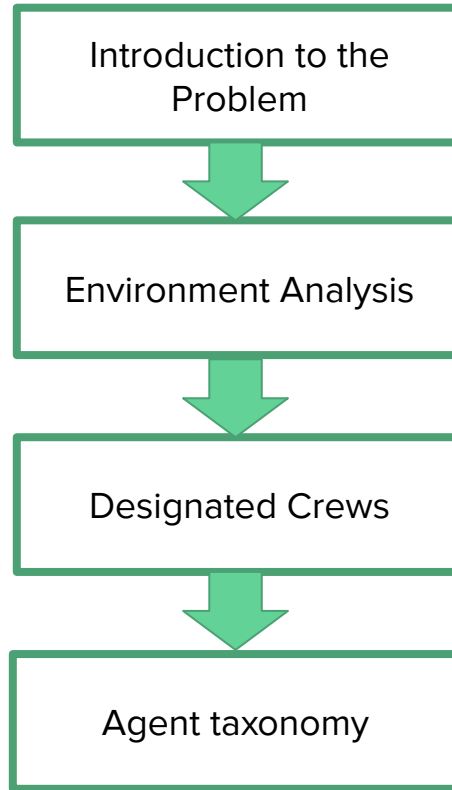


Design of a MAS for emergency Response Simulation in Urban Environments: Task 1.

