New Brunswick Innovation Hub Smart Mobility Testing Ground, Data City: A Smart and Autonomous Initiative (NJDOT Contract #21-60168)

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DataCity Smart Mobility Testing Ground Concepts
1. NJ Mobility Technology Breeding Ground
2. Smart Mobility Management Center
3. Industrial-Grade Smart Mobility Data Hub
4. Digital Twin platform to support early-stage R&D
5. V2X Smartphone-based Community Mobility Applications
6. Self-Driving-Grade Roadside Sensing and Computing Infrastructure

Smart Mobility Data Services
- CV - Nearmiss Detection/ Alerts
- CV - Pedestrian Safety Applications
- Community Mobility Applications
- Autonomous Shuttles
- Proposed RWJ St. Peter’s Hospital Loop
- Self-Driving Cars
- Self-Driving Trucks
- Self-Driving Delivery

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Route 27/George Street (First Instrumented Intersection)
- Velodyne Alpha Prime VLS-128 Beam
- BlueCity Edge Computing
- Iteris Bosch Camera and Road-Side Unit
- Verizon VZMode

Instrumentation

Overview and Timeline

Corridor Plan

Digital Twin Modelling