

# Autonomous Vehicles

Expanding Safe, Sustainable and  
Accessible Transportation

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State & Local



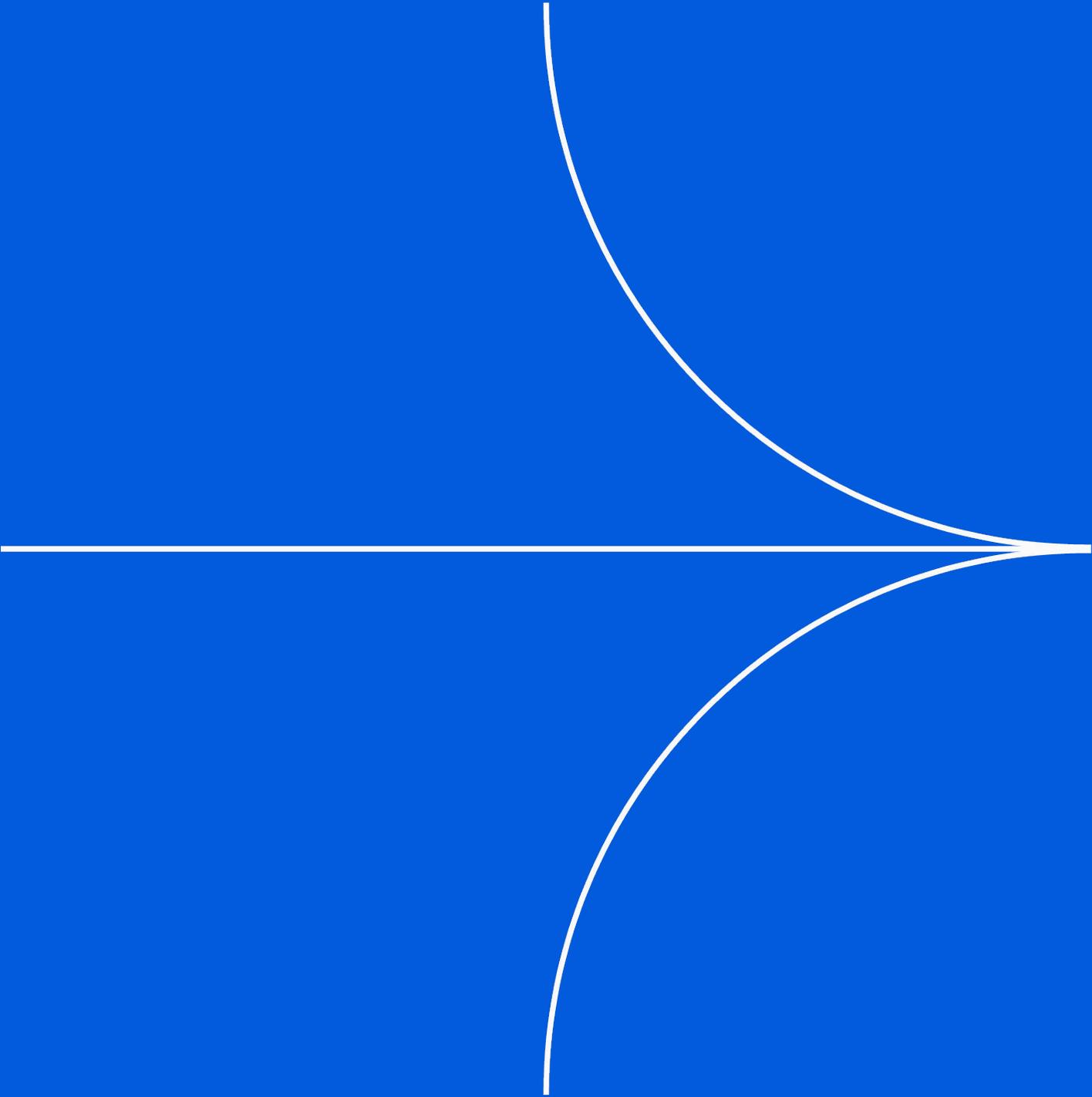
WAYMO



OUR MISSION

Be the world's  
most trusted driver.





