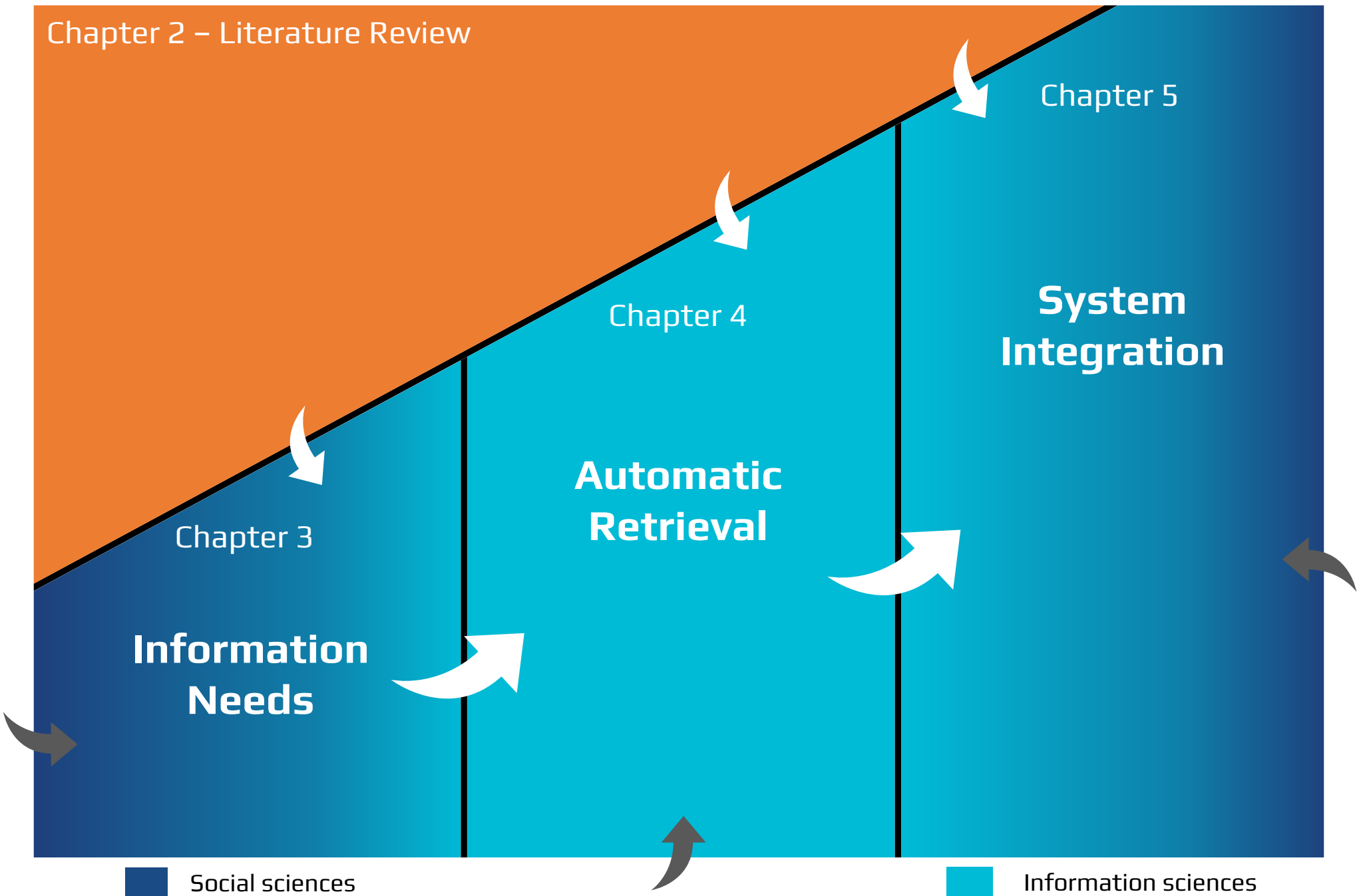
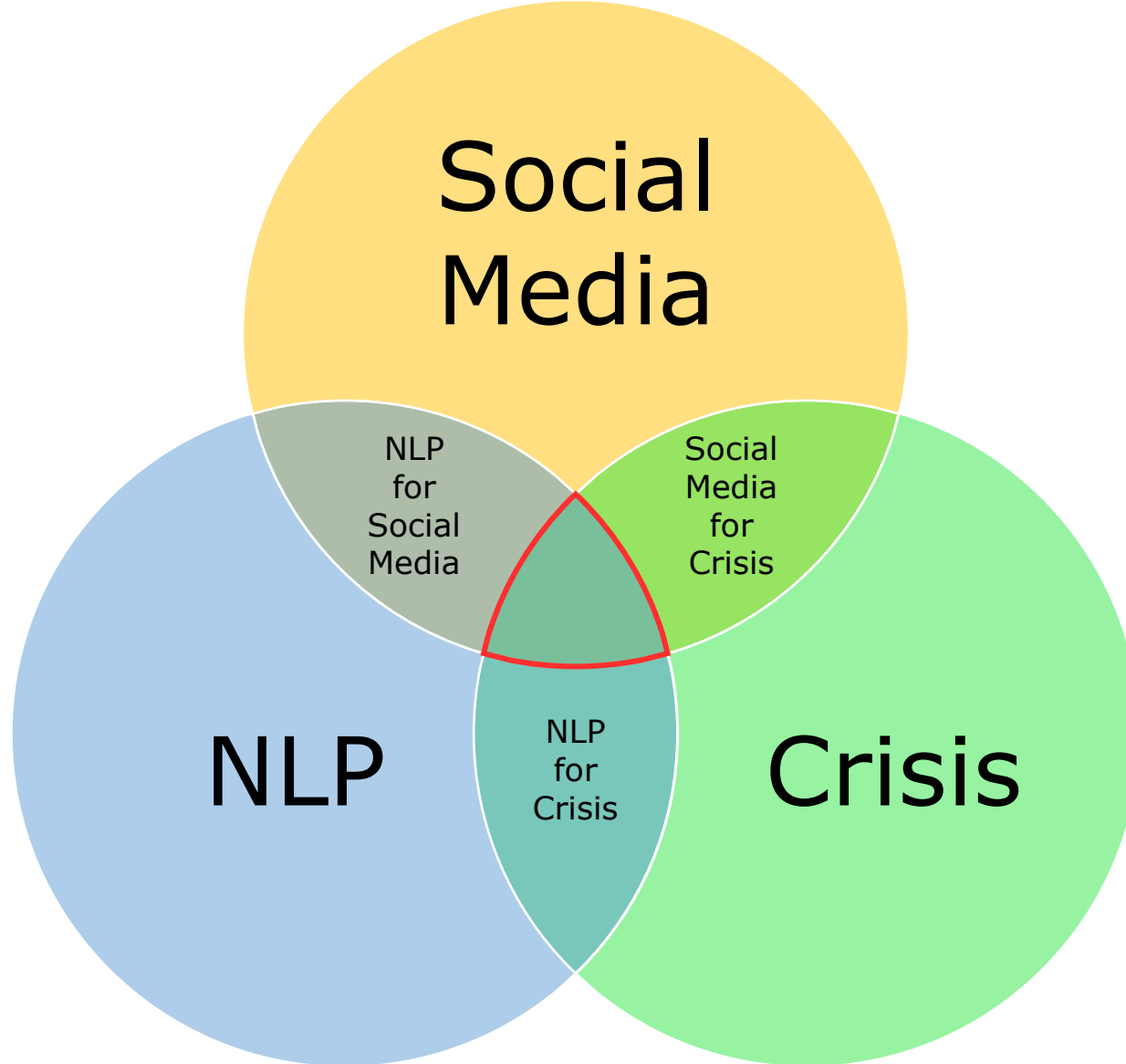
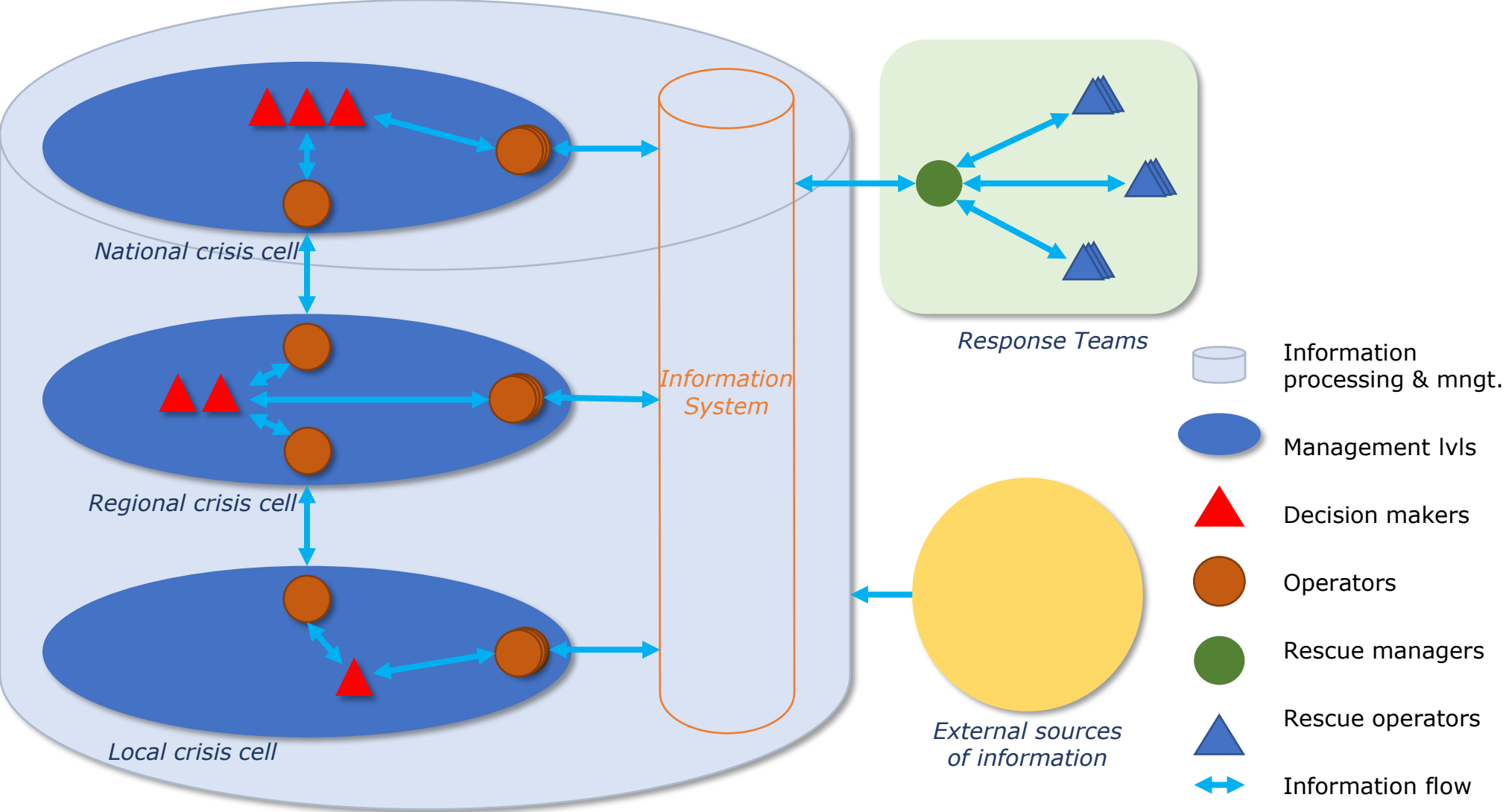


