



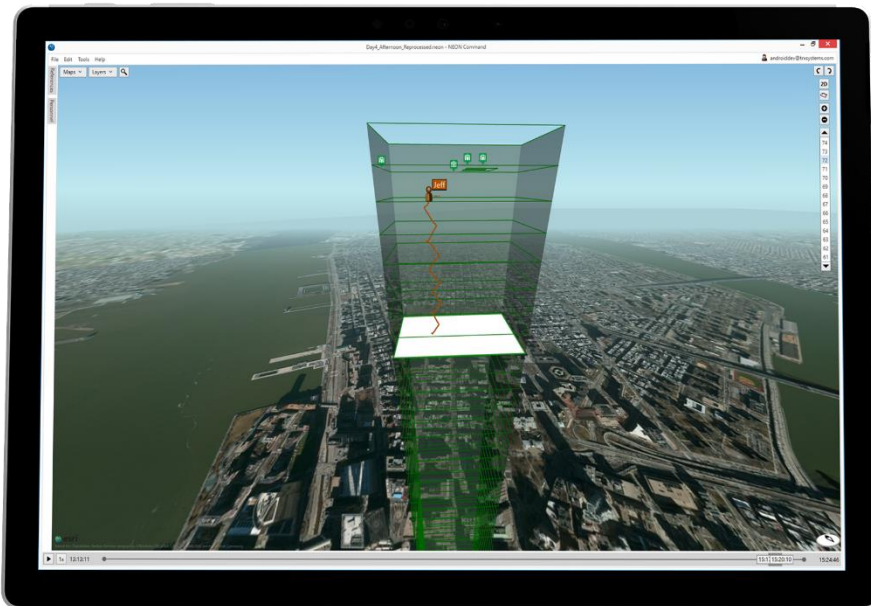
GPS-Denied Tracking at Thunderstorm 18-2



Military and first responders face daunting challenges when they are forced to operate in GPS-denied environments and are unable to be tracked adequately. Environments such as tunnels, buildings, and urban canyons can hamper a team's accountability and situational awareness for public safety operations.

Thunderstorm 18-2 Dense Urban and Subterranean Technologies (DUST) Demonstration is an exercise that provides an opportunity for technology companies to demonstrate new and evolving product capabilities in an operationally relevant environment, as well as to obtain insight into federal technology gaps and emerging needs. The demonstration occurred in GPS-denied environments across New York City including tunnels, transit hubs and large commercial buildings. Thunderstorm 18-2 focused on a number of important new technologies:

- Positioning and navigating in GPS-denied environments
- Real-time mapping of tunnels and buildings
- Visualization of location and mapping data to improve general situational awareness



At Thunderstorm 18-2, NEON® Personnel Tracker was used to track personnel within challenging indoor, underground, and urban GPS-denied environments. Personnel Tracker showcased ability to improve safety and situational awareness in some of the most challenging GPS-denied environments in NY City by tracking personnel throughout deep subterranean environments, including the Metropolitan Transportation Authority East Side Access, as well as an 80-story skyscraper.



NEON Personnel Tracker delivers 3D mapping and location in environments where GPS is unavailable or unreliable such as inside large buildings, in stadiums and in underground locations. By delivering user location data in these "GPS-denied" environments, NEON improves both command effectiveness and safety for public safety and security personnel. NEON Personnel Tracker delivers 3D location and allows for tracking and visualization of personnel in complex indoor and outdoor environments.

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