

6 d'abril, 2022

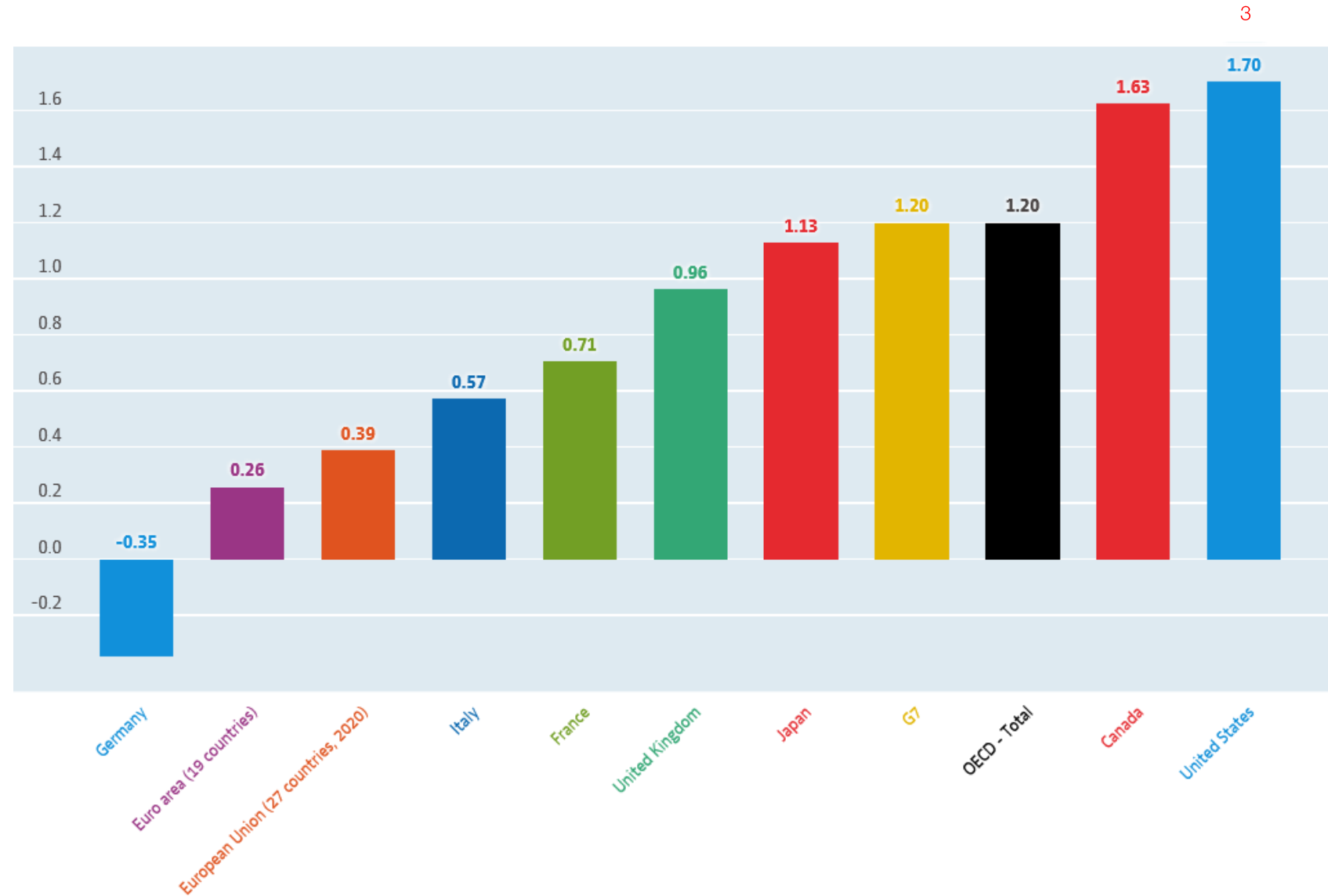
SMART MOBILITY ALS ESTATS UNITS



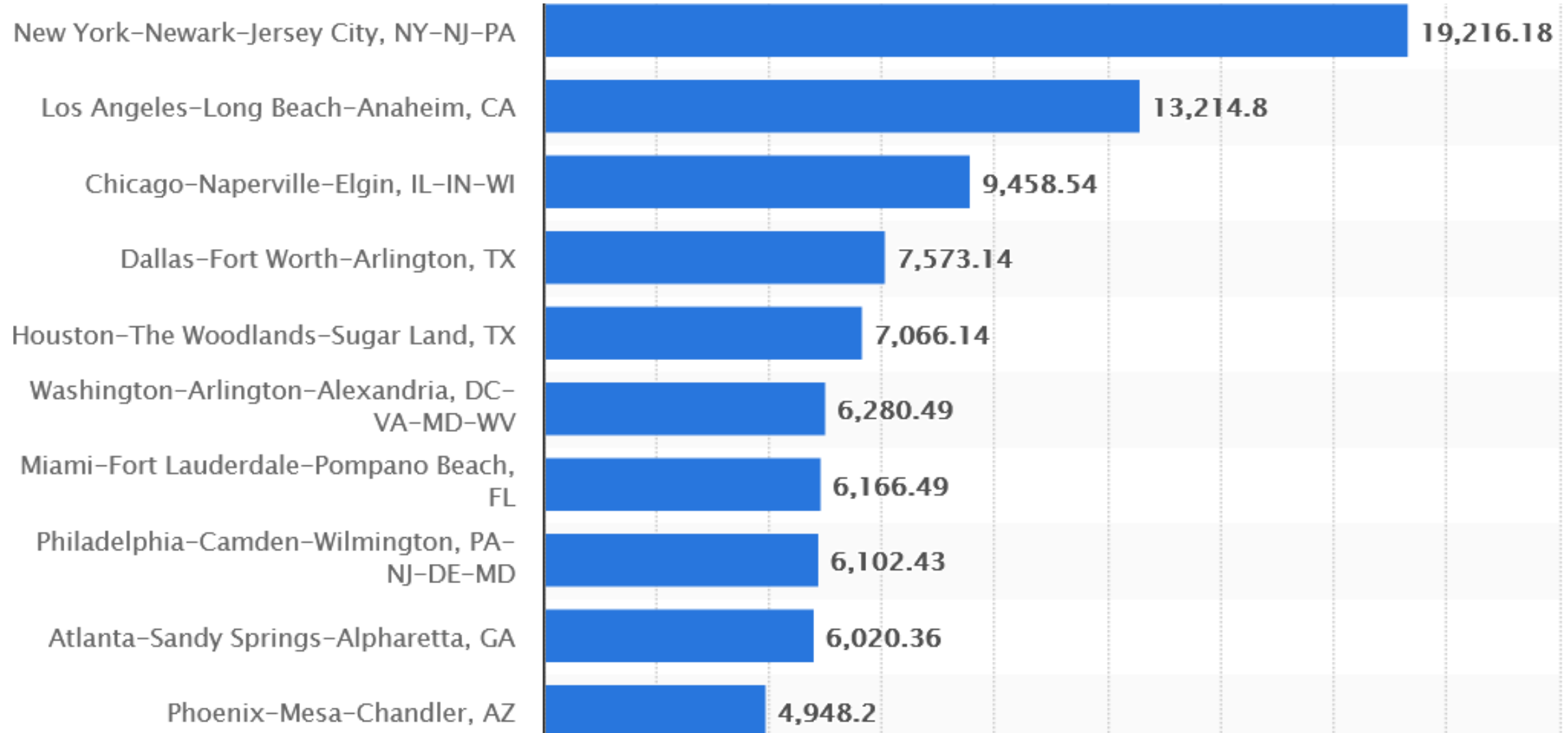
Mapa d'Estats Units



Creixement del PIB el quart trimestre del 2021 dels països del G7



Àrees Metropolitanes més importants dels Estats Units