MAS
03/11/2024

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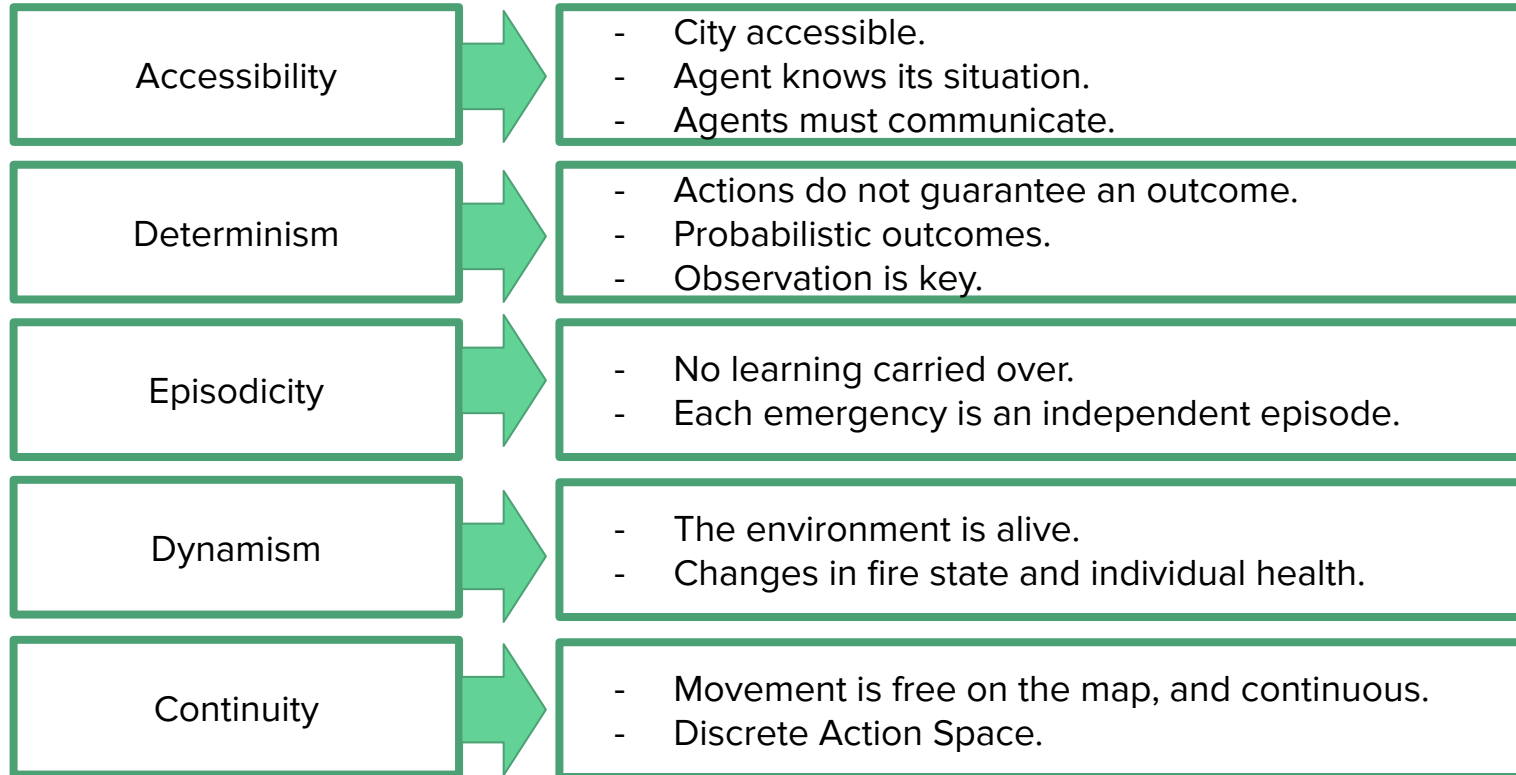
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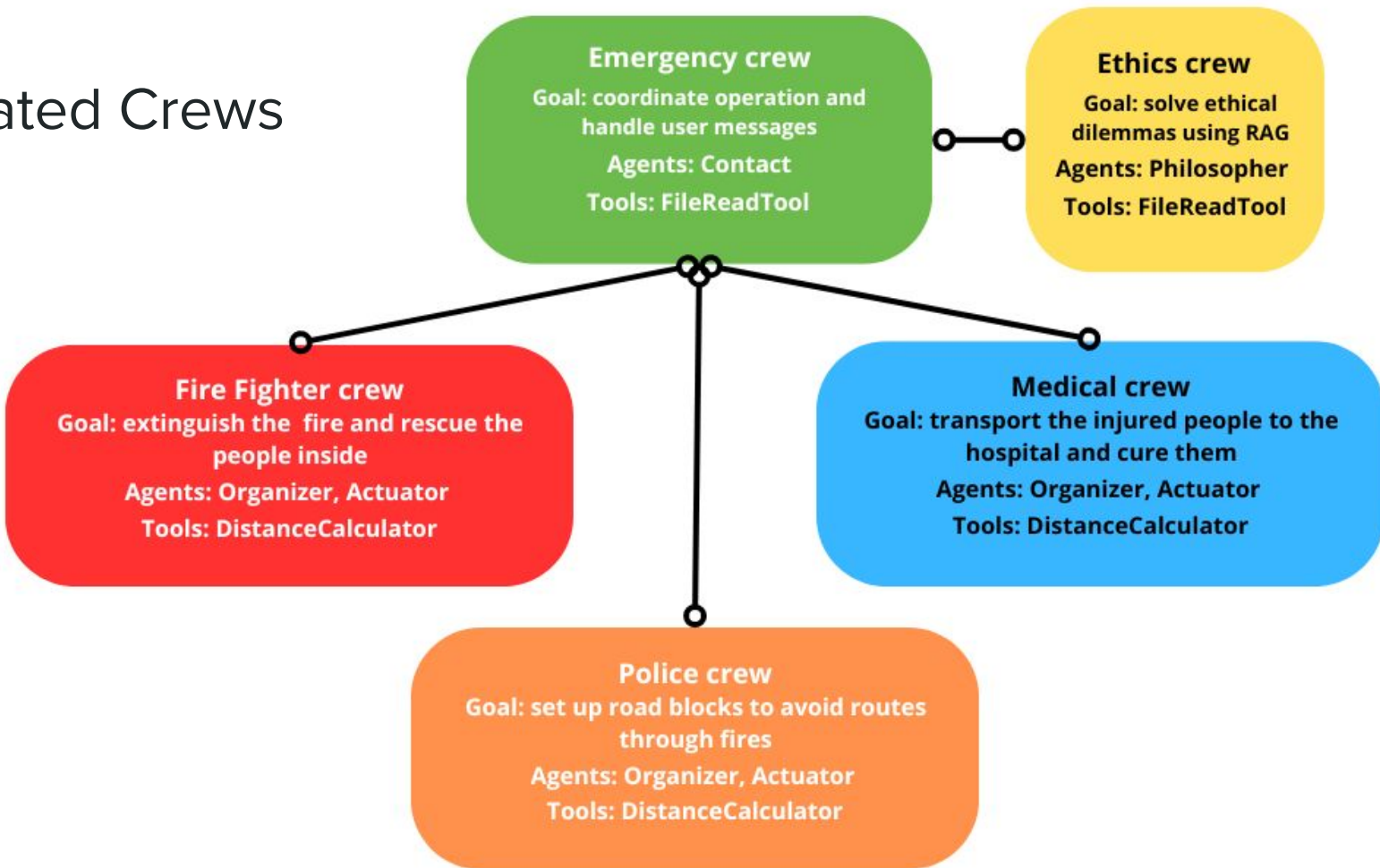
Introduction to the Problem



