



# POSITIONING, NAVIGATION AND TIMING & SPECTRUM MANAGEMENT



The Office of Positioning, Navigation, and Timing (PNT) & Spectrum Management within OST-R coordinates the development of departmental positions on PNT (including GPS) and spectrum policy to ensure safety, mobility, and efficiency of the transportation network.

OST-R represents the civil Departments and Agencies in the development, acquisition, management, and operations of GPS, including requirements development.

PNT and radiofrequency spectrum management services are critical to the safe operation of transportation infrastructure and involve cross-cutting technology that supports multi-modal applications.

We lead the Department's broad responsibilities on PNT matters, including developing civil GPS requirements, coordinating civil PNT funding, addressing PNT resiliency such as GPS backup/complementary PNT, providing civil PNT systems analysis and influencing the evolutionary future path of PNT for all Federal civil Departments and Agencies.

In addition, the Office of PNT & Spectrum Management works closely with the Intelligent Transportation Systems Joint Program Office (ITS JPO), the Federal Highway Administration (FHWA), and the National Highway Traffic Safety Administration (NHTSA) to ensure access to spectrum for ongoing deployments supporting safety critical communications such as Vehicle-to-Vehicle (V2V), Vehicle-to-Infrastructure (V2I), and Vehicle-to-Everything (V2X) applications.

## **The Office of PNT & Spectrum Management also is responsible for:**

**The Federal Radionavigation Plan (FRP)**, developed by the U.S. Department of Transportation (DOT), the U.S. Department of Defense (DoD), and the U.S. Department of Homeland Security (DHS) to reflect the policy and planning for present and future federally provided PNT systems.

**Spectrum analysis and testing for GPS and V2X Technologies** to ensure operations free from harmful interference.

**National Coordination Office (NCO) for Space-Based PNT**, DOT partners with DoD to provide annual funding to support the NCO to ensure interagency transparency about Space-based PNT programs, policies, budgets, and activities.