

# 2023 URBANISM NEXT CONFERENCE

APRIL 26 – 28 | PORTLAND, OR

#URBNEXT2023

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DIRECTOR, URBANISM NEXT CENTER  
CO-DIRECTOR, SCI  
PROFESSOR OF ARCHITECTURE/URBAN DESIGN  
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# URBANISM NEXT

**NEW MOBILITY**  
**AUTONOMOUS VEHICLES**  
**E-COMMERCE**  
**COVID-19**

**URBANISM NEXT CONFERENCE — APRIL 26-28<sup>TH</sup>, 2023**

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# URBANISM NEXT

**NEW MOBILITY  
AUTONOMOUS VEHICLES  
E-COMMERCE  
COVID-19**

**UNDERSTAND DISRUPTIONS  
UNDERSTAND CASCADING IMPACTS  
SHAPE OUTCOMES**

**URBANISM NEXT CONFERENCE — APRIL 26-28<sup>TH</sup>, 2023**

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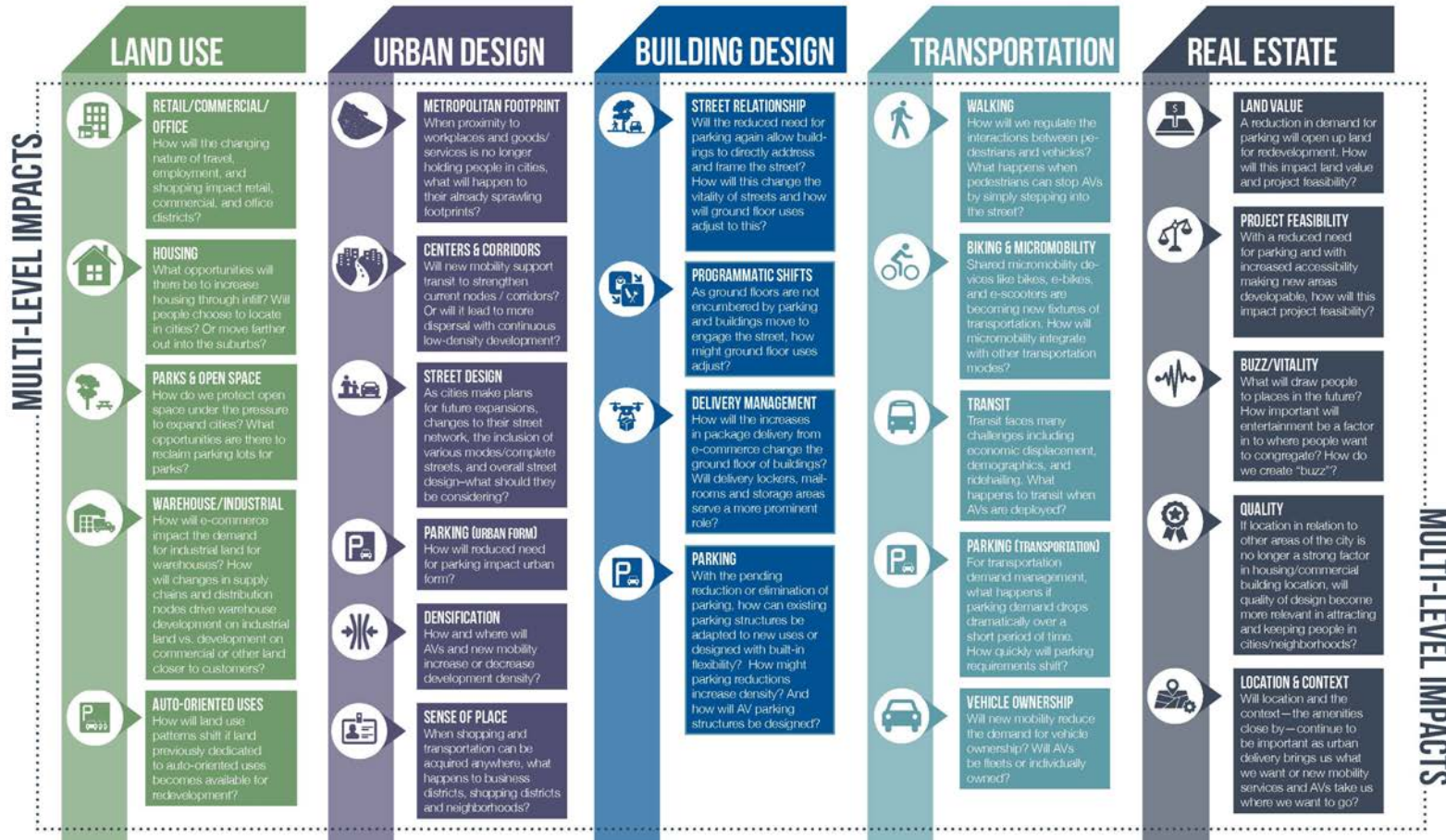
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# URBANISM NEXT | FRAMEWORK

## Forces of Change

- New Mobility*
- Autonomous Vehicles*
- E-Commerce*
- Urban Delivery*
- COVID-19*



## Implications

- Equity*
- Health & Safety*
- Environment*
- Economy*

## What to Do?

- Governance*
- Design*
- Education & Outreach*
- Research*

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# WHAT HAPPENED SINCE WE LAST MET....?

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# COVID IMPACTS



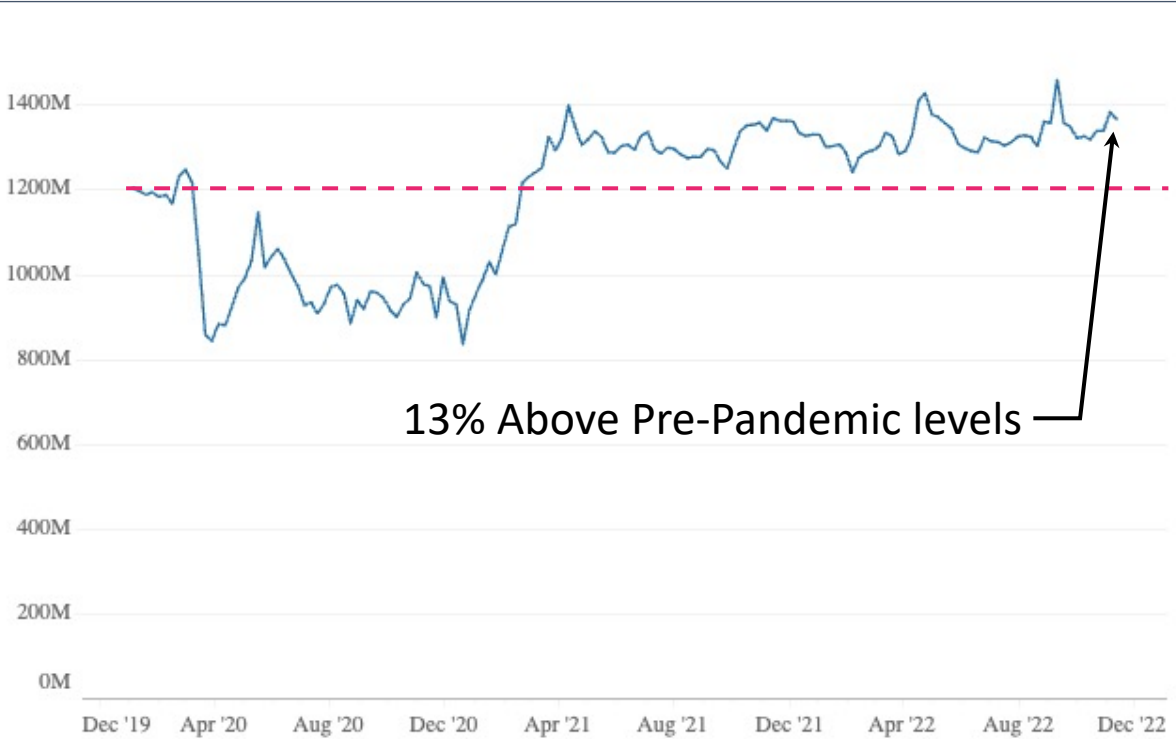


# COVID IMPACTS: TRIPS



Trips Per Week (US)

April 2023



13% Above Pre-Pandemic levels

Bureau of Transportation Statistics, USDOT

<https://www.bts.gov/daily-travel>

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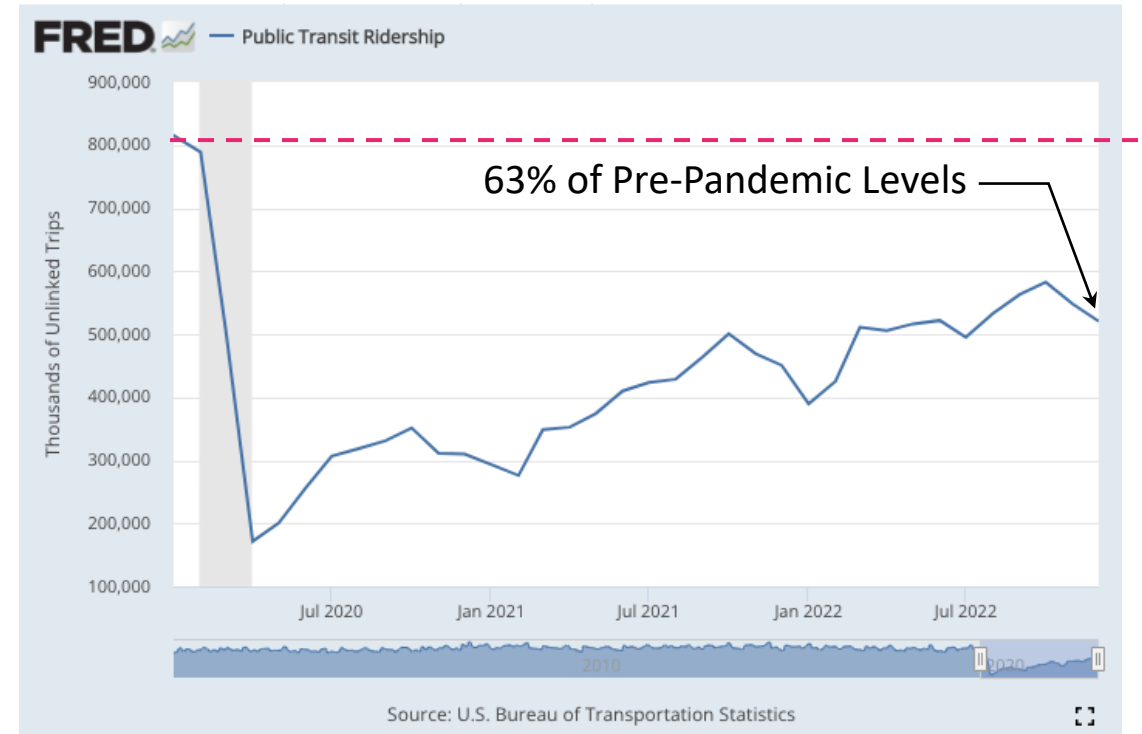
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# COVID IMPACTS: TRANSIT



Transit Trips Per Week (US)