Environment Analysis



Designated Crews



Emergency & Ethics Agents

Emergency Crew

Receiver



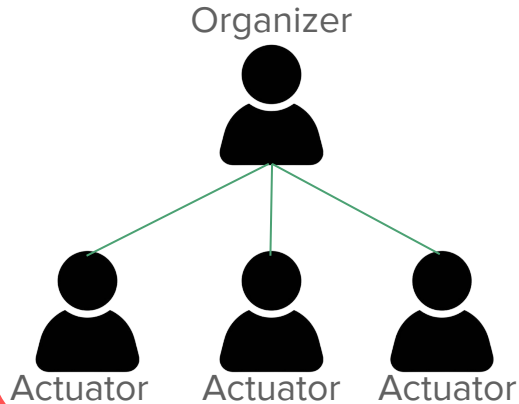
Ethics Crew

Philosopher

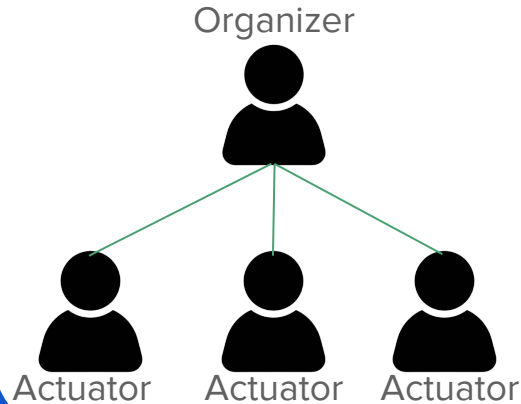


Firefighter, Medical & Police Agents

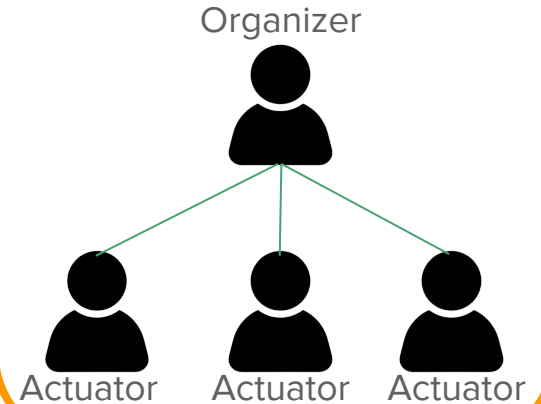
Firefighter Crew