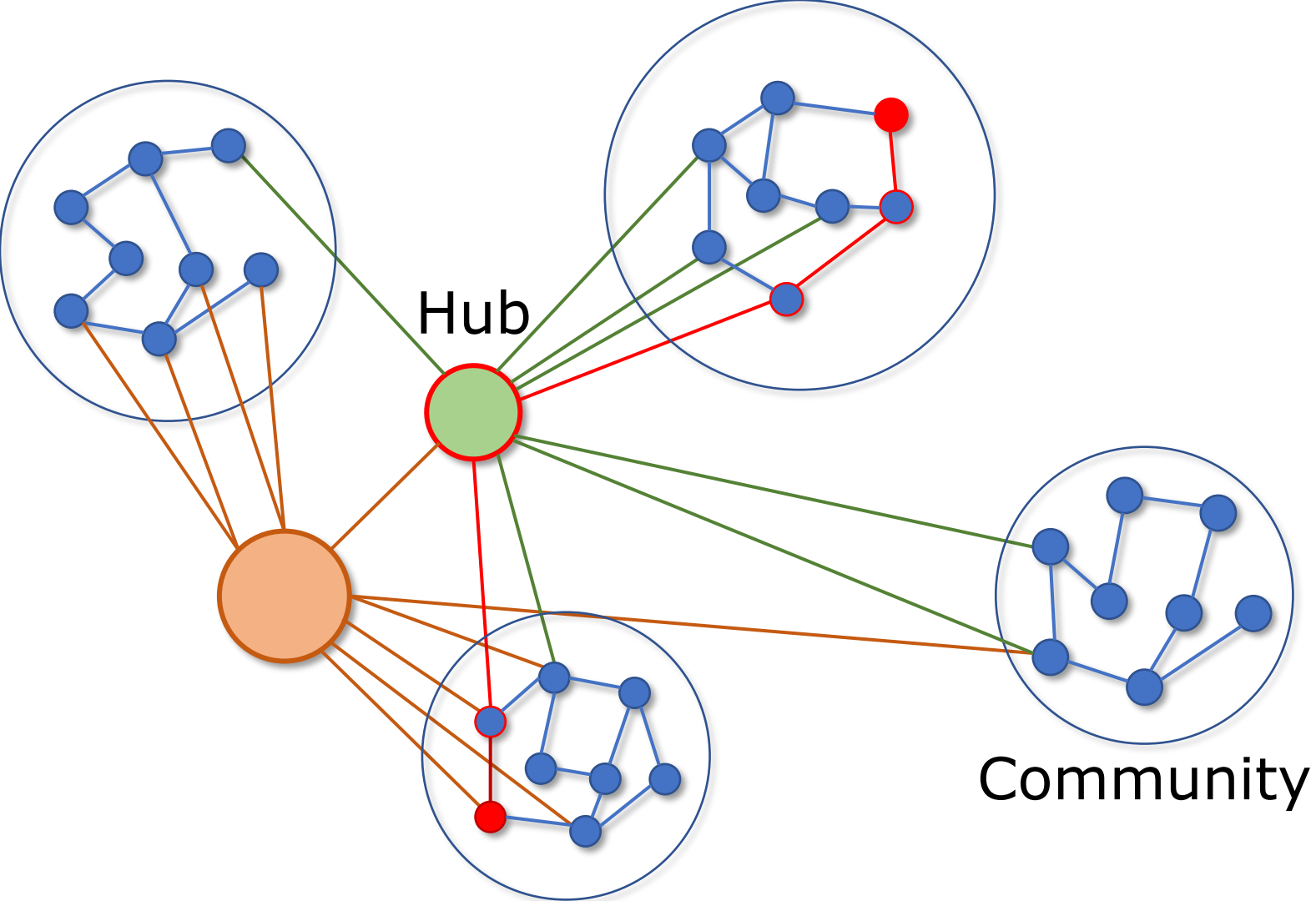
Chapter 1 - Context





Scope of this manuscript





Danger

+



Risks

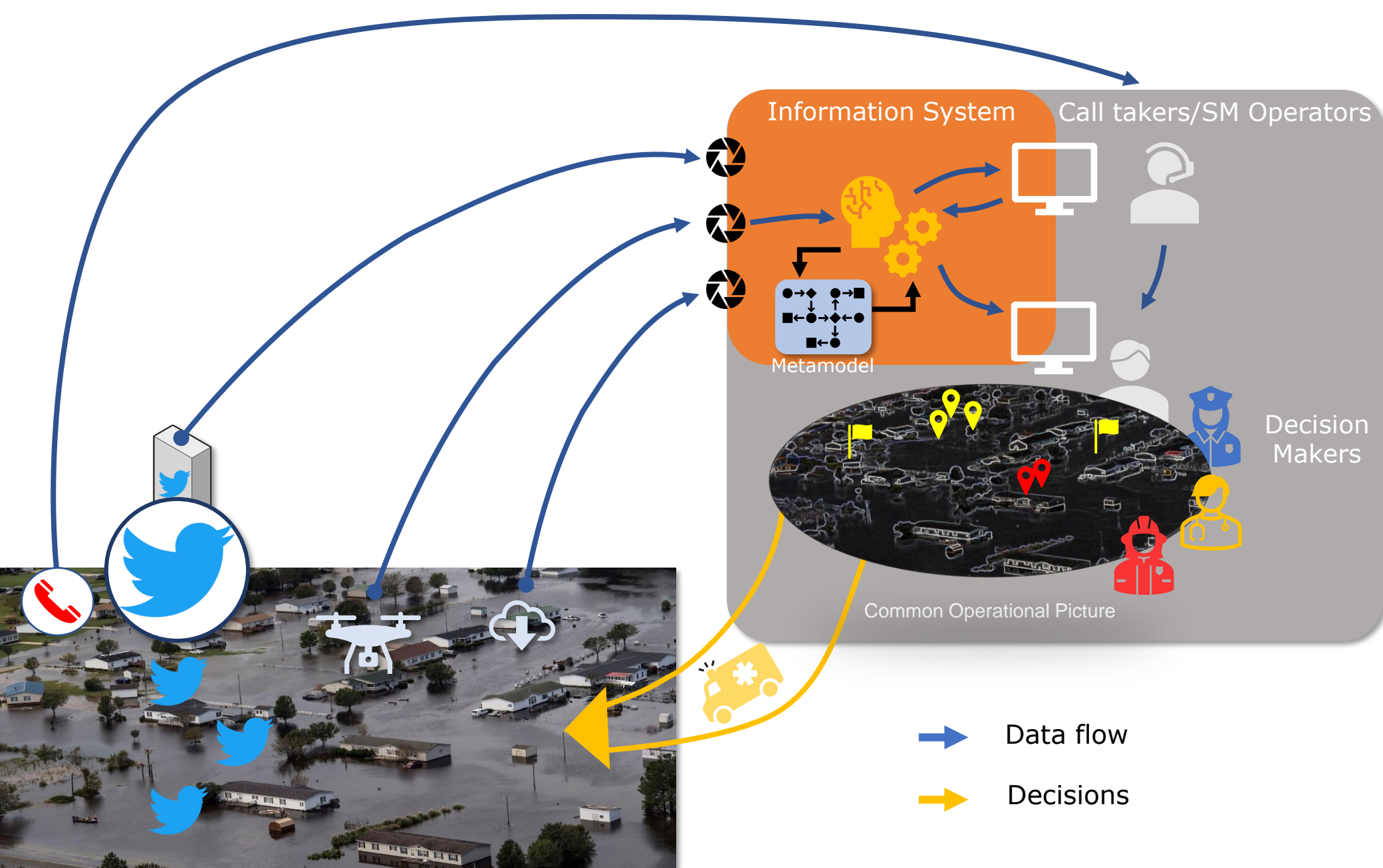
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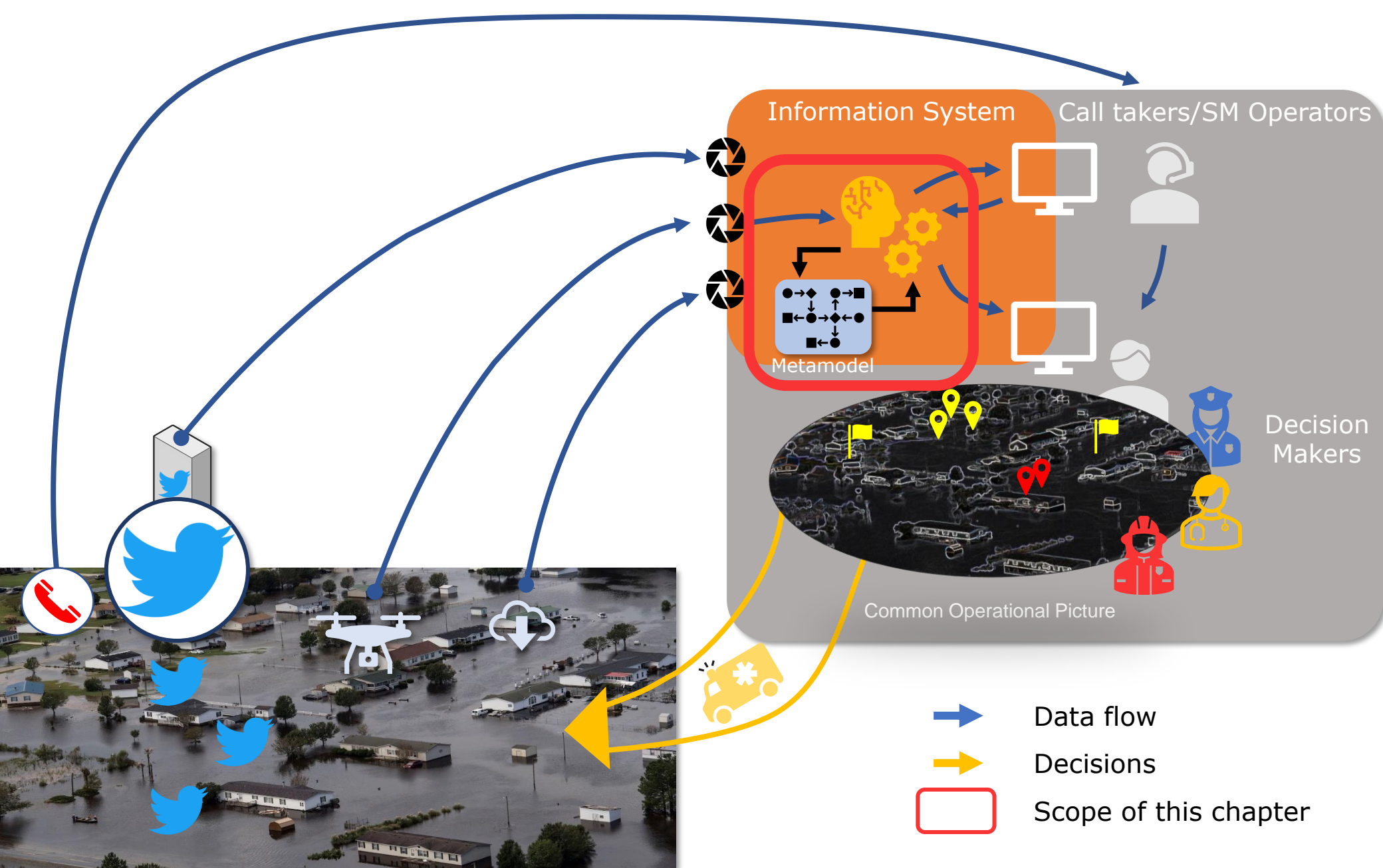