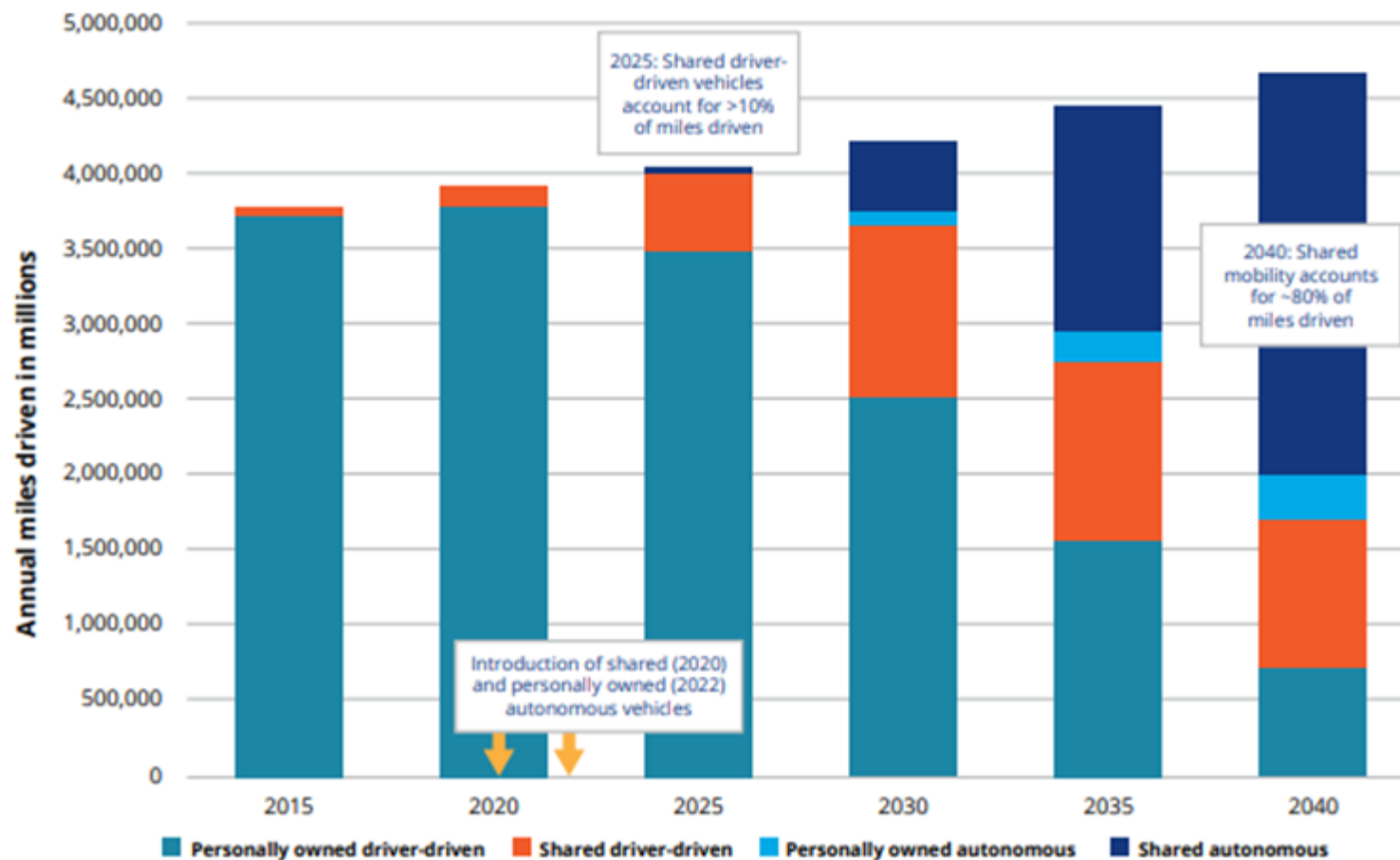


Ciutats amb més trànsit als Estats Units

| City | Impact Rank (2020 Rank) | Hours Lost in Congestion (2021 Rank) | Change from Pre- COVID | Last Mile Speed (mph) |
|-------------|----------------------------|--|---------------------------|--------------------------|
| New York | 5 (3) | 102 (9) | -27% | 12 |
| Chicago | 6 (7) | 104 (7) | -28% | 15 |
| Los Angeles | 33 (37) | 62 (60) | -40% | 22 |
| Houston | 42 (57) | 58 (74) | -29% | 19 |
| Barcelona | 93 (374) | 48 (128) | -38% | 14 |
| Dallas | 97 (63) | 44 (176) | -31% | 19 |
| Madrid | 147 (217) | 39 (233) | -46% | 18 |

