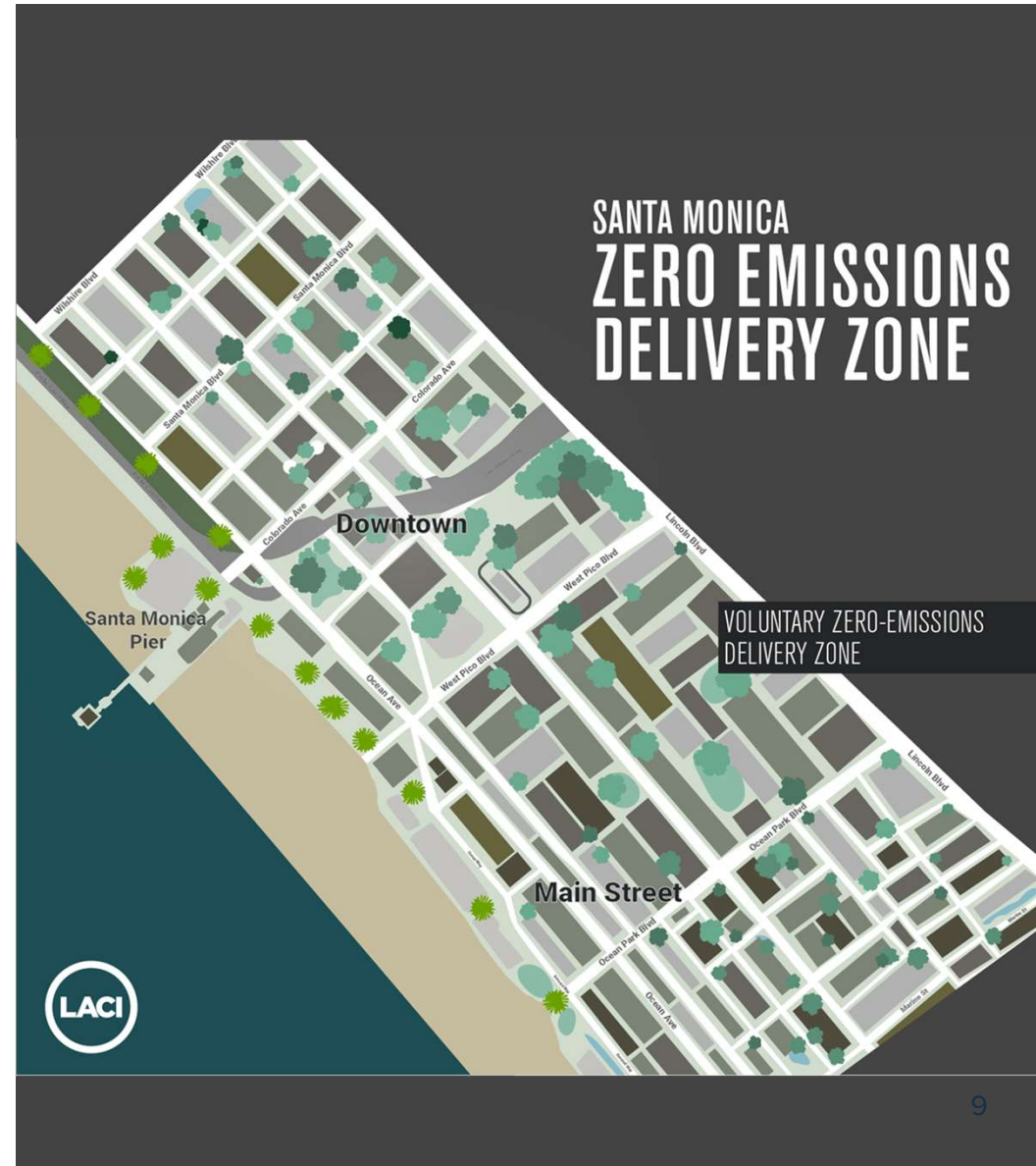
- The city has become the first city to ban petrol and diesel cars from its centre
- 20 blocks of Stockholm's inner city area will be restricted to electric vehicle traffic only
- They chose an area where large numbers of cyclists and pedestrians are exposed to unhealthy air on a daily basis