# 50m injuries and 1.35m deaths worldwide

**50% of deaths**  
are pedestrians, cyclists  
and motorcyclists

Source: WHO



Speeding



Distraction



Drowsiness



Alcohol

# Our history



**2009**

The Google self-driving car project begins



**2011**

Began developing our hardware and sensor suite in-house



**2013**

Decided to focus on fully autonomous driving



**2017**

Ramp up fully autonomous rides within Waymo One



**2021**

Begin scaling the Waymo Driver to more cities

# Serving riders in —

WAYMO



# Coming soon —

WAYMO



THROUGH JUNE 2025

96M rider-only (RO) miles driven

MORE ON [WAYMO.COM/SAFETY](https://waymo.com/safety)

Compared to an average human driver over the same distance in our operating cities, the Waymo Driver had:

OVERALL CRASH REDUCTION



91%

Fewer serious injury or worse crashes



79%

Fewer airbag deployment crashes



80%

Fewer injury-causing crashes

# Protecting Vulnerable Road Users

Compared to human drivers over **96 million** miles in our operational cities, Waymo Driver had:



**92%**

Fewer crashes with injuries to pedestrians



**78%**

Fewer crashes with injuries to cyclists



**89%**

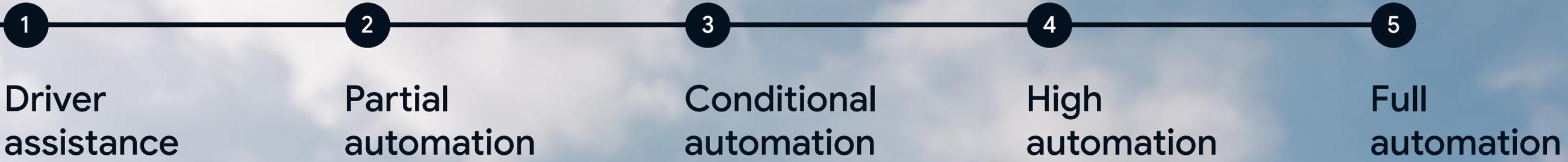
Fewer crashes with injuries to motorcyclists