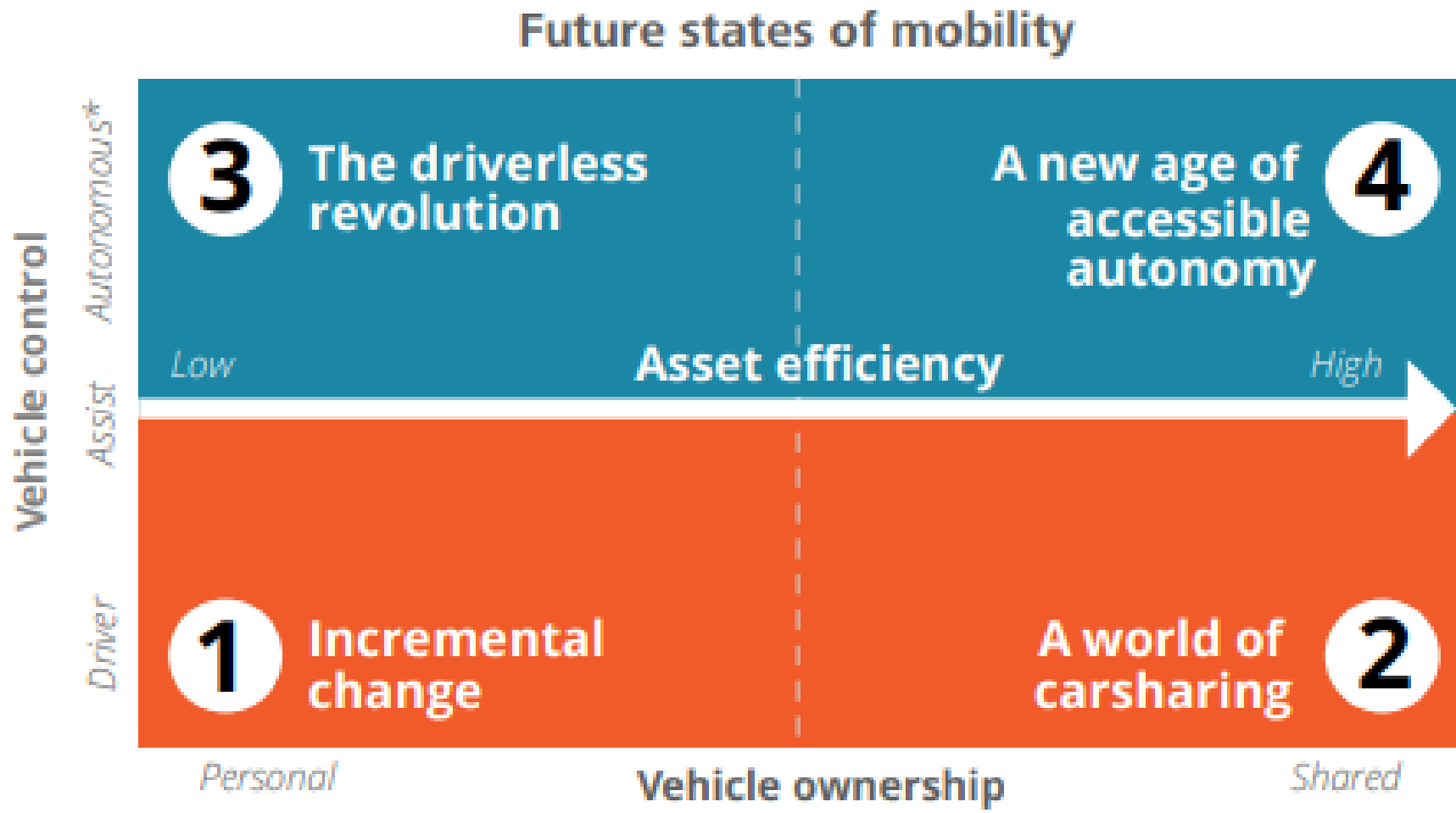
Font: www.inrix.com

Figure 2. Forecast of total miles driven in the United States

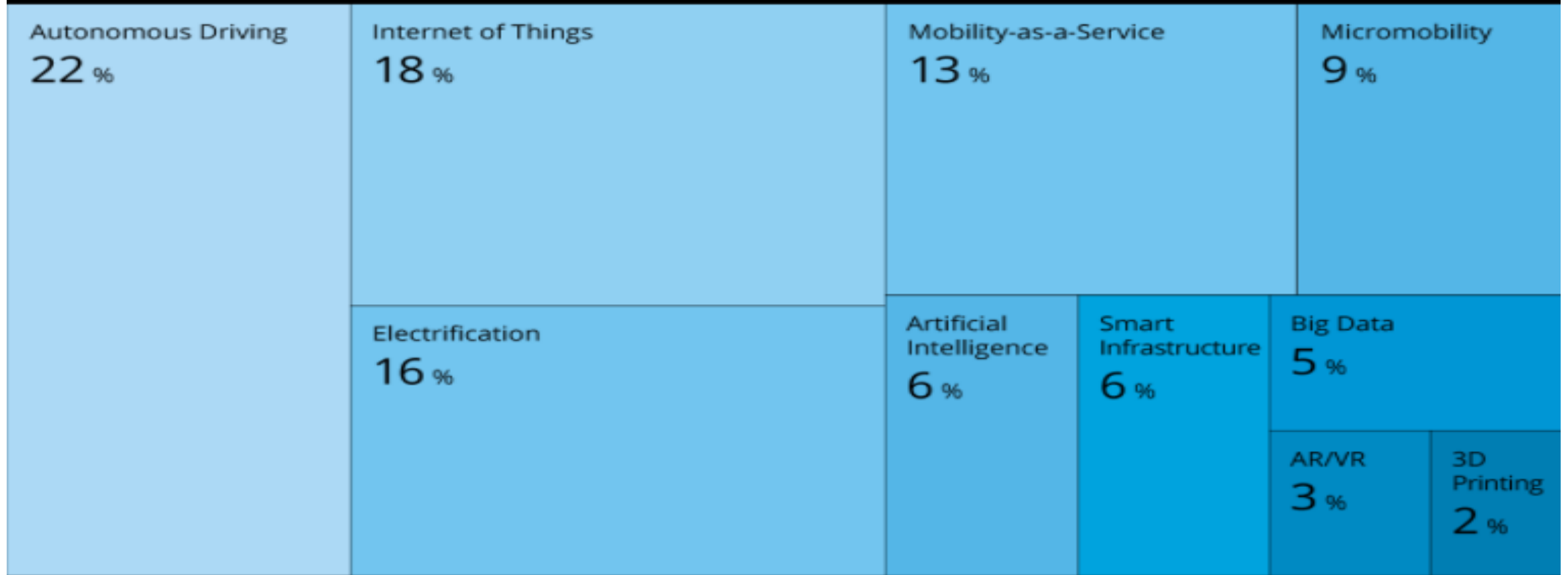


Source: Deloitte analysis based on publicly available information. See appendix for data sources.

Graphic: Deloitte University Press | DUPress.com



Top 10 Mobility Trends & Innovations in 2021



US Department of Transportation

THE U.S. DOT SECRETARY'S PRIORITIES TO IMPROVE OUR TRANSPORTATION SYSTEM



SAFETY: Keeping traveling Americans safe



