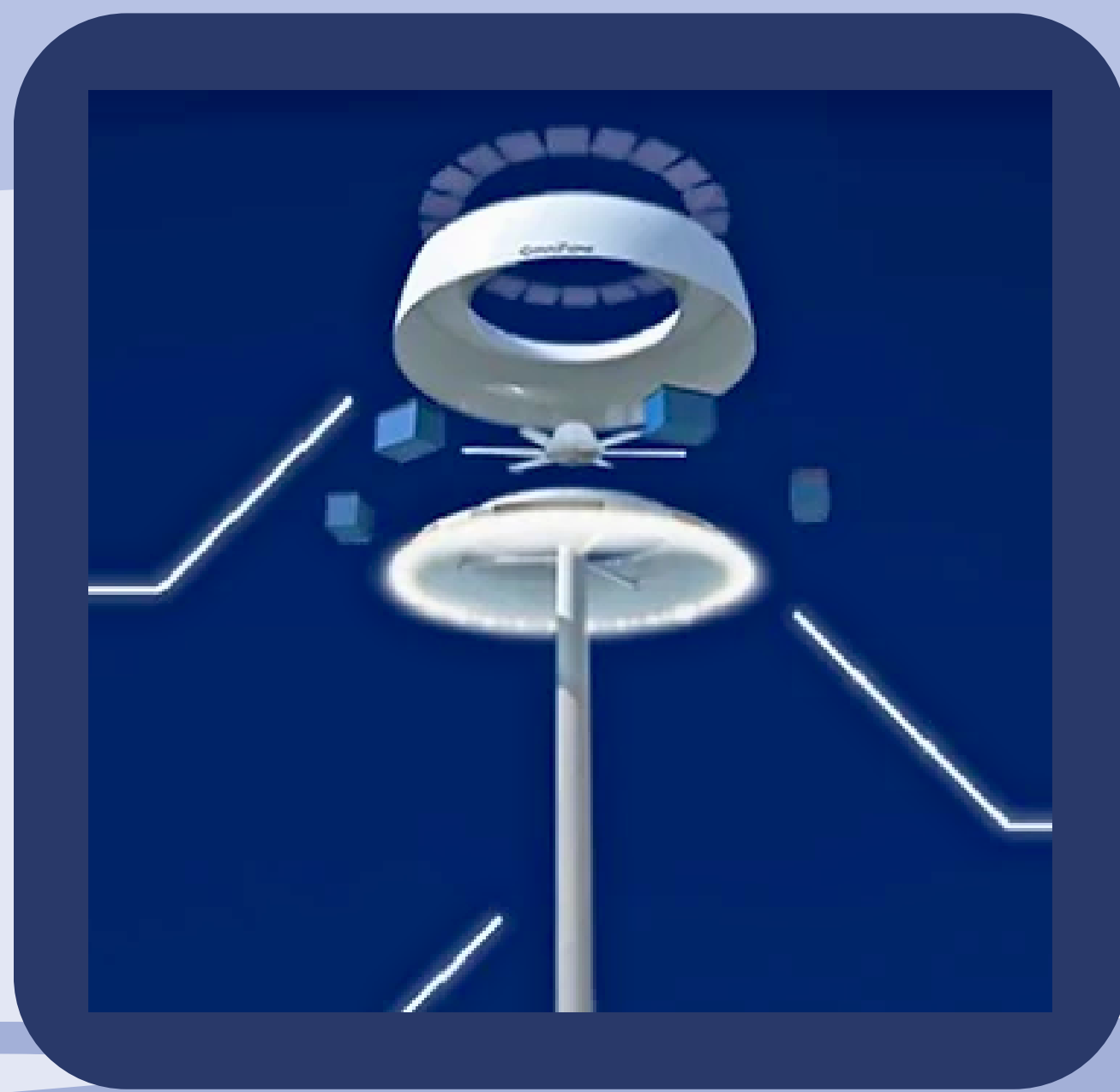


What is Light Detection and Ranging (LiDAR)?

