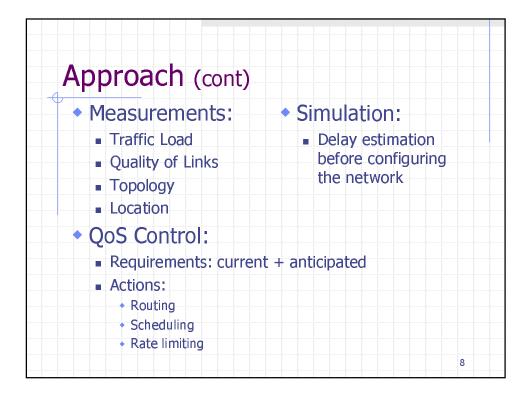
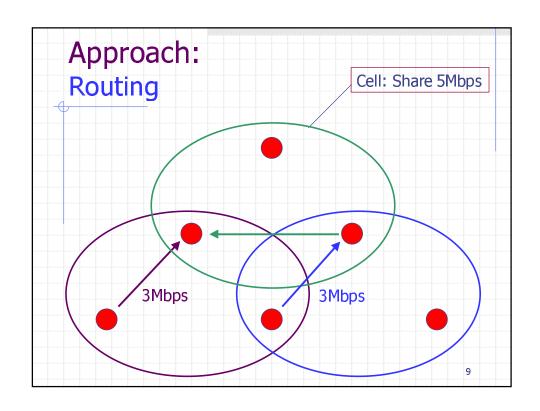
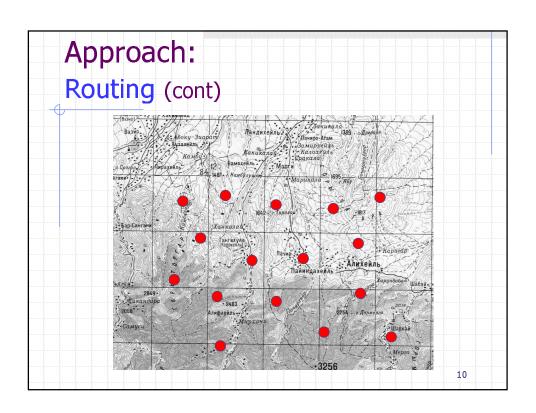
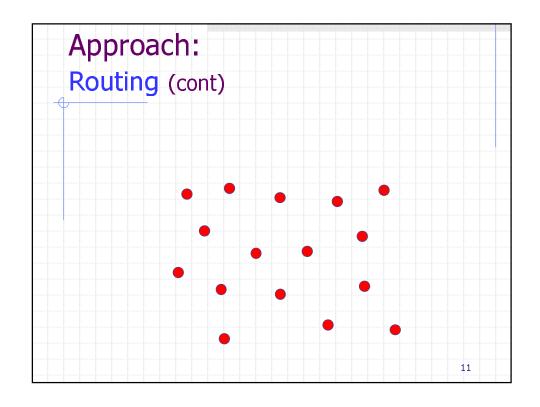


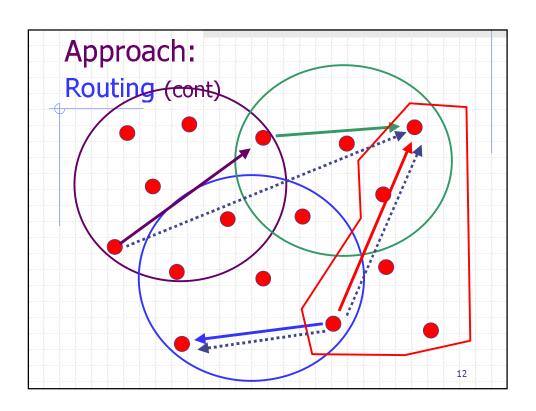
Approach Combine Ad Hoc Routing with Measurements QoS Control Simulation Motivation: Standard protocols do not suffice