December 2022



Bureau of Transportation Statistics, USDOT

<https://www.bts.gov/daily-travel>

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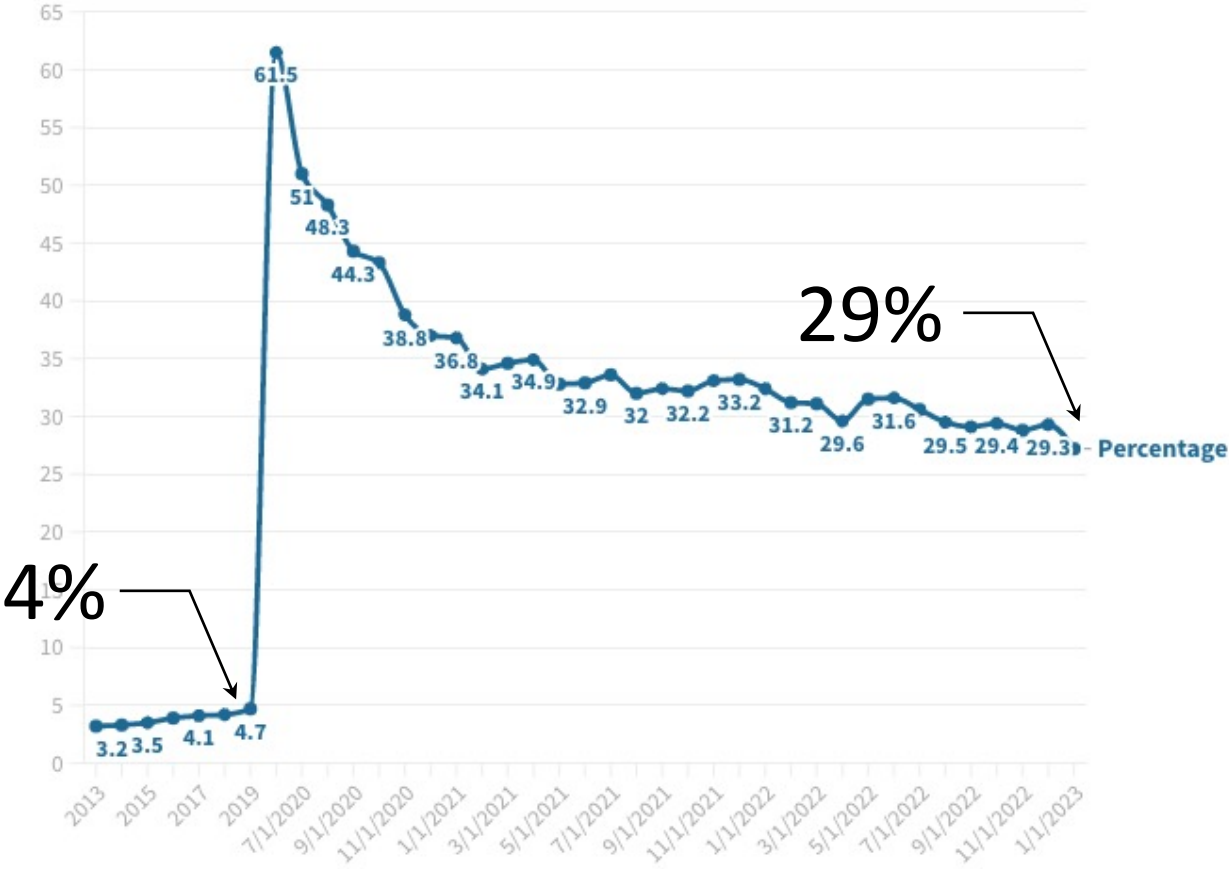
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# COVID IMPACTS: WFH

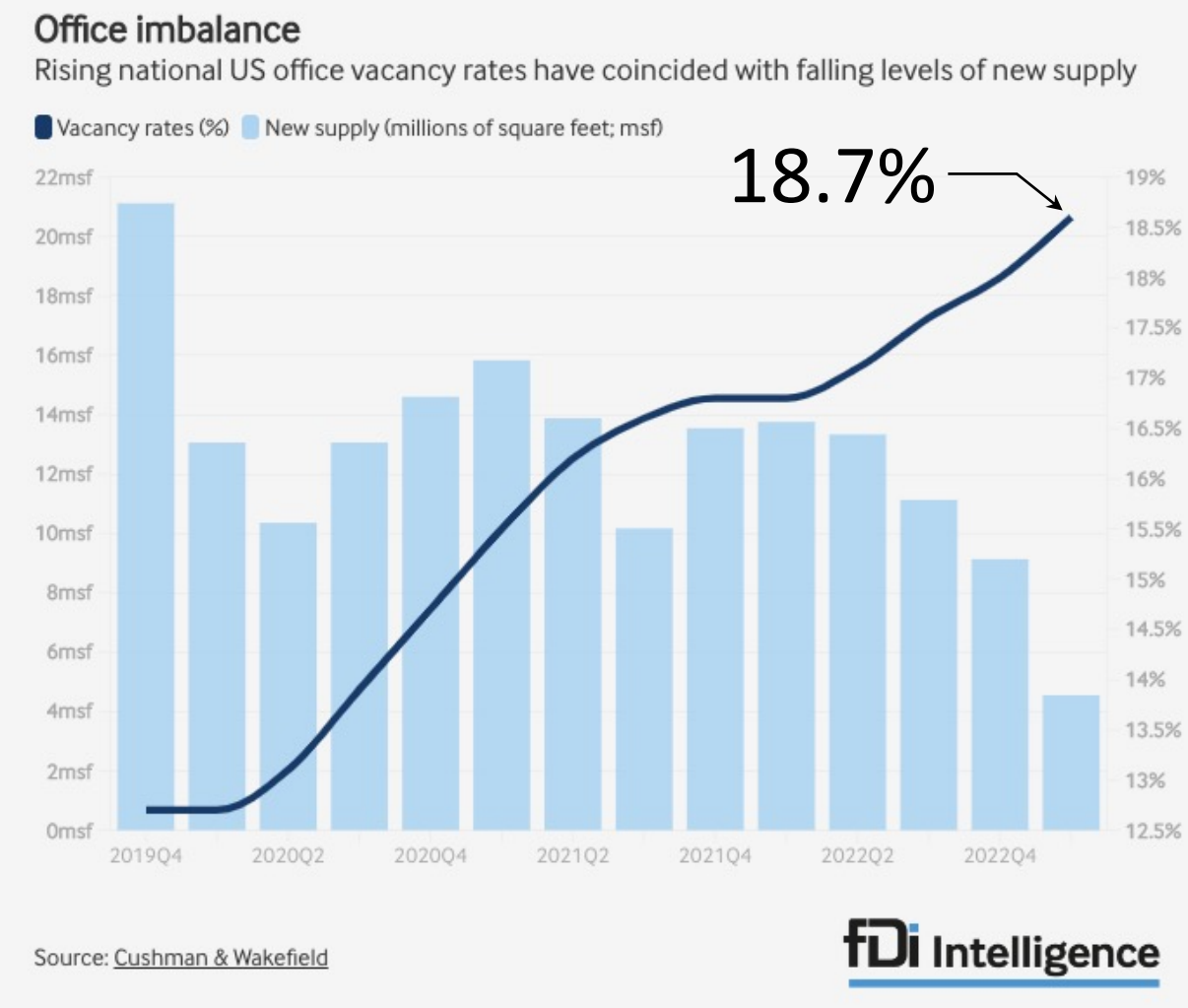
### Percentage of work performed from home



Source: Barrero, Jose Maria, Nicholas Bloom, and Steven J. Davis, 2021. "Why working from home will stick," National Bureau of Economic Research Working Paper 28731.



# COVID IMPACTS: OFFICE VACANCY

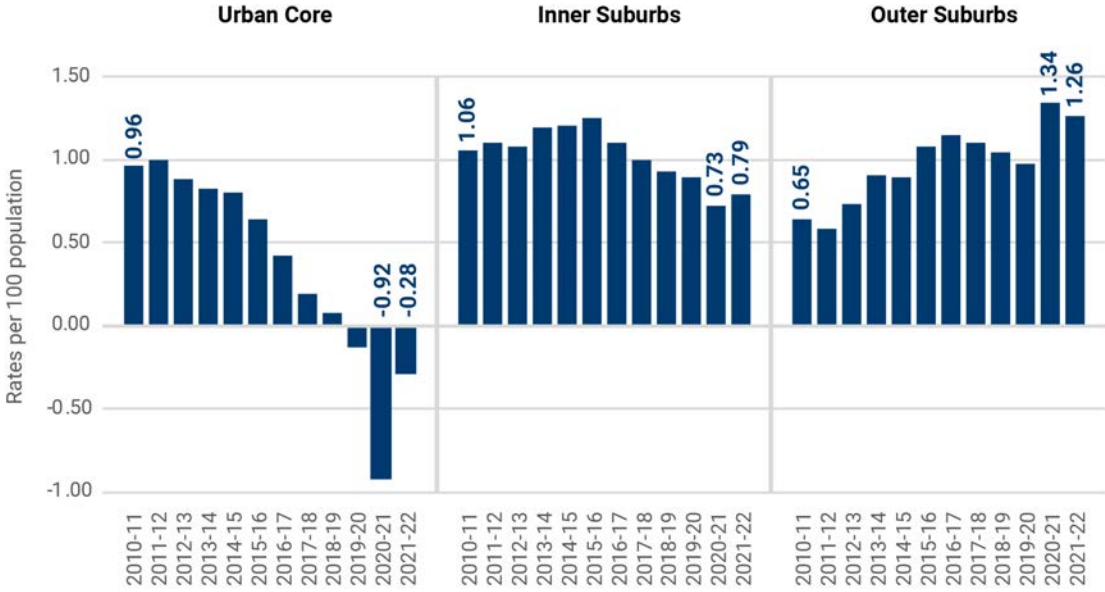


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# COVID IMPACTS: URBAN / SUBURBAN GROWTH

FIGURE 1  
**Annual growth rates for urban core and suburban counties in large metro areas, 2010-2022**



**Note:** Annual estimates pertain to July 1 to July 1 of successive years. Counties within metropolitan areas exceeding 500,000 population classed by typology developed by Brookings Metro  
**Source:** William H. Frey analysis of US Census Bureau population estimates released March 30, 2023



