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WORLD RESOURCES INSTITUTE: *ZERO-EMISSION DELIVERY ZONES*

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Agenda

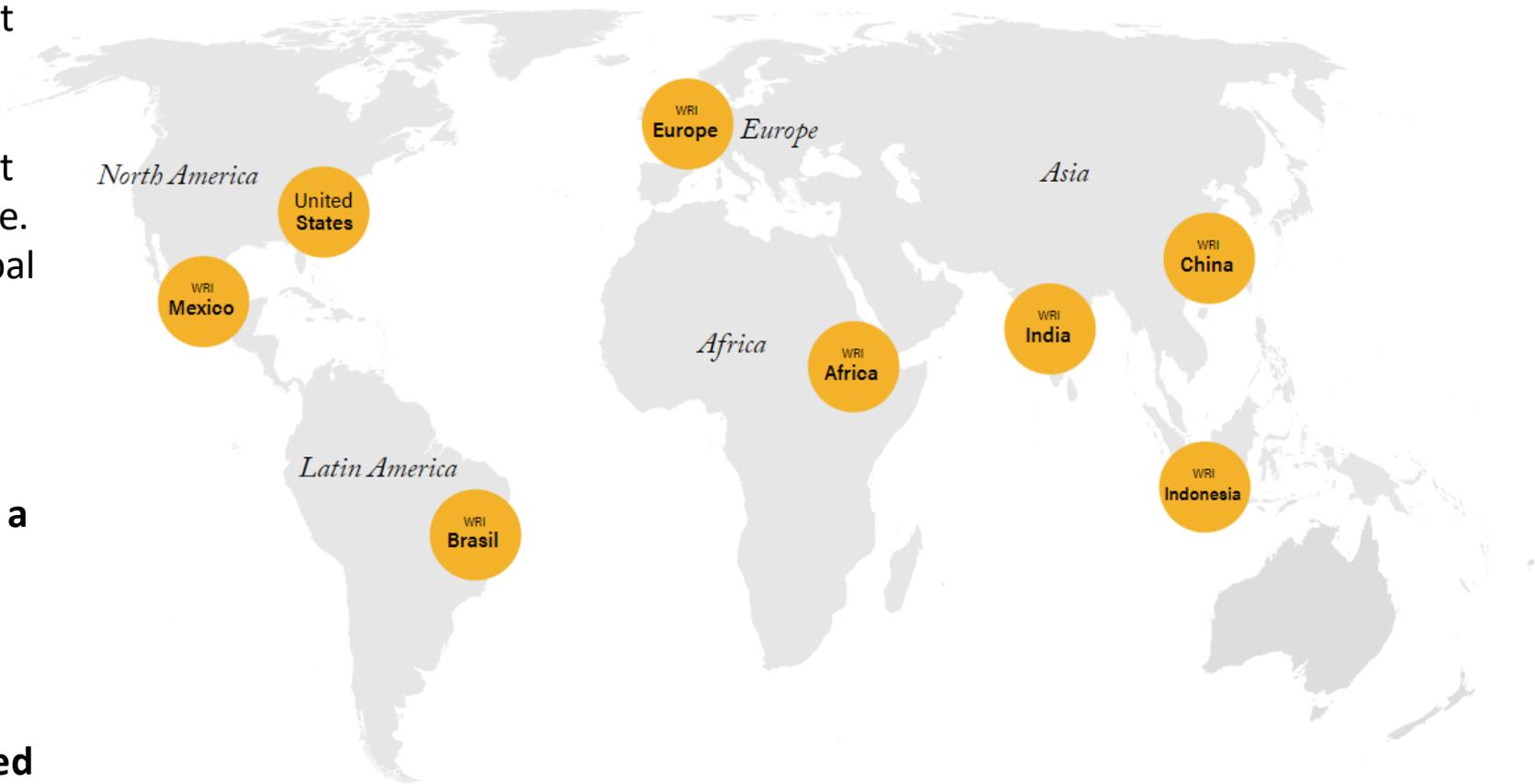
1. About WRI
2. Zero-Emission Delivery Zones
3. Upcoming Research



Who is World Resources Institute (WRI)?

WRI is a global research organization that works with governments, businesses, multilateral institutions and civil society groups to develop practical solutions that improve people's lives and protect nature. We organize our work around seven global challenges: Food, Forests, Water, Energy, Climate, the Ocean and Cities.

WRI Ross Center for Sustainable Cities is the WRI's program **dedicated to shaping a future where cities work better for everyone**. Global research and on-the-ground experience in **Brazil, China, Colombia, Ethiopia, Kenya, India, Indonesia, Mexico, Turkey and the United States** combine to spur action that improves life for millions of people.