INNOVATION: Engaging with emerging technologies



INFRASTRUCTURE: Maintaining the nation's infrastructure



The Non-Traditional and Emerging Transportation Technology (NETT) Council:

- identifies jurisdictional and regulatory gaps that may impede the deployment of new technology



The Highly Automated Systems Safety (HASS):

- audit, inspect, and certify the safety of highly automated systems

Innovation @
US DOT



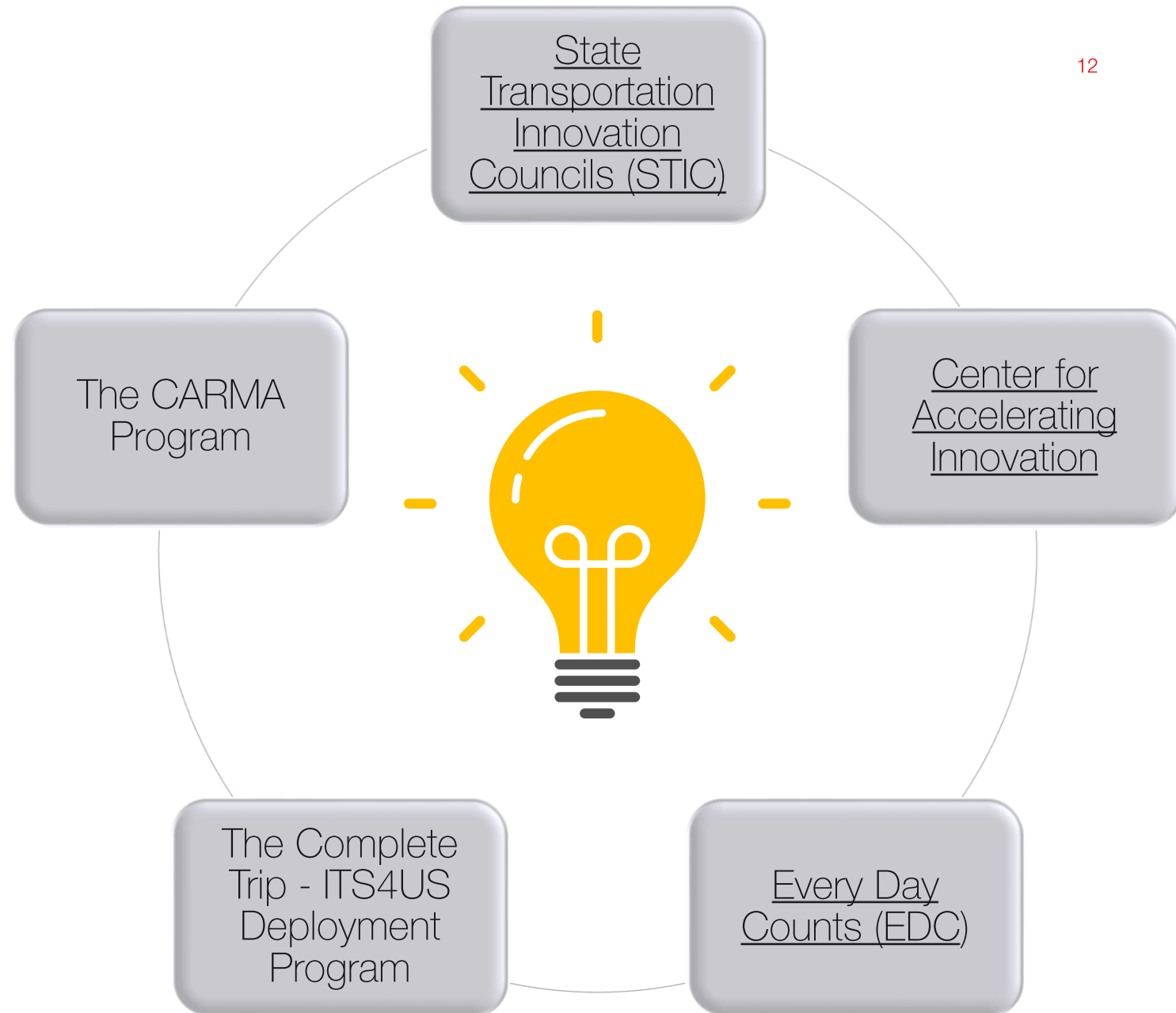
Strategic Transit Automation Research (STAR) Plan

