



NJDOT – Transportation Systems Management
“Improving Lives by Improving Mobility”

New Jersey – The CAV Puzzle

New Jersey’s Connected & Automated Vehicle
(CAV) Initiatives

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Puzzle Pieces Learning Initiatives

- ITS-JPO Connected Vehicle Working Groups (since 2011)
- Connected Vehicle – Pooled Fund Study (since 2012)
- AASHTO Working Groups (since 2012)
- I-95 Corridor Coalition Initiative





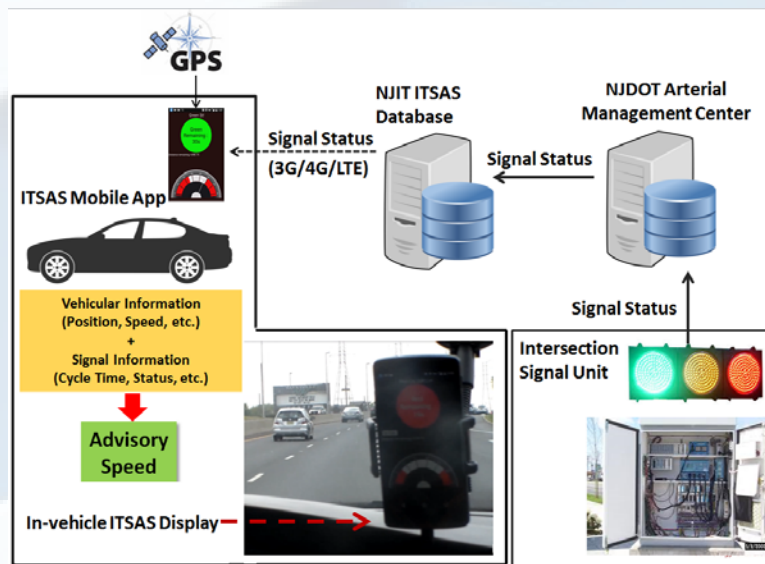
More Puzzle Pieces Examining our Processes

- The Connected Corridor – Statewide ITS Architecture to include CVRIA (Connected Vehicle Reference Implementation Architecture)
- TMC in a Connected Environment (Studying our Statewide Traffic Management Center capabilities re: CAV)
- Collaboration within DOT – Maintenance & Operations, GIS, Survey, IT, Networking, TSM, Planning, CPM.
- Collaboration with Partner Agencies – Port Authority (XPL Project), MPOs, Counties and Municipalities, NJ Turnpike Authority, OIT, and neighboring states
- Standards development at a National level.

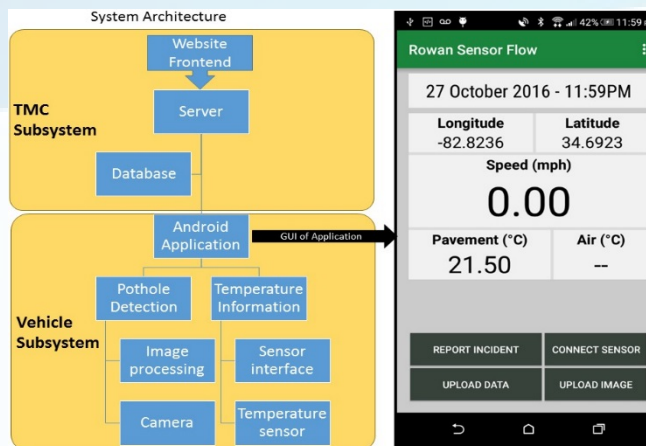


Puzzle Pieces- Pilots in NJ

- Personal Signal Assist
(non-DSRC)
*Through the New Jersey
Institute of
Technology*



- Road Conditions Application
(Communication Platform
Independent)
Through Rowan University





More Pieces Research Pilots (ITS – Resource Center)

Working with the New Jersey Institute of Technology, we are working multiple areas of research to evaluate and deploy pilots related to;

- Connected Vehicle Technologies
- Advanced Data Collection Technologies
- Pedestrian and Transit Technologies
- Freight Technologies





Even more pieces! Addressing the legalities - NJ Legislative Actions

- Assembly Bill 554:
 - Requires self-driving motor vehicles to be equipped with ignition interlock device
- Assembly Bill 3745:
 - Permits testing and use of autonomous vehicles on State roadways under certain circumstances
- Senate Bill 343 and Assembly Bill 851:
 - Directs the Motor Vehicle Commission to establish driver's license endorsement for autonomous vehicles



We need to do more....

And we need your help!



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