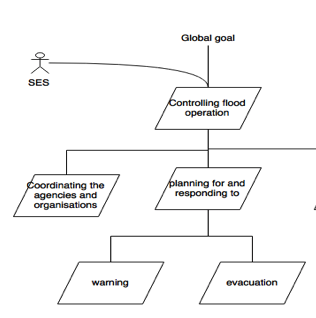
Document example:

The SES is the legislated Combat Agency for floods and is responsible for the control of flood operations. This includes the coordination of other agencies and organisations for flood management tasks. It also includes the planning for and responding to tsunami, particularly for warning and evacuation. (PART 4 - RESPONSE )

Agent-based modelling of a document:

1. Goal model



1. role model

|  |  |
| --- | --- |
| Role ID | R1 |
| Name | SES |
| Description | State Emergency Service, Combat Agency for floods |
| Responsibilities | (1)  Controlling flood operation  Coordinating the agencies and organisations for flood management tasks  planning for and responding to tsumani  the planning for and responding to tsunami, particularly for warning  the planning for and responding to tsunami, particularly for evacuation  (the followings in smaller font are contents appeared in later documents)  damage control for storms  damage control for coastal erosion/inundation from storm activity  protection of life  coordination of protection of readily moveable household goods and commercial stock and equipment.  managing operation  committed for operational management  starting response operations  advising organisations the activation of the plan  providing flood intelligence  undertakes and coordinates the monitoring of known problem areas |
| Constraints | Constrains of the role (if any). |

1. Environment model

Environment Entity ID: EE1

Name: list of agencies and organisations

Description: needed for flood management tasks

Attributes:

Name of the agencies and organizations

Contact person

Contact numbers

address

Roles involved:

SES

(the document example doesn’t contain organisation model and interaction model)

1. Agent model

|  |  |  |
| --- | --- | --- |
| Agent Type ID: | A1 | |
| Name: | State Emergency Service | |
| Description: | play the role of the SES | |
| References: | R1 – SES | |
| Activity: |  | |
|  | Activity Name: | SES Controls flood operation |
| Functionality: |  |
| Trigger: |  |
| Action: | Coordinating the agencies and organisations  planning for and responding to tsumani  the planning for and responding to tsunami, particularly for warning  the planning for and responding to tsunami, particularly for evacuation  damage control for storms  damage control for coastal erosion/inundation from storm activity  protection of life  coordination of protection of readily moveable household goods and commercial stock and equipment |
|  | Activity Name: | SES manages operation |
| Functionality: |  |
| Trigger: |  |
| Action: | 1. committed for operational management |
|  | Activity Name: | SES starts response operations |
| Functionality: |  |
| Trigger: | 1. On receipt of Severe Weather Warning for Flash Flooding.  2. On receipt of Severe Weather Warnings for damaging surf or storm tides.  3. On receipt of a dam failure alert.  4. When other evidence leads to an expectation of flooding and/or coastal erosion/inundation within the council area. |
| Action: | advising organisations the activation of the plan |
|  | Activity Name: | SES providing flood intelligence |
| Functionality: |  |
| Trigger: |  |
| Action: | undertakes and coordinates the monitoring of known problem areas |
| Environment considerations: | household goods and commercial stock and equipment  other agencies and organisations  the document of the flood response operations plan  list of organisations | |

1. Scenario model

|  |  |  |  |
| --- | --- | --- | --- |
| SENARIO ID | S1 | | |
| NAME | Control flood operation | | |
| GOAL | Control flood operation | | |
| INITIATOR | SES | | |
| TRIGGER |  | | |
| PRECONDITION |  | | |
| POSTCONDITION | SES is ready for the control of flood operation | | |
| DESCRIPTION |  | | |
| CONDITION | STEP | ACTIVITY | ROLE |
| Parallel | 1 | Coordinating the agencies and organisations | SES |
| 2 | planning for and responding to tsumani |
| 3 | warning |
| 4 | evacuation |
| 5 | damage control for storms |
| 6 | coastal erosion/inundation from storm activity |
| 7 | protection of life |
| 8 | coordination of protection |