

Take $N = \{1, \dots, 6\}$ to be the set of agents. They are connected by the social network G on the right.

Each agent distributes a total weight of 1 across the agents in their neighborhood.

The true state is $\mu = 0.5$. Each agent starts with the initial belief shown on the right.*

Time starts at $t = 0$.

At $t = 1$, each agent updates their belief to a weighted average of the beliefs of agents they pay attention to. For instance, agent 1's belief becomes:

$$\begin{aligned}x_1^1 &= 0.5 \cdot 0 + 0.3 \cdot 1 + 0.2 \cdot 0.2 \\&= 0.34.\end{aligned}$$

This keeps going for as long as we like...