

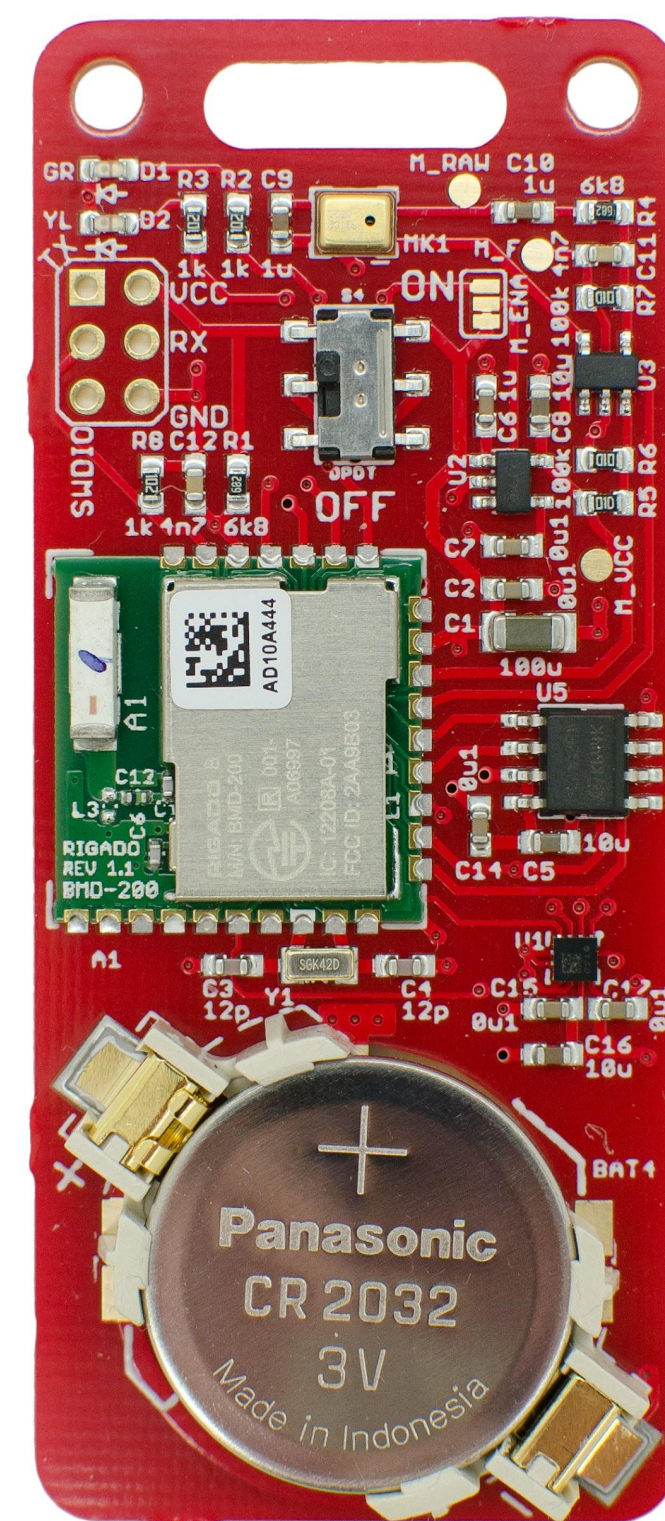
Communication Patterns and Performance in Early Startups

upshot communication patterns, larger teams, central leadership, and physical space are crucial for developing companies

17 companies, 67 individuals, 16 mentors and staff in a startup accelerator for 6 weeks

data measure communication between team members with rhythm badges

daily survey for each member on project confidence and team performance



subjective daily performance

$$q_daily_mean_{c,t} = \frac{\sum_{i \in c} q_{i,t}}{r_{c,t}}$$

subjective overall performance

$$q_overall_mean_c = \frac{\sum_{i \in c, t \in T} q_{i,t}}{r_c}$$

objective overall performance

$$milestone_rewards_c$$

communication

minutes talking within company

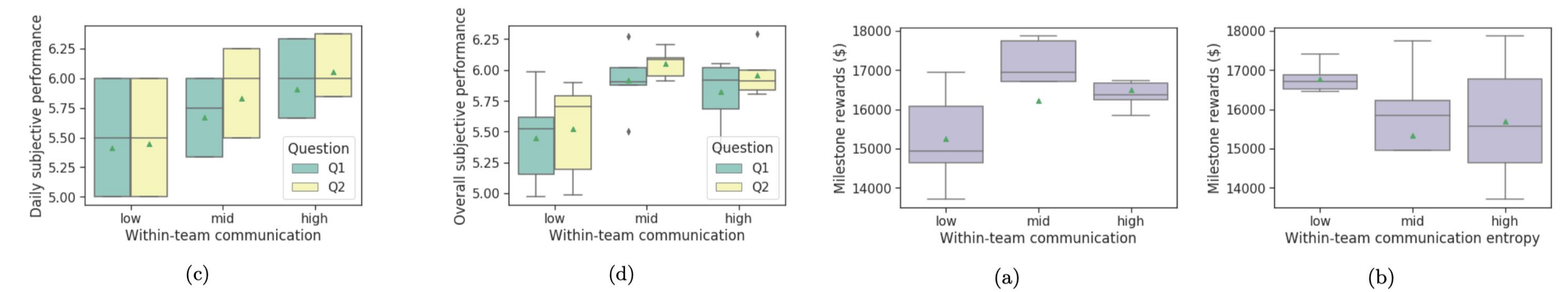
$$minutes_company_{c,t} = \sum_{i,j \in c} minutes_{ij,t}$$