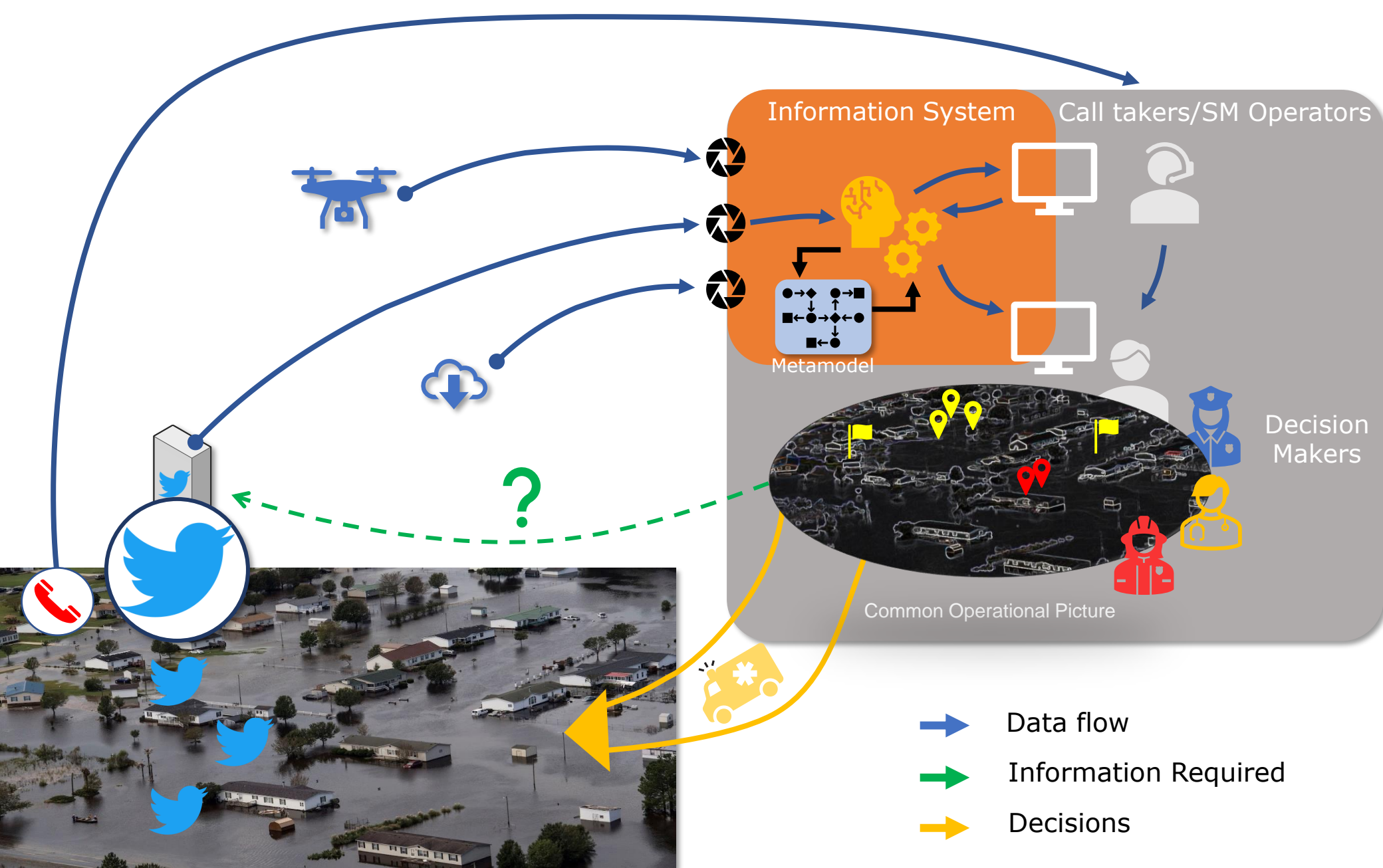
Stakes

Consequence

Event







Social sciences

Information sciences

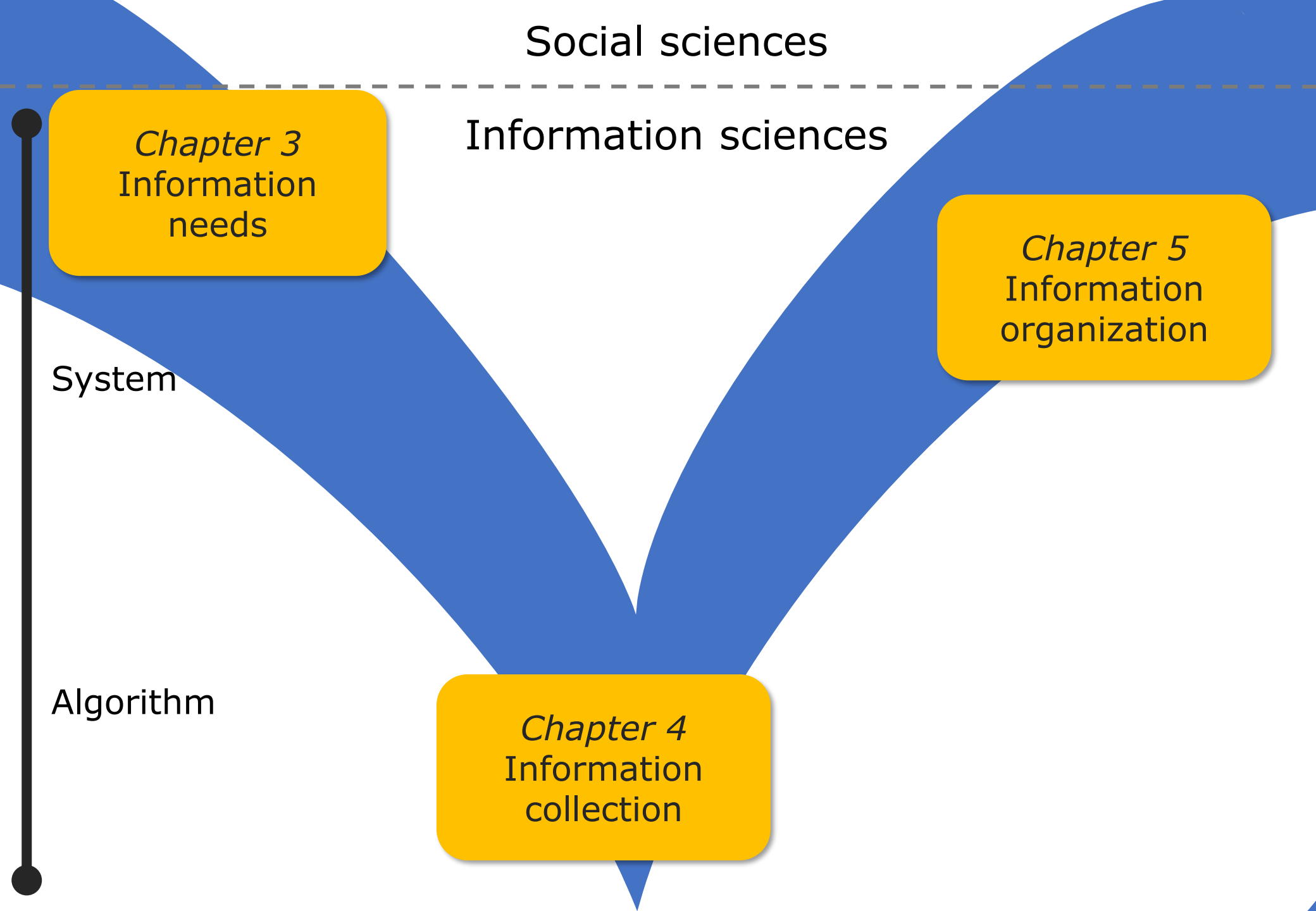
Chapter 3
Information
needs

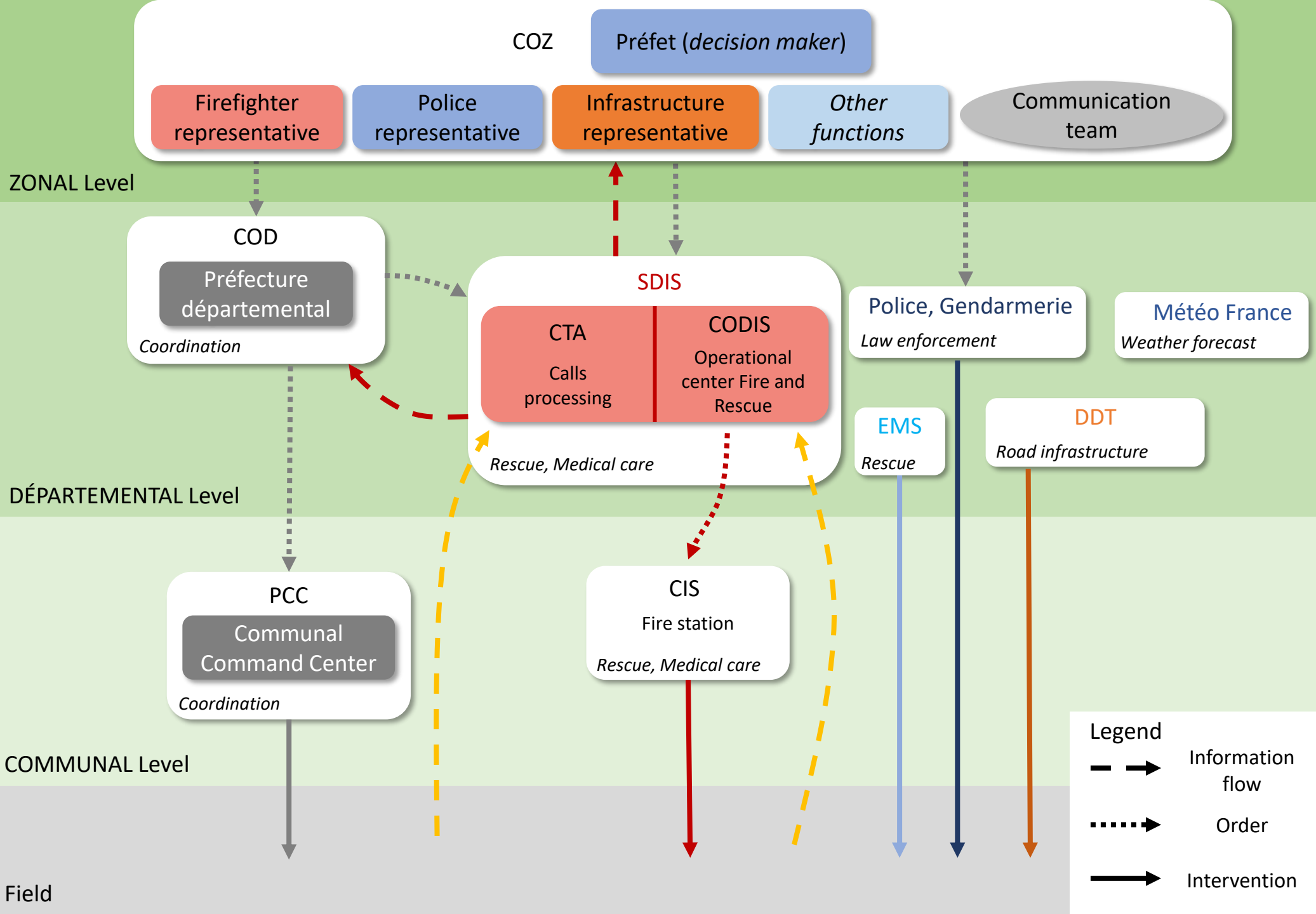
Chapter 5
Information
organization

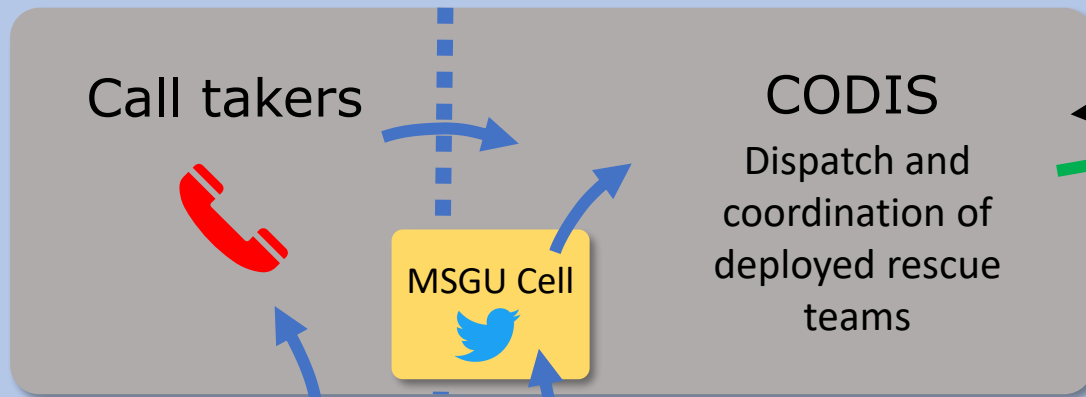
Chapter 4
Information
collection

System

Algorithm



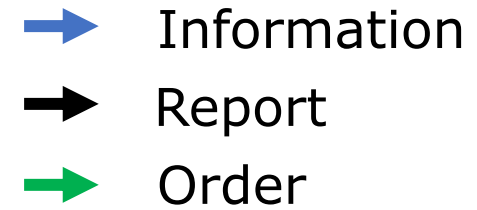




Emergency Response
Command

Simulation Cell (+ VISOV)

Provides inputs for the different
actors according to the exercise plan



Préfecture Vienne

Representatives:

- *Firefighters*
- *Police*
- *Infrastructure*

COD

Dispatch information and coordination the different services

