



# Technical Progress

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**Vehicle  
Infrastructure  
Integration**

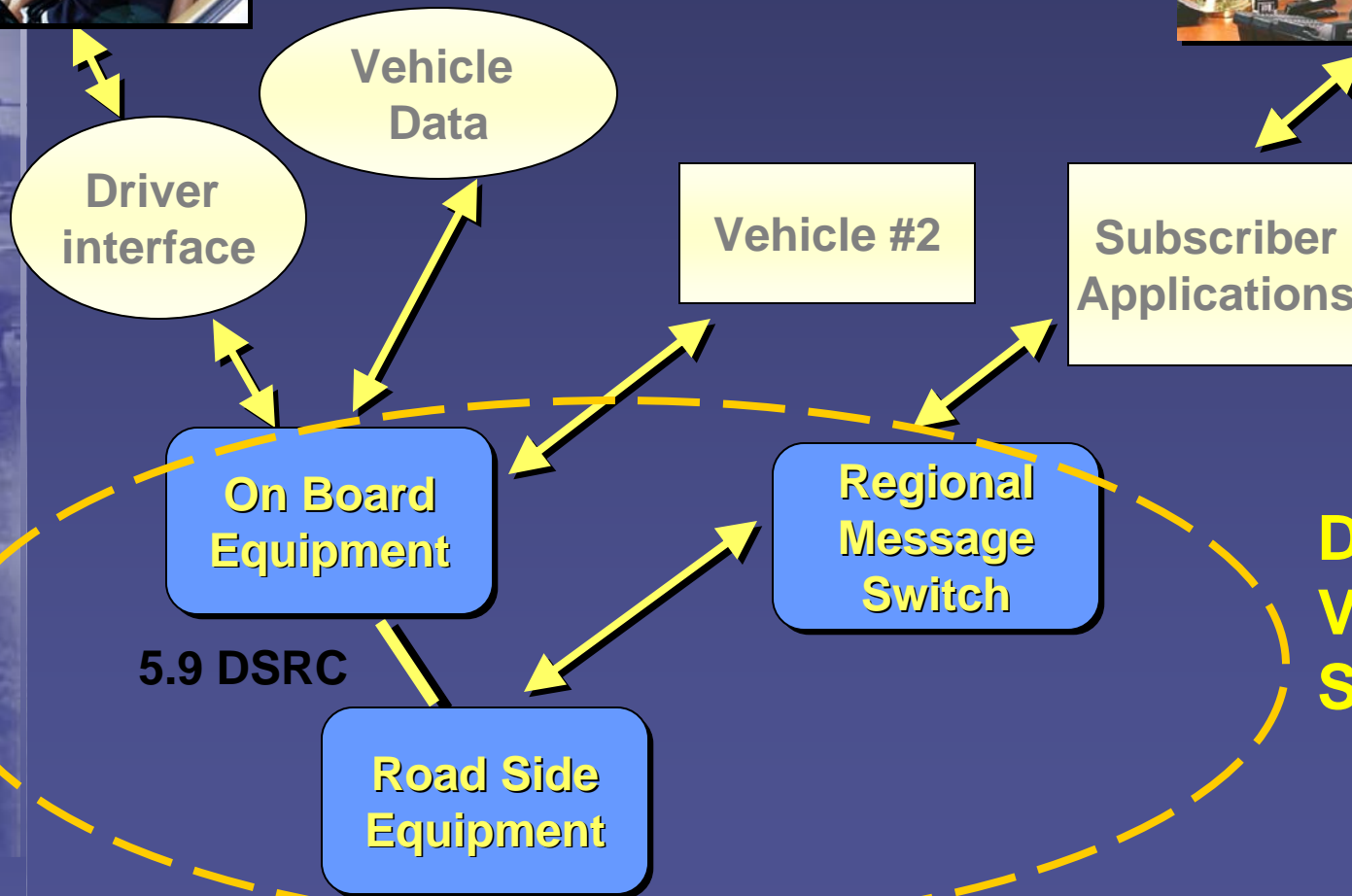
# Connects Vehicles and Infrastructure



**Driver**



**End User**



**Vehicle  
Infrastructure  
Integration**

# DSRC Status

- **1<sup>st</sup> DSRC radio delivered**
- **IEEE 1609- 1,2,3, &4 V1 in ballot**
  - *V 2 Ballot in 06*
- **Complete Standards testing July 06**

## VII Vehicle Design Initiated

- **VII Consortium (Auto OEMs)**
  - *Cooperative Agreement in Place*
  - *Design In-Vehicle Equipment & Applications (non-safety)*
- **CAMP (Auto OEMs) – Safety Applications**
  - *Cooprerative Agreement in Place*



# Infrastructure Design Initiated

- **Booz Allen Hamilton**
- **System Integrator &  
Network Development**
- **Requirements Definition Underway**
- **Backhaul Communications Analysis**
- **RSU Procurement Analysis**



# System Integration

- **Vehicle**
- **Infrastructure**
  - *RSUs*
  - *Network*
- **Integrated end of '06**



# Application Development

- **Safety – Signal & Stop Sign Warning & Electronic Brake lights**
  - *Developed by CAMP – Cicas*
- **Mobility Applications**
  - *Vehicle elements -- VIIC*
  - *Public Sector -- US DOT*
- **Weather Application -- Clarus Initiative**
- **Corridor Mgmt -- ICM Initiative**



# Proof of Concept Test

- **Begins end of 06**
- **Testing in a controlled Environment**
- **Integration of applications – vehicle – Infrastructure**
  - *Location – suburban Detroit*
- **FOT -- TBD**





# Benefit – Cost Analysis

- **Identification of Applications Initiates B/C Analysis**
- **Volpe Transportation Center**
  - *40 year LCC analysis*
- **Inputs**
  - *Deployment Analysis*
  - *Comm analysis*
  - *RSU procurement analysis*
  - *Application Development*
- **1<sup>st</sup> Iteration – Summer '06**