# Driver assist

HUMAN DRIVER MONITORING

# Fully autonomous

NO HUMAN DRIVER



## Hardware

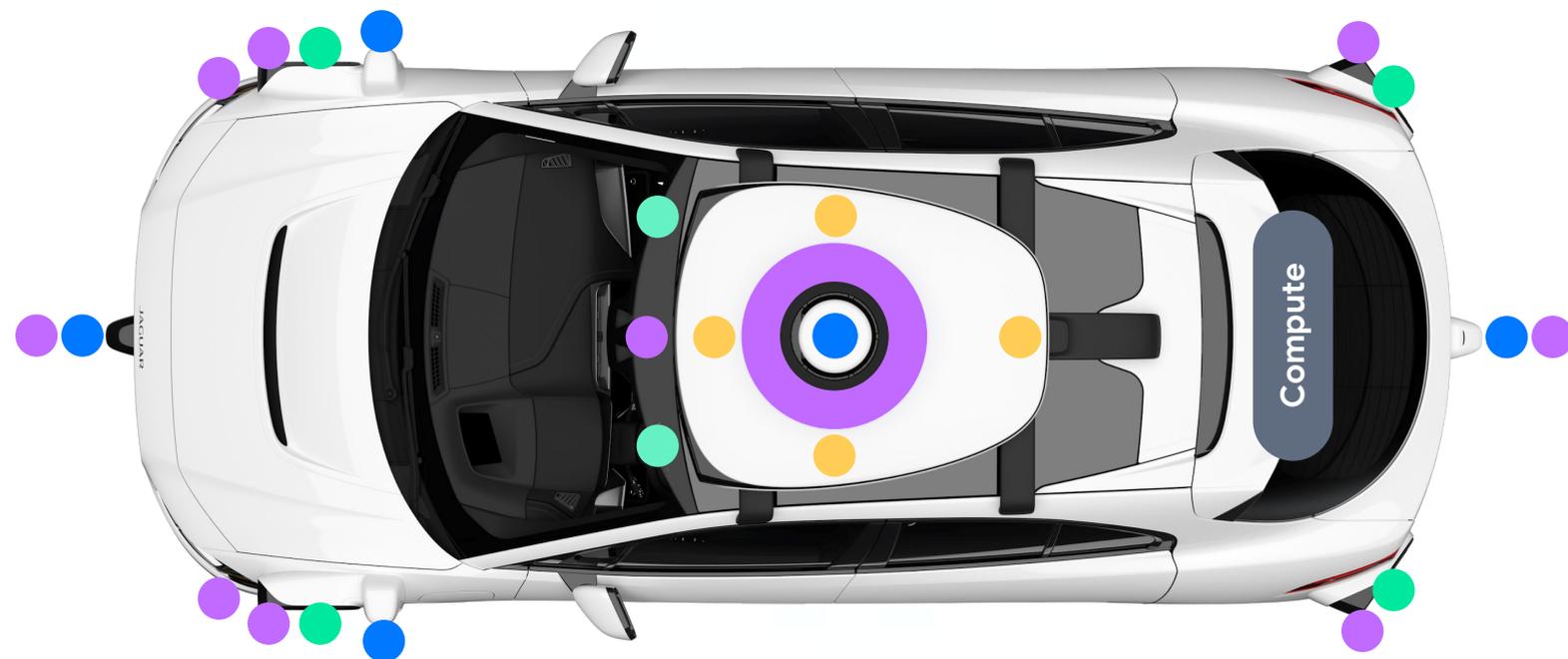
# The Waymo Driver

● Lidar system

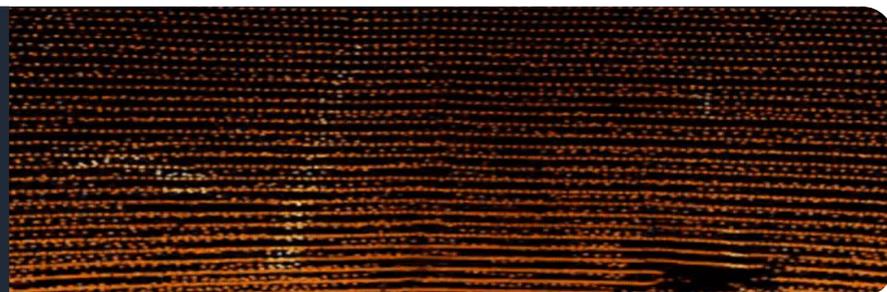
● Radar system

● Vision system

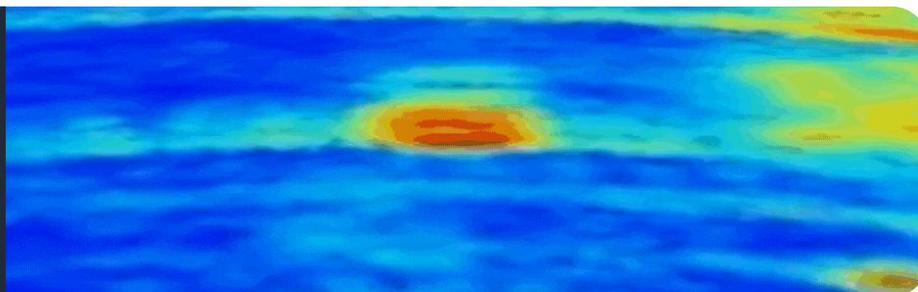
● Microphone system



LIDAR