minutes talking with other company

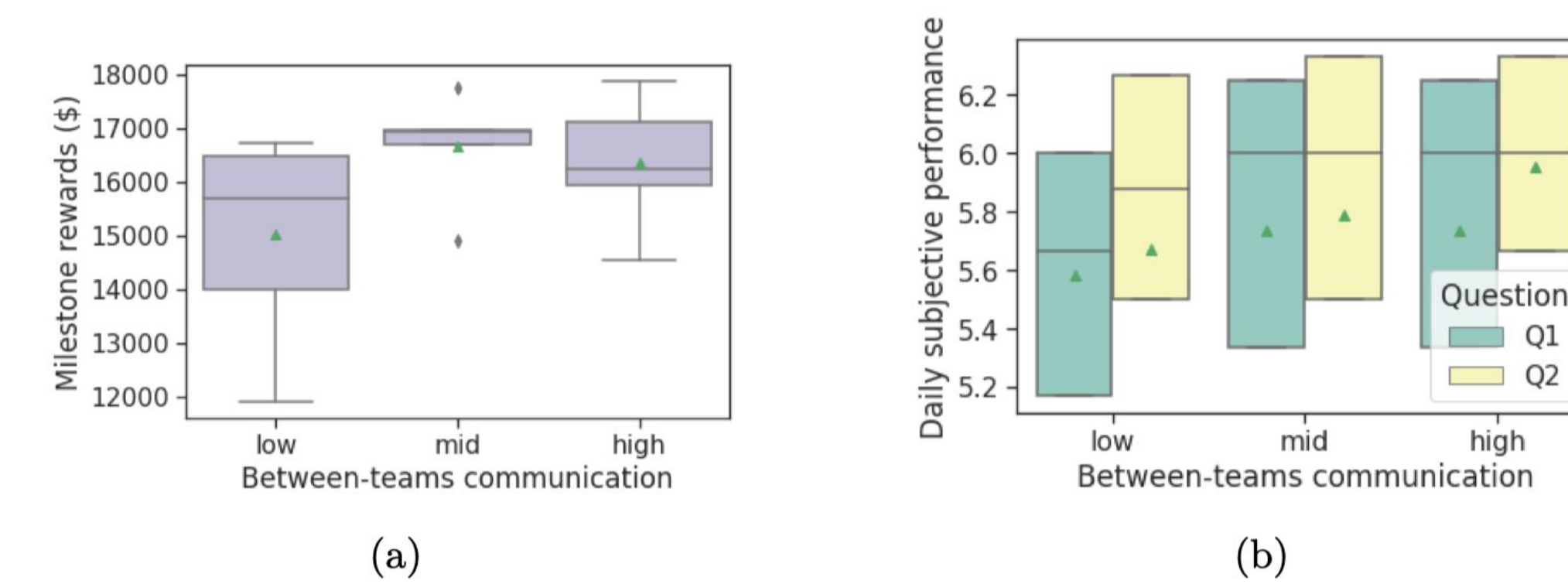
$$minutes_other_{c,t} = \sum_{i \in c, j \notin c} minutes_{ij,t}$$

