# Emergency Response Multi-Agent System Design Presentation

Team Name

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## Outline

- Introduction
- 2 City Selection
- Environment
- 4 Agent Crews
  - Emergency Services
  - Firefighters
  - Medical Services
  - Forensics Team
  - 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

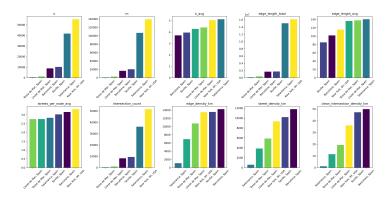


## City Selection

- Selection criteria
- Candidate cities
- Evaluation metrics
- Final selection: I loret 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:

- Emergency Services
- Firefighters
- Medical Services
- Forensics Team
- Public Communications



# **Emergency Services**

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

# Firefighters

- Fire Chief
- Equipment Technician
- Fire Combatant

## **Medical Services**

- Medical Services Operator
- Hospital Coordinator
- Paramedic Teams

#### Forensics Team

- Investigates causes and origins of fires
- Collects and analyzes evidence
- Documents findings for future prevention
- Collaborates with other emergency teams

## **Public Communications**

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



## References

• Key references from bibliography