Communication Cell

Simulation Cell

Provides inputs for the different actors according to the exercise plan

VISOV



- Information
- Report
- Order

COZ SO

Representatives:

- Firefighters
- Police
- Infrastructure

COZ

Dispatch

information and
coordination the
different services

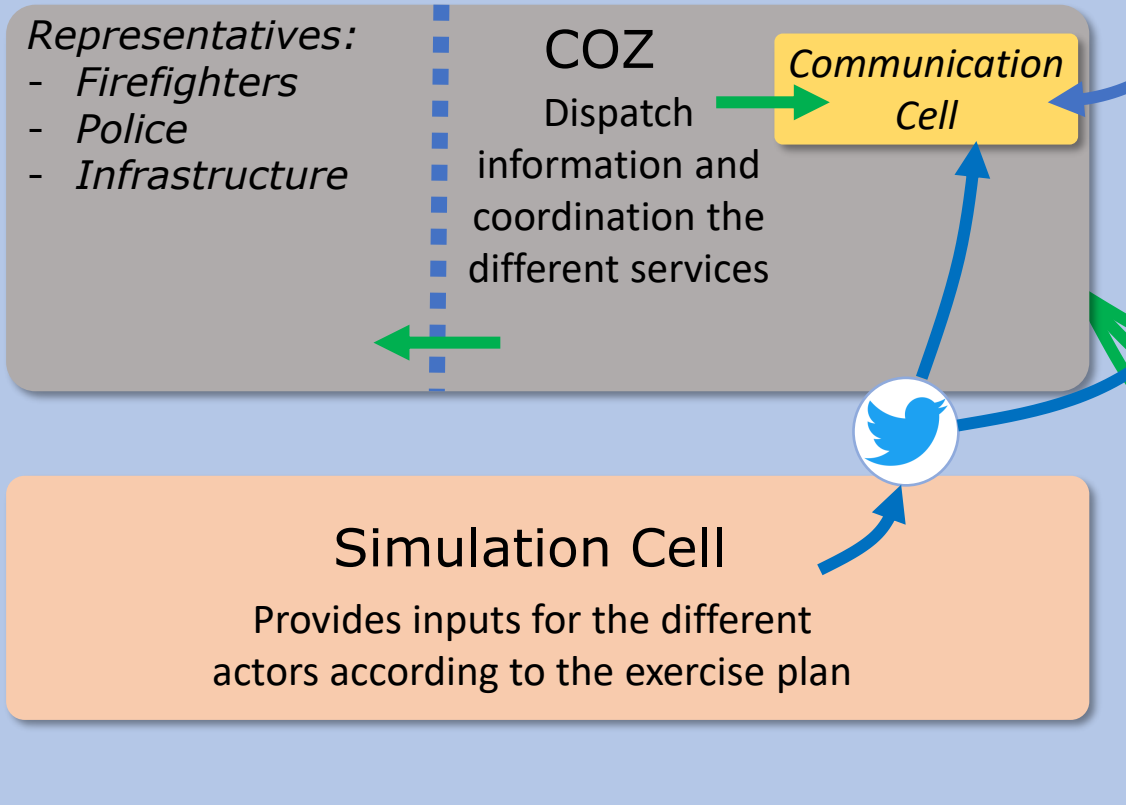
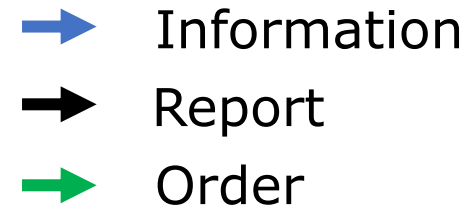
Communication
Cell

VISOV

COD

Simulation Cell

Provides inputs for the different
actors according to the exercise plan



Information

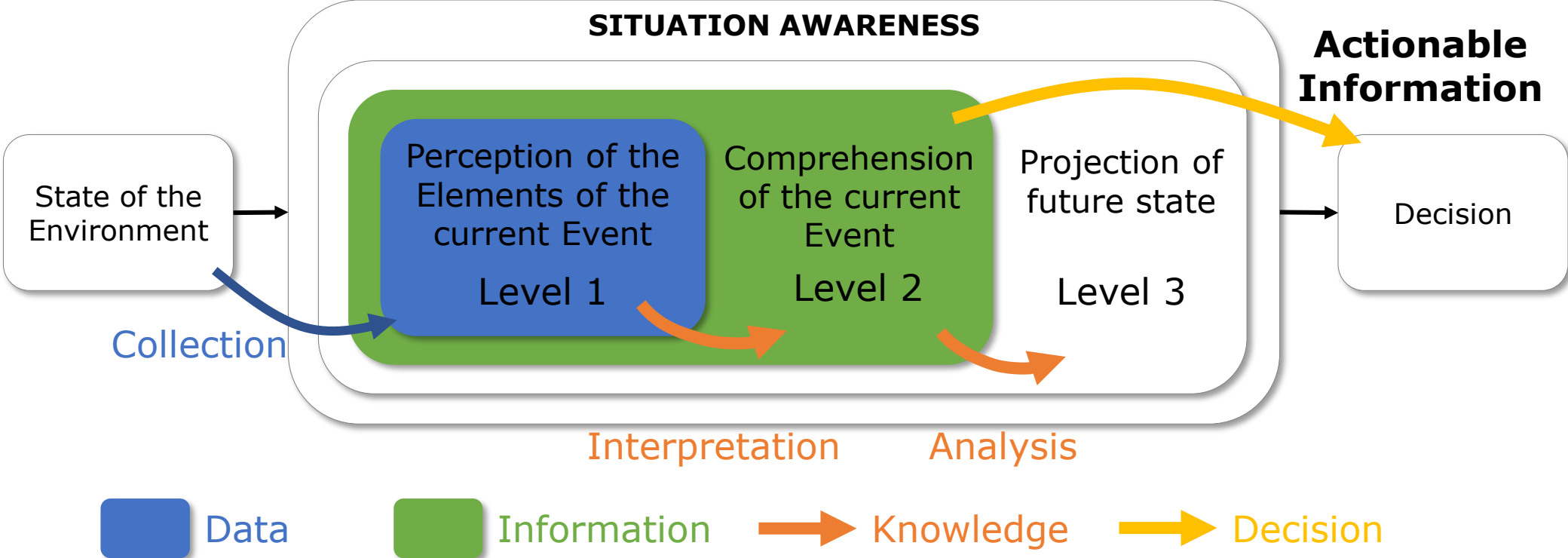
Organization

Situational Awareness

- Event
- Environment conditions
- Actors already involved
- Responders' needs
- Resources available

