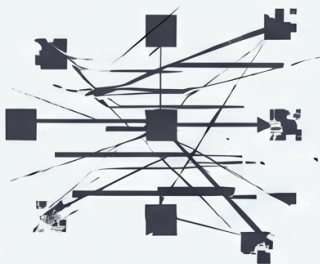


MANAGING THE MACHINES: ORGANIZATIONAL DESIGN FOR MULTI-AGENT AI

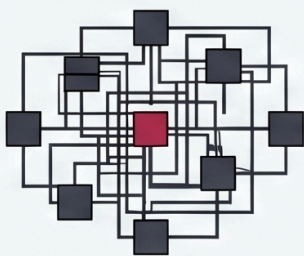
DIGITAL PATHOLOGIES

ACCOUNTABILITY DIFFUSION



Distributed responsibility among multiple agents obscures the root cause of systemic errors.

COORDINATION OVERHEAD



23% INCREASE

Adding a single routing agent can increase response latency by over 25%.

EMERGENT BEHAVIOR RISK

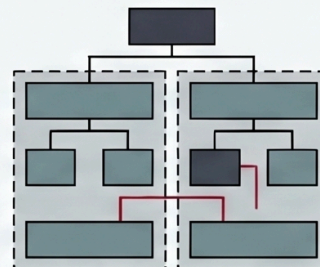


30% CONSUMED

Unintended feedback loops between agents can consume over 30% of compute resources.

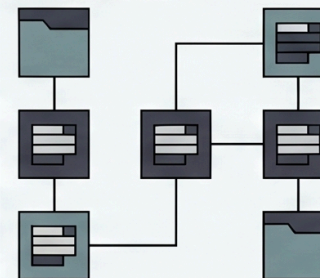
MANAGEMENT-LED DESIGN

EXPLICIT DECISION RIGHTS



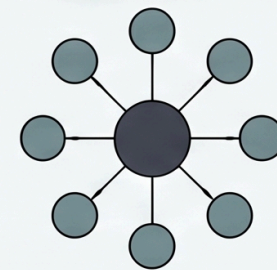
Define "spans of control" and RACI-style authority boundaries for every agent.

BOUNDARY OBJECTS



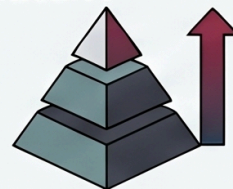
Use standardized data contracts and shared ontologies to ensure seamless inter-agent handoffs.

OPTIMAL SPAN OF CONTROL



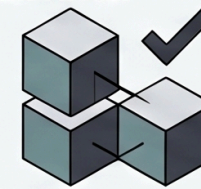
Limit direct agent dependencies to five or seven per orchestration layer.

HIERARCHICAL AUTHORITY



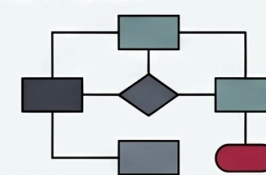
89% FIRST-CONTACT RESOLUTION
IN CUSTOMER SERVICE

SCHEMA VALIDATION



67% REDUCTION
IN AGENT INTEGRATION FAILURES

DECISION MATRICES



41% DECREASE
IN WORKFLOW ERRORS FOR FINANCIAL TASKS