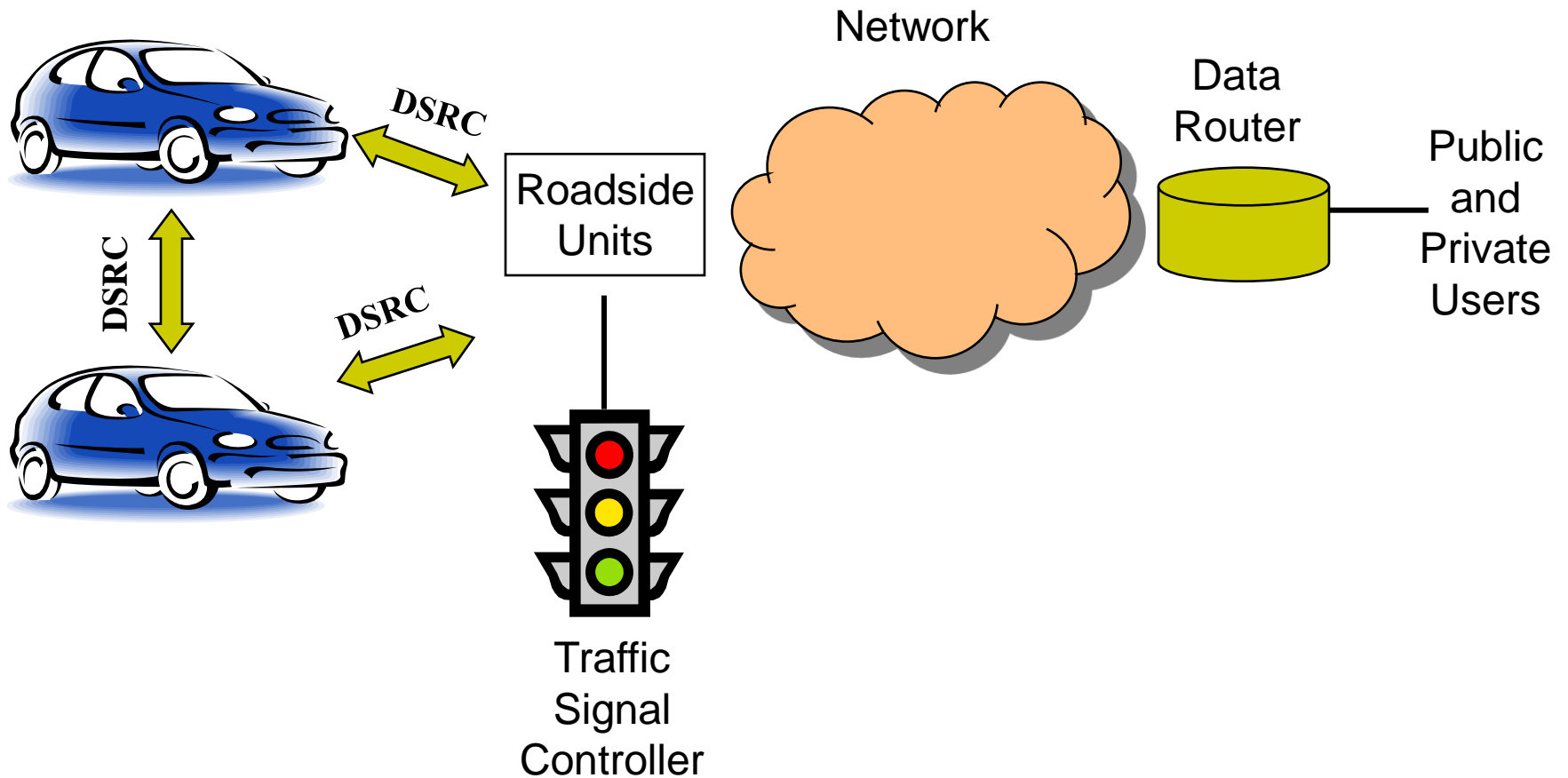




Vehicle Infrastructure Integration (VII)

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VII Partners

- U.S. DOT
- Other Public Sectors
 - AASHTO, States, Local Governments
- Auto Makers



VII - Vehicle

- GPS
- Speed/Direction
- Other Data – Anti-Lock Brake Activation, Wipers, etc.
- Vehicle to Roadside Communication
- Roadside to Vehicle Communication
- Vehicle to Vehicle Communication
- Human Interface

Dedicated Short Range Communication (DSRC)

- FCC Licensed 75 Mhz at 5.9 GHz
- Primary Purpose is Safety
- Commercial Applications Allowed
- Version 1 Radio Testing Begun
- Vehicle/Roadside Units Available
December 2006

VII - Network

- Road Side Units (RSU's)
- Broadband Communication – RSU to Data Router
- Fiber, Wi Fi, Wi Max?
- Public/Private Partnership



VII – Data Router

- Access by Auto Makers, Dealers, States, Counties
- Real-Time Data Only
- National Network



VII Opportunities

- ❑ System Wide Real-Time Data
- ❑ Reduced Infrastructure Costs
- ❑ Real-Time Mapping
- ❑ Collision Avoidance
- ❑ In-Vehicle Signing
- ❑ Electronic Tolling
- ❑ Commercial Applications

Status

- First Outreach – February 2005
- Architecture Functional Requirements Version 1.1 Complete
- Preliminary System Design Review – June 2006
- DSRC Radios Available - December 2006
- Begin System Test - February 2007
- Begin Proof of Concept Tests - March 2007
- Deployment Decision – Mid 2008
- Deployment – 2011/2012?

Thank You

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