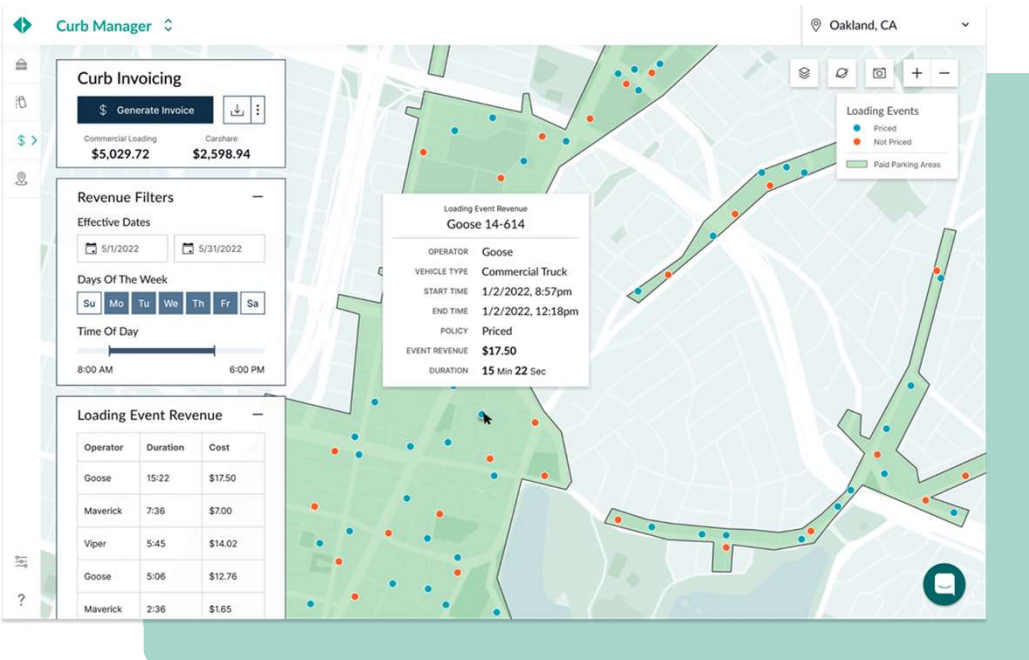


# Santa Monica ZEZ Pilot

- In early 2021, the city began piloting the United States' first Zero Emissions Zone
- Pilot includes a one square mile area
- Program was voluntary delivery zone to encourage zero emissions vehicles, such as electric vehicles



