Traffic Management Tool Information

Smart Commutes, Smarter Cities: A Government and Business Partnership

Bailey Johnson, Julia Niederman, Abigail Oyekola, Çiğdem Patlak

ABOUT THE TOOL

The Traffic Management Tool is a first-of-its-kind solution. No other city currently integrates shared employer return-to-office (RTO) scheduling data into congestion modeling in a systematic way. As a result, there is no existing tool that incorporates such granular commuter data into artificial intelligence (AI) based predictive traffic models.

The following interface mockup represents a preliminary user experience (UX) draft of the first platform to do so. It is designed for use by all members of the proposed government–business partnership.

We recommend that the Office of Artificial Intelligence Policy (OAIP) own and maintain the tool, with data compilation support from the Utah Department of Transportation (UDOT). The OAIP would provide authenticated access to participating employer partners, enabling them to engage directly with the platform and collaborate with government stakeholders on the development and adjustment of RTO policies as they evolve.

INTERFACE DRAFT FUNCTIONALITY

- **Integrated Policy Data:** Employer hybrid and in-person work schedules would be layered onto existing predictive traffic models, enabling more accurate and fine-grained views of commuter patterns.
- **Dynamic Visualization:** In addition to standard congestion overlays, the tool would visualize changes in traffic flow by day of the week and time of day, based on aggregate employer RTO schedules.
- **Interactive Dashboard:** Users could toggle between days of the week and use a time-of-day slider to see projected congestion levels by day specific predictive modeling.
- **Color coded Display:** Congestion levels would be visually represented with a clear color coded system, available in both light and dark mode.
- **Simulation Integration (Optional):** An advanced add-on would include traffic simulation capabilities, allowing users to view predicted congestion at key junctions along specific commuter corridors.
- **User Features:** Includes tooltips, help guides, and secure authentication. Users could save custom views to monitor specific routes or compare progress over time.

1. Tool Information
2. Account Login
3. Congestion Level Key
4. Pattern Comparison: Day Toggle and Hour Slider
5. 3D Traffic Simulator Software Integration
6. User Bookmarked Map Views
7. Predicted Congestion View
8. Pinned Partner Employer Locations
9. Map Controls

Policy Primer

OPERATIONAL DOCUMENT

ABOUT THE ASPEN POLICY ACADEMY

The Aspen Institute's Policy Academy helps community leaders and experts across the political spectrum elevate their voices, influence key decisions, and strengthen democracy from the ground up. Our innovative training programs and resources equip people across sectors – from tech to the environment, science to civic engagement – with the skills to shape critical policy efforts. Learn more at aspenpolicyacademy.org.

ASPEN POLICY ACADEMY
aspen institute

aspen institute