# COVID IMPACTS: URBAN / SUBURBAN GROWTH

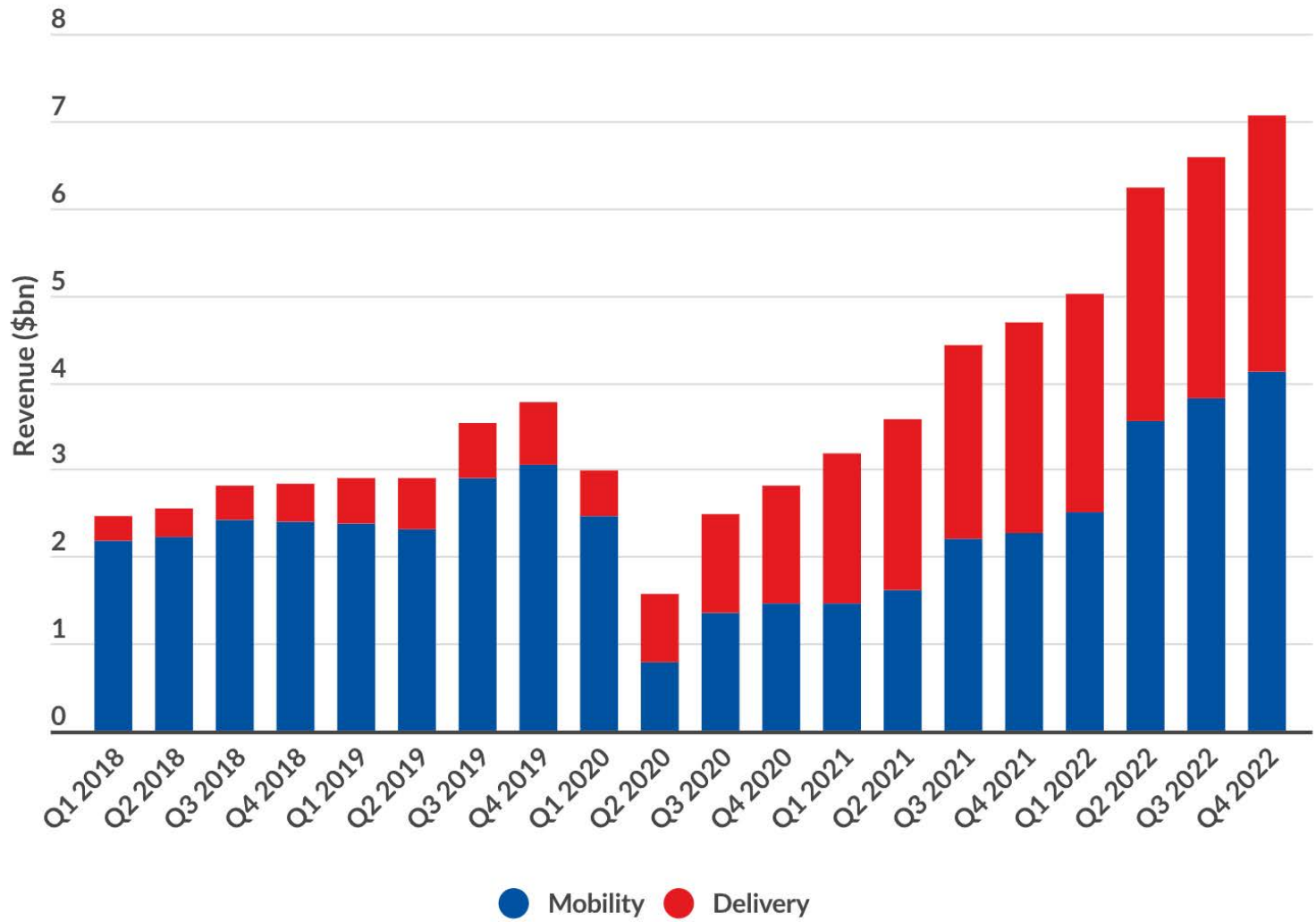


# Uber Reports Record Revenue as It Defies the Economic Downturn

The company, which was hit hard in the early stages of the pandemic, saw revenue jump 49 percent from the same period a year ago.

**By Kellen Browning**  
 Kellen Browning reports on Uber and the gig economy.  
 Feb. 8, 2023

Uber mobility and delivery segment revenue 2018 to 2022 (\$bn)

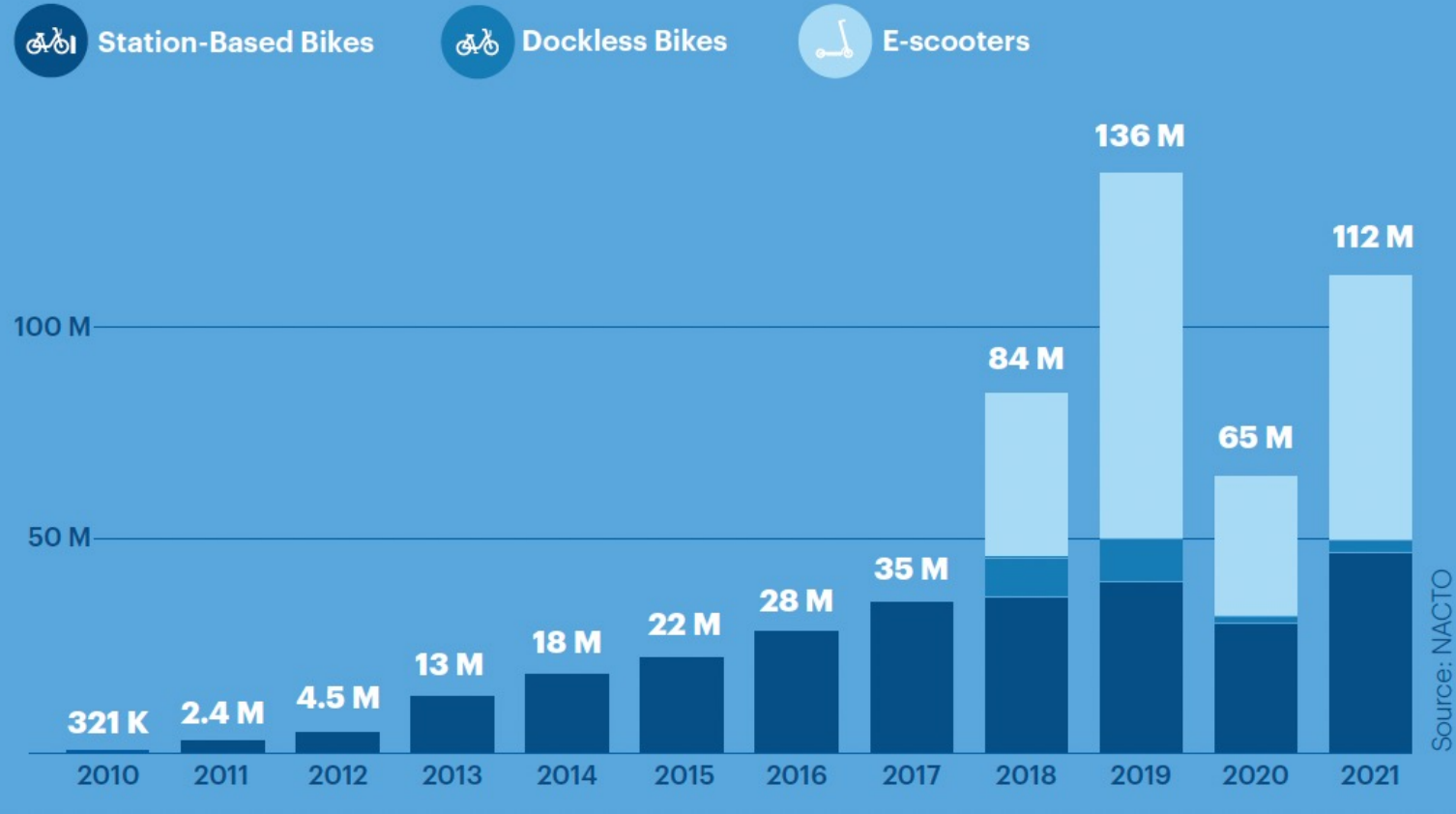


Source: Company data



# Shared Micromobility Ridership in the U.S. from 2010-2021

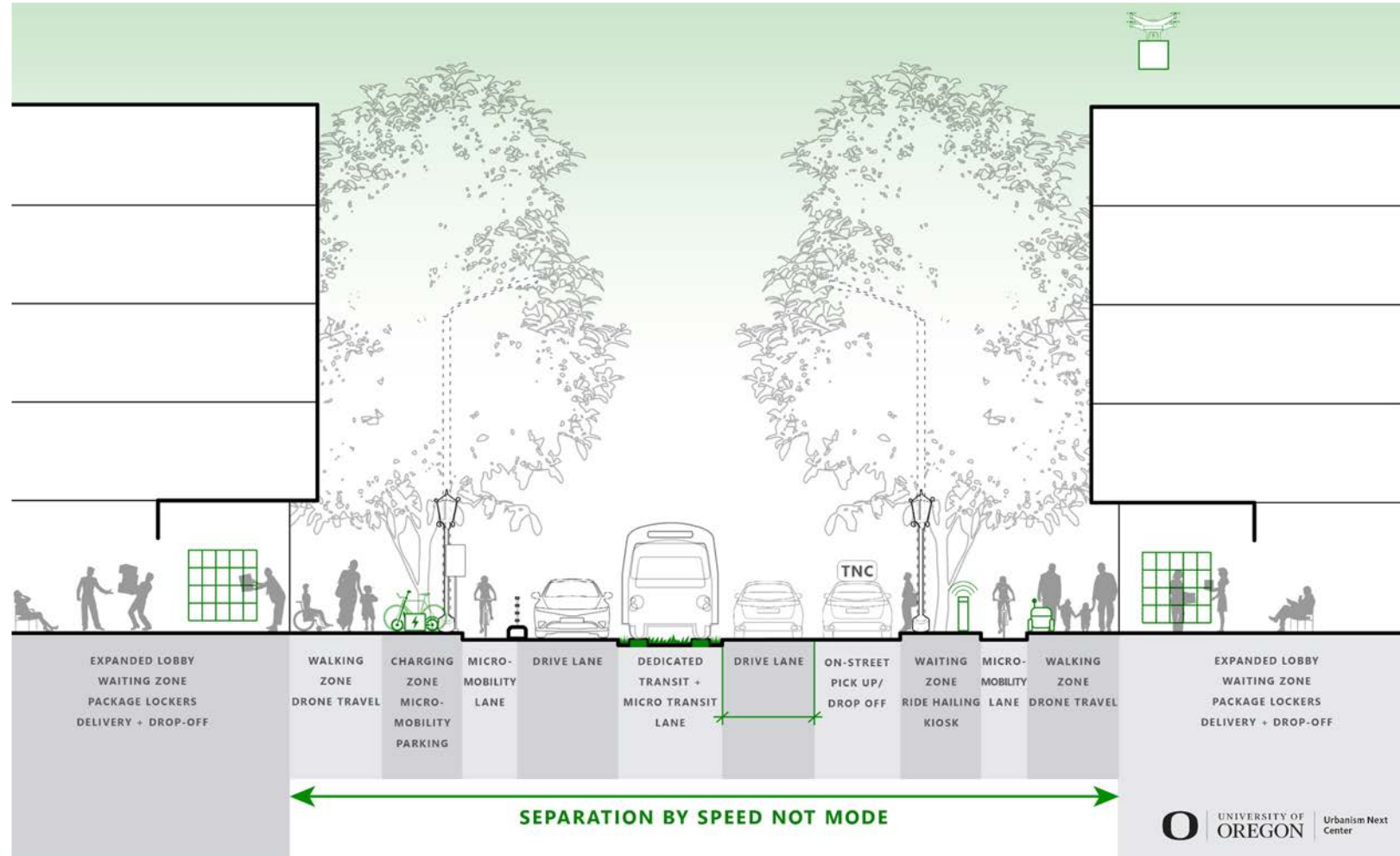
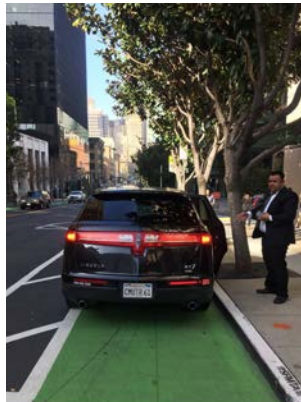
IN MILLIONS OF TRIPS