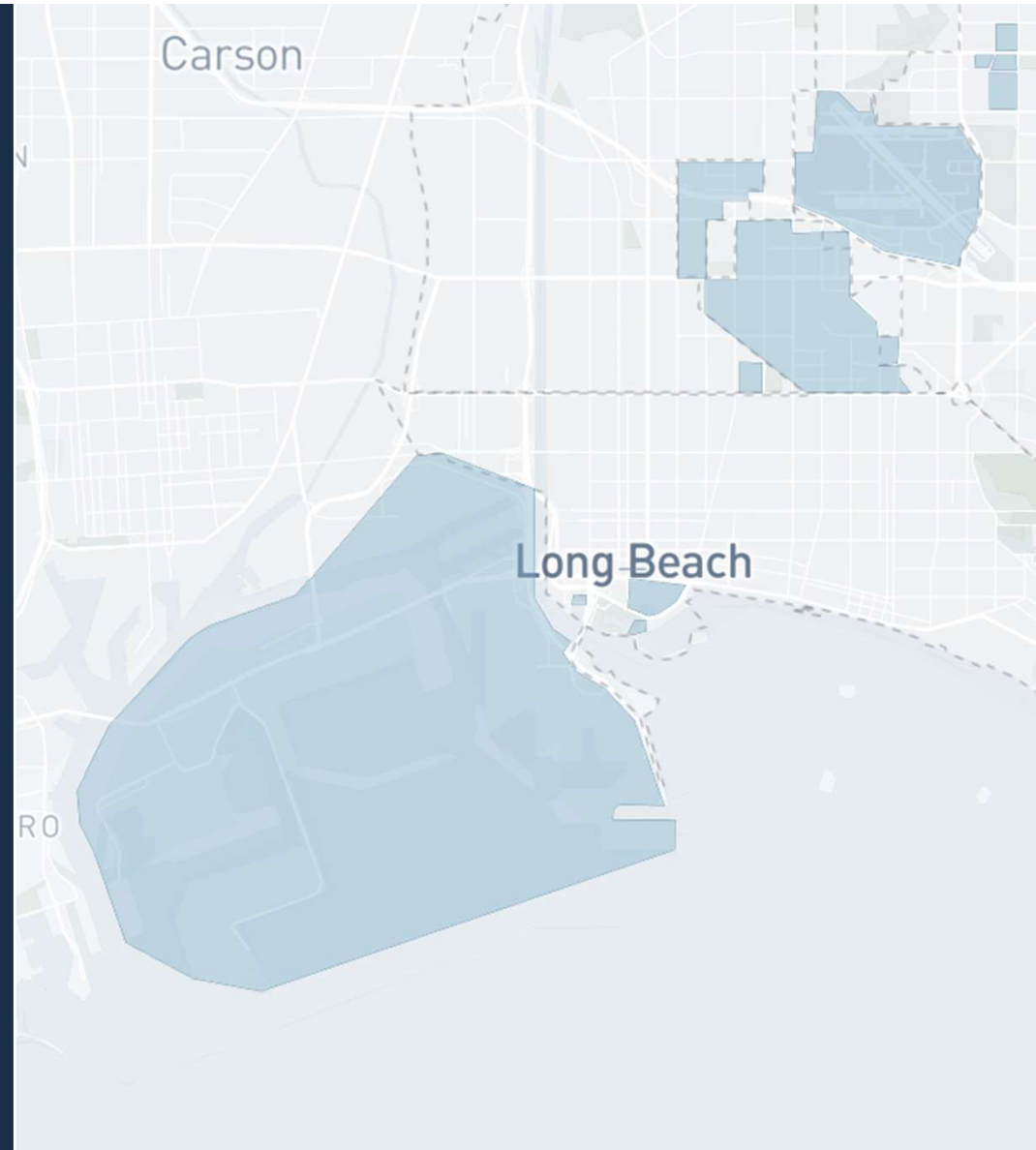
# Digital Curb and Mobility Management



- New enabling technologies are helping cities move faster
- Cities around the world are leveraging data standards and software platforms to digitally manage transportation
- Cities paved the way with micromobility, but are now expanding to digitally manage curbs

# Long Beach Parking Micromobility Parking

- The City has implemented digital parking policies that are enforced
- No Parking areas that are fined
- Parking corrals with designated parking for scooters located throughout the city — also digitally monitored



# Chicago Uber and Lyft Zone-Based Tax

- Started in January 2020, to charge Uber and Lyft for trips that start or end in congested downtown zones
- An additional surcharge of \$1.75 is added to trips that start or end in the zone during peak hours (6am to 10pm, Mon-Fri)
- Key benefits: data from Uber/ Lyft to understand trip patterns throughout the city



# Key Benefits of Digital Curb Management and Low Emission Zones

- The majority of vehicles that cities want to regulate are already GPS-enabled, connected vehicles
- Hardware-free digital solutions are faster to implement, and have the added benefit of offering cities a trove of new mobility data





# Thank you for your attention

Reach out at [curbs@populus.ai](mailto:curbs@populus.ai)