Actionable

- Location
- Credible
- Context
- Right role
- Timely





Legend



EMS



















Police

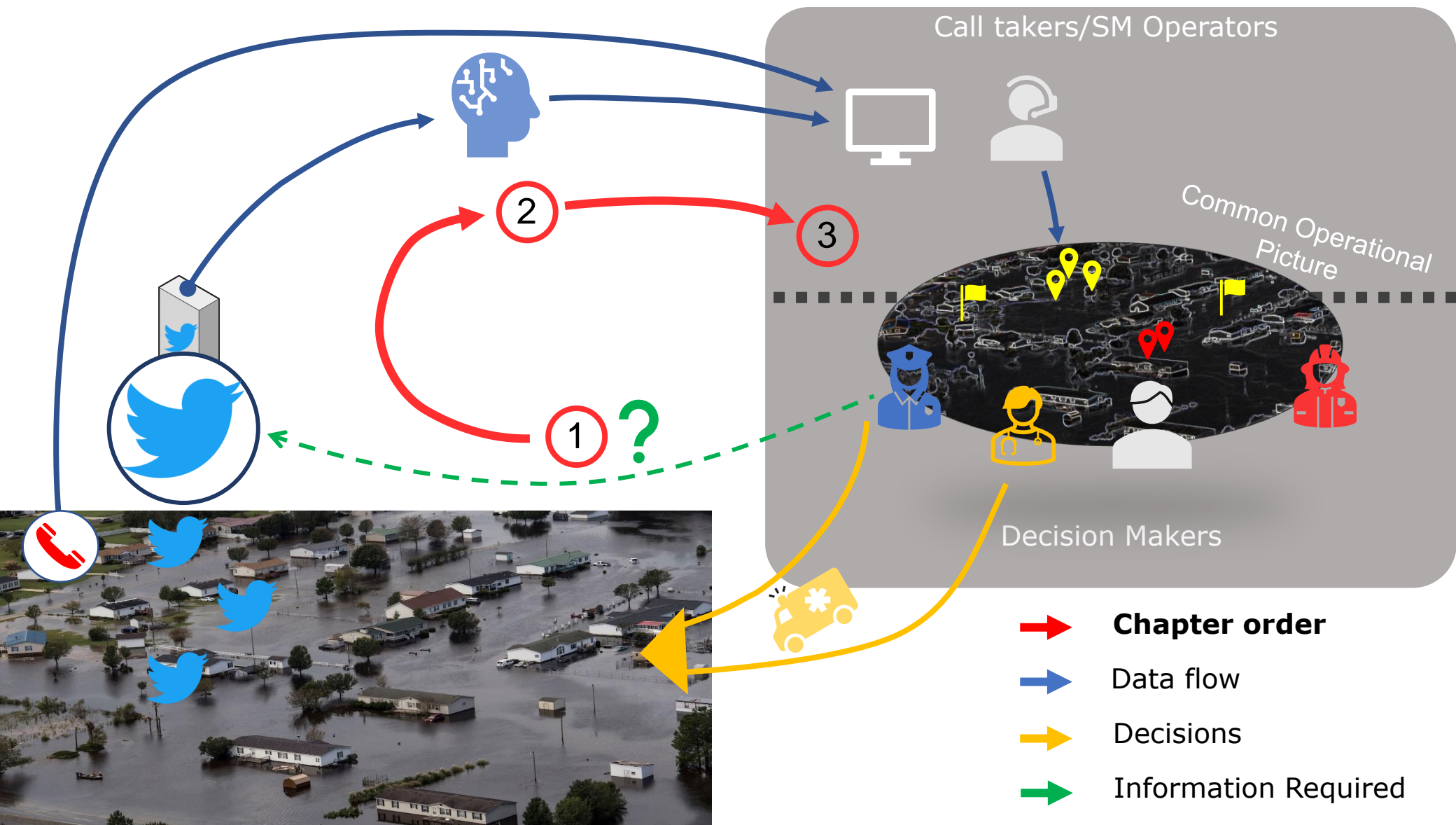


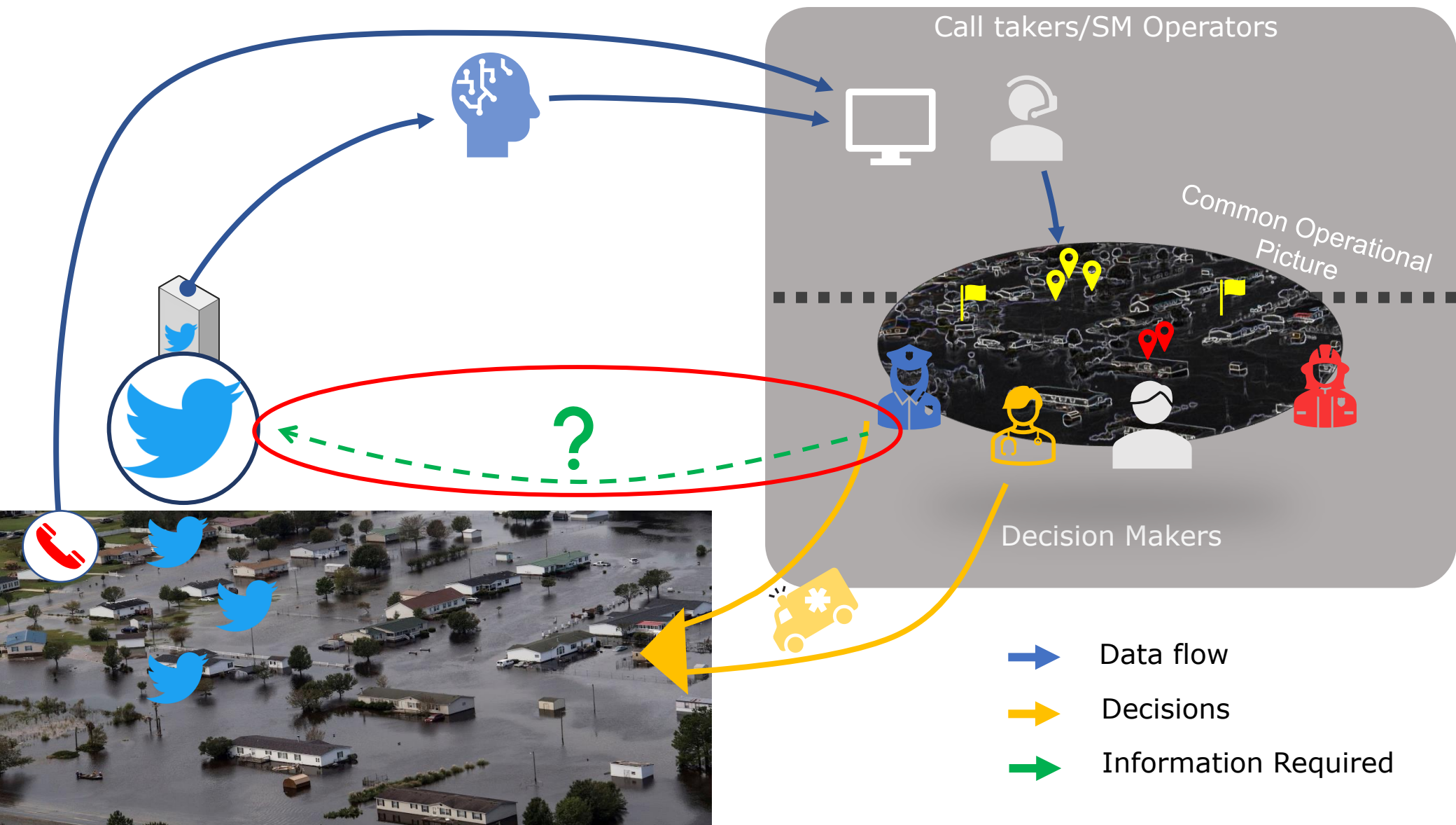
Firefighters

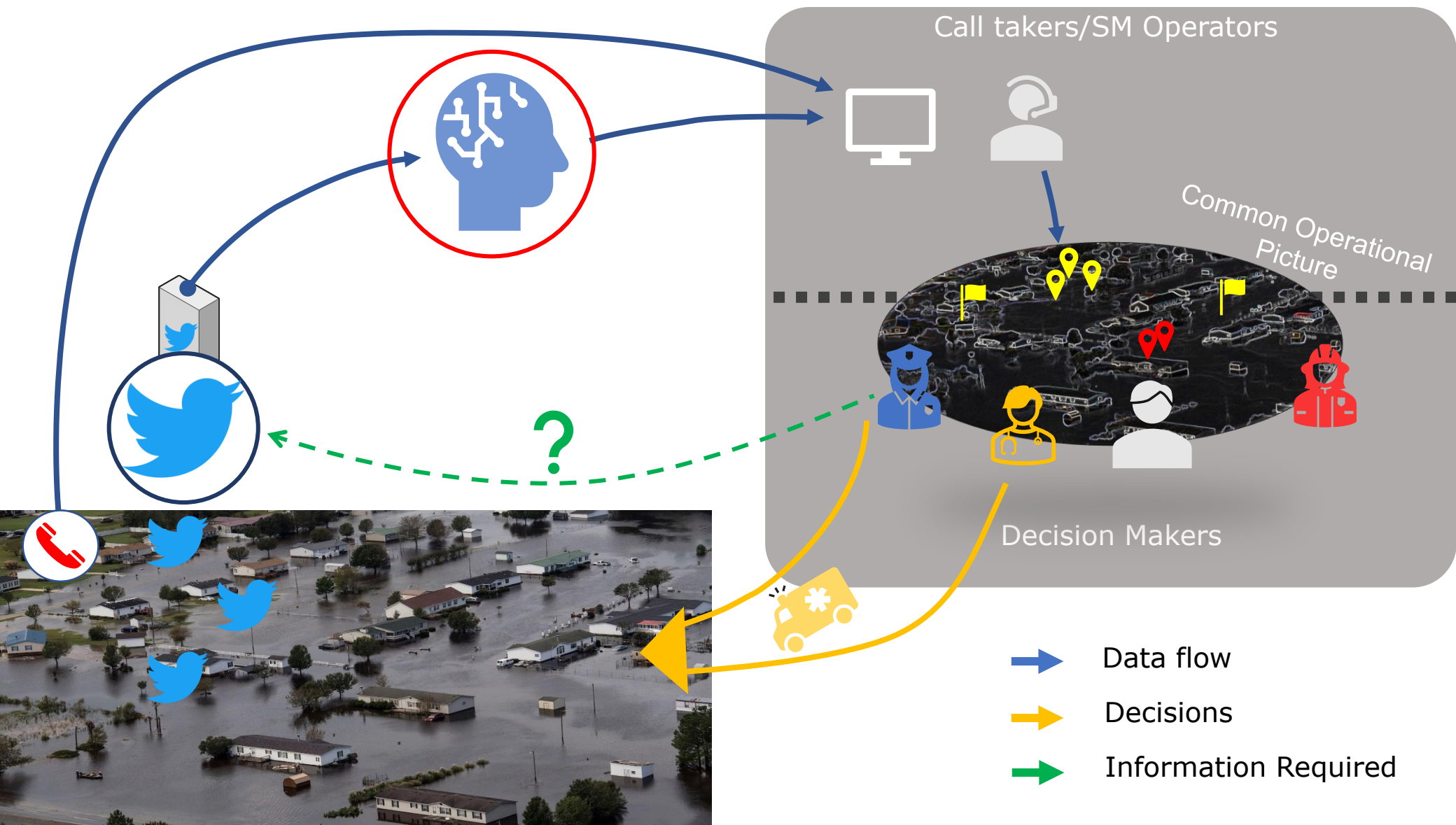


