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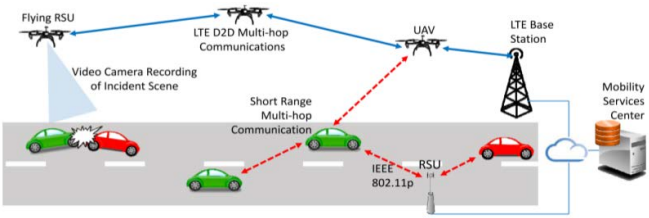
A versatile Testbed for V2X Communication Scenarios



Cooperative Intelligent Transport Systems (CITS) enable a variety of novel applications that improve the safety and efficiency of our traffic systems. In addition to the networking of classical vehicles such as cars and trucks, vulnerable road user such as cyclists and pedestrians as well as novel vehicles such as drones are also considered in the concept. For research and validation of the developed communication solutions, practical testing is indispensible. In this a testbed is presented, which is suitable due to its compactness for most diverse tests in practise. The open platform supports communication according to IEEE802.11 standards as well as cellular communication. A GPS module has been integrated for localization and time synchronization to support measurements with distributed nodes and dynamic scenarios.

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