

# Emergency Response Multi-Agent System

## Design Presentation

Team Name

October 30, 2024

# Outline

- 1 Introduction
- 2 City Selection
- 3 Environment
- 4 Agent Crews
  - Emergency Services
  - Medical Services
  - Firefighters
  - Public Communications

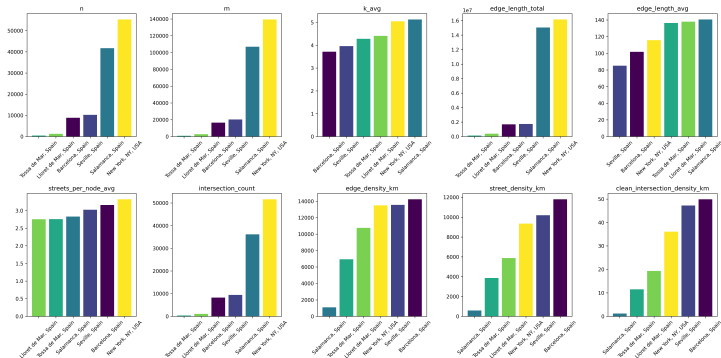
# Introduction

- Multi-agent system for fire-related emergencies in Lloret de Mar
- Five specialized response teams using CrewAI:
  - Emergency services
  - Medical services
  - Firefighters
  - Public communications
  - Forensics team

# City Selection

- Selection criteria
- Candidate cities
- Evaluation metrics
- Final selection: Lloret de Mar

# Map Analysis



# Environment Properties

- Accessibility: Partially Observable
- Determinism: Non-deterministic
- Episodicity: Non-episodic
- Dynamics: Dynamic
- Continuity: Continuous

# Agent Crews Overview

Five specialized teams:

- 1 Emergency Services
- 2 Medical Services
- 3 Firefighters
- 4 Public Communications
- 5 Forensics Team

# Emergency Services

- Emergency Call Agent
  - Main task: Receive and assess calls
  - Type: Interface agent
- Notification Agent
  - Main task: Relay information
  - Type: Facilitator agent



# Medical Services

- Medical Services Operator
- Hospital Coordinator
- Paramedic Teams

# Firefighters

- Fire Chief
- Equipment Technician
- Fire Combatant

# Public Communications

- Facilitator Agent
- Information Agent
- Article Writer
- Mayor
- Social Media Commentator

# References

- Key references from bibliography