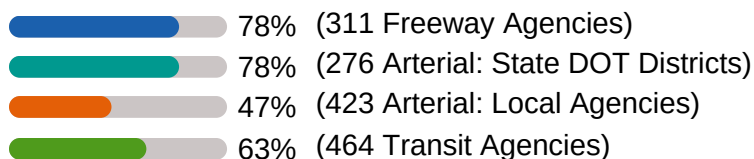


2023 ITS Deployment Tracking Survey

Freeway, arterial, and transit management agencies nationwide were surveyed about their Intelligent Transportation Systems (ITS) deployment. For the first time, the 2023 ITS Deployment Tracking Survey measures ITS deployment in smaller urban and rural areas in addition to large metropolitan areas.¹

Overall Survey Response Rate

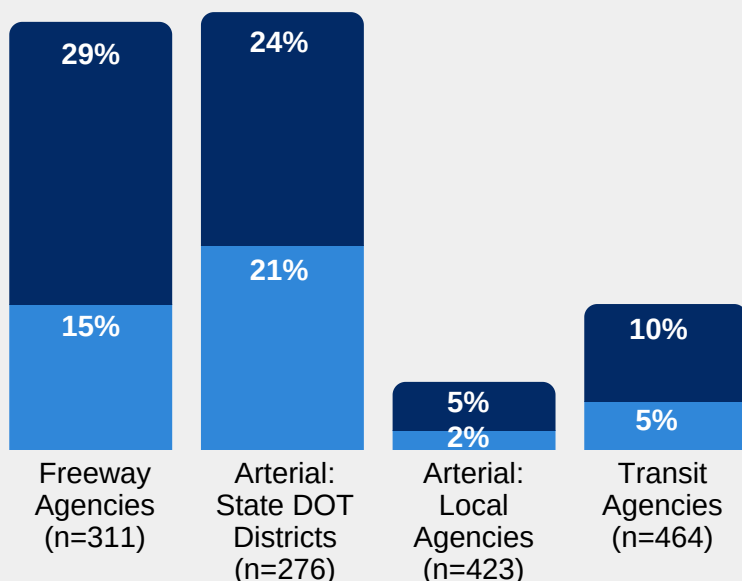


Connected & Automated Vehicle Technologies: Freeway, Arterial, and Transit Management Agencies

The 2023 ITS Deployment Tracking Survey asked all agencies about their deployment of connected vehicle (CV) and automated vehicle (AV) technologies.²

Developing, Testing, or Deploying CV Technologies

- Currently developing, testing or deploying CV
- Planning for CV



Freeway agencies and **State DOT districts managing arterials** reported similar levels of engagement with CV technologies.

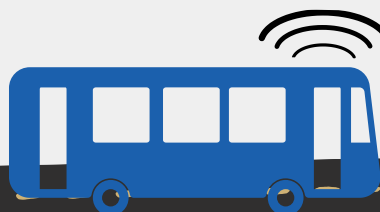
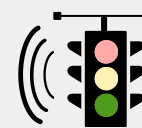
About one fifth of State DOT districts managing arterials (21%) and nearly as many freeway agencies (15%) are **currently developing, testing, or deploying CV**.

In addition, 24% of State DOT districts managing arterials and 29% of freeway agencies are **planning for CV**.

Transit agencies and **local agencies** are significantly less likely to be either developing, testing, or deploying CV or planning for CV.

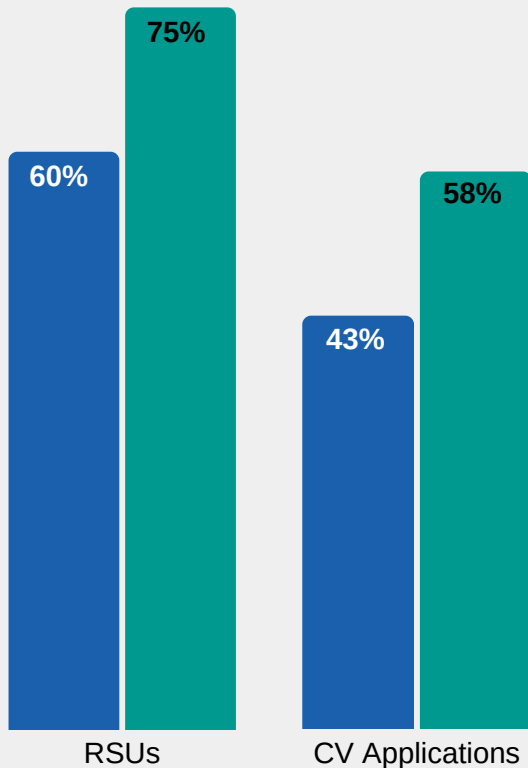
¹ [Click here](#) for more about the change in survey methodology.

² All data for local agencies (arterial) and transit agencies are weighted. [Click here](#) to see the reports for more details.



Deployment of RSUs and CV Applications

- Freeway Agencies Deploying CV (n=47)
- Arterial: State DOT Districts Deploying CV (n=57)



Among **freeway agencies** and **State DOT districts managing arterials** that are developing, testing, or deploying CV technologies, large majorities reported deploying **roadside units (RSUs)** in support of their CV and/or AV technologies, while fewer are currently developing, testing, or deploying **CV applications**.

The top 3 CV applications reported by each agency type in 2023 are as follows:

Top 3 CV Applications on Freeways

Agency data applications (8 agencies)
Road weather warnings (8 agencies)
Queue warnings (7 agencies)

Top 3 CV Applications on Arterials by State DOT Districts

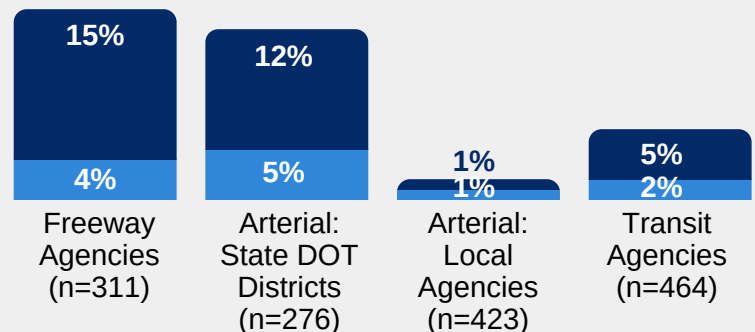
Emergency signal preemption (21 districts)
Transit signal priority (16 districts)
Pedestrian in signalized crosswalk warnings (13 districts)

Leading or Supporting AV Testing in the Last 5 Years

Freeway agencies and **State DOT districts managing arterials** are more active than either **local arterial agencies** or **transit agencies** leading or supporting AV testing or deployment in the last five years.

In the last five years, 4% of freeway agencies are **leading** and 15% are **supporting** AV testing or deployment. Similarly, for State DOT districts managing arterials, 5% are **leading**, and 12% are **supporting** AV testing or deployment.

- Leading AV testing/deployment
- Supporting AV testing/deployment



Note: Respondents could select both **leading** and **supporting**, if applicable.

Reports, data, and more available now!

Go to: www.itskrs.its.dot.gov/deployment/2023DTS.