Breakout Session 7-I:
Communications Options and Role of Dedicated Short Range Communications (DSRC)

Volker Fessmann (FHWA)
Walton Fehr (ITS JPO)
Session Objective

- Collect feedback on the extent to which DSRC should be a key component of CV Pilot tests and what alternatives are being considered
A Variety of Communication Media Ranges

Communication Resources: wired and wireless, the Internet
- 3,000 miles, 3,000 meters, 300 meters, 3 meters.

Requirements: Two types of information distribution:
- To all, To one.
Agenda

- What the RFI says about DSRC
- Guided discussion
  - Communication objectives
  - Pros and Cons of DSRC
  - Requirement for communication performance
- Wrap-Up
What the RFI Says About DSRC

CV Pilot Program Requirements Under Consideration: ...

- *Multisource data approach leveraging vehicle data via Dedicated Short Range Communications (DSRC).* Pilot deployments should feature frequent capture and systematic integration of data from an appropriate broad range of sources. Potential sources may include multiple types of infrastructure-based sensors, transit vehicle systems (bus and rail), a full range of vehicle types acting as mobile probes (including freight carriers and transit vehicles), and travelers moving between modes as they complete trips. **At a minimum, vehicles must be deployed as one data source and DSRC deployed as one of the communication technologies.**
Discussion Question #1

- What are the pros and cons of using DSRC in a CV Pilot?
  - Pros
    - 
    - 
    - 
  - Cons
    - 
    - 
    -
Discussion Question #2

- For the five Concept Briefings presented earlier today, where would DSRC be most useful? Least useful? Where would another type of communications be more useful?
  - Sunnyside
  - District 13
  - Halleck
  - I-876
  - Greypool
Discussion Question #3

- Are the messages the same whether they are carried by DSRC or another communications method?
Discussion Question #4

 Should USDOT remove the requirement that DSRC must be used?
Discussion Question #5

- What alternative communications methodologies are considered and for what purpose?