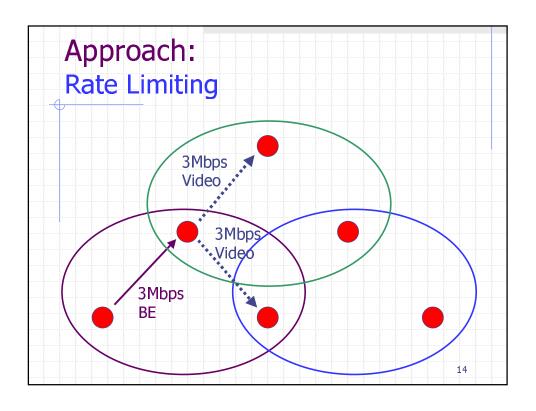


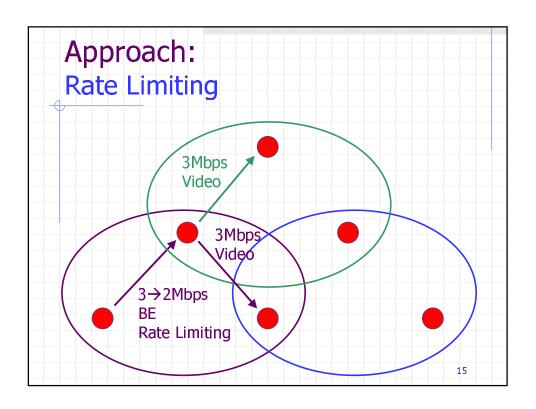




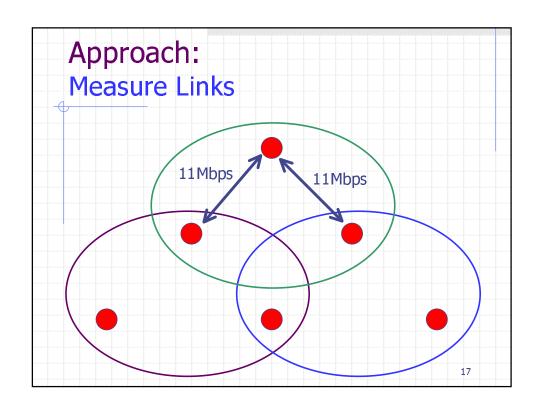


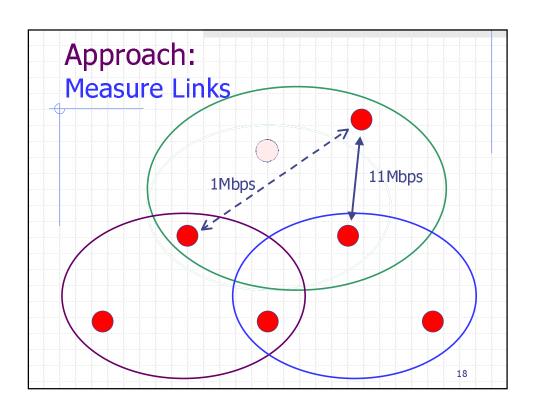
Approach: Routing (cont) Procedure: Get requests Select paths Relaxation → LP Randomize; Check; Iterate Run SIM to validate paths Configure routing tables

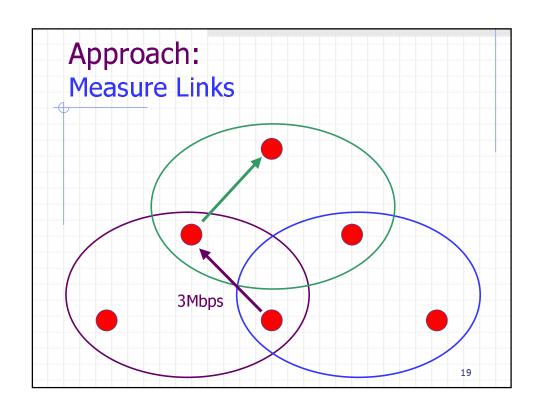


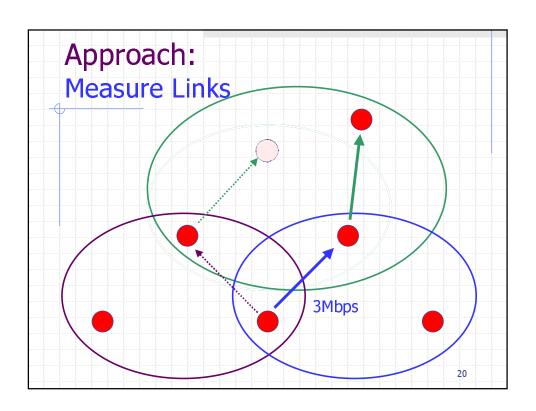


Approach: Rate Limiting (cont) • Procedure: • Measure BE • Get requests EF • Calculate RL parameters for BE Note: Various implementations are possible. We use • EF rates → LP → Paths • Calculate available rate for BE/cell • Distribute fraction • Measure; iterate steps 3 and 4

