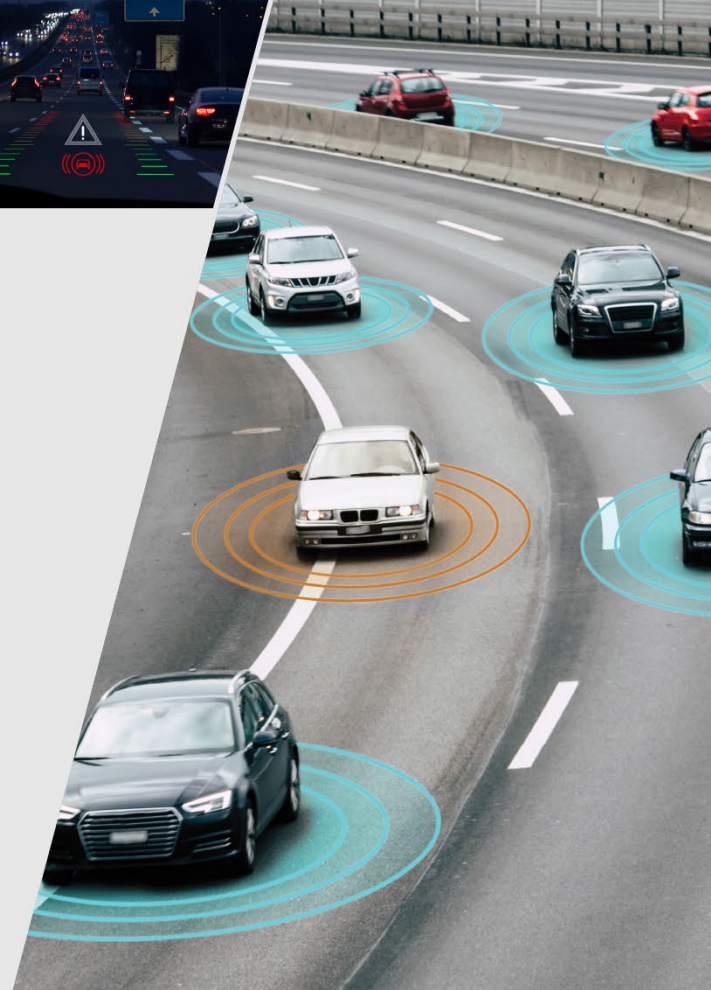




# Transportation Innovation in Texas

Darran Anderson, Director of Strategy and Innovation

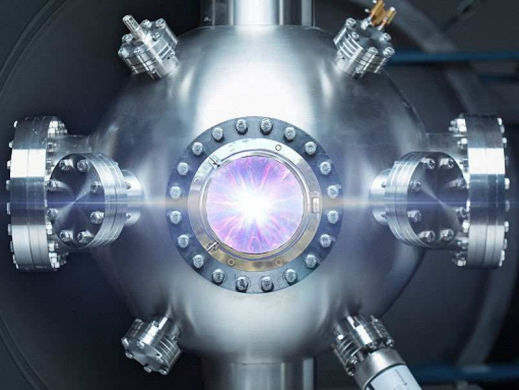


# Connected, Virtual, Intelligent Infrastructure / Digital Twins / Data Exchanges & Internet of Things (IoT)



QUANTUM  
COMPUTING

# Electric and other Alternatively Fueled Vehicles, Resiliency and the Grid



# Automation all types of platforms





***Innovation is:***

***The implementation of new ideas, devices, or processes that address a problem and create value for the Department and their customers.***

***...initial emphasis on technology deployments.***





Some common request / issues:

- **Data insights and dashboards**
- Low water crossing / Flood detection systems
- TMC Help / Traveler information / Signal management
- Infrastructure condition notification
- Pedestrian solutions
- Wrong Way Driving
- Truck Parking
- Over-height Warnings

Next Steps

- Detailed district interviews to develop new innovations
- *Analyze results and see where/what we can help scale*





- Cooperative and Automated Transportation Strategy/Program
- Freight Network Technology Operations Plan
- Innovations portfolio
- Statewide data contract and ongoing data discovery
  
- Intelligent Infrastructure
- Advanced Traffic Management Center concepts, integration of autonomy and data (connected information)
- Improved freight operations on corridors, parking info, warnings, weigh in motion
- Emerging technologies, connected systems and other advancements along corridors
- Integration of system information with apps, smart work zones
- Data Exchanges
- Digital Twinning concepts
- What is the future of air traffic and drone operations, working with FAA, universities and industry





## TxDOT Innovation Portal

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HELP

# #EndTheStreakTX

End the streak of daily deaths on Texas roadways.

Nov. 7, 2000

[TxDOT.gov](https://www.txdot.gov) (Keyword: #EndTheStreakTX)



#EndTheStreakTX Toolkit

