DEPLOYMENT OF CONNECTED VEHICLES AND INFRASTRUCTURE MICHIGAN INITIATIVE

April 21, 2014

Kirk Steudle
Director
Michigan Department of Transportation
NHTSA Announcement
Michigan Connected Vehicle Test Beds

- OEM Tech Center (Auburn Hills)
- Telegraph Rd. Corridor - SPaT
- POC Test Bed (Farmington Hills)
- ITS WC Deployment
- CVPC Intersection (Southfield)
- Michigan International Speedway (Brooklyn)
- USDOT Development & Test Environment (Novi)
- USDOT Safety Pilot (Ann Arbor)
- City of Detroit CV Test Bed
- I-94 Truck Parking Info and Management System
Supporting a Regional Deployment

- ITS integral at MDOT
- Active university research, development, and student programs
- Six+ Automated Vehicle R&D sites
  - including very active research / product development efforts
  - including 2 purpose-built test tracks
  - all within easy geographic reach of Connected sites
- Nine major vehicle manufacturers, numerous Tier 1 suppliers
  - actively engaged with USDOT program
  - operating substantial company-owned employee driven fleets
  - estimated 60,000+ new vehicles turned over every year
  - actively working on automation
- Active transportation crossroads
  - International border crossings
  - Weather variation
  - Freight/logistics companies
SE Michigan Deployment

- Create first initial deployment
  - Vehicles + Infrastructure + Devices
  - Transfer research into product development and deployment
- Establish Public/Private Partnerships
  - MDOT
  - RCOC
  - Macomb County
  - City of Detroit
  - City of Ann Arbor
  - USDOT
  - OEM’s
  - Communications Companies
  - Hardware manufacturers
  - Application Developers

The MTC
World Congress as a Springboard

- Belle Isle Deployment
  - 20+ infrastructure locations
  - Re-deployable
  - USDOT helping with funding
  - MDOT owns
- Using security and data systems developed by USDOT
- Unveil plan
Extrapolates to Other Regions

Multiple Locations... One Connected System

Source: USDOT