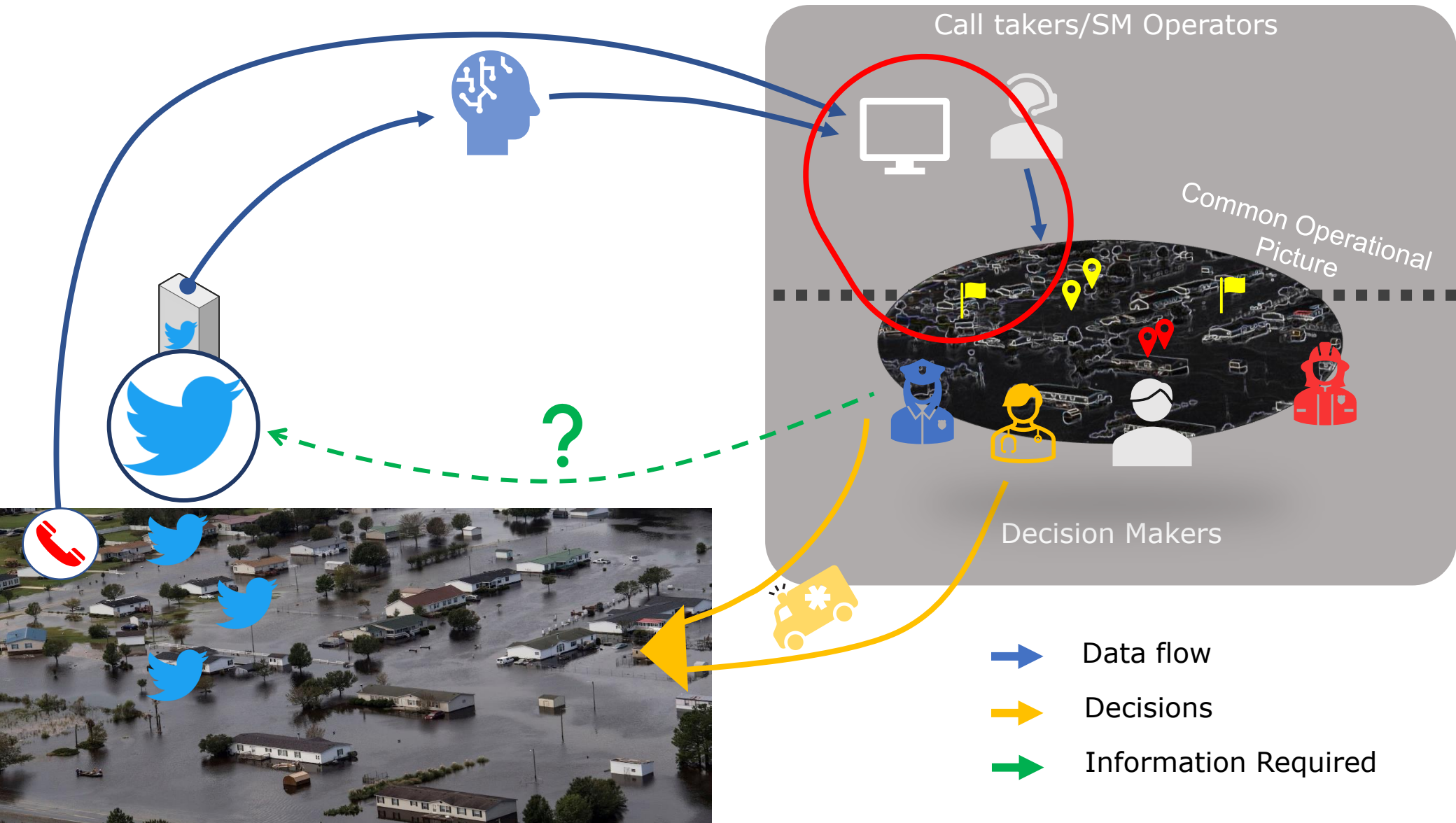
Event

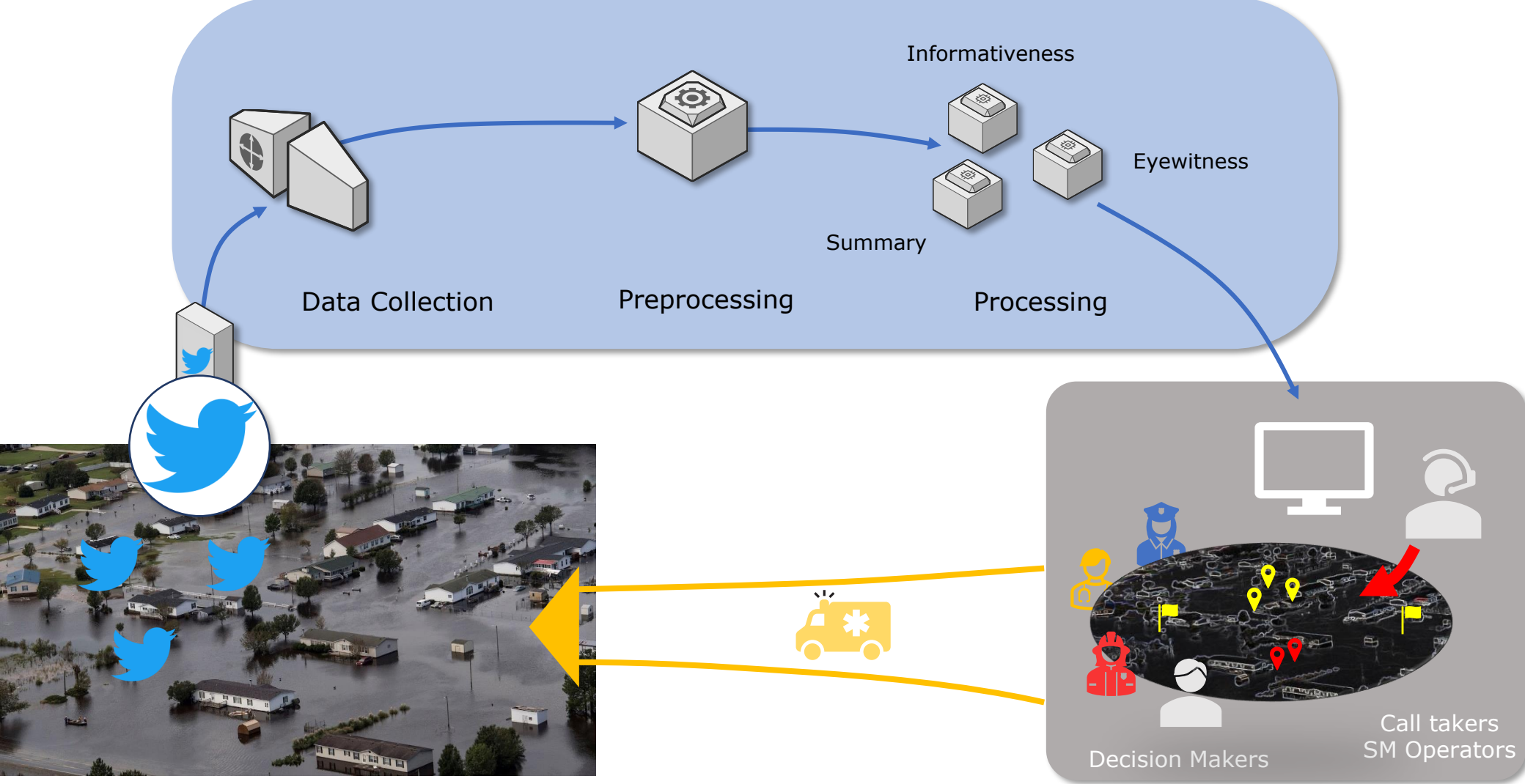
Time	t1	t1	t1	t1	
Event					
Location					
Event Context		 			
Environment					
Response					
Needs					
Resources	  	  	  		  



