8.8 Disaster Mitigation plus (CC)

Short description	Disaster Mitigation plus
Type of community	Competence Center
Community contact	Eric Yen
Meetings	
Supporters	

Ambition

The competence centre brings together institutes from the Asia-Pacific region that work on modelling, re-modelling, predicting disaster events, with the ambition to be able to predict such events and to design mitigation actions against them.

User stories

Instruction

Requirements are based on a user story, which is is an informal, natural language description of one or more features of a software system. User stories are often written from the perspective of an end user or user of a system. Depending on the community, user stories may be written by various stakeholders including clients, users, managers or development team members. They facilitate sensemaking and communication, that is, they help software teams organize their understanding of the system and its context. Please do not confuse user story with system requirements. A user story is an informal description of a feature; a requirement is a formal description of need (See section later).

User stories may follow one of several formats or templates. The most common would be:

"As a <role>, I want <capability> so that <receive benefit>"

"In order to <receive benefit> as a <role>, I want <goal/desire>"

"As <persona>, I want <what?> so that <why?>" where a persona is a fictional stakeholder (e.g. user). A persona may include a name, picture; characteristics, behaviours, attitudes, and a goal which the product should help them achieve.

Example:

“As provider of the Climate gateway I want to empower researchers from academia to interact with datasets stored in the Climate Catalogue, and bring their own applications to analyse this data on remote cloud servers offered via EGI.”

No.	User stories
US1	Case study on **Sulawesi (Indonesia) tsunami happened on 28 Sep 2018**
US2	Case study on storm surge induced by **Tropical storm Pabuk (#36) in Thailand (3-5 Jan 2019)**
US3	Case study on long-distance **Dust transportation from biomass burning in Northern Thailand (2018)**

Use cases

Instruction

A use case is a list of actions or event steps typically defining the interactions between a role (known in the Unified Modeling Language as an actor) and a system to achieve a goal.

Include in this section any diagrams that could facilitate the understanding of the use cases and their relationships.

Step	Description of action	Dependency on 3rd party services (EOSC-hub or other)
UC1	tsunami wave propagation simulation by iCOMCOT for US1	
UC2	Storm surge impact analysis by Storm Surge Simulation Portal for US2	
UC3	Dust transportation analysis by WRF portal for US3	

Architecture & EOSC-hub technologies considered/assessed

AAI, container, metadata/data management over cloud, Jupyter, ...

Requirements for EOSC-hub

Technical Requirements

Instruction

- Requirement number: Use numbers RQ1, RQ2, RQ3, ...
- Requirement title: Use a short but descriptive title. Use the same title in the Jira ticket 'Summary' field
- Link to requirement JIRA ticket: Open a ticket in <this JIRA queue https://jira.eosc-hub.eu/projects/EOSCWP10/issues/EOSCWP10-4?filter=allopenissues> (click on 'CREATE' button in the middle-top of JIRA)
- Source use case: Refer back to the use cases above (UC1, 2, ...)

Requirement number	Requirement title	Link to Requirement JIRA ticket	Source Use Case
Example	EOSC-hub to provide an FTS data transfer service	EOSCWP10-21 - ...	UC1
RQ1			
RQ2			

Capacity Requirements

EOSC-hub services	Amount of requested resources	Time period

Validation plan

1. reproduce those case studies by DMCC+ simulation portals (or by Jupyter Notebook)
2. data transmission performance test with VN, TH, MY, ID, PH
3. ....