## Real-World Reward Distribution Double Grid-5x5 ..... Grid-3x3 Federated (Ranked) Centralized (Ranked) Decentralized (Ranked) 10<sup>0</sup> 10° 10° CDF Value $10^{-2}$ $10^{-2}$ $10^{-2}$ -4 -2 o -4-2 0 -4 -2 0 Reward Reward Reward Federated (Unranked) Centralized (Unranked) Decentralized (Unranked)