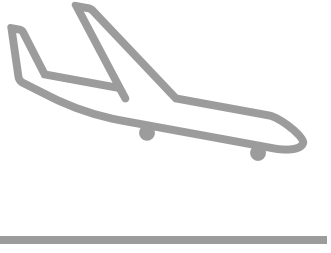


May Mobility

Proves a: Ann Arbor, MI; Grand Rapids, MI; Arlington, TX; Fishers, IN

Innovation @US DOT : Centers & Programs

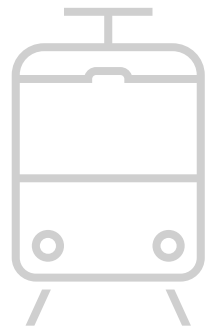




Federal Aviation Administration:
Unmanned Aircraft Systems
Research and Development
Activities

Federal Highway Administration

Artificial Intelligence Integrated
Transportation Management
System (AITMS) Deployment
Program



Federal Railroad Administration
Robust Anomaly Detection for
Vision-Based Inspection of
Railway Components

U.S. DOT Artificial
Intelligence:

Research
Highlights

U.S. DOT Intelligent Transportation Systems Joint Program Office



Over 50,000 participants annually enrolled in U.S. DOT-sponsored ITS training, with 90% of those through free eLearning.

Total national investment in deployed ITS already exceeds \$25 billion in the 75 largest metropolitan areas.



More than 2,000 publications in support of research, development, and promotion of ITS, connected vehicles, and automation technologies.

ITS JPO Research Key Outcomes



Hundreds of gigabytes (and growing) of connected vehicle and ITS data available for research, mining, and testing.



Developed one of the first comprehensive ITS system architecture references and software toolsets to support effective, interoperable ITS implementation; evolved it to accommodate advancing technology and user needs.



In cooperation with standards development organizations, supported development of over 90 stakeholder-consensus, ITS-specific, voluntary technical standards, which have been widely adopted both in the U.S. and internationally.

More than 30 publicly available open-source applications funded by the U.S. DOT to support future research and commercialization of activities.



