



# Breakout Session 7-1: 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

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- 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

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- **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

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



## Discussion Question #2

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- 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

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





# Discussion Question #4

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- Should USDOT remove the requirement that DSRC must be used?



# Discussion Question #5

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