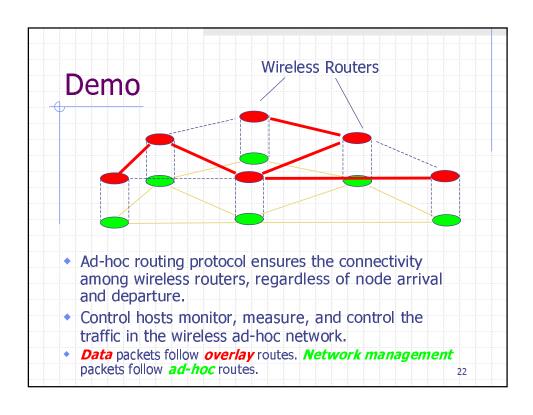


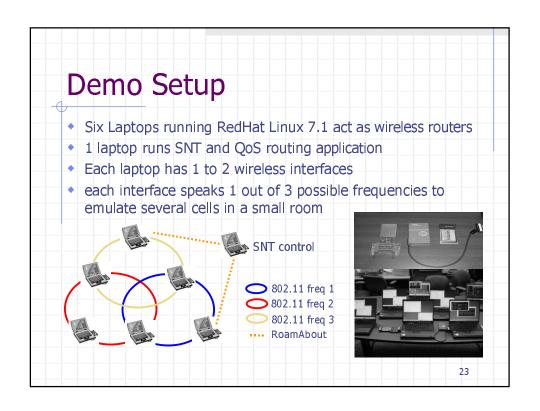


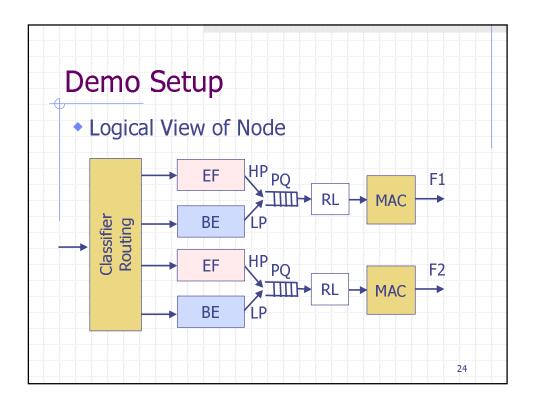


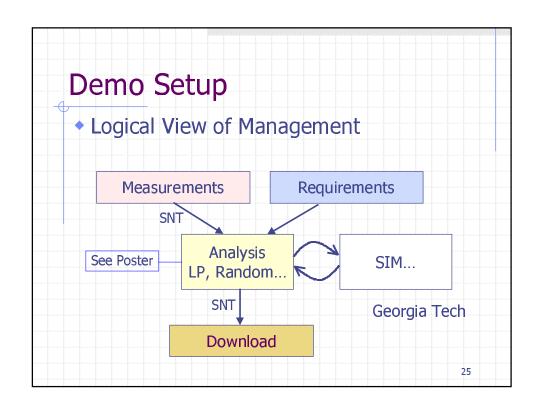


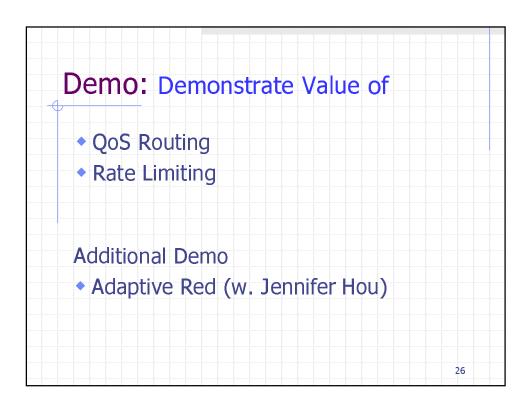
Approach: Measure Links (cont) Procedure: Get link states Select paths Relaxation → LP Randomize; Check; Iterate Run SIM to validate paths Configure routing tables











Future Work Scalability Clusters Distributed Algorithms Implementation of AQM End-to-end QoS on Demand [Using modified IOS]