Infrastructure Investment and Jobs Act: Implementation and Key Resources

3/24/2022



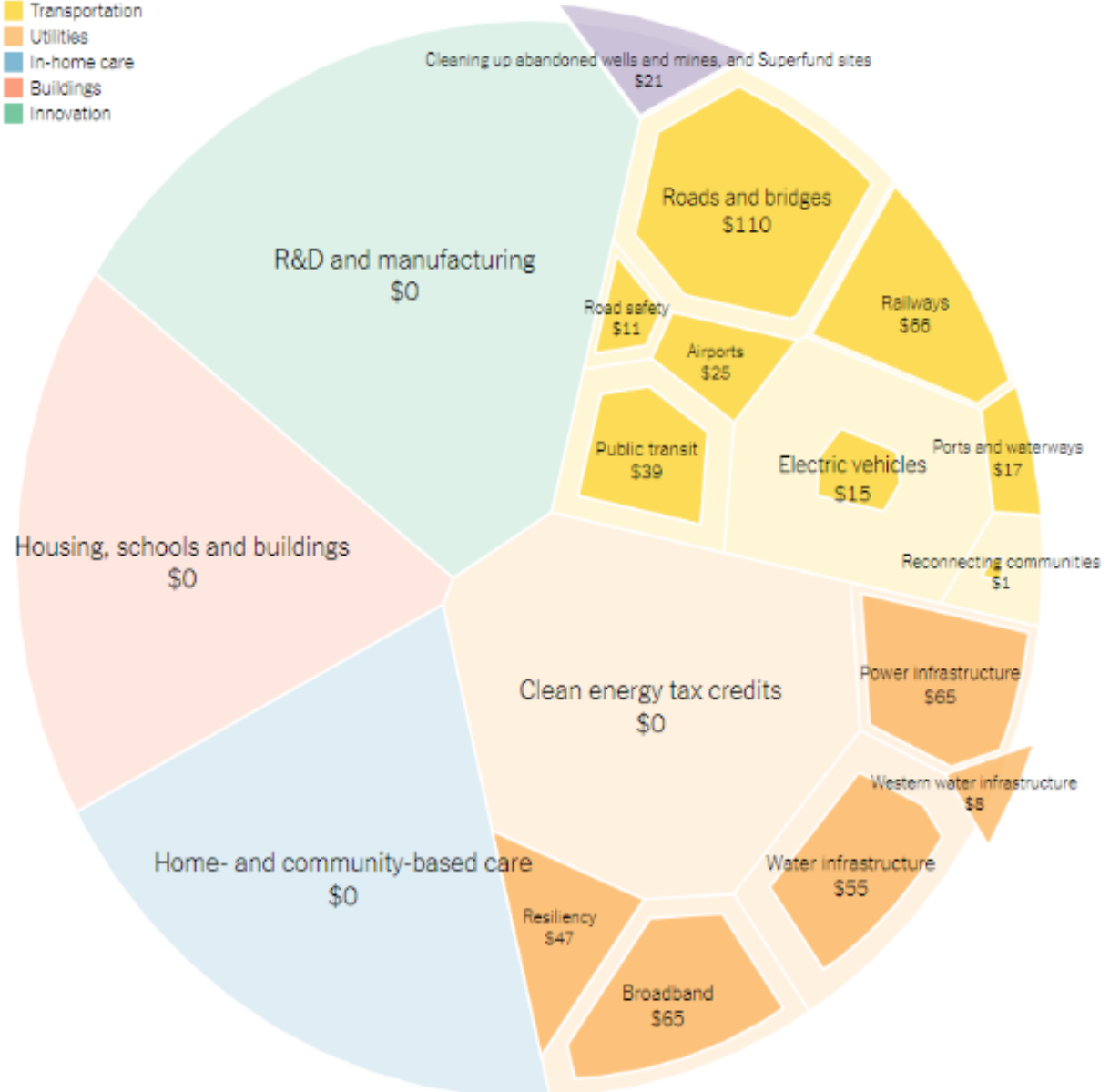


\$1 TRILLION
VS.
\$550 BILLION

Original proposal
\$2,600 billion

Bipartisan plan
\$550 billion

- Pollution
- Transportation
- Utilities
- In-home care
- Buildings
- Innovation



UNIVERSITIES & OPEN INNOVATION CENTERS

R&D and open innovation centers from big corporations in the mobility sector and universities.



**Rudin Center for
transportation policy &
management.**

<https://wagner.nyu.edu/rudincenter>



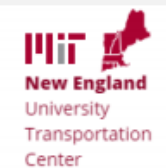
**Toyota Research
Institute**

<https://www.tri.global/>



**MIT Future Urban
Mobility**

<https://fm.smart.mit.edu/>



**New England
University
Transportation
Center**

MOBILITY STARTUP ACCELERATORS

Fixed-term, cohort-based programs that include seed investment, connections, sales, mentorship, educational components, and culminate in a public pitch event or demo day to accelerate growth.