Source: NACTO

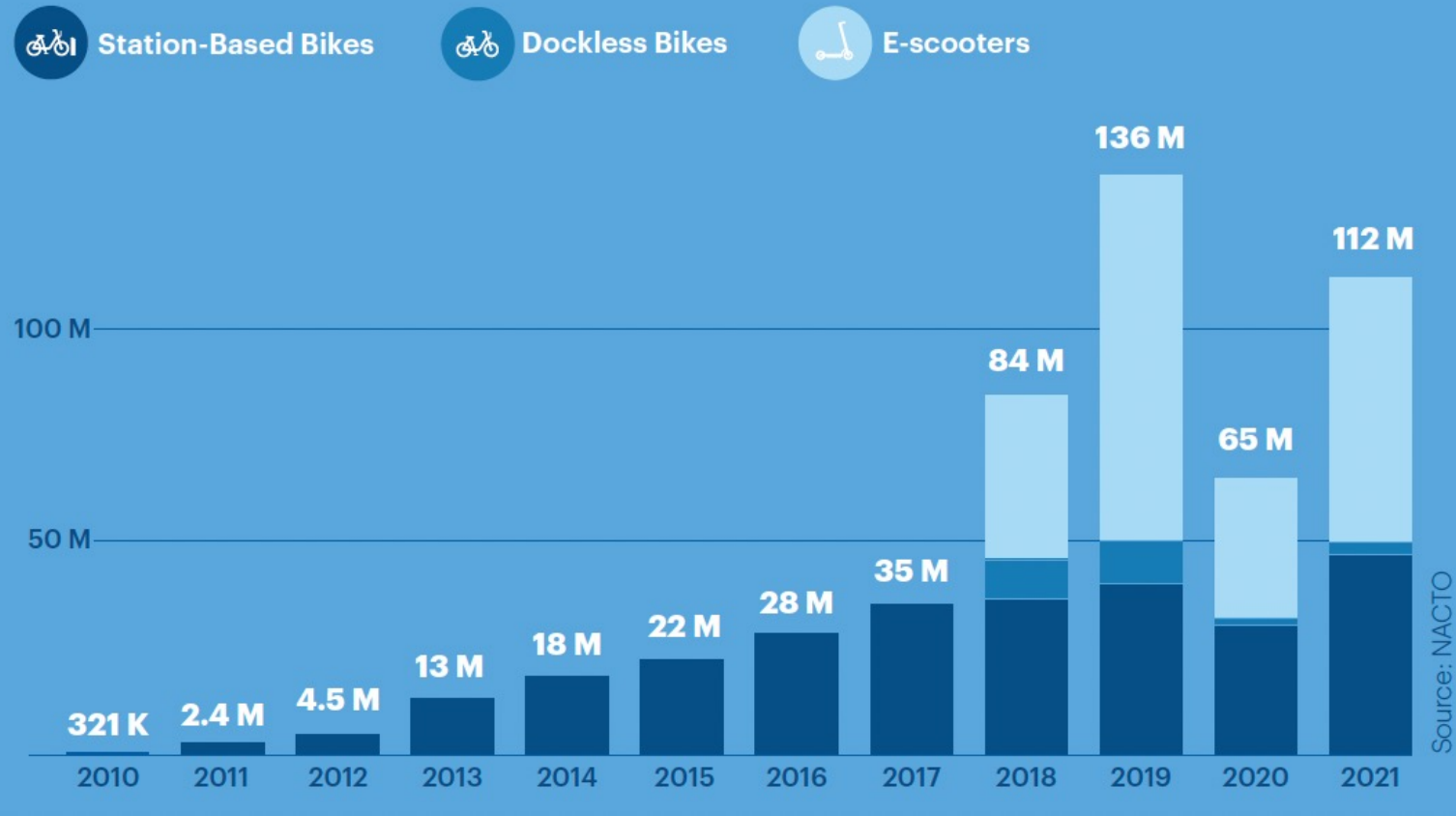
(NACTO)

# STREET DESIGN



# Shared Micromobility Ridership in the U.S. from 2010-2021

IN MILLIONS OF TRIPS



(NACTO)

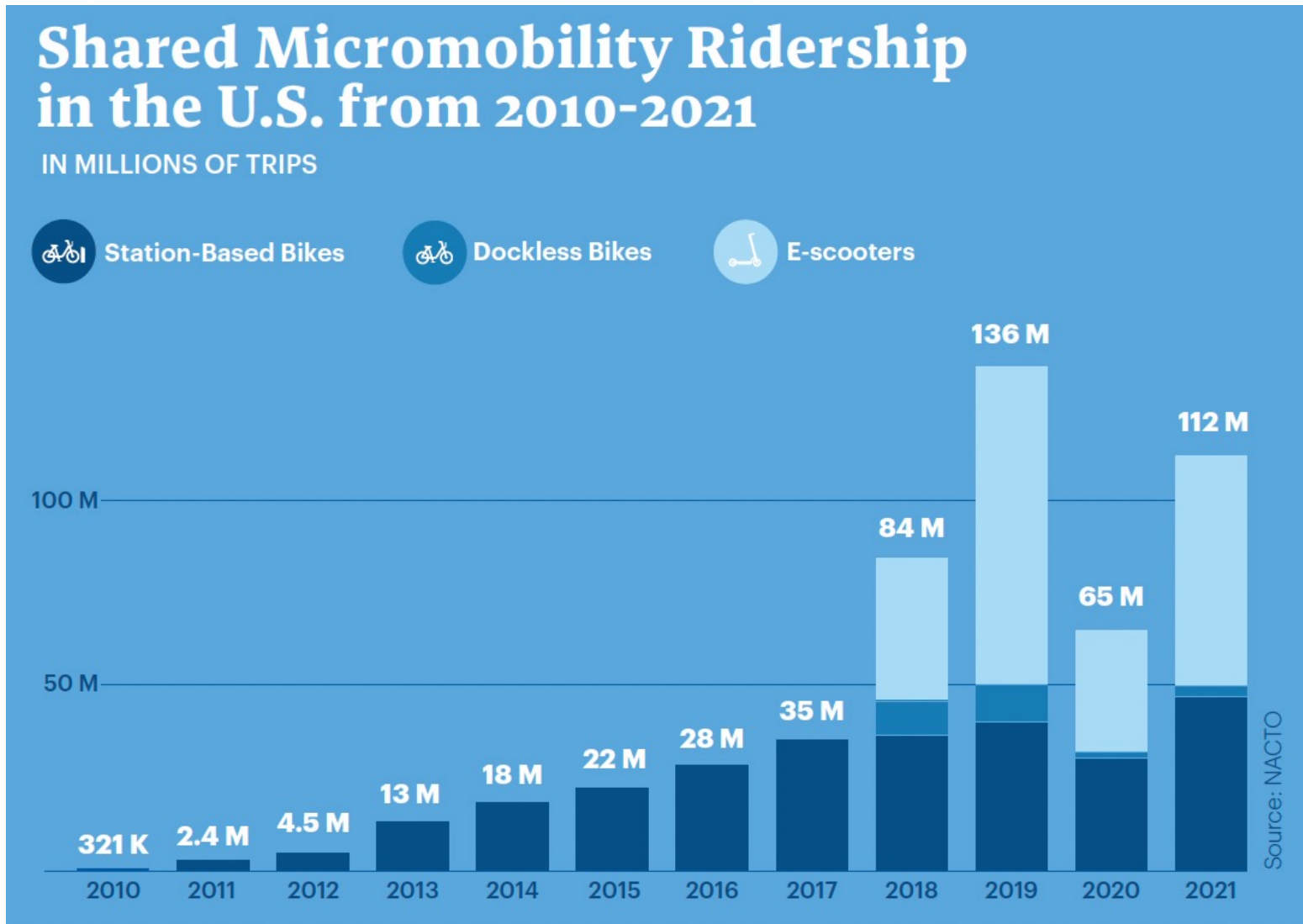


Transportation

## Bird exits Germany, Sweden, Norway and 'several dozen' US, EMEA markets

Rebecca Bellan @rebeccabellan / 3:40 PM PDT • October 18, 2022

Comment



(NACTO)

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**Paris**  
Parisians vote to ban rental e-scooters from French capital by huge margin

Results show 90% support for ridding Paris of 'self-service scooters' whose riders are accused of flouting rules of the road

Angela Giuffrida and agencies

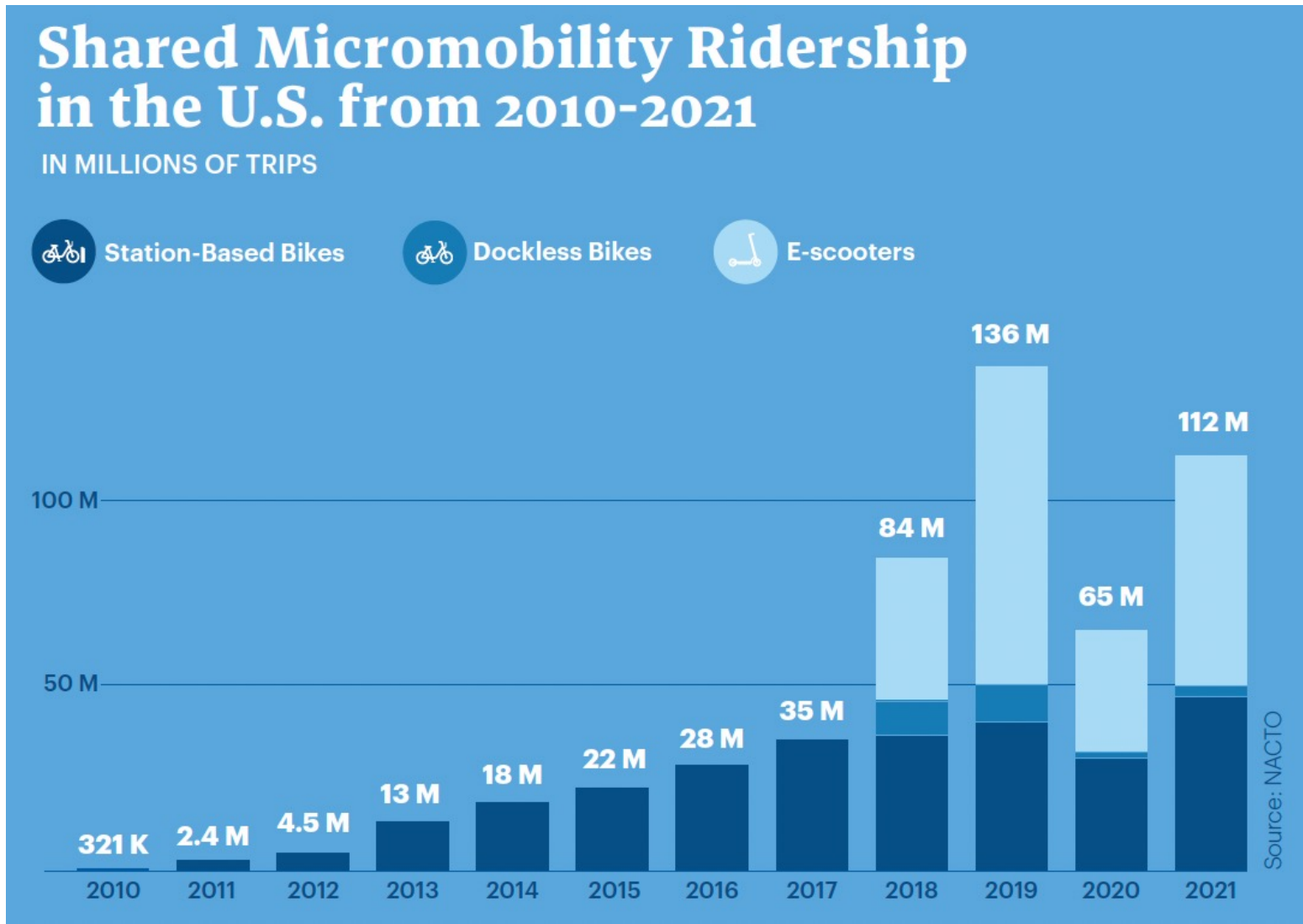
Sun 2 Apr 2023 18:17 EDT

Transportation

**Bird exits Germany, Sweden, Norway and 'several dozen' US, EMEA markets**

Rebecca Bellan @rebeccabellan / 3:40 PM PDT • October 18, 2022

Comment



(NACTO)