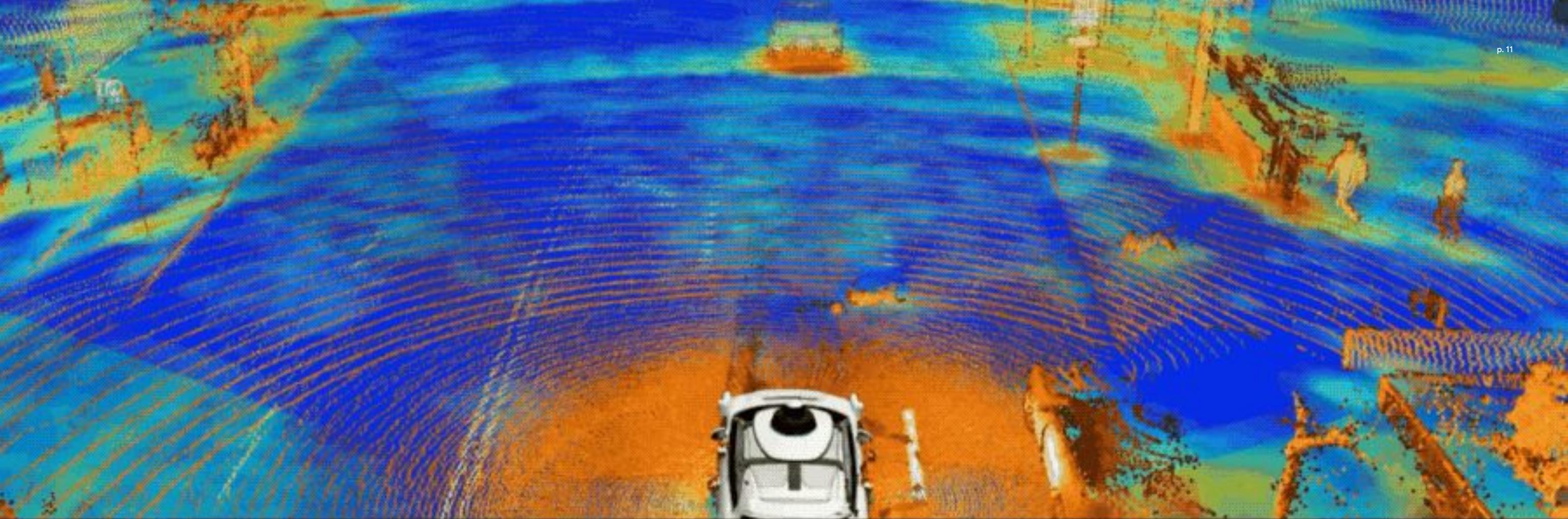


RADAR

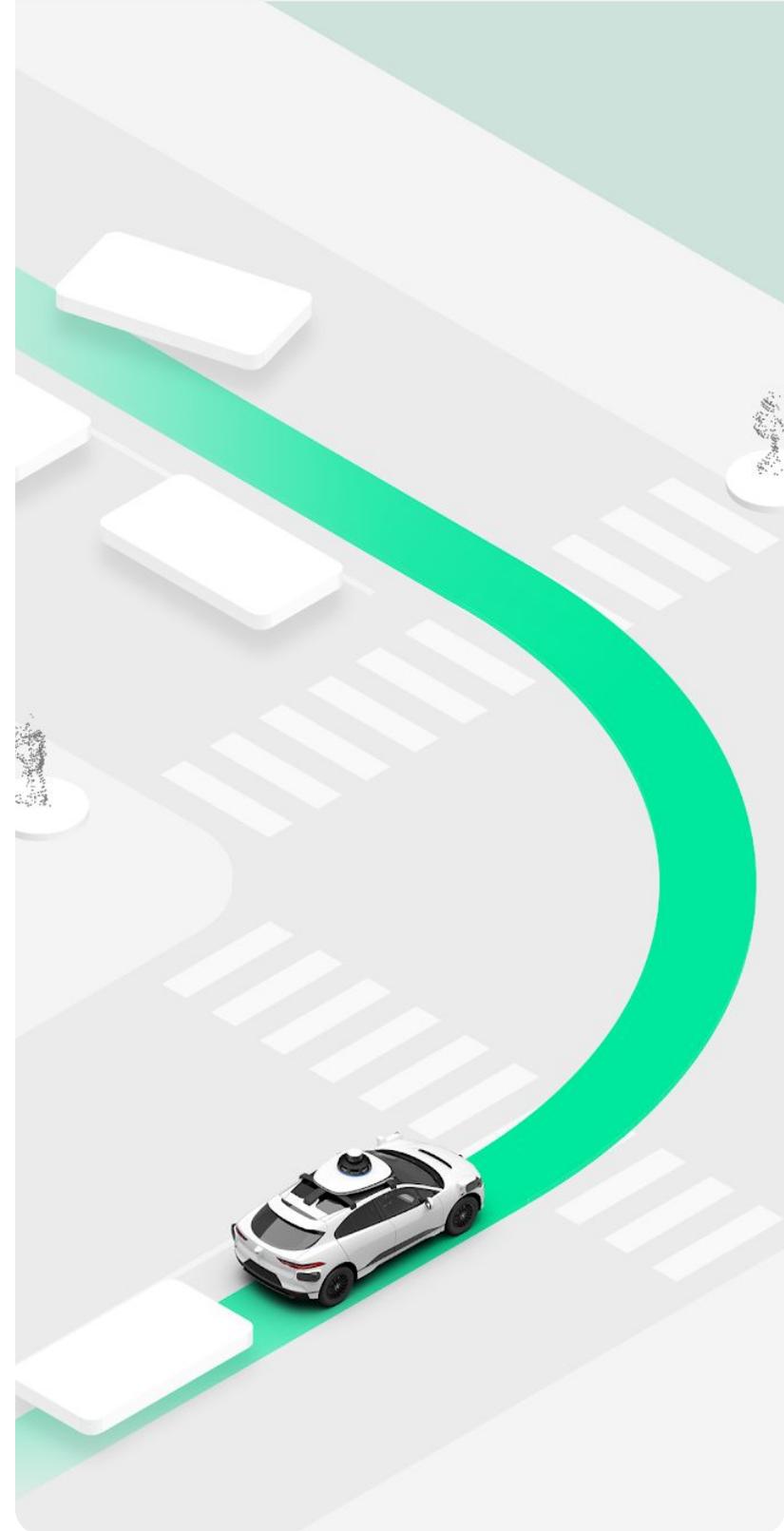


CAMERA





WHERE SHOULD I GO



WHERE AM I

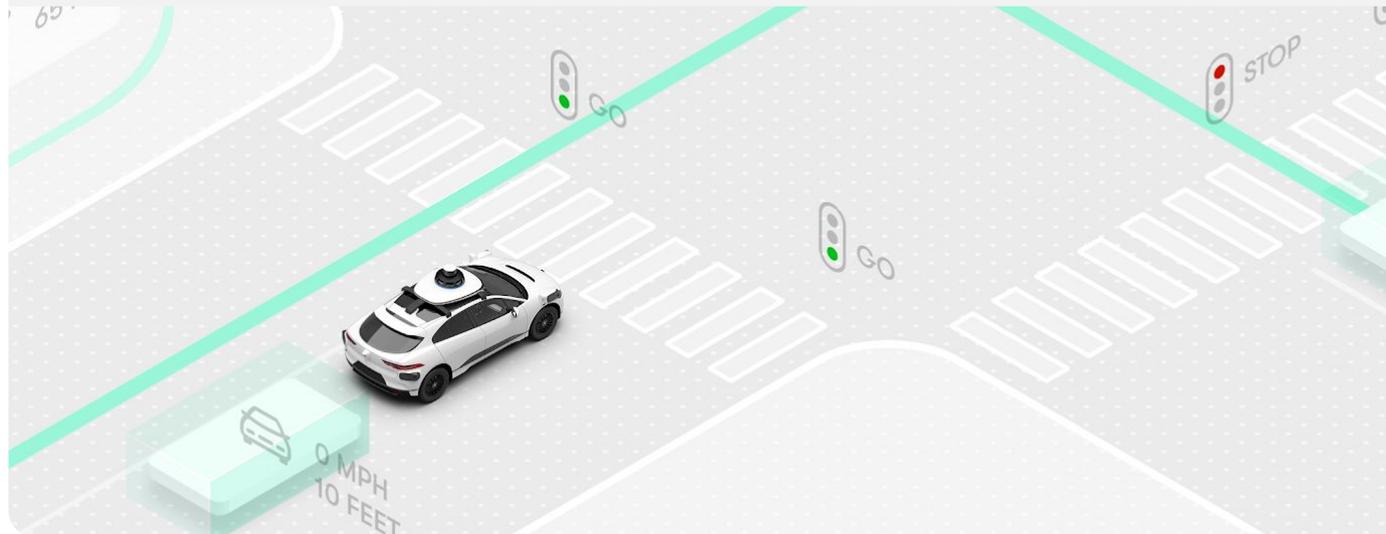


WHAT'S AROUND ME



# Waymo AI in action

WHAT WILL HAPPEN NEXT



**WAYMO**



16/30 mph AUTO





# >20,000

## First responders trained

SINCE APRIL 2021

>150 agencies

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>375 training sessions in 2024

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>30 conferences in 2023-2024

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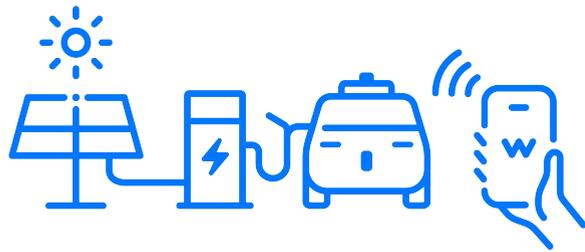
National committees and panels — guiding standardization