methods

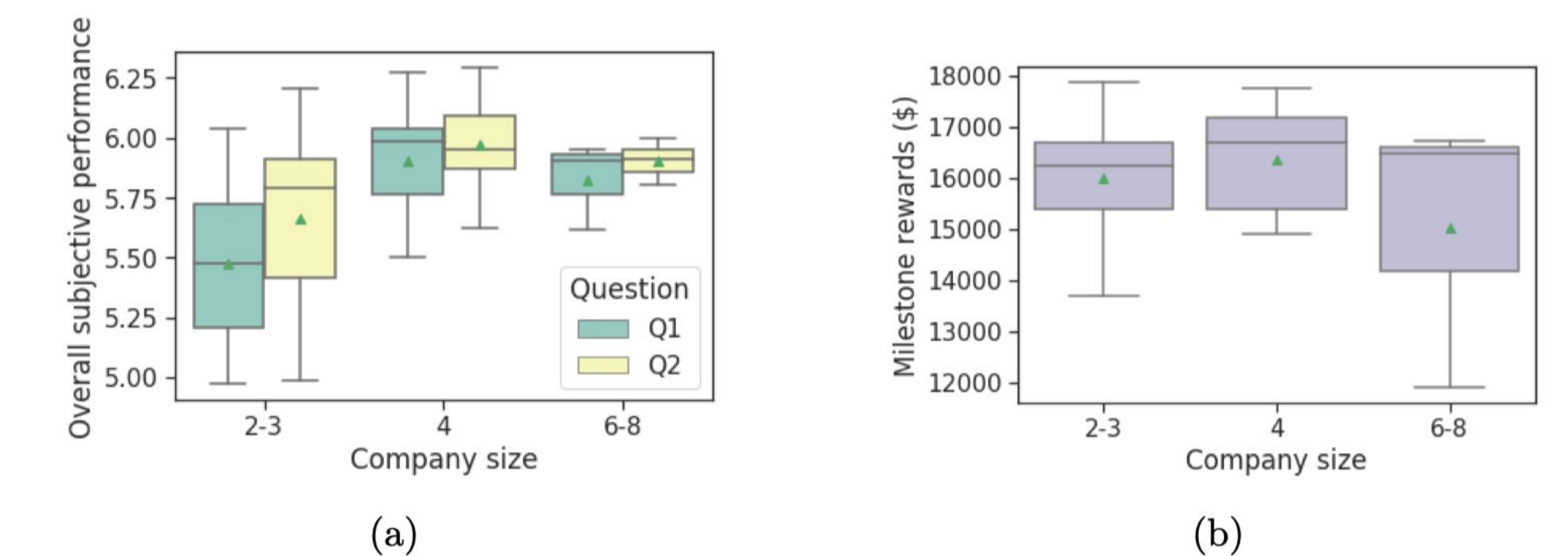
more internal communication means generally better, more consistent, results



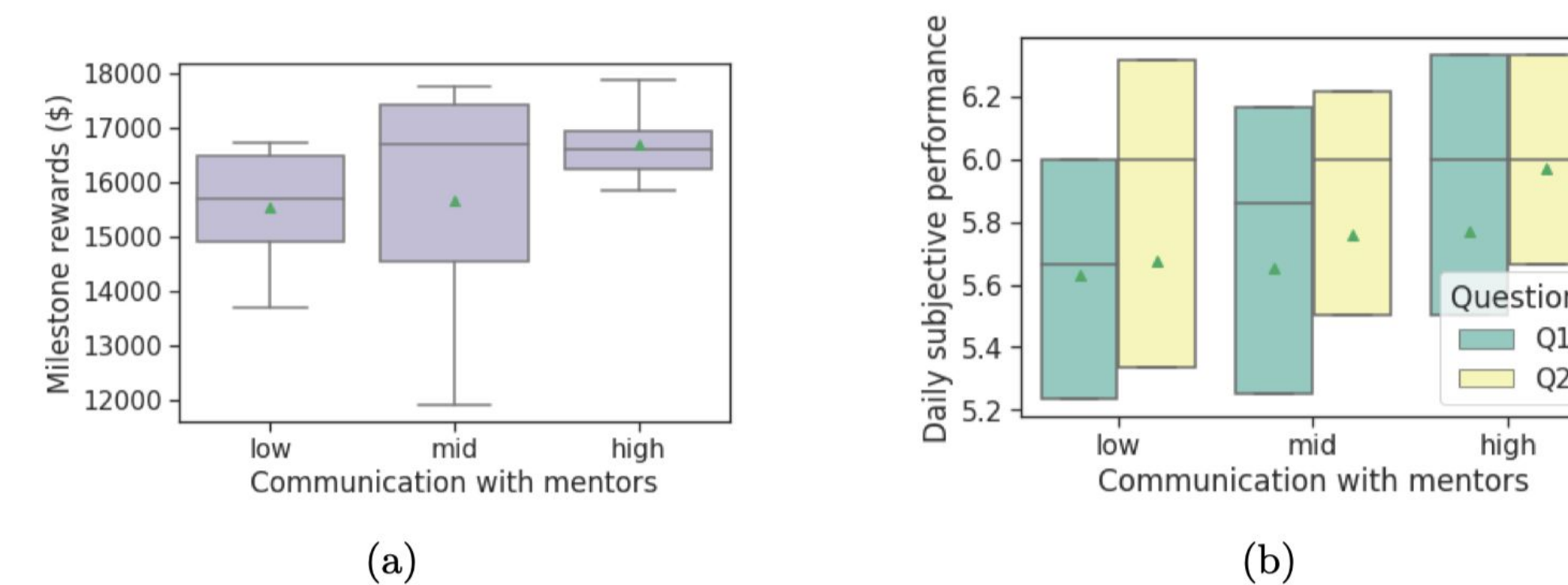
interaction with other teams needs to be 'just right'



people feel better about bigger teams, even though performance doesn't change



more mentoring = higher performance, more agreement



rhythm badges

A minimalistic wearable designed to measure face-to-face interaction