# Cruise starts daytime robotaxi rides in San Francisco

By Brianna Wessling | November 17, 2022

TRANSP0 / AUTONOMOUS CARS / TECH


## Cruise's driverless robotaxis are accepting passengers in Phoenix and Austin

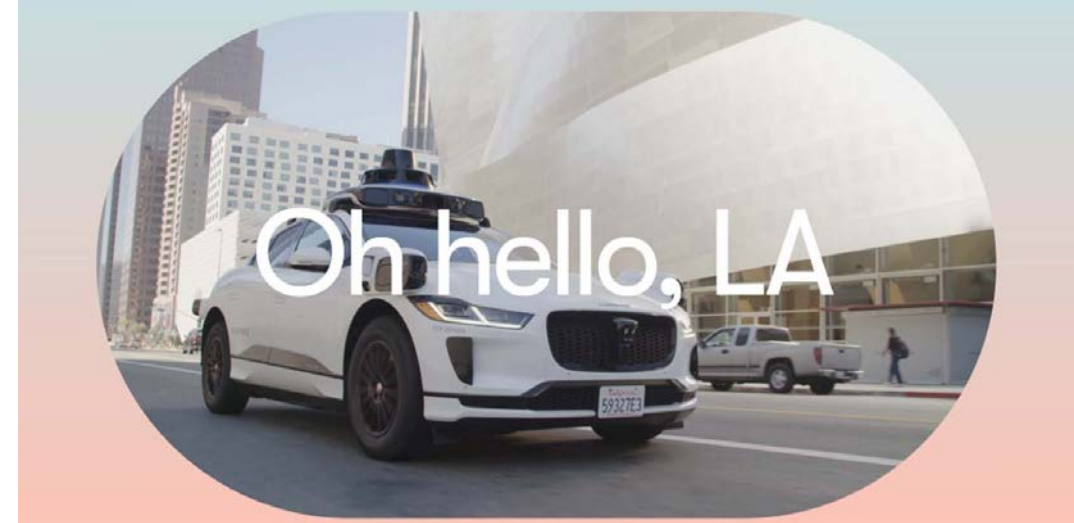
By [ANDREW J. HAWKINS](#) / [@andyjayhawk](#)

Dec 20, 2022, 10:34 AM PST | [1 Comment](#) / [1 New](#)

WAYMO AUTONOMOUS DRIVING ROBOTAXI CRUISE

## Waymo joins 1 million test mile club, expands driverless rides to Los Angeles

 [Scooter Doll](#) | Feb 28 2023 - 4:07 pm PT | [24 Comments](#)



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AUTOS

# Self-driving cars from GM's Cruise block San Francisco intersection in latest problem for autonomous vehicles

PUBLISHED FRI, JUL 1 2022 3:31 PM EDT | UPDATED FRI, JUL 1 2022 4:44 PM EDT



Michael Wayland  
@MIKEWAYLAND



Lora Kolodny  
@LORAKOLODNY

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## GM's self-driving unit, Cruise, recalls 300 cars after 1 crashed into a bus



**Jamie L. LaReau**

Detroit Free Press

Published 11:40 a.m. ET April 7, 2023 | Updated 4:49 p.m. ET April 7, 2023

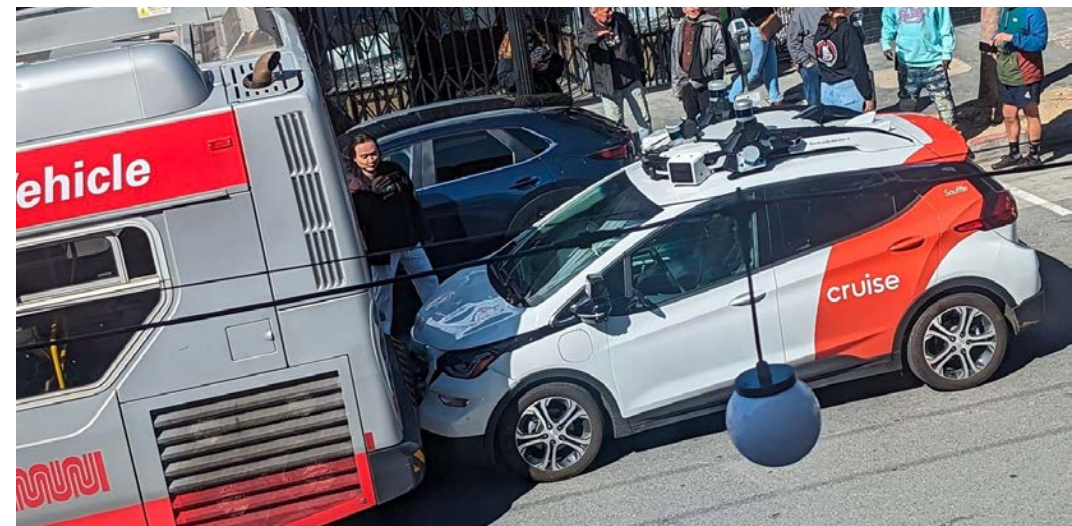
BAY AREA

## Waymo says dense S.F. fog brought 5 vehicles to a halt on Balboa Terrace street



Rachel Swan

April 11, 2023 | Updated: April 11, 2023 2:55 p.m.



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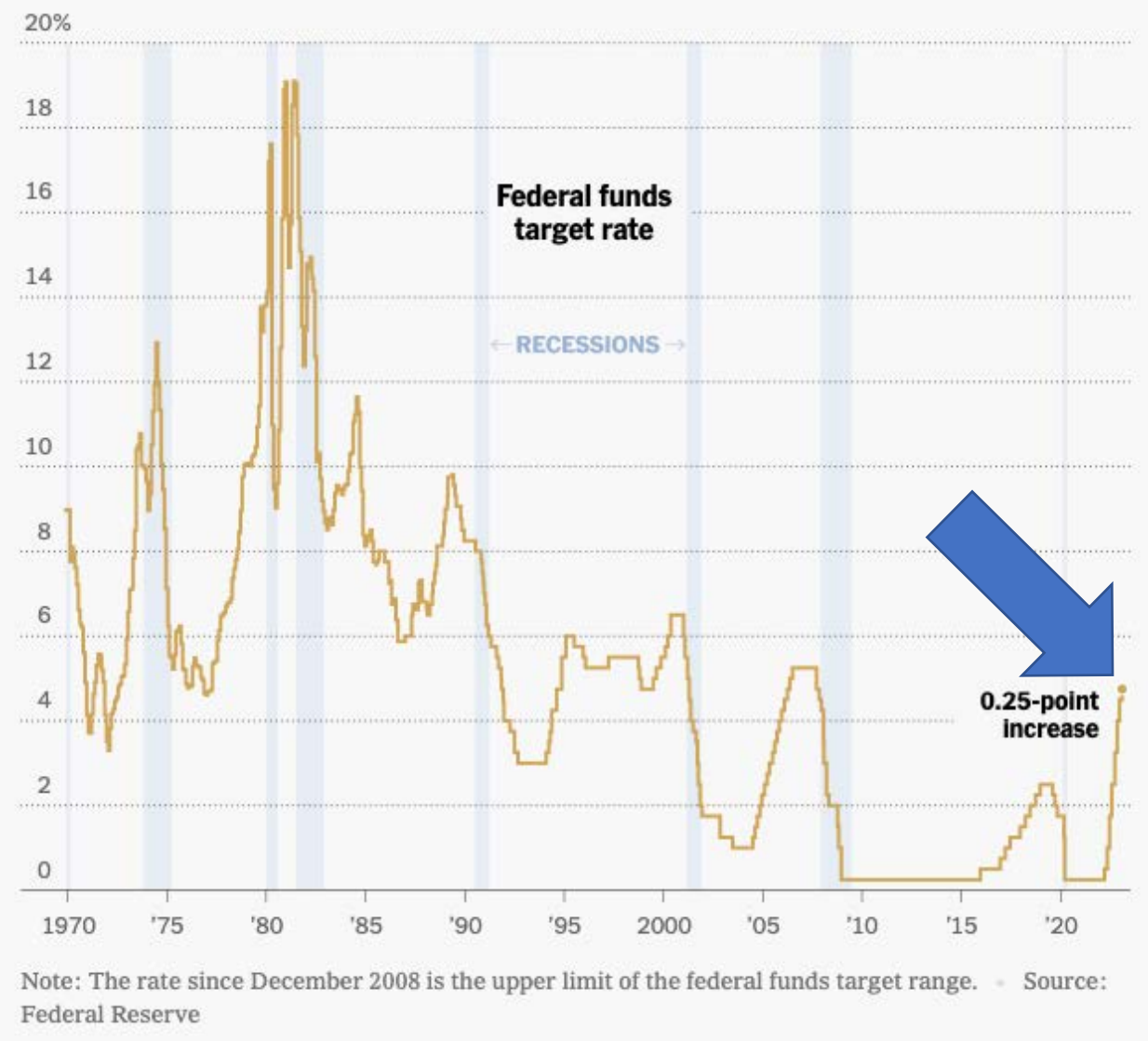
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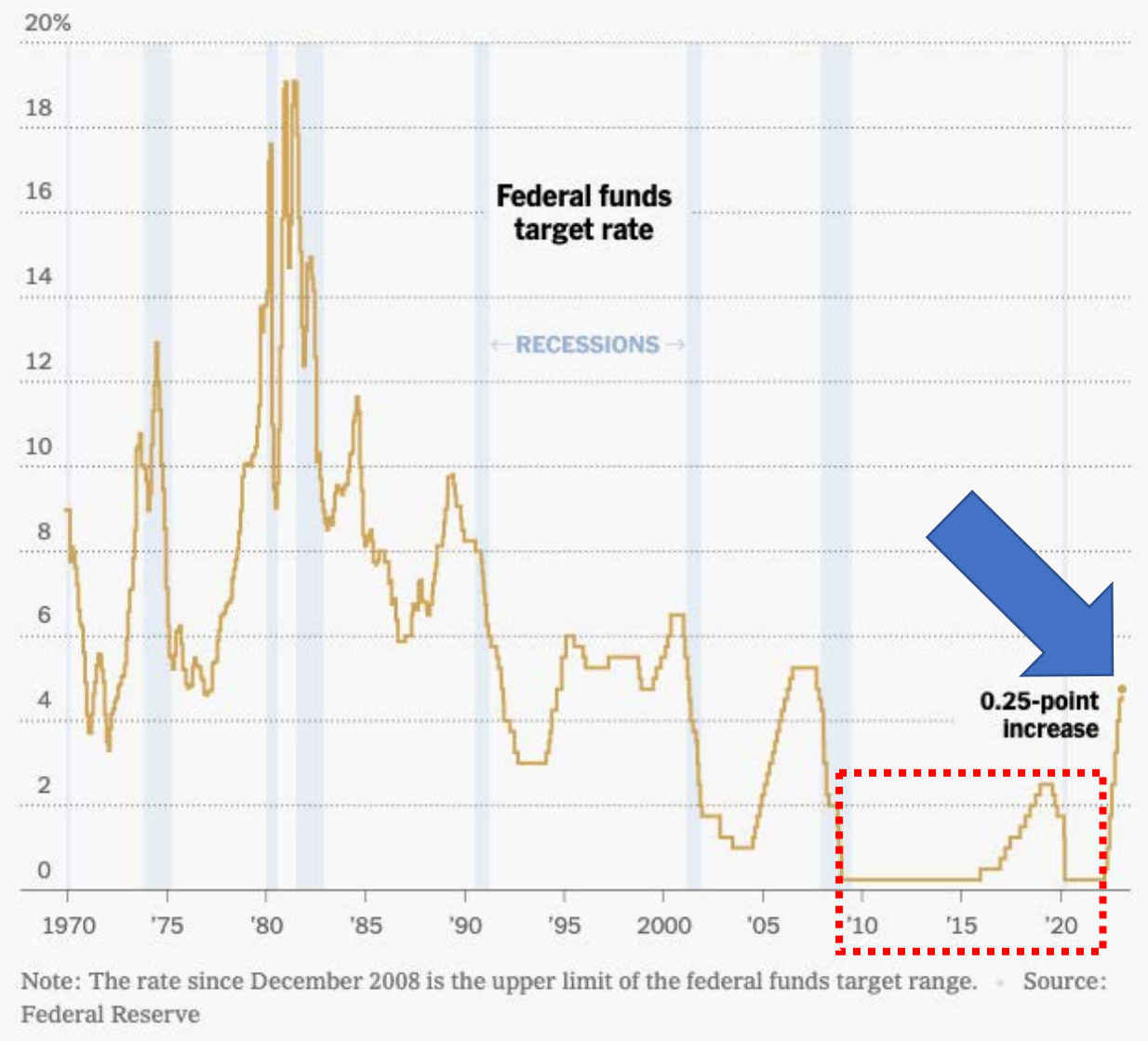