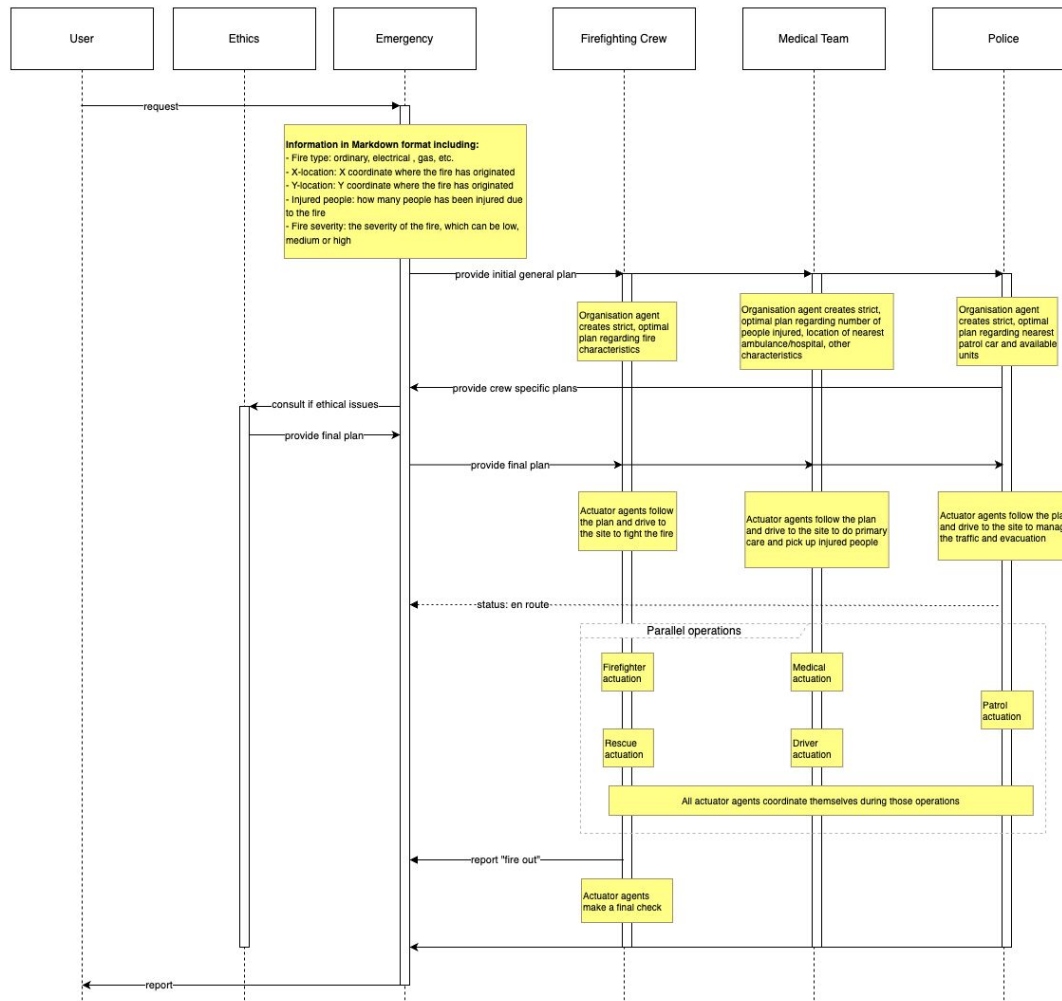


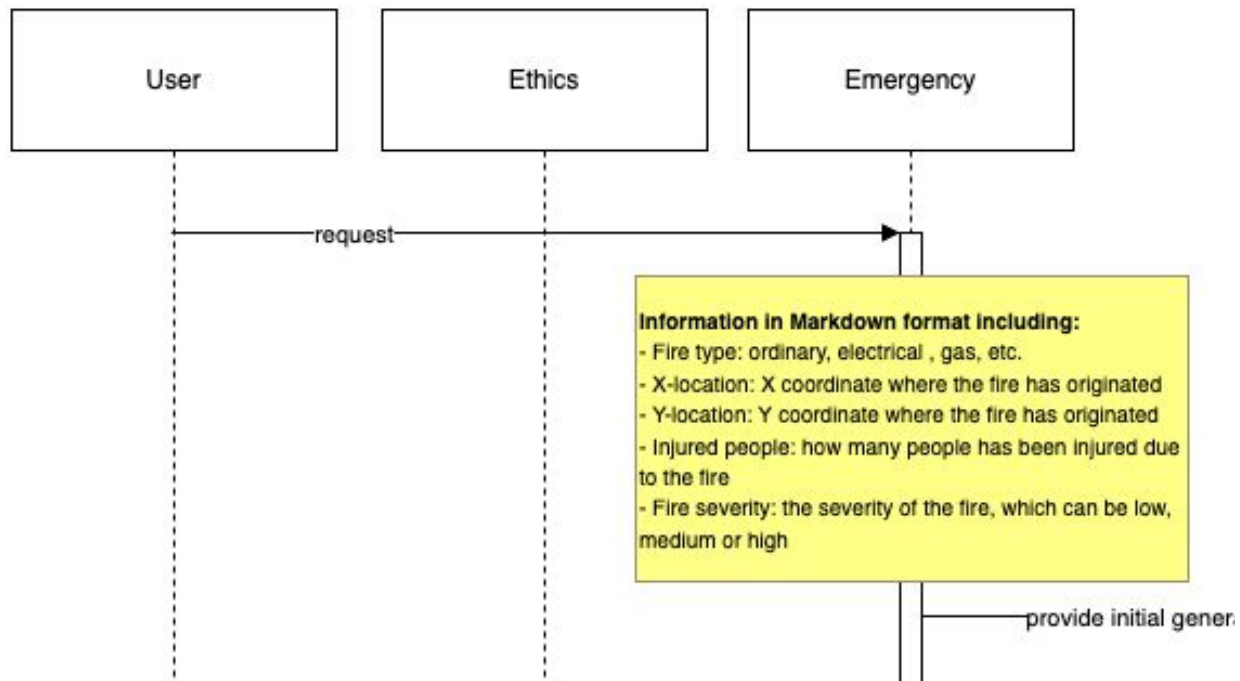
Medical Crew

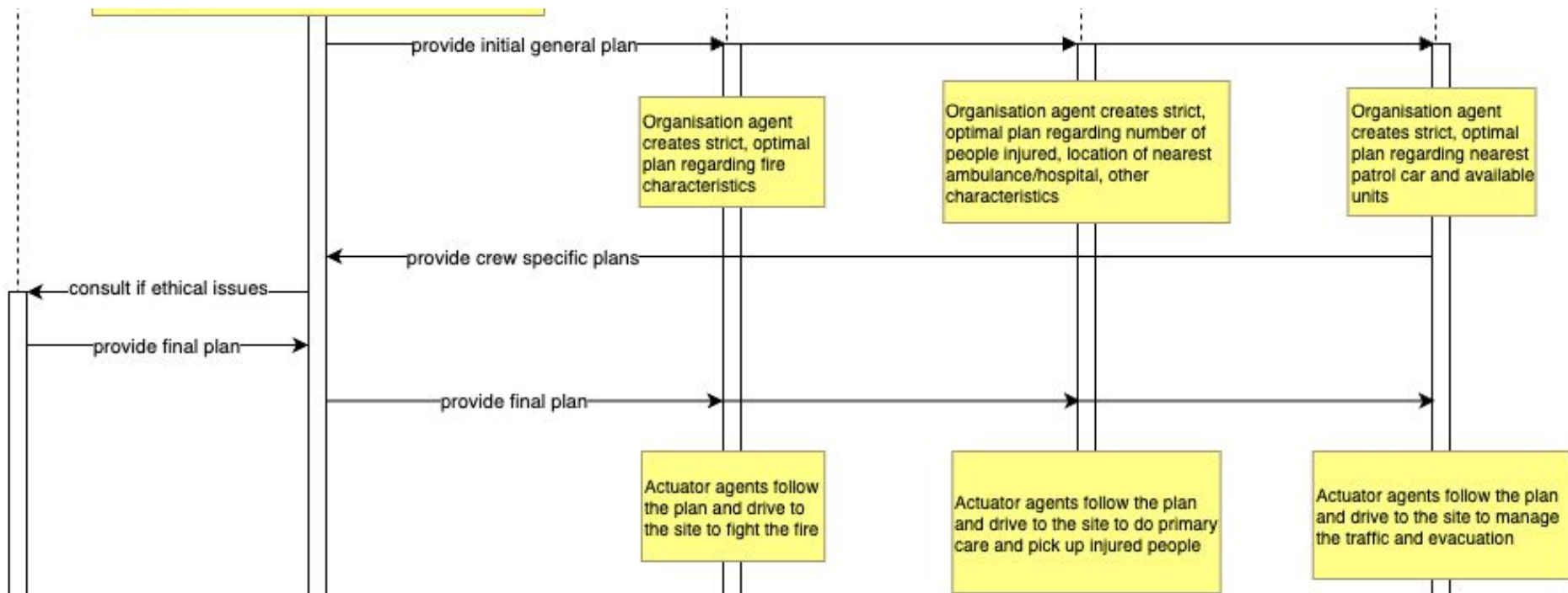


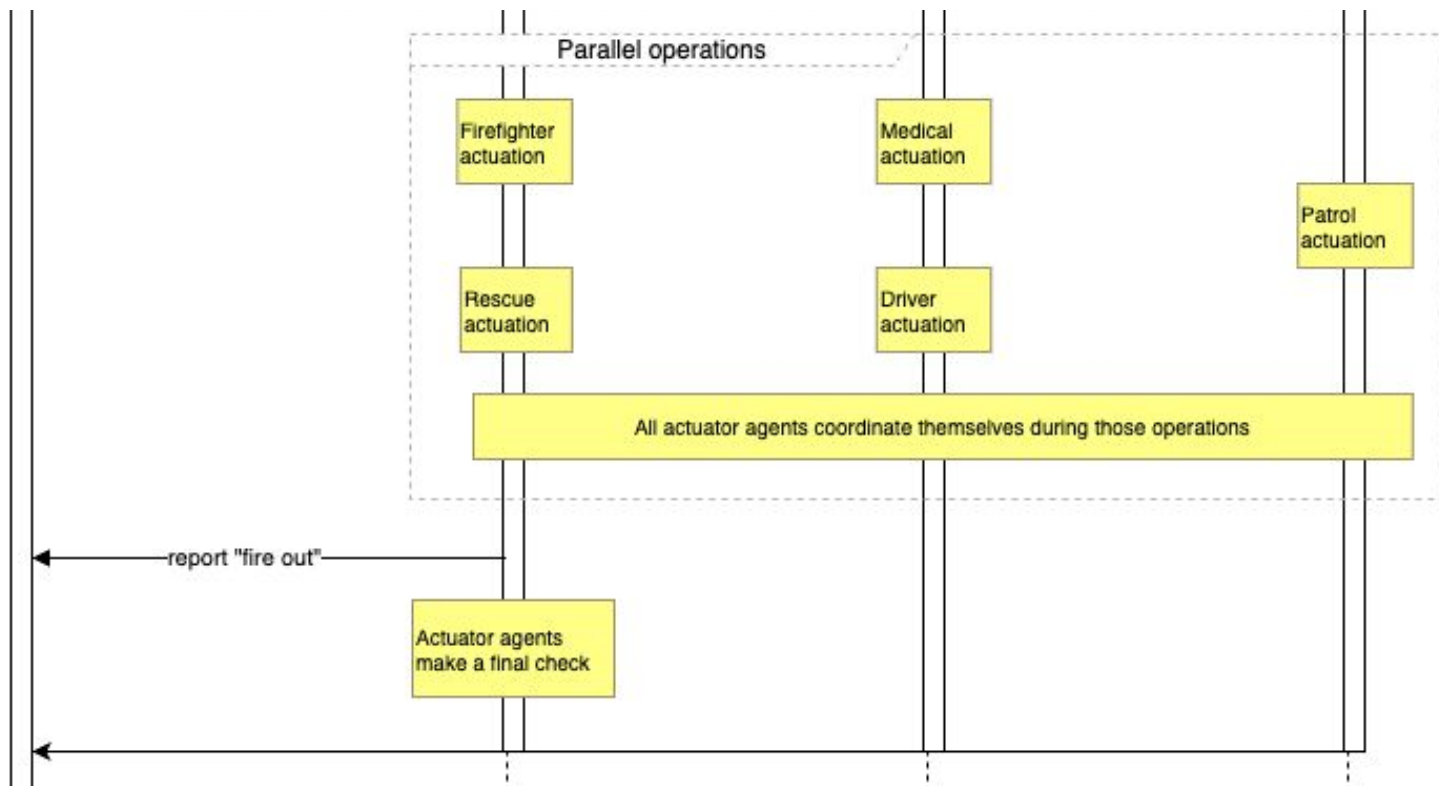
Police Crew











Agent Taxonomy

	Emergency	Firefighting Crew		Medical Team		Police Crew		Ethics Crew
	Contact Agent	Organization Agent	Actuator Agent	Organization Agent	Actuator Agent	Organization Agent	Actuator Agent	Philosopher Agent
Flexibility	YES	YES	YES	YES	YES	YES	YES	YES
Reactivity	YES	YES	YES	YES	YES	YES	YES	YES
Proactiveness	NO	YES	YES	YES	YES	YES	YES	NO
Social Ability	YES	YES	YES	YES	YES	YES	YES	YES
Rationality	YES	YES	YES	YES	YES	YES	YES	YES
Reasoning	YES	YES	LESS	YES	LESS	YES	LESS	YES
Learning	NO	NO	NO	NO	NO	NO	NO	NO
Autonomy	HIGH	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH
Temporal continuity	YES	YES	YES	YES	YES	YES	YES	YES
Mobility	NO	NO	YES	NO	YES	NO	YES	NO

Any questions?