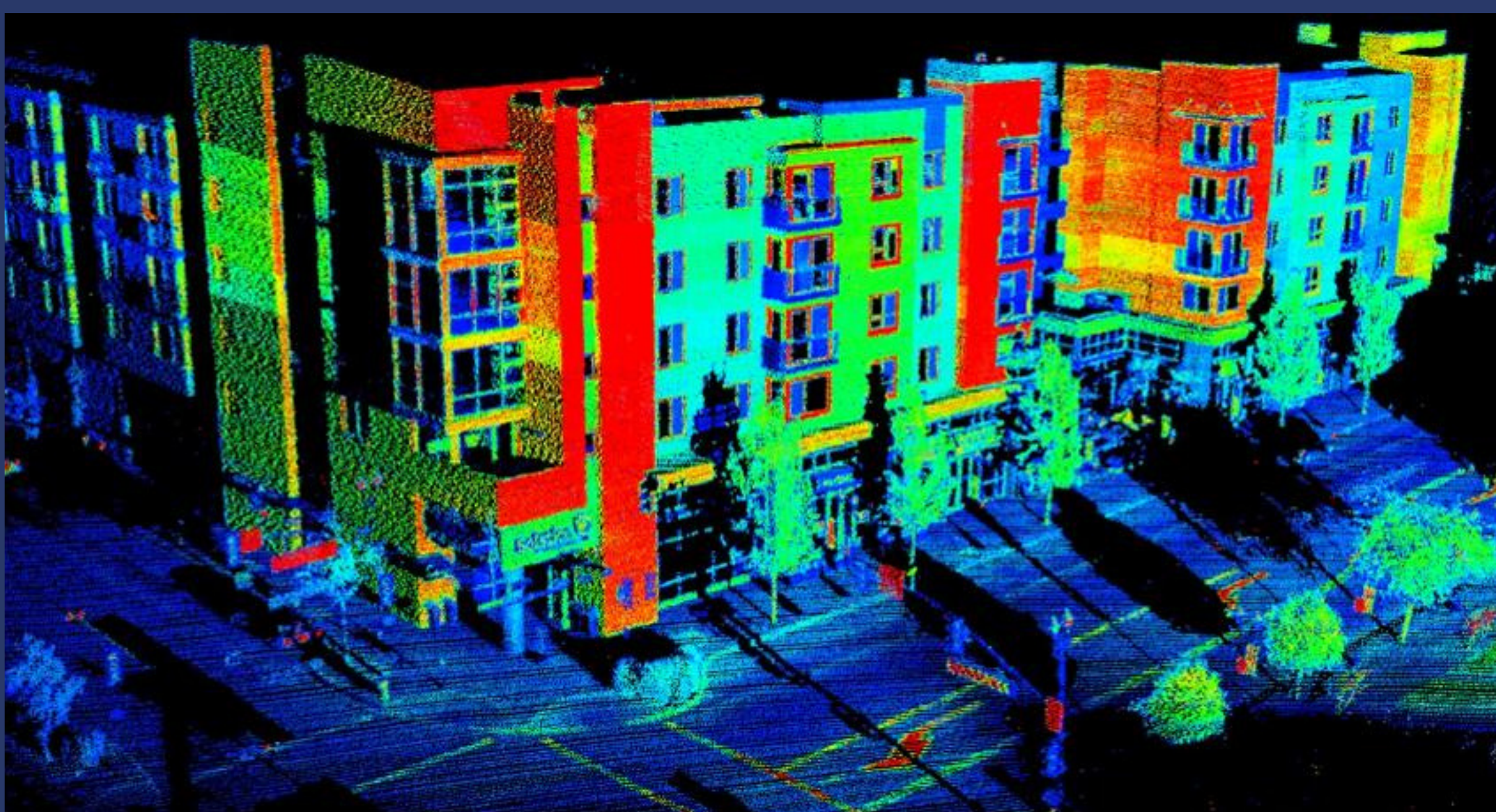
LiDAR is a remote sensing method that uses light in the form of a pulsed laser to measure distances from the earth.

A LiDAR instrument typically consists of a laser, a scanner, and a GPS receiver.



LiDAR sensors for NDOT will be used to identify safety incidents and “near-miss” data at intersections and mid-block crossings along the project corridor in North Nashville.

They can also be used to pin-point where and when vehicle speeding is occurring.



LiDAR sensors can be used to increase safety for vulnerable roadway users, such as pedestrians and bicyclists - even in dark conditions.



Because LiDAR used today does not allow for facial recognition, these “smart city” applications provide complete anonymity among the public.

What's Next?

- NDOT plans to apply for SMART Grant Phase II through USDOT in 2024
- We hope to apply the successes of LiDAR and other smart technologies to other areas of Nashville to continue making our streets safer for all