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# INTEREST RATE RISE

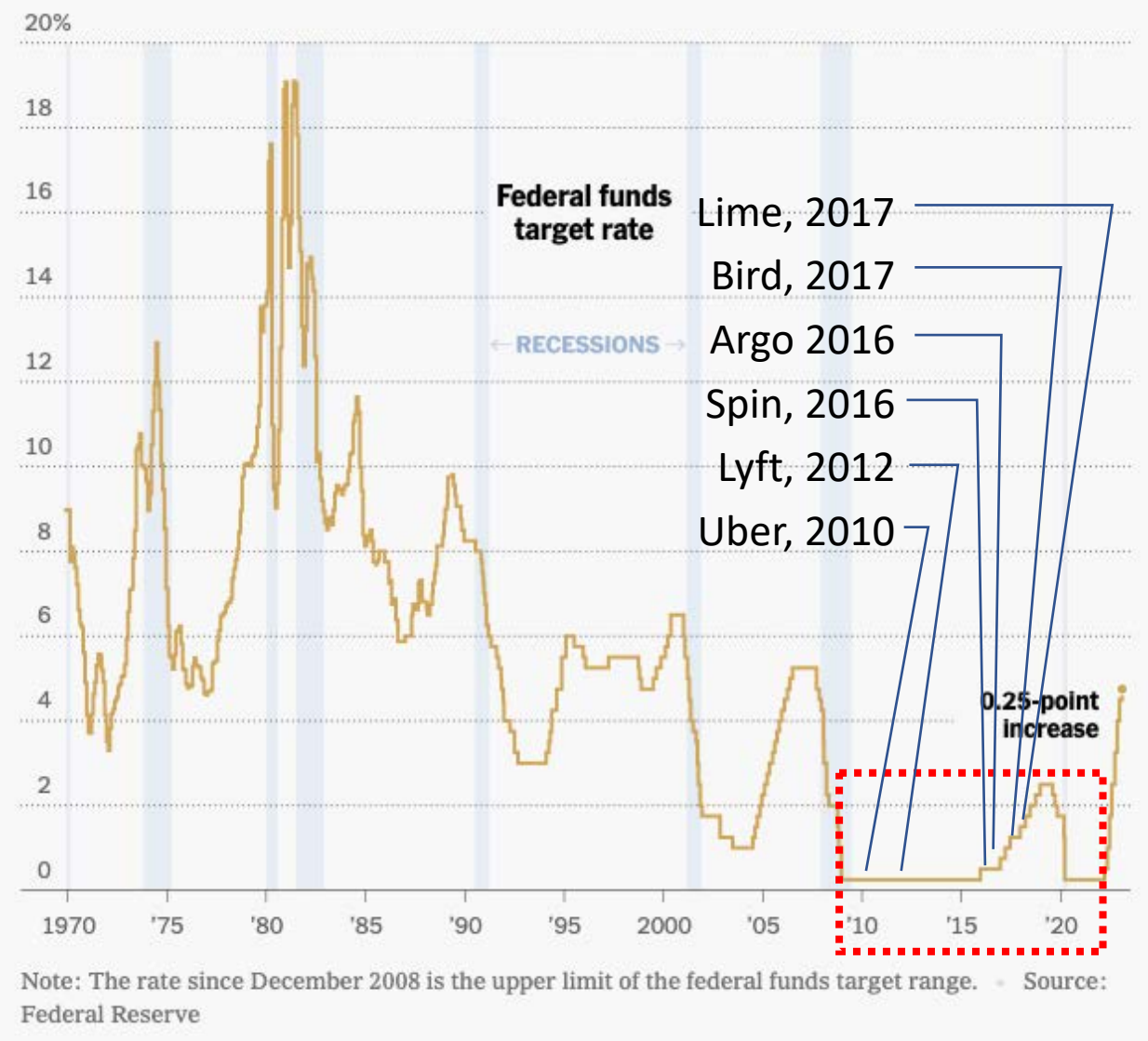


# INTEREST RATE RISE





# INTEREST RATE RISE





# INTEREST RATE RISE

The New York Times

## For Tech Companies, Years of Easy Money Yield to Hard Times

Rock-bottom rates were the secret engine fueling \$1 billion start-ups and virtual attempts to conquer the physical world. But in 2023, reality bites.



By David Streitfeld

David Streitfeld has written about technology and its effects for more than 20 years.

Published Jan. 23, 2023 Updated Jan. 30, 2023

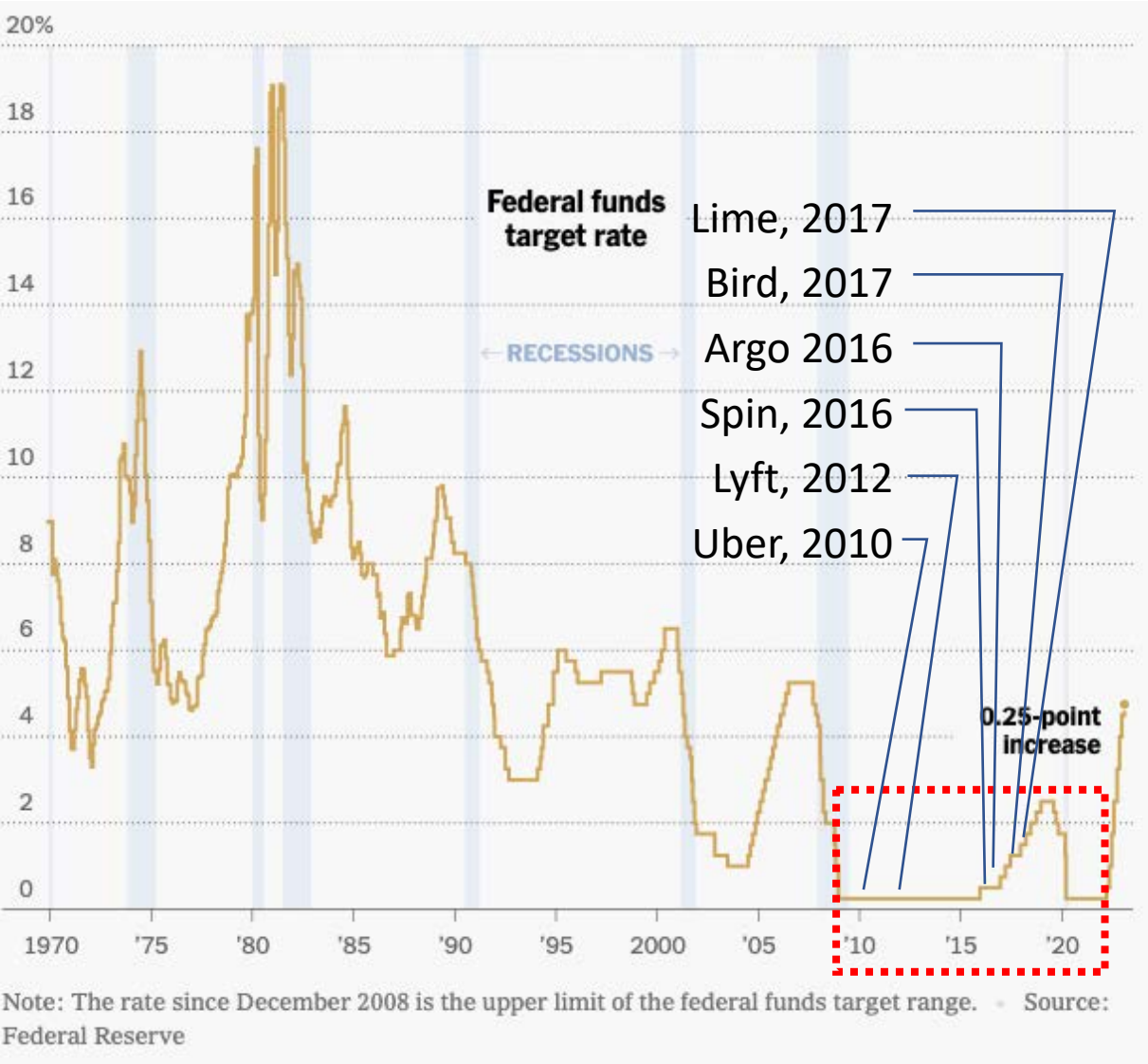
## Rising interest rates pack a punch for tech companies



Justin Ho

Oct 24, 2022

Heard on: MARKETPLACE\*



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# Argo AI, driverless startup backed by Ford and VW, is shutting down



/ The Pittsburgh-based startup, which was founded in 2016, will be absorbed into its two automotive partners. Argo had been testing its vehicles in Miami, Austin, and Washington, DC.

The Verge

By [ANDREW J. HAWKINS](#) / [@andyjayhawk](#)  
Oct 26, 2022, 12:52 PM PDT | [2 Comments](#) / [2 New](#)



crunchbase news

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TRANSPORTATION & LOGISTICS

## Argo AI Is Shutting Down. What's Next for Autonomous Vehicles?

Keerthi Vedantam    October 27, 2022

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The Verge

By [ANDREW J. HAWKINS](#) / @andyjayhawk  
Oct 26, 2022, 12:52 PM PDT | [2 Comments](#) / [2 New](#)



# The Funded: Autonomous trucking business Embark looks to be near the end of its road

By [Cromwell Schubarth](#) - TechFlash Editor  
March 06, 2023, 12:04pm PST Updated 03/06