WAYMO

Driving a more  
sustainable  
future





**Autonomous shared mobility  
can connect more people to  
the benefits of electric vehicles**

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### Waymo's Shared EV Benefits

- Every 250K Waymo rides avoid 315+ tons of CO<sub>2</sub>
- More clean miles per each EV through a shared electric mobility model
- More accessible to populations unable to purchase or drive an EV
- No charging responsibilities for our riders
- Powered with 100% renewable electricity
- More efficient use of EV critical minerals



**Over one-third of San Francisco riders have used Waymo One to connect to public transit.**

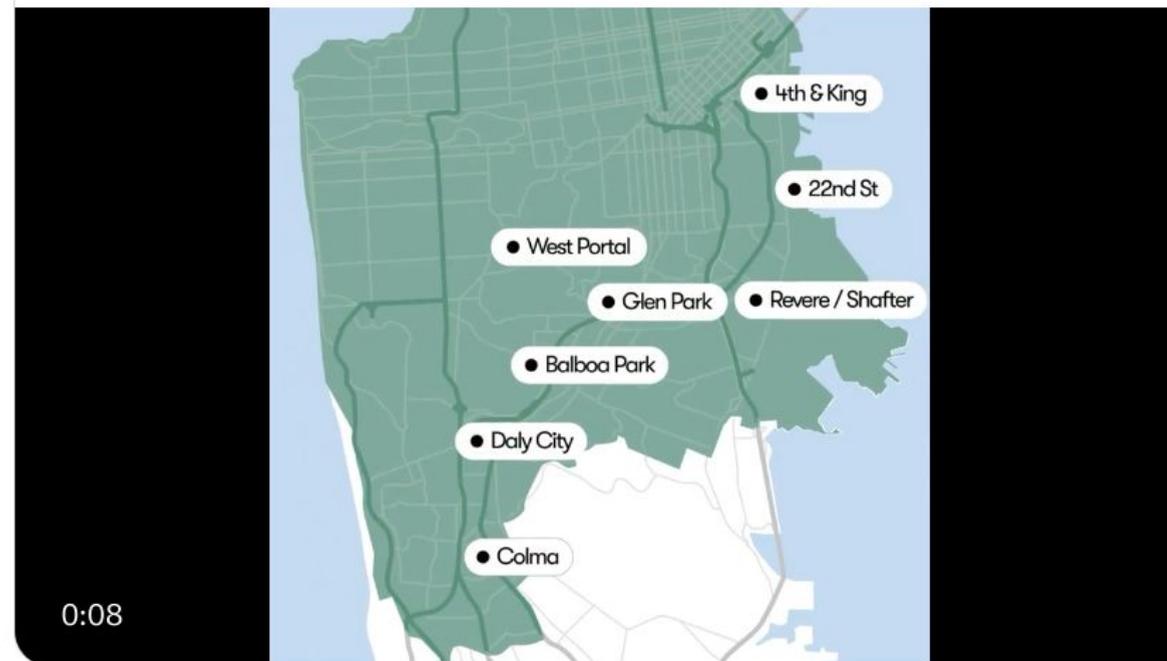
Findings from Nov 2023 Waymo rider survey

# Waymo is testing transit partnerships

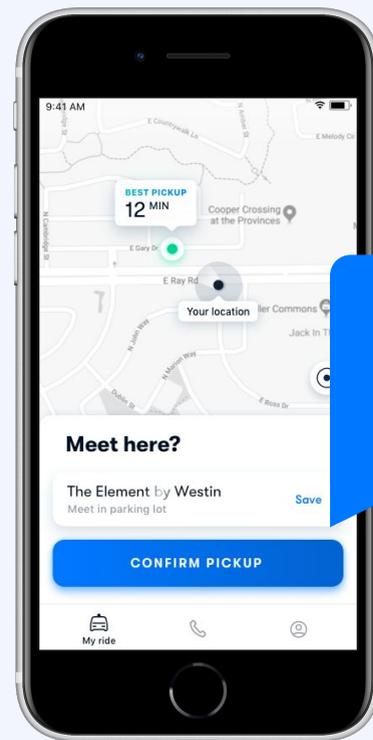
**BART** @SFBART · Oct 25  
Waymo has introduced a promotion aiming to reduce congestion and increase transit ridership by offering a credit for those who use their service to connect with the following BART stations:

- Daly City
- Colma
- Glen Park
- Balboa Park

**Waymo** @Waymo · Oct 17  
Hey San Francisco! Love sustainable transit? Us too. We're giving a \$3 credit for Waymo rides you take to or from select transit stations from October 17 - November 15, 2024. Learn more: [waymo.com/blog/2024/10/c...](https://waymo.com/blog/2024/10/c...)

