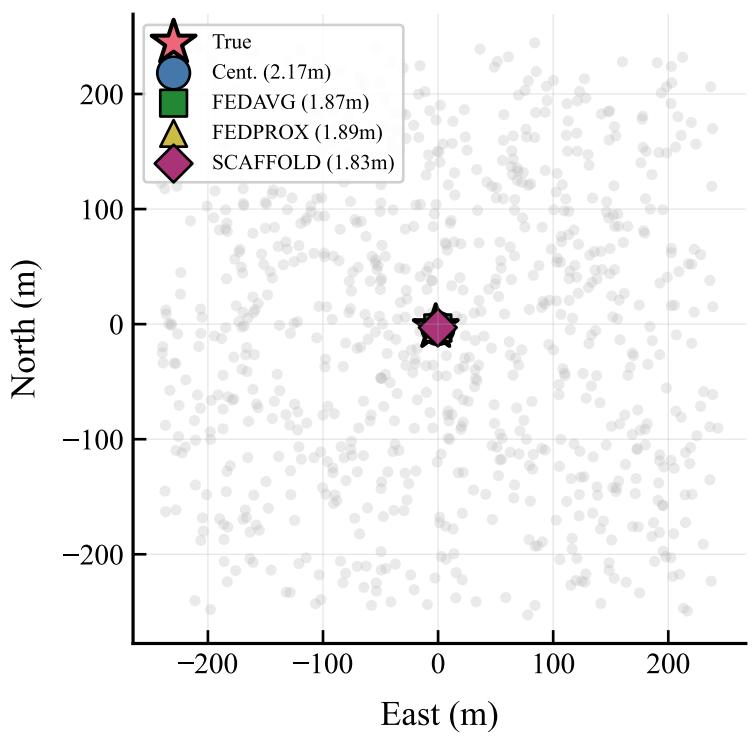


## Stage 2: Localization Summary — Suburban

**(a) Localization Results**



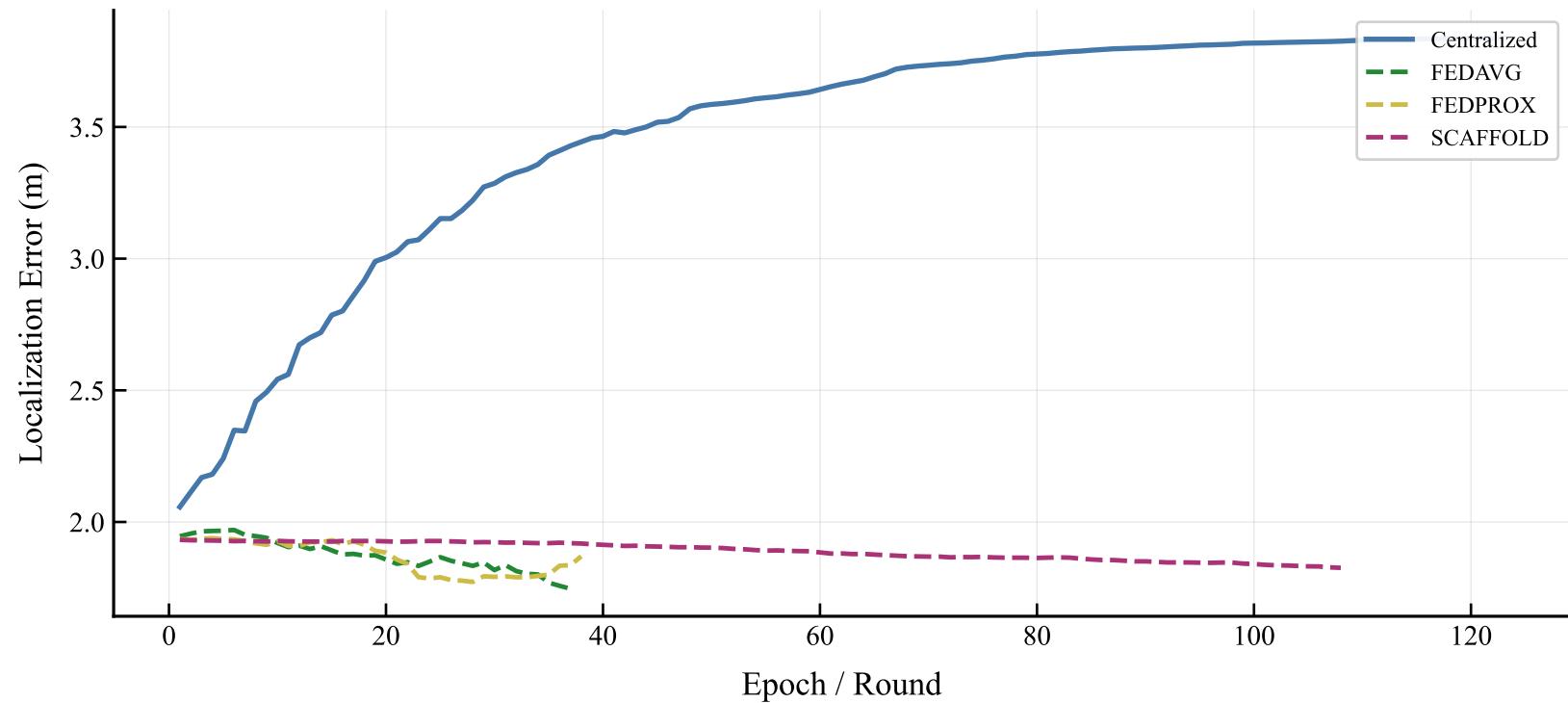
**STAGE 2 METRICS**

Centralized:  
Error: 2.17 m

Federated:  
FEDAVG: 1.87 m  
FEDPROX: 1.89 m  
SCAFFOLD: 1.83 m

Dataset: 810 samples  
Environment: Suburban

**(b) Convergence Comparison**



**(c) Final Errors**

