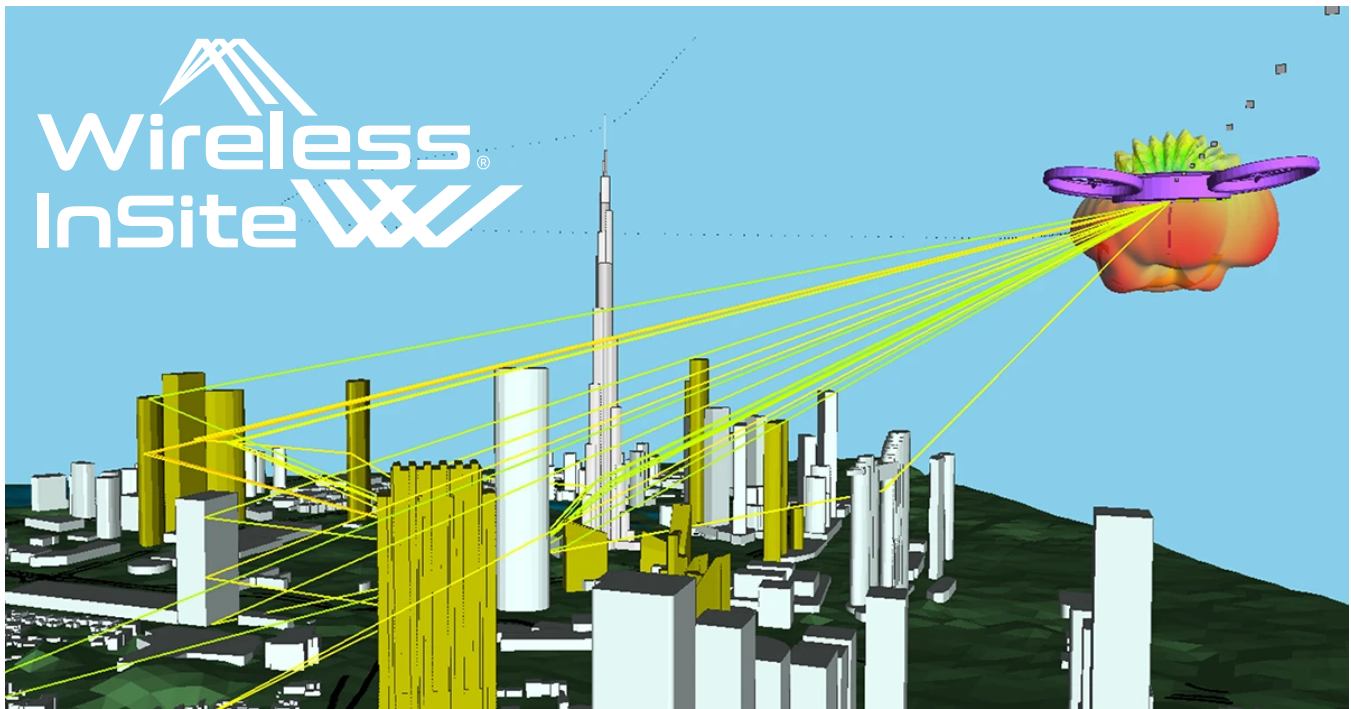


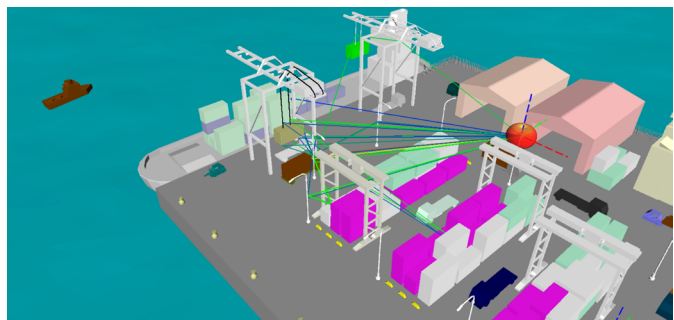
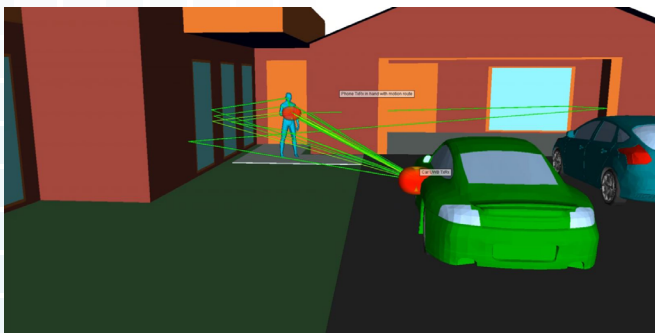
Wireless InSite[®] Wireless Mobility

Wireless InSite includes advanced capabilities including time-based mobility, lunar propagation modeling, and wideband ray-tracing with S-parameter outputs. Create dynamic scenarios and simulate how movement of devices and vehicles affects multipath, coverage, and wireless communications.