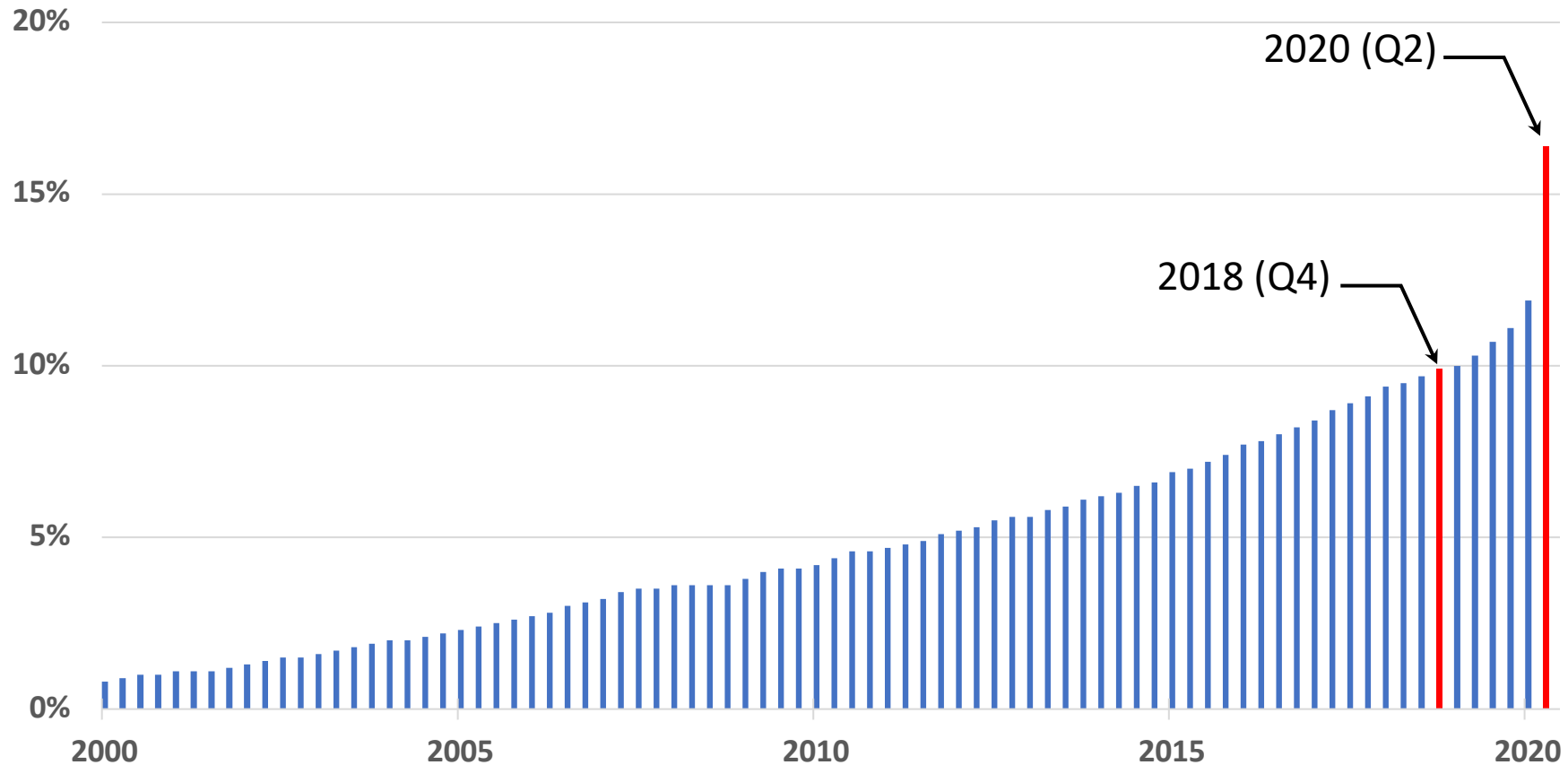
# Lyft plans to ‘significantly reduce’ workforce, CEO says

 By [Brian Fung](#), CNN  
Updated 2:48 PM EDT, Fri April 21, 2023

# Argo AI Is Shutting Down. What’s Next for Autonomous Vehicles?

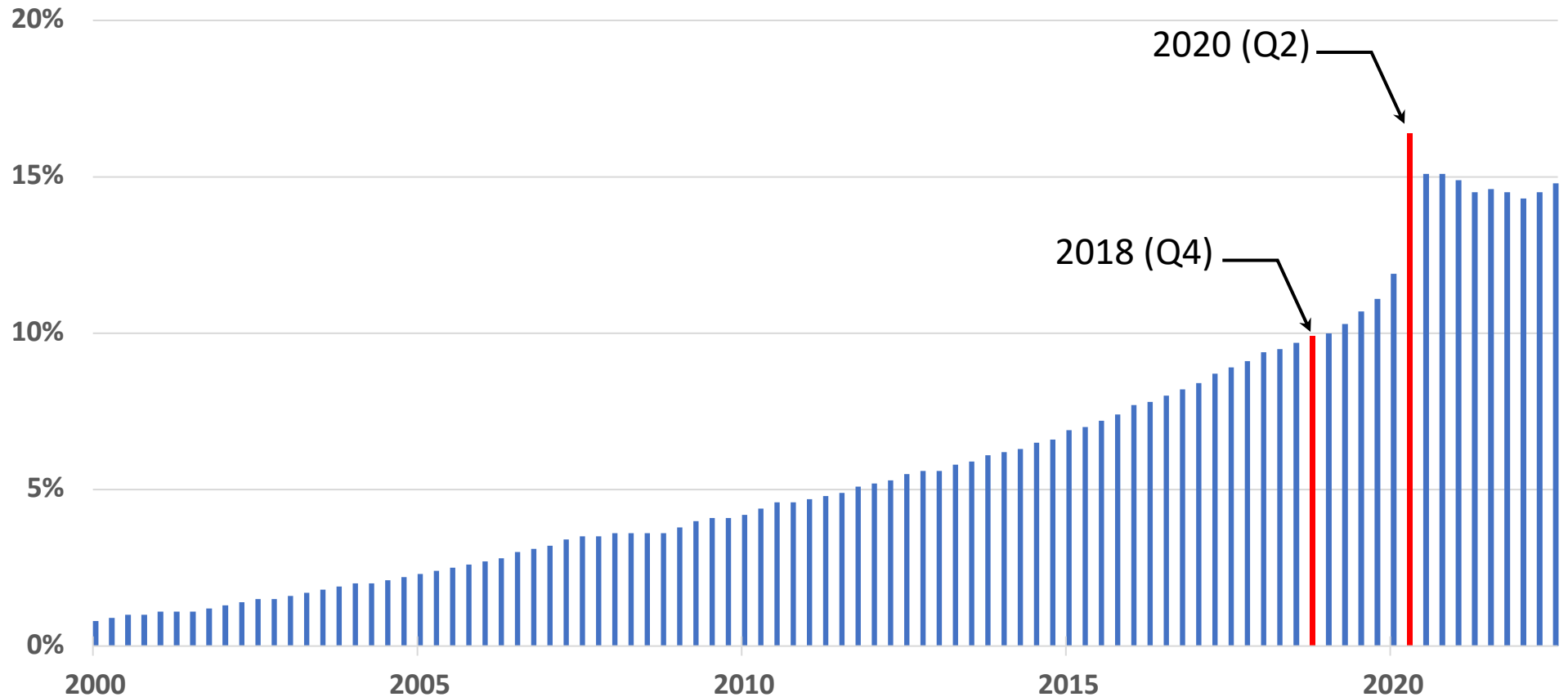
Keerthi Vedantam    October 27, 2022

# E-Commerce Retail Sales as a Percent of Total Sales



Data Source – Commerce Department via St. Louis Fed  
<https://fred.stlouisfed.org/series/ECOMPCTSA#0>

# E-Commerce Retail Sales as a Percent of Total Sales



Data Source – Commerce Department via St. Louis Fed  
<https://fred.stlouisfed.org/series/ECOMPCTSA#0>





21 Billion E-Commerce Packages Delivered in the US in 2022  
165 Packages/Household... Almost one every other day...

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## In-Store and Online Shoppers on Thanksgiving Weekend (in millions)

Source: National Retail Federation



Source: Forbes Advisor • Embed

Forbes ADVISOR

December 2022





Strongtowns.org



# CHATGPT / LARGE LANGUAGE MODELS...

The Washington Post  
BUSINESS

## ChatGPT Could Make Democracy Even More Messy

Analysis by Tyler Cowen | Bloomberg  
December 6, 2022 at 1:47 p.m. EST

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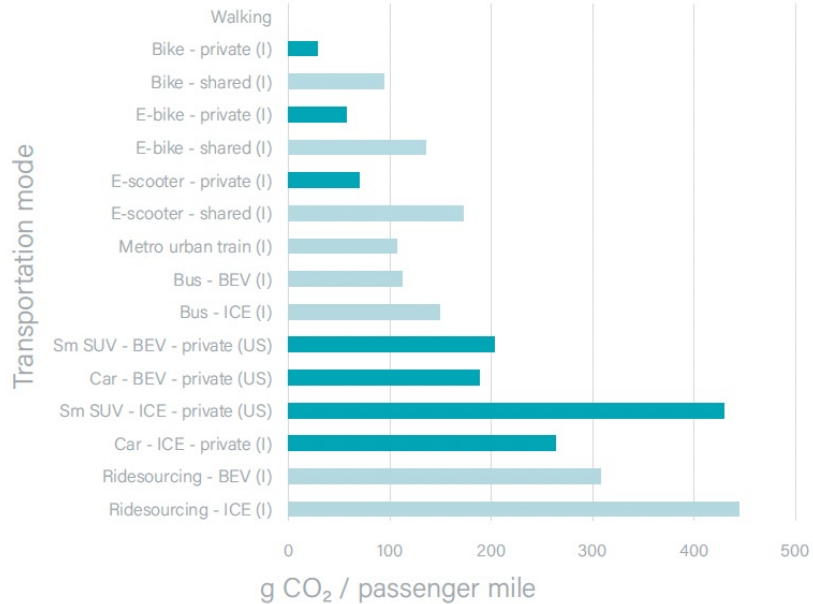
**(A LOT HAS HAPPENED...)**

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**FIGURE 2. INTERNATIONAL AND U.S. ESTIMATES OF LIFE-CYCLE GREENHOUSE GAS EMISSIONS OF URBAN TRANSPORT MODES PER PASSENGER MILE**



Source: International (I) estimates converted from g CO<sub>2</sub>/km to g CO<sub>2</sub>/mile by Urbanism Next from Cazzola, Pierpaolo, and Philippe Crist. "Good to Go? Assessing the Environmental Performance of New Mobility." International Transport Forum Corporate Partnership Board, 2020, p 23. US (US) estimates from Kelly, Jarod C., Amgad Elgowainy, Raphael Isaac, Jacob Ward, Ehsan Islam, Aymeric Rousseau, Ian Sutherland, et al. "Cradle-to-Grave Lifecycle Analysis of U.S. Light-Duty Vehicle-Fuel Pathways: A Greenhouse Gas Emissions and Economic Assessment of Current (2020) and Future (2030-2035) Technologies." Argonne National Laboratory, June 2022, pp 92 and 93, are for a small SUV and a mid-sized sedan and the battery electric vehicles have a 300 mi range.

Note: (I) = International estimate; (US) = United States estimate; BEV = battery electric vehicle; ICE = internal combustion engine.

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Report Available at: <http://urbanismnext.org>

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**POLICY BRIEF:**  
**SHARED MOBILITY,**  
**AUTONOMOUS VEHICLES,**  
**AND GHG EMISSIONS**  
**AUGUST 2022**

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FEBRUARY 2023

# POTENTIAL IMPACTS OF AUTONOMOUS VEHICLE DEPLOYMENT ON PARKING AND DEVELOPMENT

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Report Available at: <http://urbanismnext.org>

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# PILOTING SIDEWALK DELIVERY ROBOTS IN PITTSBURGH, MIAMI-DADE COUNTY, DETROIT, AND SAN JOSÉ: KNIGHT AUTONOMOUS VEHICLE INITIATIVE

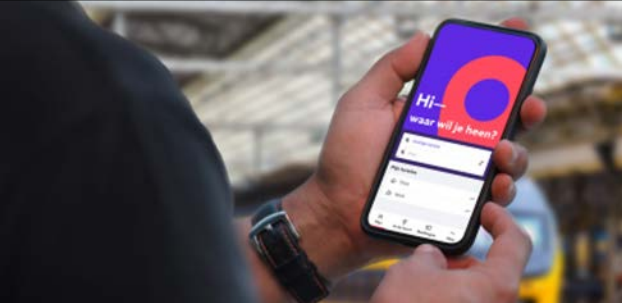


Report Available at: <http://urbanismnext.org>

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# PILOT EVOLUTION – 1.0



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# PILOT EVOLUTION – 2.0



Solution/Uptake

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# PILOT EVOLUTION – 2.0



Solution/Uptake

Biz Model

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# PILOT EVOLUTION – 2.0



Solution/Uptake

Biz Model

Impacts

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# PILOT EVOLUTION – 2.0



**Solution/Uptake**

**Biz Model**

**Impacts**

**Efficiency**

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# HOW WILL WE SHAPE OUR FUTURE?