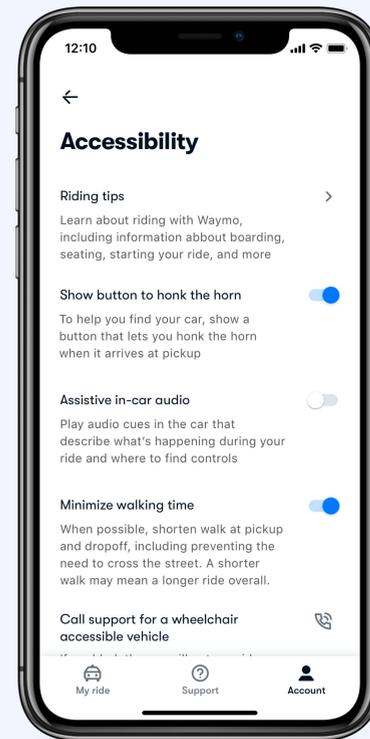


# Designing the Waymo app for accessibility

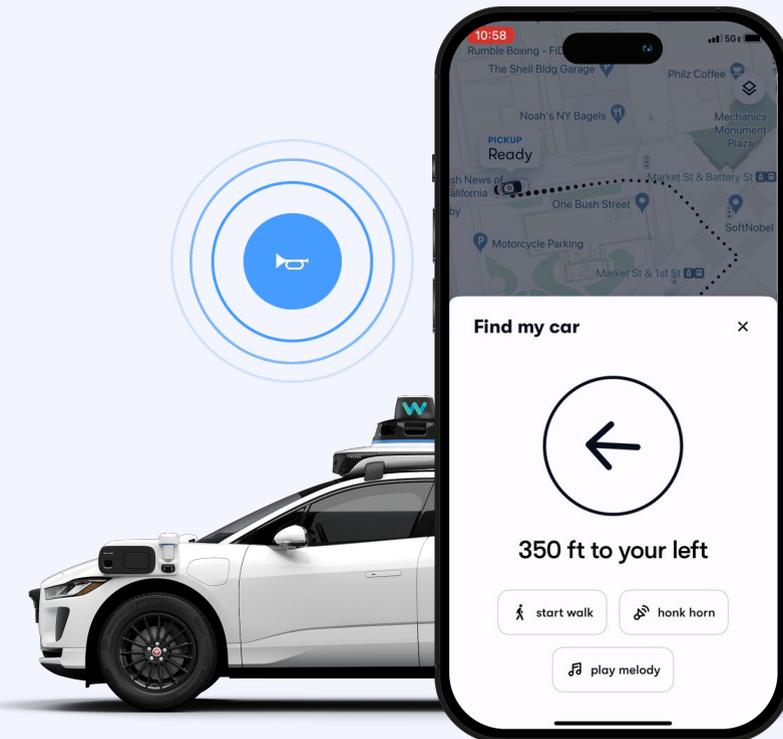


“Confirm pickup button”

Screen reader support



Minimizing walking time



Adaptive app navigation



# Waymo Accessibility Network

The Waymo Accessibility Network brings together disability advocates who share in the mission of improving access, mobility and safety in our communities.

Through the network, Waymo partners directly with organizations that support people of all ages living with physical, visual, cognitive and sensory disabilities.