URBAN-X

UrbanX

<https://www.urban-x.com/>



Transit Tech Lab

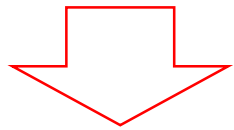
<https://transitinnovation.org/lab>

MC MASSCHALLENGE

MassChallenge

<https://masschallenge.org/>

NY STATE DOT:
Intelligent
Transportation System

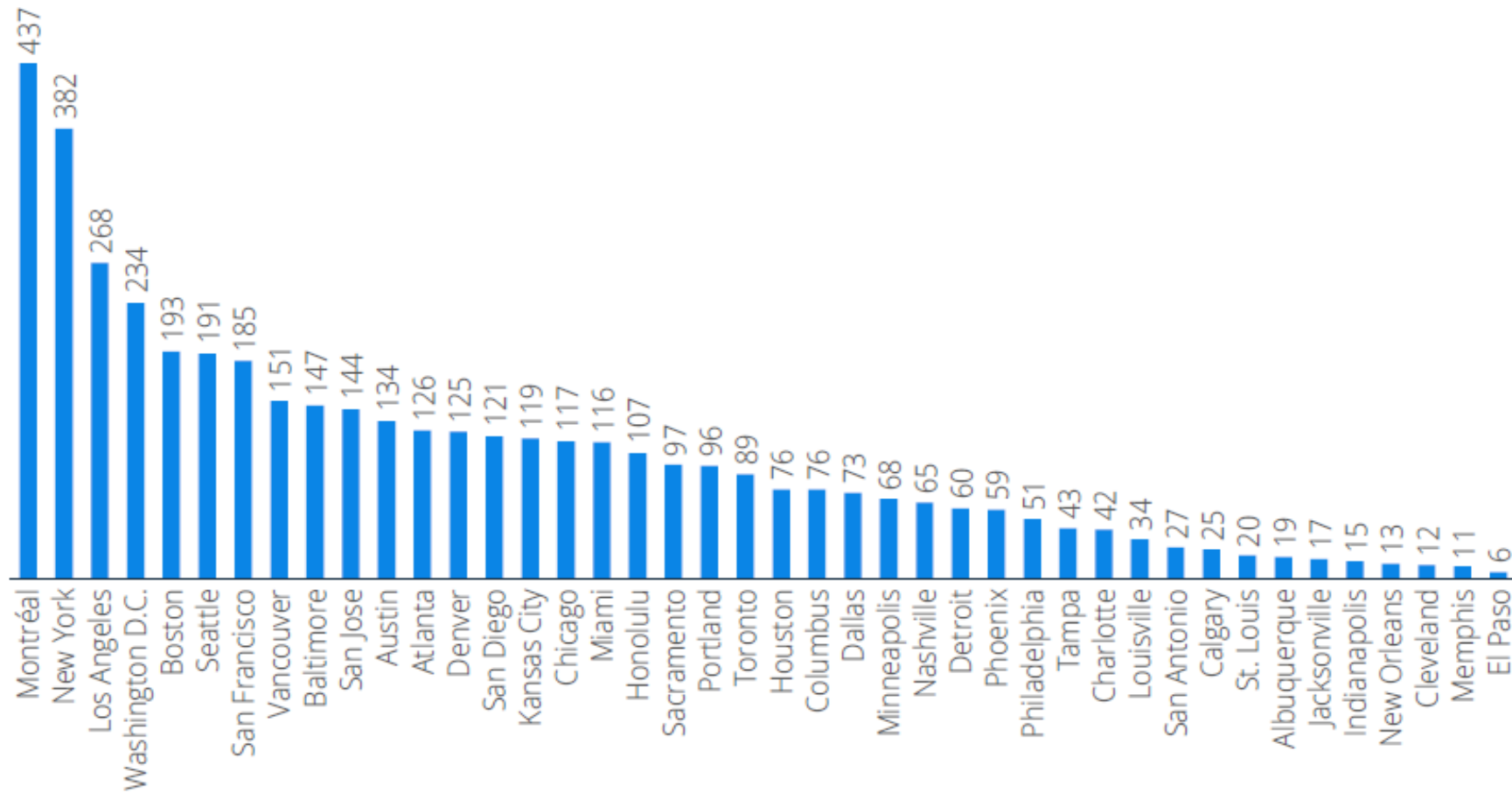


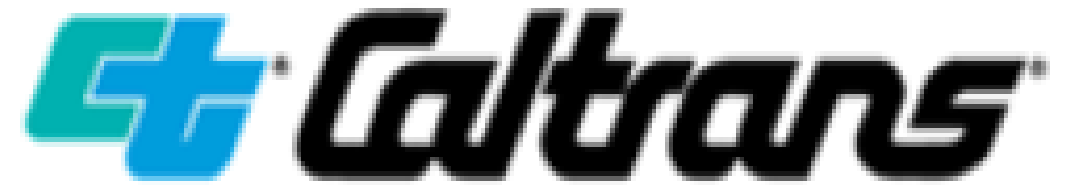
Interés clau: Promoció
de public-private
partnerships

Mobility
Operations
Vehicular Systems
Environment
Safety

New York has more EV charging stations than most big cities in this region

Number of EV charging stations¹ in selected cities from this region in 2020





CALIFORNIA DOT

- **Intelligent Transportation Systems (ITS) Program**
- Improves transportation safety and mobility and enhances productivity through the integration of advanced communications technologies
- ITS encompass a broad range of wireless and wire line communications-based information and electronics technologies.



ITS World Congress 2022

Los Angeles | 18-22 Setembre



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