Simulate Dynamic Wireless Mobility Scenarios

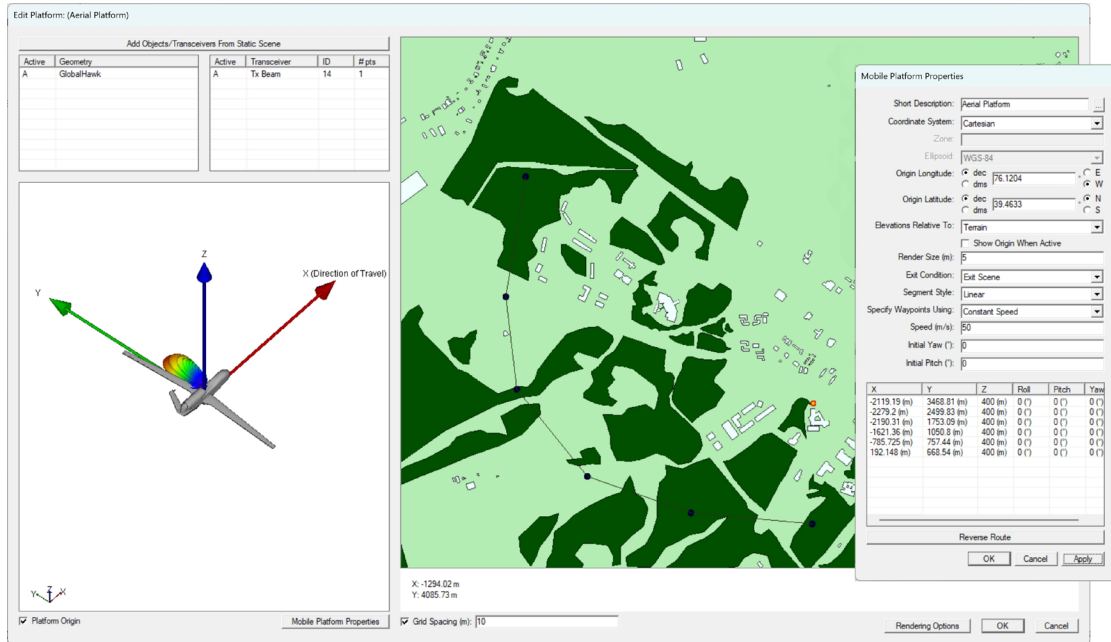
Simulate the motion of people with mobile devices, vehicle-mounted antennas, or large vehicles (such as a truck or bus) that block or reflect signals as they move through a scene. Capture variations to the channel caused by 3D multipath and evaluate how time-varying shadowing and fading impact communication link performance.



Wireless InSite® Wireless Mobility

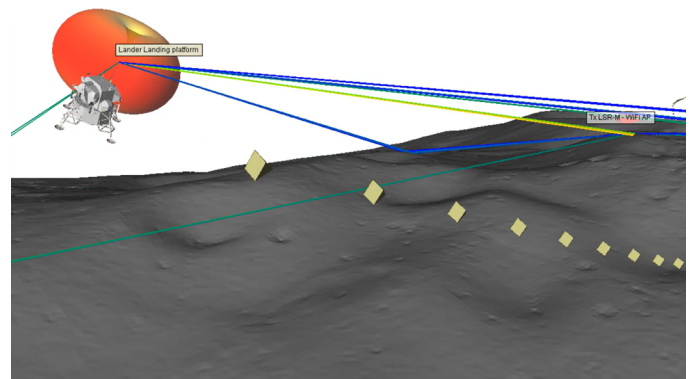
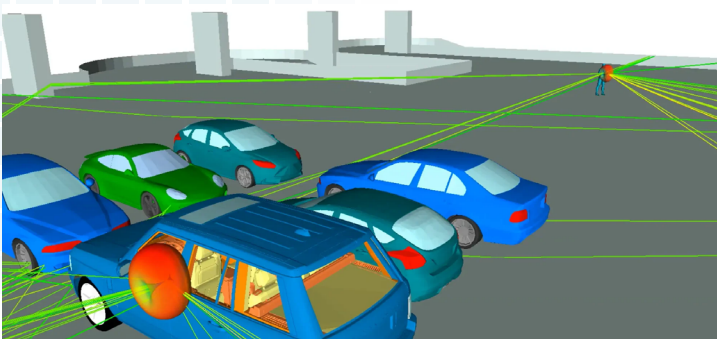
Use Waypoints to Define Movement and Orientation

Define moving platforms, including geometry for objects in motion (people, vehicles, aircraft), as well as vehicle-mounted or handheld RF devices and their antennas. Movement can be specified in terms of waypoints, including changing coordinates and orientations (Euler angles). These can either be at points in time or used with a fixed velocity, allowing dynamic scenarios—potentially with multiple people, vehicles, or devices in motion.