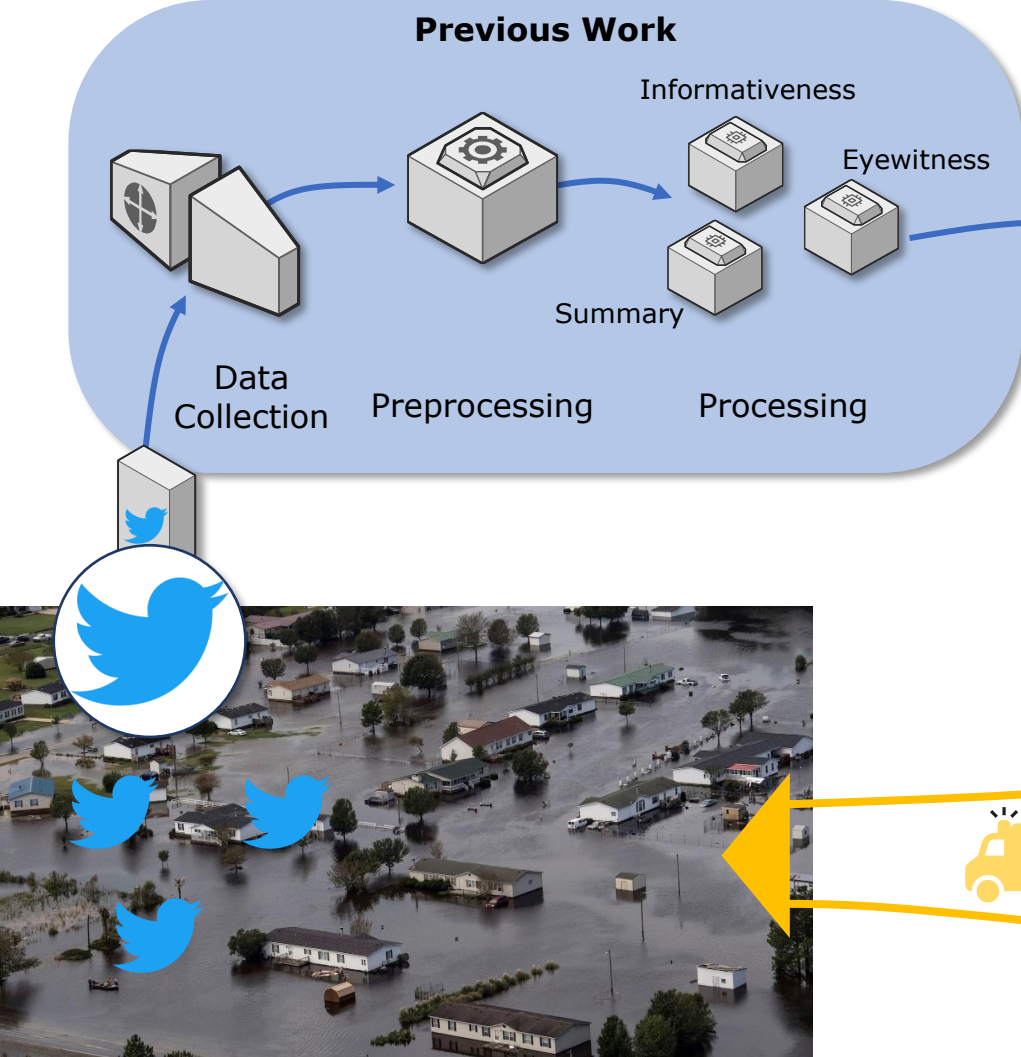




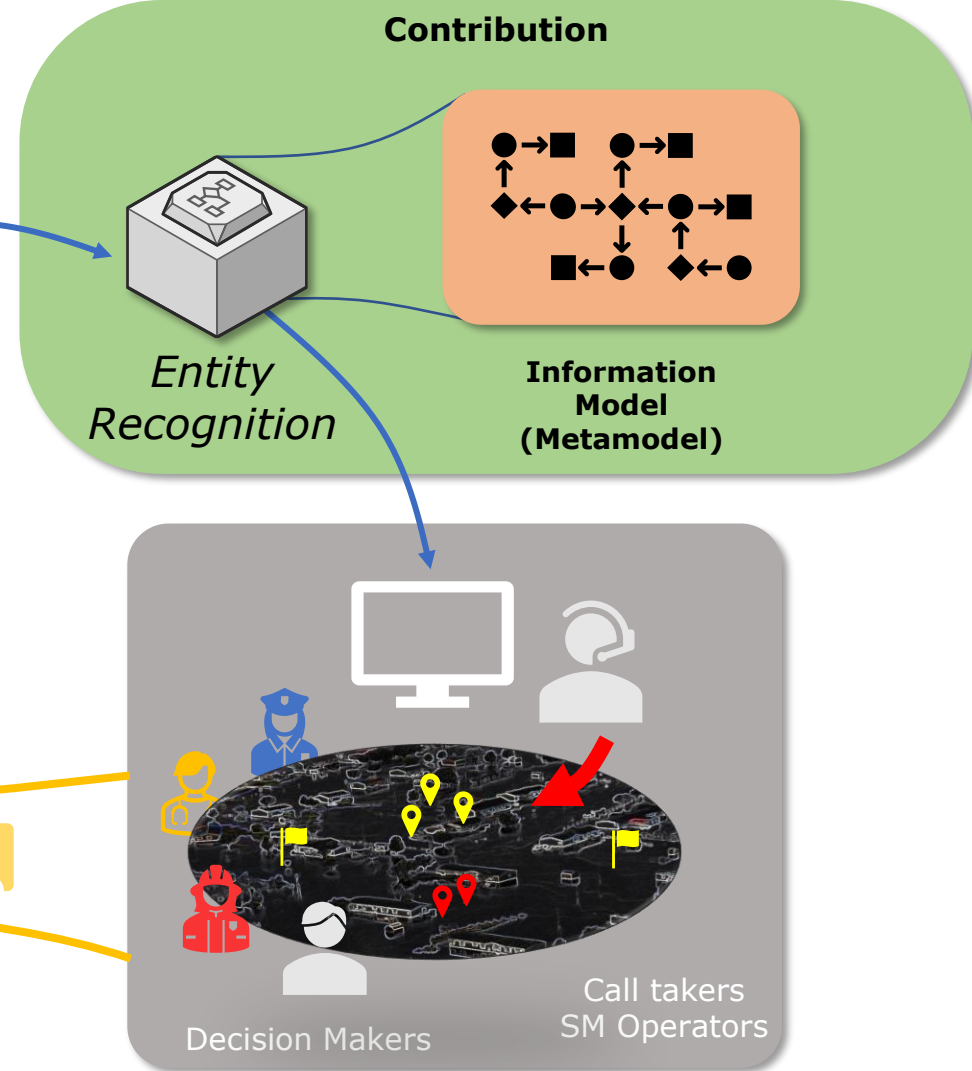


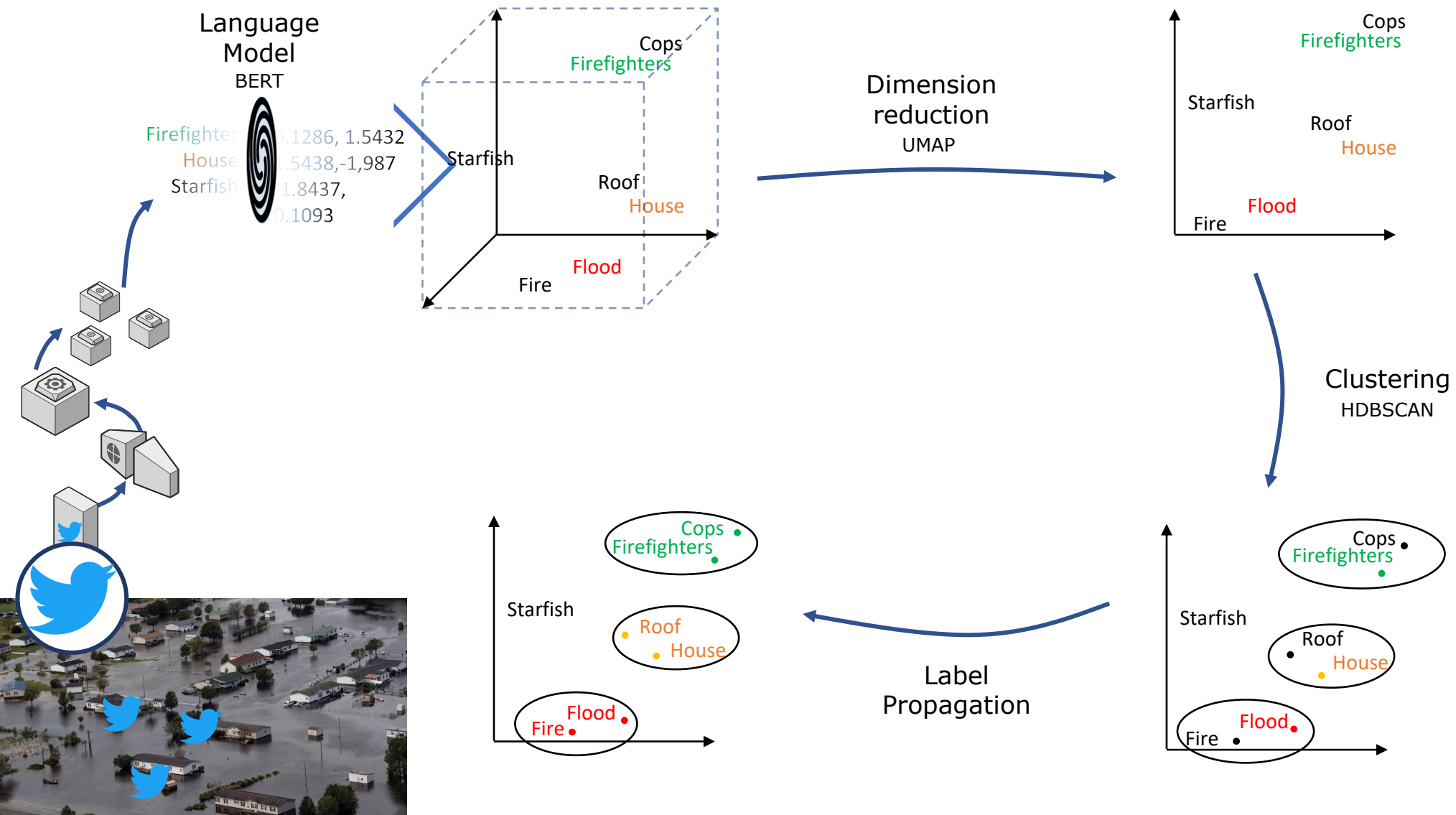


Previous Work



Contribution





Event

- location: Location
- type: str
- cause: str
- severity: str
- other: str

Environment

- area details: str
- population density: int
- hazards: Hazard
- other: str

Actors Involved

- professionals: Actors
- civilians: Actors
- resources: Equipment
- other: str

Actors Needs

- actors: Actors
- equipment: Equipment
- casualties: int
- other: str

Resources Available

- actors: Actors
- equipment: Equipment
- other: str

Location

- indication: str
- address: int

Hazard

