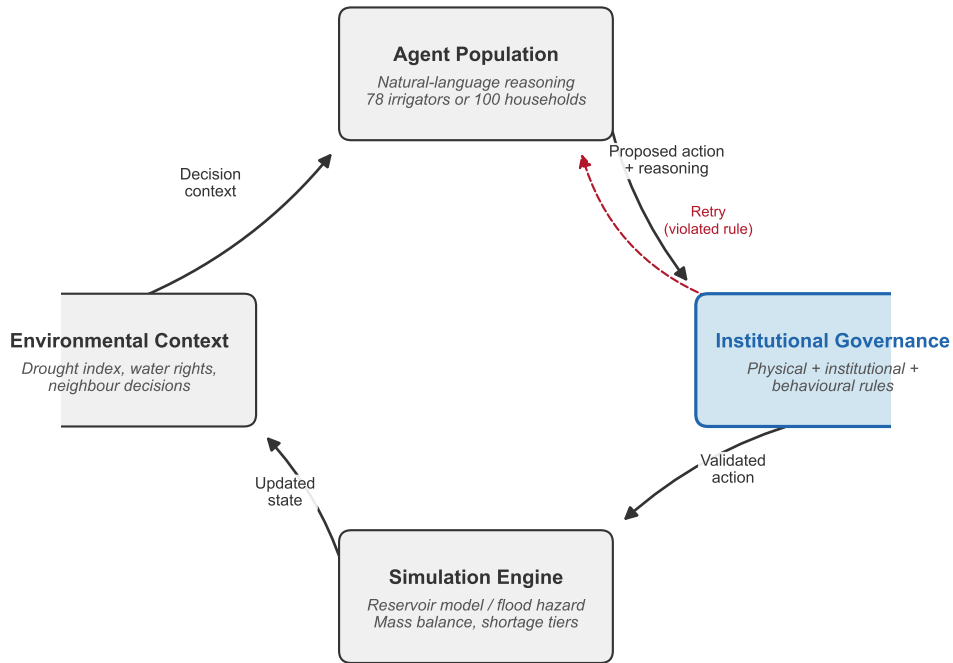


(a)



Each time step: every agent proposes an action; institutional rules validate it; the simulation executes validated actions and returns updated environmental signals.

(b)

### Governance pipeline (six-step institutional rule validation)