Meet the current members:

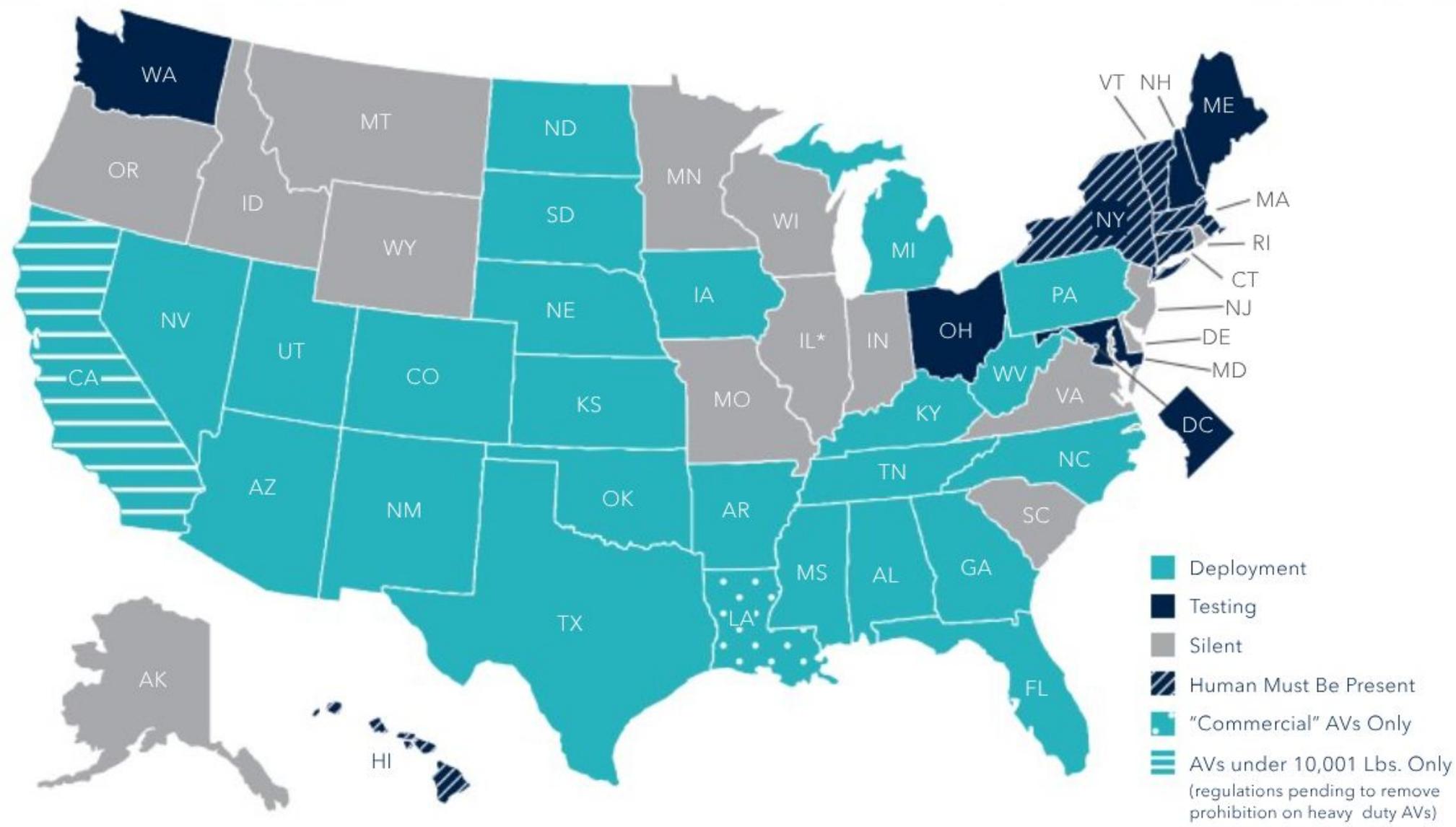


# Autonomous vehicles create jobs and drive tourism

- **Jobs:** Waymo's first Economic Impact Report shows that Waymo is a powerful economic engine for the cities where we operate.
  - Waymo's 2024 footprint in San Francisco creates or supports **2,100 jobs** across Waymo and a variety of industries (e.g., tourism, automotive, hospitality, security, food service, and more), resulting in **\$230 million** in annual employment-related income and **\$290 million** in annual economic output within the City and County of San Francisco.
- **Tourism:** Waymo One is becoming a "must-see" tourist attraction, similar to iconic landmarks, hotels, and parks.
  - December 2024 saw **718 downloads at the SFO airport** – demonstrating a clear desire to use Waymo as soon as wheels hit the ground.
  - Every Waymo ride generates economic benefit for the SF Bay Area, culminating in nearly **\$40 million in economic output** associated with visitor demand.

Source: Waymo and AECOM research

# More than two dozen states have passed legislation authorizing autonomous vehicles



WAYMO



Thank you.

