

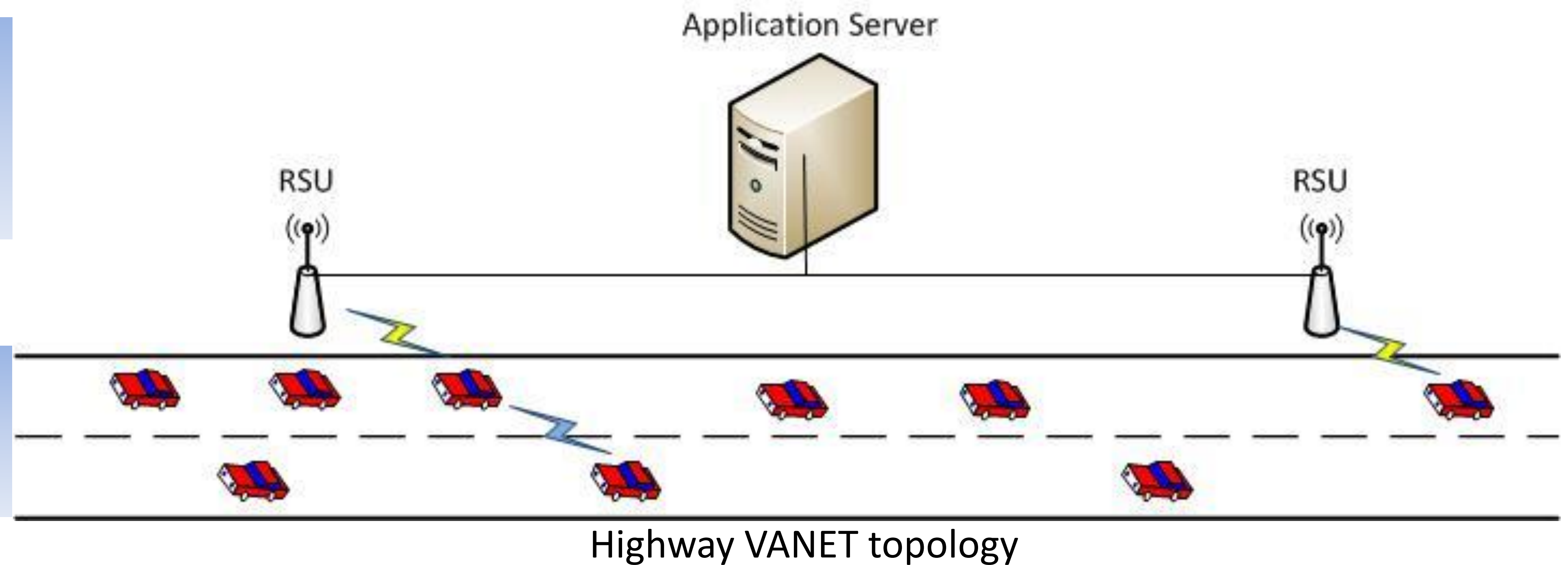
Why do we need QoS enhancement in vehicular networks?

Motivation:

Vehicular networks will be widely deployed to support *a variety of services* (e.g. video, voice, data).

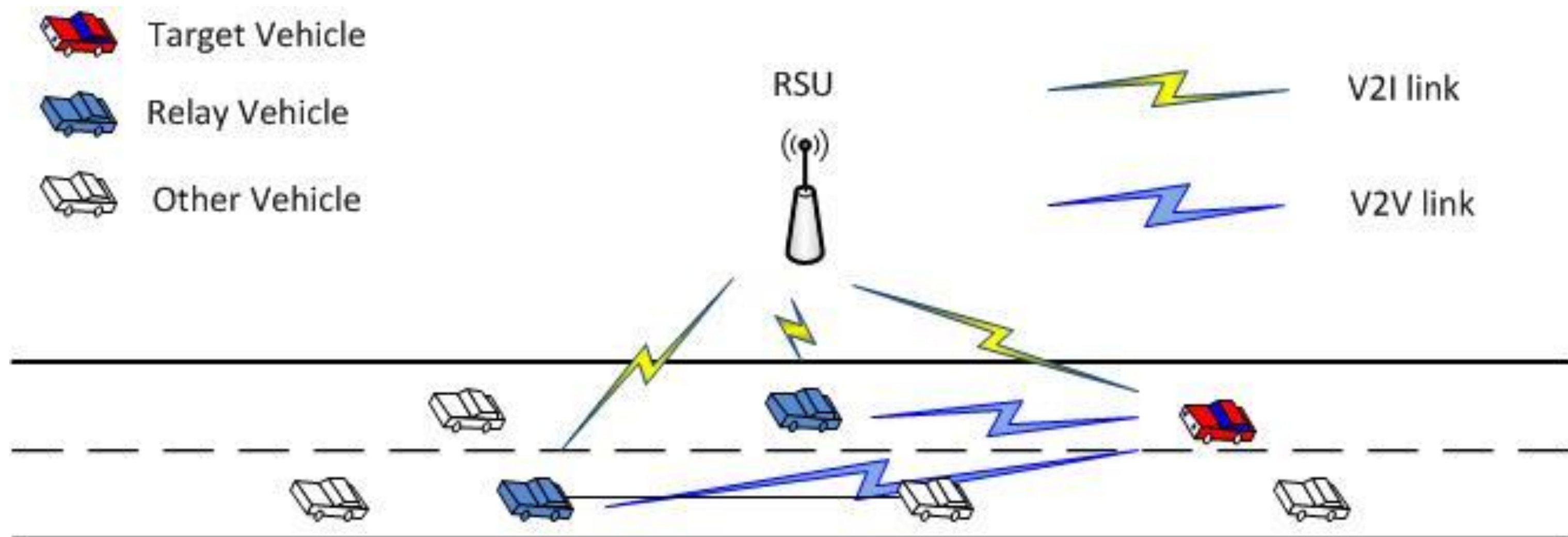
Problem:

Intermittent connectivity causes low throughput and long delay.



How we guarantee QoS requirements?

Opportunistic Vehicle-to-Vehicle Relay



More relay vehicles will **increase** the transmission success probability

Adaptive Modulation

Lower-rate modulation: more relay vehicles, higher collision probability

Trade-off

Higher-rate modulation: less relay vehicles, lower collision probability

Simulation Results

