Intelligent shared-use vehicle systems require advanced technologies for electronic payment, driver and traveler services, emergency response, vehicle monitoring and control, traffic management, and transit linkages. This talk will describe the University of California, Riverside (UCR) IntelliShare project: a testbed for simulating, developing and evaluating advanced technologies for shared-use vehicle systems. These include a hybrid DSRC/CDPD wireless communication system architecture, embedded computer and control systems, navigation, and vehicle surveillance. The talk will also compare several institutional models designed to foster interoperability among shared-use vehicle service providers and transit operators and to increase consumer satisfaction and market penetration of this innovative mobility initiative.

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