E-MOBILITY KEY AREAS OF FOCUS

Clean Energy, Resilience, & EVs



eMobility Roadmapping & Policy Interventions



Fleet Electrification



Sustainable eMobility (ASI Framework)



Integrated Climate Planning



Fair eMobility Transition



eMobility Consumer Behavior



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Sustainable eMobility Materials



Zero-Emission Delivery Zones: Decarbonizing Urban Freight and Goods Delivery in U.S. Cities

- Working paper published in November 2022
- Funded by UPS Foundation
- Equity focus
- Structure
 - Urban freight and delivery externalities
 - Types of ZEDZs
 - Comparable policies and lessons learned
 - Example of ZEDZs
 - Recommendations for city policymakers



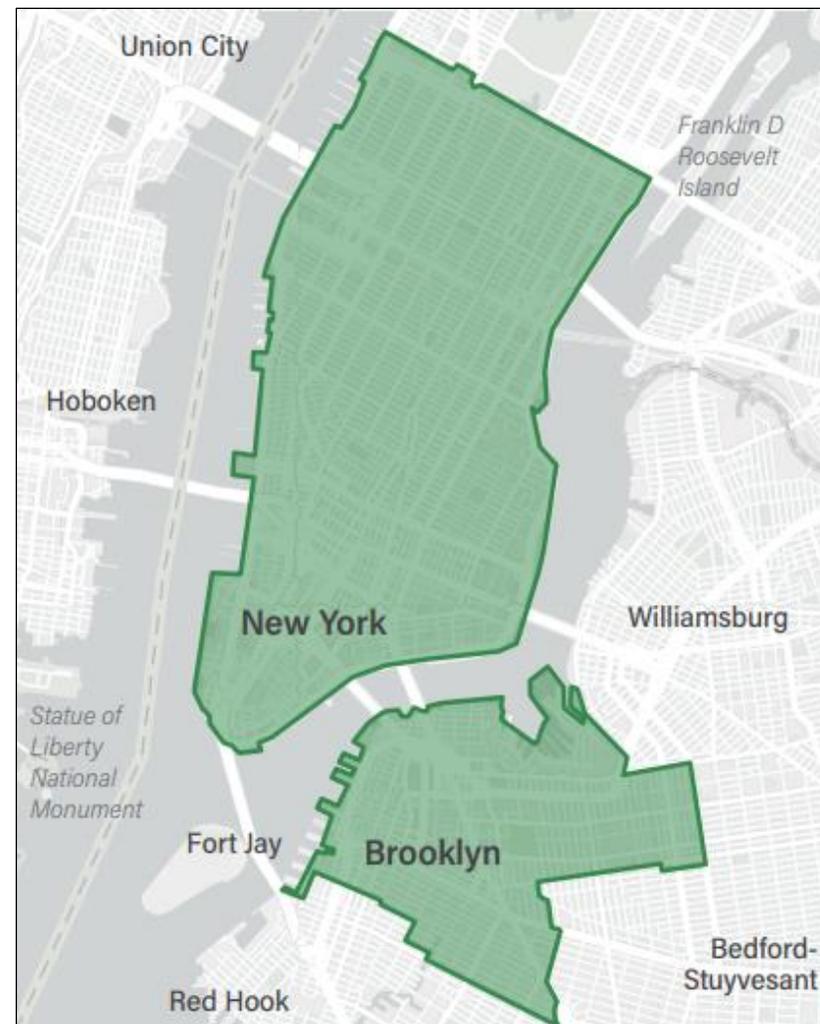
What are ZEDZs?

- We define a ZEDZ as a designated area that permits unrestricted access to only zero-emission delivery vehicles
- Two main reasons why cities might pursue a ZEDZ
 - Policymakers want to reduce negative impacts from delivery sector
 - ZEDZs may be a precursor policy to a larger zero-emission zone/area

ZEDZ TYPE	EXAMPLE
Voluntary Restricted Access Area	<u>Santa Monica ZEDZ</u>
ZEV Microhub	<u>Seattle Neighborhood Delivery Hub</u>
ZEV Parking Spots and Loading Zones	<u>Los Angeles Zero-Emission Commercial Loading Zones</u>
Mandatory Restricted Access Zone	<u>Rotterdam ZEDZ</u>

Comparable Policies Provide Useful Lessons

- Since few examples of ZEDZs, not enough data to predict impacts
- Analyzed three policies for potential lessons
- Three main lessons
 - Locally and nationally coordinated ZEDZ schemes could have different effects
 - City governments must be wary of costs on stakeholders
 - Poorly planned equity measures might compromise effectiveness



City Profiles: Los Angeles

- Los Angeles has committed to a zero-emission area by 2030
- Deployed five zero-emission commercial loading zones
- Key features
 - Affordable
 - Enforceable
 - Equity-focused
- If scaled up, would create a de-facto ZEDZ



Recommendations for Policymakers

- **Engage stakeholders early and often**
 - Determine your champions and opposition
- **Take a stepwise approach and build up to a ZEDZ**
 - Achieve benefits immediately and demonstrate proof of concept
- **Provide supportive policies for successful and inclusive ZEDZs**
 - Help fleets transition to zero-emission vehicles
- **Pursue state and federal policy reform**
 - Get rid of regulatory obstacles and create a uniform framework
- **Prioritize equity at every step along the ZEDZ process**
 - Implement ZEDZs in a way that will advance social and economic equity

Upcoming Research

1. A comprehensive review of 50+ planned and implemented ZEZ, ZEDZ, and LEZ worldwide
 1. Investigation into trends and recent commitments by cities—patterns of implementation
 2. Leading policy and financial incentives
 3. Vehicle restrictions for LEZ; zone format and design; zone location and equity considerations
2. Considerations for freight operators (large-scale and small-scale)
3. How ZEZs impact broader urbanization goals



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Thank you! Questions?

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