Average Communication Cost: Hops-to-Edge-RSU Federated Centralized Decentralized Grid-3x3 (Ranked) Double (Ranked) Grid-5x5 (Ranked) 520k 2,700k 940k 2,675k Avg. # Bytes 500k 920k 2,650k 480k 2,625k 900k 460k 2,600k 20 30 50 30 40 50 30 40 50 10 10 10 # Hops-to-Edge-RSU # Hops-to-Edge-RSU # Hops-to-Edge-RSU Double (Unranked) Grid-3x3 (Unranked) Grid-5x5 (Unranked) 480k 2,800k 880k Avg. # Bytes 460k 2,700k 860k 440k 2,600k 420k 840k 10 20 30 50 20 30 50 10 20 30 40 50 # Hops-to-Edge-RSU # Hops-to-Edge-RSU # Hops-to-Edge-RSU