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**ANNE BROWN**  
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RESEARCH DIRECTOR  
PROFESSOR OF PLANNING



**ISABEL HOFF**  
URBANISM NEXT CENTER  
CONFERENCE COORDINATOR



**MALAYA CANSDALE**  
URBANISM NEXT CENTER  
GRAPHIC DESIGNER/COMMS



**SABRINA ORTIZ**  
URBANISM NEXT CENTER  
RESEARCHER



**MARSHA GRAVESEN**  
SCI FISCAL AND OFFICE MANAGER



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RESEARCH DIRECTOR  
PROFESSOR OF PLANNING



**ISABEL HOFF**  
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CONFERENCE COORDINATOR

**ELIZABETH MOORE**  
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**GRETCHEN HEBERLING**  
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**MARSHA GRAVESEN**  
SCI FISCAL AND OFFICE MANAGER

**LINDA SMITH**  
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**Amanda Howell** – *Oregon Department of Transportation*

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**John MacArthur** – *Transp. Research and Educ. Center (TREC) - Portland State University*

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**Andres DeWet** – *Urban Land Institute, Northwest Chapter (formerly)*

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**Becky Steckler** – *EcoNorthwest*

**Diana von Knorredegraaf** – *TNO (Netherlands)*

**Fiona Lyon** – *American Society of Landscape Architects - Oregon / TriMet*

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**Jeb Doran** – *American Society of Landscape Architects - Oregon / TriMet*

**John MacArthur** – *Transp. Research and Educ. Center (TREC) - Portland State University*

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**Paul Angelone** – *Urban Land Institute (National)*

**Serah Breakstone** – *American Planning Association, Oregon Chapter (OAPA)*

**Stephanie Dock** – *Washington DC - Dept of Transportation (DDOT)*



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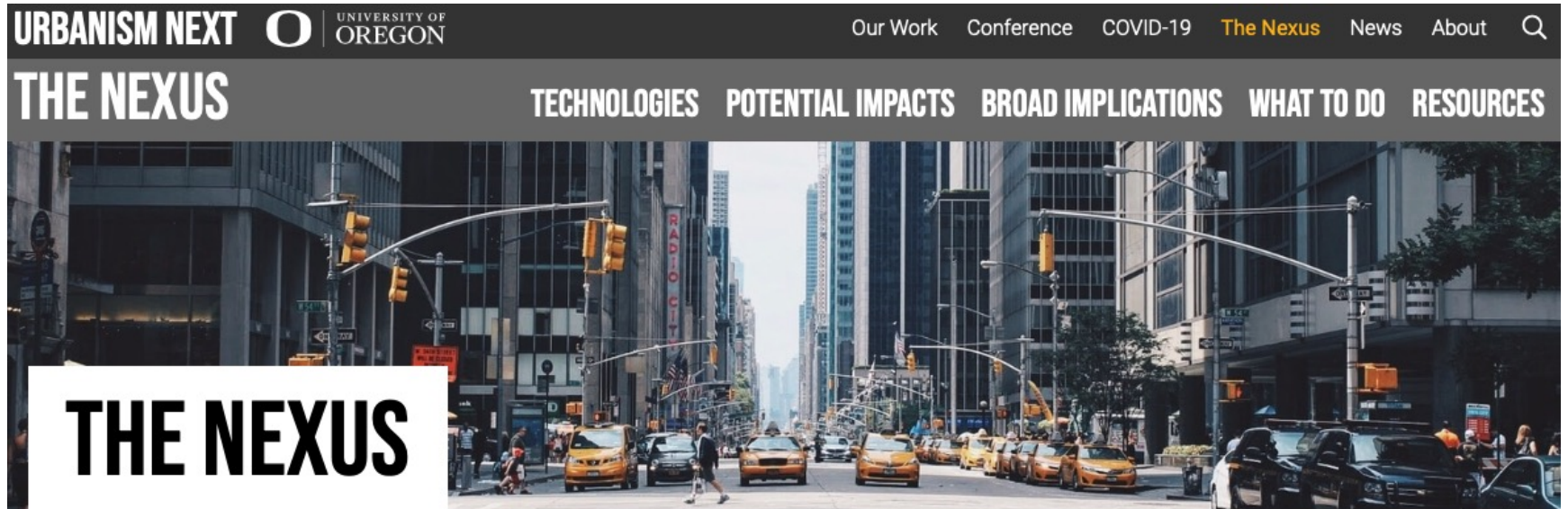
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# URBANISMNEXT.ORG | THE NEXUS



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### Welcome to The Nexus!

The Nexus examines the potential impacts that new mobility, autonomous vehicles, e-commerce, and other innovations will have on cities and communities.

**Understanding how new technologies might impact cities is essential for smart decision-making.** Use the below links to explore The Nexus by topics, view examples of how to address these issues, and access resources for researching and sharing this information.

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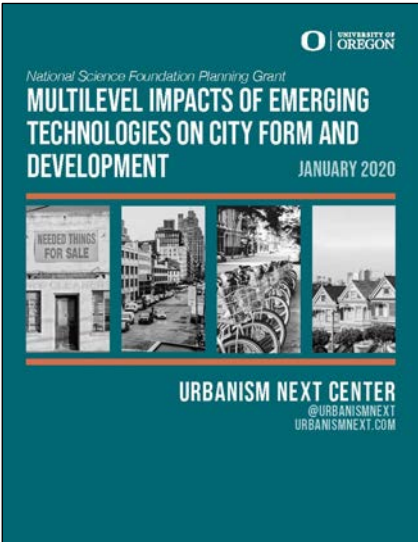
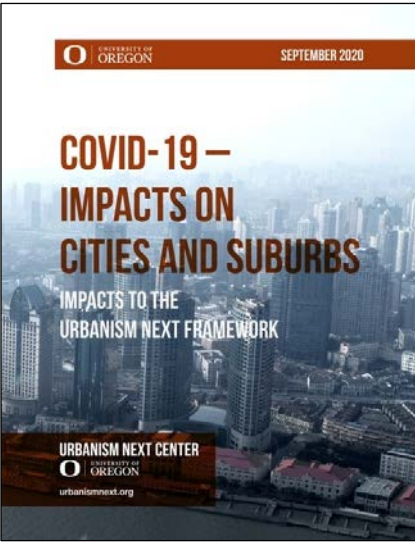
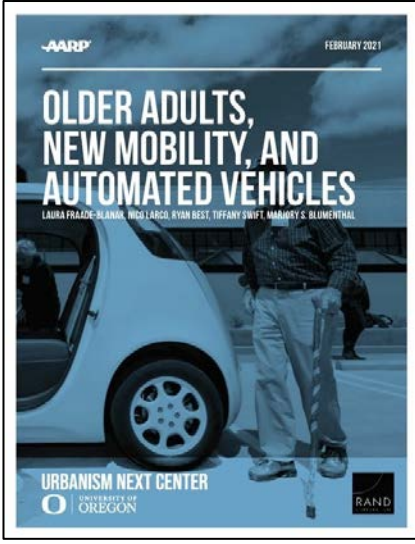
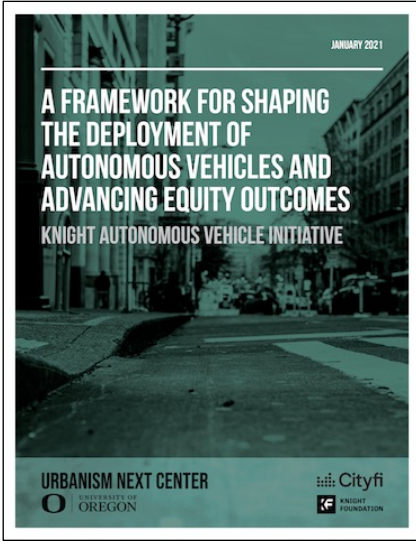
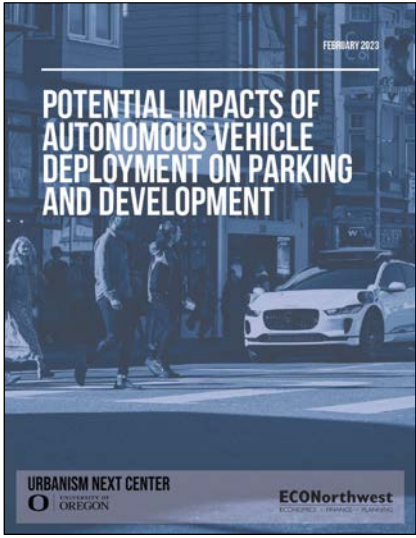


# URBANISM NEXT REPORTS



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## WEDNESDAY.

9:00 AM  
**WORKSHOPS**

1:30 PM  
**WORKSHOPS**

5:30 PM  
**RECEPTION**

## THURSDAY.

8:30 AM  
**PLENARIES**

11:00 AM  
**SESSIONS #1**

12:30 PM  
**LUNCH / PLNRY**

1:45 PM  
**SESSIONS #2**

3:30 PM  
**SESSIONS #3**

5:00 PM  
**RECEPTION**

## FRIDAY.

8:30 AM  
**PLENARIES**

11:00 AM  
**SESSIONS #4**

12:30 PM  
**LUNCH / PLNRY**

1:45 PM  
**SESSIONS #5**

3:30 PM  
**SESSIONS #6**

5:00 PM  
**ADJOURN**



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**Sucharita Kodali**  
Forrester Research

**Julia Friedlander**  
SFMTA

**Allanté Whitmore**  
SAFE

**David Vega-Barachowitz**  
WXY Arch + UD

# WHAT HAPPENED TO THE ECOMMERCE HOCKEY STICK?



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**VICE PRESIDENT AND PRINCIPAL ANALYST,  
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# DRIVERLESS VEHICLE VISION & REALITY: A VIEW FROM SAN FRANCISCO STREETS

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**JULIA  
FRIEDLANDER**

SENIOR MANAGER, AUTOMATED DRIVING POLICY AT  
SAN FRANCISCO MUNICIPAL TRANSPORTATION  
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# CLOSING THE GAP: ACHIEVING MORE EQUITABLE MOBILITY WITH AUTONOMOUS VEHICLES

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**ALLANTÉ  
WHITMORE**

**DIRECTOR OF AUTONOMOUS VEHICLE INITIATIVE,  
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# FUTURE PROOFING DESIGN: FIVE MODELS FOR THE FUTURE OF CITY BUILDING

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**DAVID**

**VEGA-BARACHOWITZ**

ASSOCIATE PRINCIPAL & DIRECTOR OF URBAN DESIGN  
WXY ARCHITECTURE + URBAN DESIGN





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**Gabe Klein**  
US Joint Office of  
Energy + Transportation

**Ben Levine**  
USDOT

**Lucas Grindley**  
Next City

**Kim Lucas**  
City of Pittsburgh

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EXECUTIVE DIRECTOR  
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## BEN LEVINE

SENIOR ADVISOR OF RESEARCH & TECHNOLOGY  
U.S. DEPARTMENT TRANSPORTATION



# COMMUNICATING CHANGE: HOW THE NARRATIVE SHAPES POLICY



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**KIM  
LUCAS**

**DIRECTOR OF PITTSBURGH'S DEPARTMENT OF  
MOBILITY AND INFRASTRUCTURE  
CITY OF PITTSBURGH**





# CHATGPT IMPACTS ON PLANNING AND DEVELOPMENT

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SENIOR MANAGER, URBAN  
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URBAN LAND INSTITUTE



**TOM SANCHEZ**

PROFESSOR OF URBAN  
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**EMILY SCHWARTZ**

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