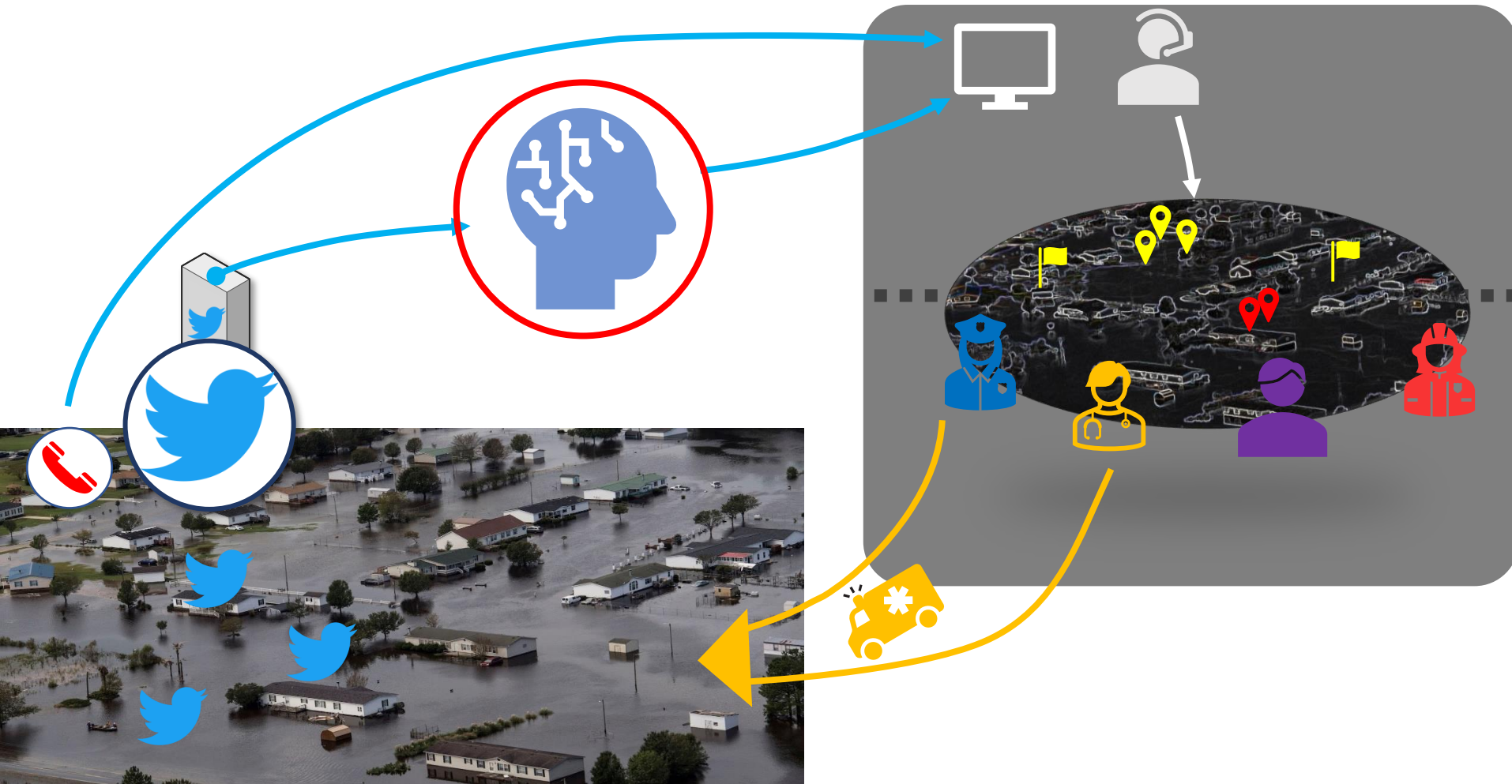
- type: str
- location: Location

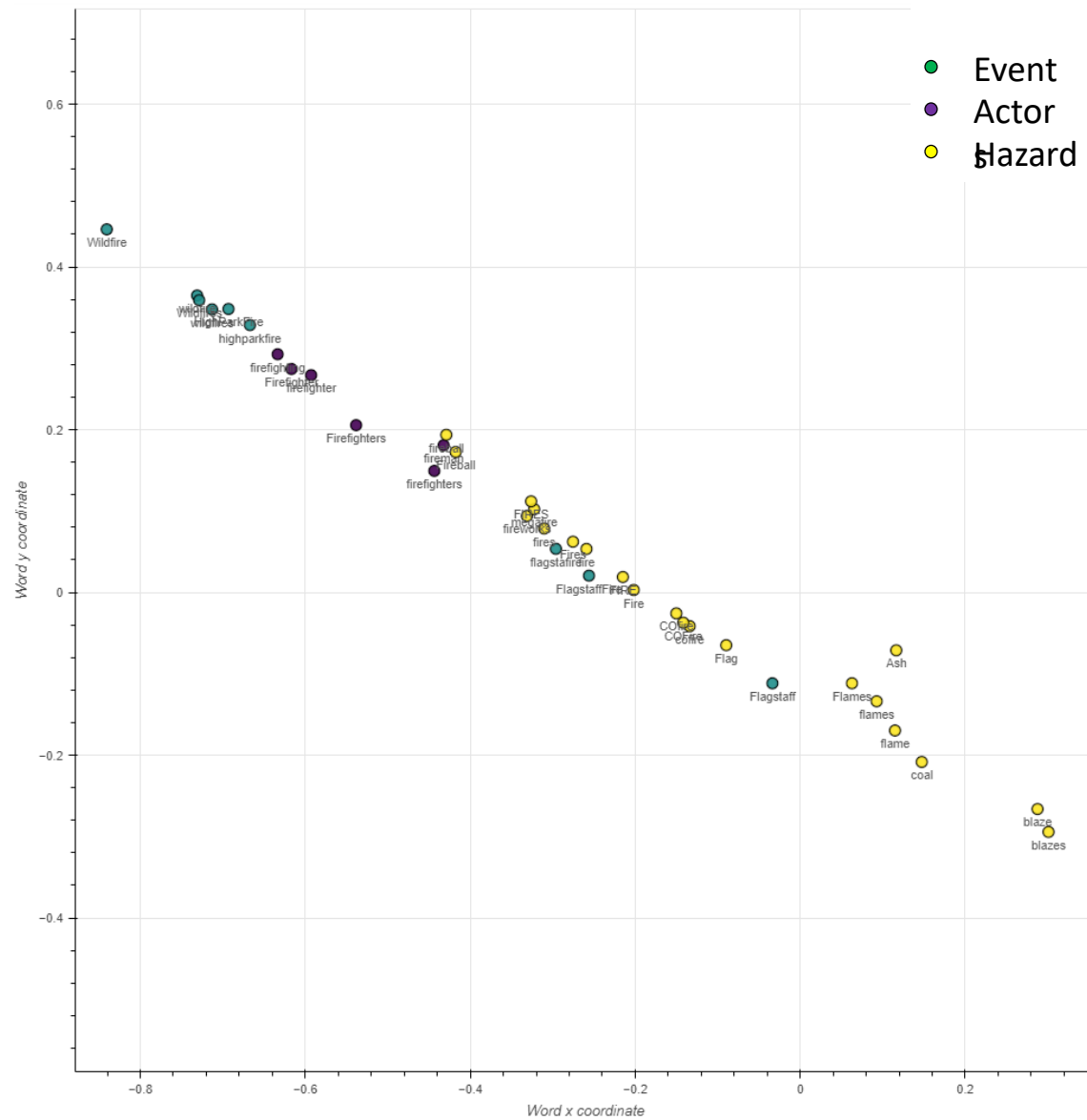
Equipment

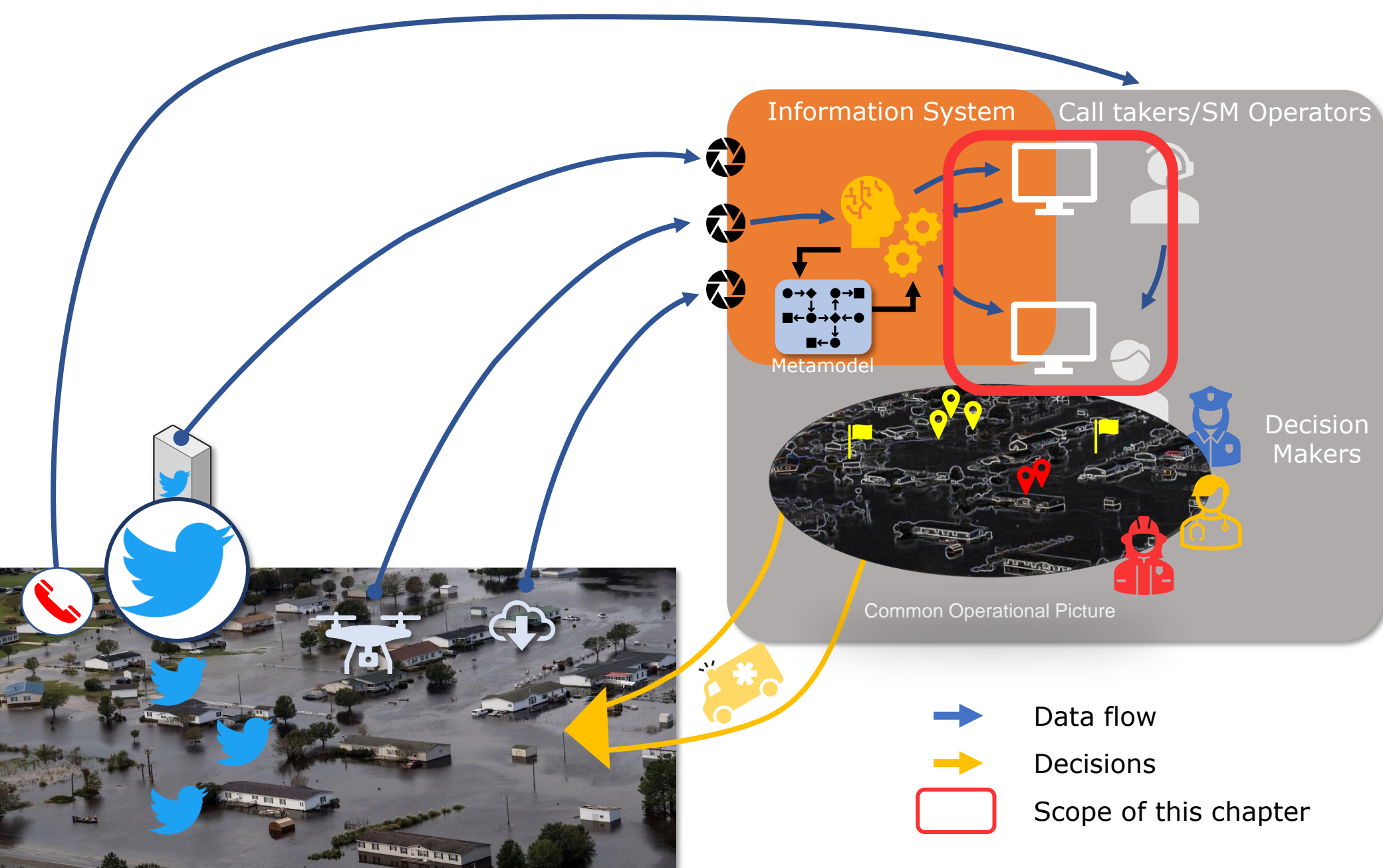
- type: str
- quantity: int

Actors

- qualification: str
- staffing: int





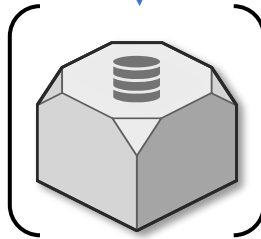
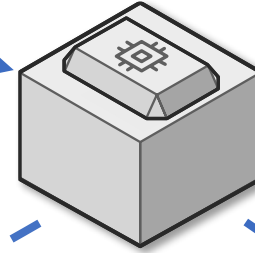
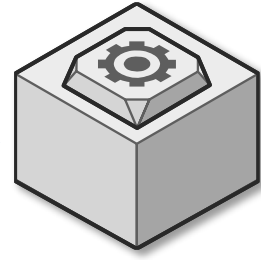


2. Preprocessing

1. Collection



3. Processing



Storage

Objective
Definition

Data
Collection &
Preparation

Feature
Engineering

Model
training

Model
Evaluation

Model
Maintenance

Model
Monitoring

Model
Deployment

Model
Preparation

Model
Development

Model Serving

Machine learning engineering

