

Deploying Connected Vehicles: Michigan Leadership



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Overview

- ▶ Today's Economic Realities
- ▶ Moving Michigan Forward
- ▶ Looking to the Future

Today's Economic Realities

- ▶ Long-term Federal and State Transportation Funding Issues
- ▶ SAFETEA-LU extended to Dec 31
- ▶ In 2010, \$84 million state revenue shortfall to match \$475 million in federal funds
- ▶ State shortfalls for federal match will continue in 2011 and beyond without legislative changes



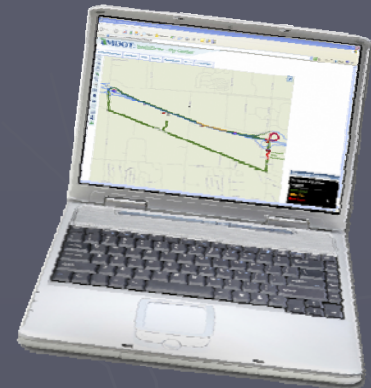
Moving Michigan Forward

- ▶ Michigan has been recipients of significant federal funding for IntelliDriveSM
 - Recently \$12.2M for sensor technology research
 - MDOT/MSU = \$400K for pavement monitoring
 - MDOT/MTU = \$2.8M for bridge monitoring
 - MDOT/U-M = \$9M for bridge monitoring
- ▶ Michigan IntelliDriveSM test beds
- ▶ MDOT IntelliDriveSM simulator
- ▶ Michigan IntelliDriveSM Working Group

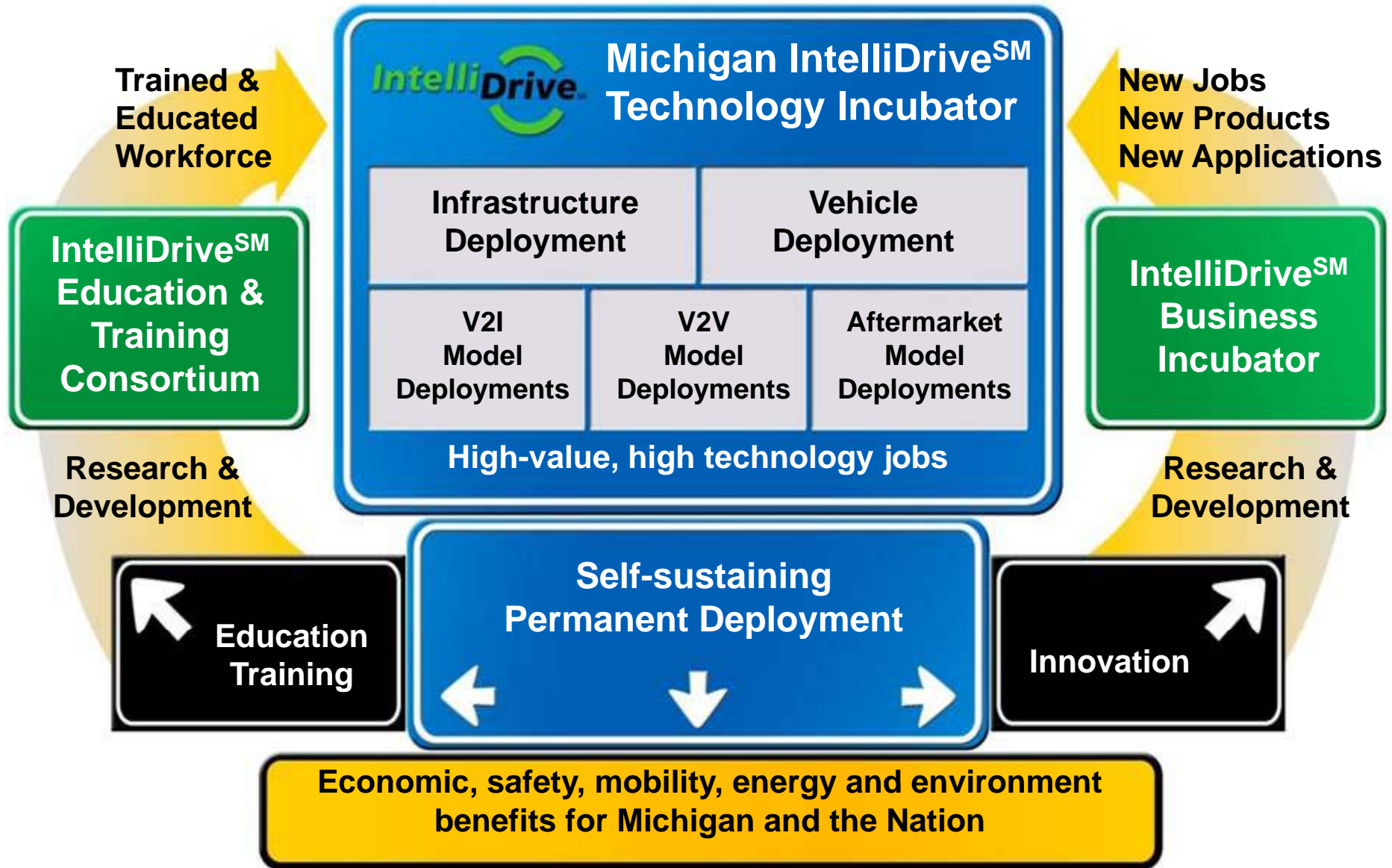


MDOT IntelliDriveSM Initiatives

- ▶ Critical Highway Infrastructure Monitoring Program
- ▶ Eliminating Slippery Conditions by Integrating Mobile Observations
- ▶ Data Use Analysis and Processing (DUAP)
 - Asset Management – Probe Ride Quality Data



Michigan IntelliDriveSM Incubator



Looking Forward

- ▶ Advancement means not standing still
 - Monitoring the international program
 - Expanding the test bed
- ▶ Work with partners
 - Vehicle manufacturers and suppliers
 - AASHTO and other infrastructure owners and operators
 - US DOT



Green and Connected

- ▶ Two major paradigm shifts happening simultaneously
 - Powertrain electrification
 - Vehicle connectivity
- ▶ Opportunities for synergies
 - Connectivity can locate nearby charging stations
 - Situational awareness can optimize powertrain management
- ▶ These developments will lead to more efficient, “greener” vehicles



Freight and IntelliDriveSM

- ▶ SE Michigan boasts some of the busiest border crossings in the country
- ▶ ITS and IntelliDriveSM can help facilitate the transformation of this region into a major freight hub

Category	Specific Applications			
Credentials Administration	Electronic Funds	Electronic Registration/Permitting		
Safety Assurance	Safety Information Exchange	Automated Inspection		
Electronic Screening	Safety Screening	Border Clearance	Weight Screening	Credential Checking
Carrier Operations & Fleet Management	Automatic Vehicle Location/Computer-Aided Dispatch	On-Board Monitoring	Traveler Information	
Security Operations	Asset Tracking	Remote Disabling Systems	Geo-fencing	

Thank You!