Visualize Multipath as Vehicles and RF Systems Move

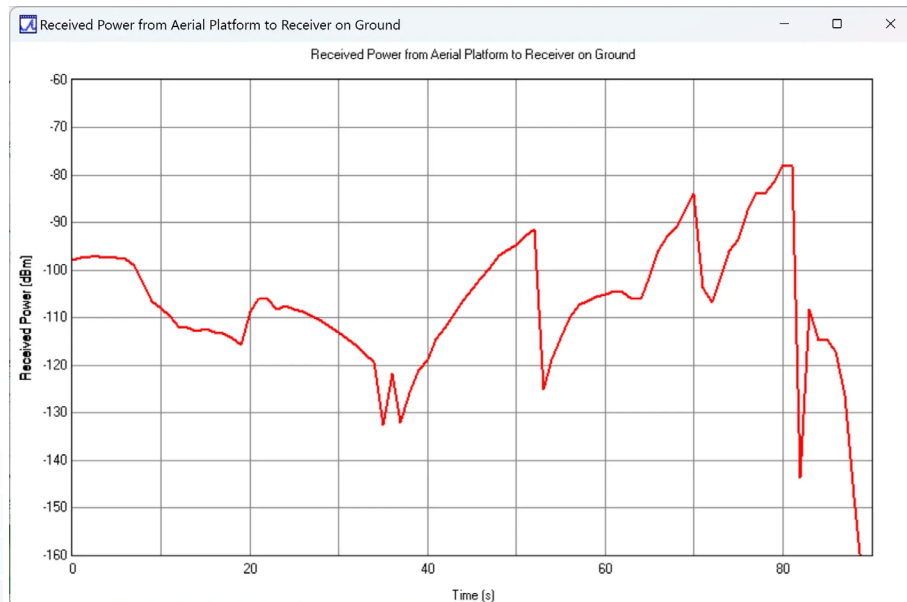
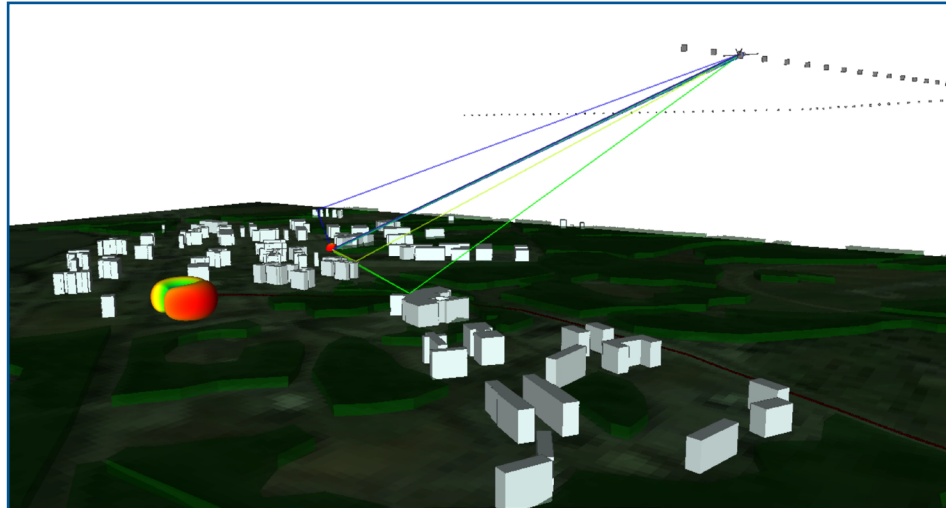
Visualize the multipath within views of the scenario, showing the dominant paths that signals follow through a scene and the structures they interact with. Show how blockage and interactions with terrain, foliage, buildings, or other structures affect signal propagation between a base station and a walking pedestrian, a moving truck, or a flying air or space vehicle as it moves through a digital twin of a dynamic scene.



Wireless InSite® Wireless Mobility

Plot Results Over the Simulated Time

For a more direct analysis, plot the received power, signal-to-noise ratio, or other channel metrics as a function of simulated time, capturing the ultimate effect of the changing channel as people or vehicles move through the simulated scene.



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Remcom, Inc.
315 S. Allen St., Suite 416
State College, PA 16801 USA

+1.888.7.REMCOM (US/CAN)
+1.814.861.1299 phone
+1.814.861.1308 fax

sales@remcom.com