**EMERGENCY RESPONSE plan**

**heavy rain risks**

**REGION / MUNICIPALITY**

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| created by: | In collaboration with: |
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2. PRELIMINARY REMARKS

Text

* 1. Purpose of the Emergency Response Plan

Describe the purpose of the emergency response plan for your region, relating to the hazard situation, the affected vulnerable structures and the expected damage potential (preparation for Stakeholder Workshops H4.S1, V4.S1, M4.S2, M4.S3)

* 1. Geographical scope

Create an overview map and describe the project region, the emergency response plan was set up for.

* 1. Legal responsibilities

Fill in all relevant information about the legal responsibilities (Task M3.T1).

1. STRUCTURE OF THE ACTION PLAN

|  |  |
| --- | --- |
| ACTION PLAN: GENERAL MEASURES | PLAN 1 |
| General Action Plan, including measures set before, during and after a heavy rainfall event.  Further general description | |

|  |  |
| --- | --- |
| ACTION PLAN: ADDITIONAL MEASURES | PLAN 2 |
| Action Plan with additional measures to be set during heavy rainfall events. These measures are only applicable if a reliable warning and alarm system was developed. Measures should consider the top priorities of the region’s endangered areas.  Further general description | |

The action plan consists of a catalogue of measures, the accompanying measure descriptions and relevant maps from the annex.

* 1. General notes on the application of the action plans

The emergency response plan contains intervention measures (Action Plans) with measures which are linked to particular triggering states. In general, these action plans are "guidelines" for heavy rainfall events. Since a heavy rainfall event is a very dynamic process which tends to vary temporarily and locally, the measures shown in the action plans should always be checked for their effectiveness and usefulness. Eventually they need to be supplemented or perhaps cancelled in the specific cases. Furthermore, it may make sense to carry out measures at times other than those provided for in the action plan. It is recommended to document replacement measures or non-set measures in any case. This helps to trace the event or to revise the plans after an event.

It is important to carry out regular checks to ensure that all measures have been completed accurately.

Text

1. COMMUNICATION AND ALARM CONCEPT
   1. COMMUNICATION CHANNELS DURING FLOOD EVENTS

Define all communication channels during the heavy rain event (Who informs whom? Where is all the information gathered?) (Task M3.T3)

* 1. WARNING AND ALARM SYSTEM

Describe the developed simple warning and alarm tool, going into details about the critical scenarios, the availability and quality of forecast data and how you are going to assess the expected event’s intensity. (Task M3.T2)

1. HAZARD SITUATION - DESCRIPTION

Describe the critical scenarios of heavy rainfall events in your region, which were defined as part of the Hazard Analysis.

Describe the most important critical hazard points / areas in your region, which were listed as part of the review on the Hazard Analysis (Task H3.T3)

1. DAMAGE POTENTIAL - DESCRIPTION

Describe the most important critical risk points / areas in your region, which were listed as part of the Vulnerability Analysis. The focus is on areas, where the damage potential is the highest (Task V3.T3)

1. PREVENTIONAL MEASURES (P)

In the manual’s annex, example measures are listed. Some of them, representing measures of the category “Preparation / Mitigation”, should be listed in this part of the emergency response plan. This is because these are overall measures, which need not to be carried out during flood events.

Describe those measures here (see Part A – Chapter 5.1 for details).

| No. | Triggering state | Category | Measure | Instructed | | Done | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| by | date | by | | date |
| GENERAL MEASURES | | | | | | | PLAN 1 | |
| 1 |  |  | General Measure 1 |  |  |  | |  |
| 2 |  |  | General Measure 2 |  |  |  | |  |
| 3 |  |  | General Measure 3 |  |  |  | |  |
| … |  |  | General Measure … |  |  |  | |  |
| X |  |  | General Measure X |  |  |  | |  |
| ADDITIONAL MEASURES | | | | | | | PLAN 2 | |
| 1 |  |  | Additional Measure 1 |  |  |  | |  |
| 2 |  |  | Additional Measure 2 |  |  |  | |  |
| 3 |  |  | Additional Measure 3 |  |  |  | |  |
| … |  |  | Additional Measure … |  |  |  | |  |
| X |  |  | Additional Measure X |  |  |  | |  |

**Legend:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Preparation / Mitigation |  | Evacuation |  | Closure |
|  | Organisation |  | Protect objects |  |  |
|  | Observation |  | Remove goods |  |  |
|  | Information |  | Remove hazard |  |  |

**General instructions for the management of heavy rain operations**

The operational head shall carry out the following actions as required:

1. Regular operational meetings with the responsible persons.

2. Coordination of supply and disposal measures at municipal level.

3. Regularly check, whether all measures planned up to the audit have been completed or further work is required.

5. During a flood event, it may make sense to skip individual measures.

**Notes on the triggering state**

The triggering state is based on the results of the estimation of the expected event intensity. When a heavy rain warning is received, an interpretation of the expected event intensity shall be performed. Only if the interpretation of the forecasts and warnings indicates that a relevant damage event will occur, further general measures shall be taken.

For the additional measures, an increased warning time and a high resource requirement are necessary. These measures can only be carried out sensibly in the case of large to extreme heavy rain events.

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| **EMERGENCY RESPONSE PLAN**  **HEAVY RAIN** |
| ACTION PLAN 1 GENERAL MEASURES |
|  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| G1 | | GENERAL MEASURES | | |  | Add Symbol |
| General Measure 1 | | | | | | |
| Instructed by/  responsible: | | |  | Done by: | | |
| General description of the measure (see Part A – Chapter 5.1 for details). Eventually, maps or screenshots can be added. | | | | | | |
| A | Detailed step-by-step action (see Part A – Chapter 5.1 for details) | | | | | |
| B | Detailed step-by-step action (see Part A – Chapter 5.1 for details) | | | | | |
| C | Detailed step-by-step action (see Part A – Chapter 5.1 for details) | | | | | |

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| **EMERGENCY RESPONSE PLAN**  **HEAVY RAIN** |
| ACTION PLAN 2  ADDITIONAL MEASURES |
|  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| A1 | | ADDITIONAL MEASURES | |  | Add Symbol |
| Additional measure 1 | | | | | |
| Instructed by/  responsible: | | | Done by: | | |
| General description of the measure (see Part A – Chapter 5.1 for details). Eventually, maps or screenshots can be added. | | | | | |
| A | Detailed step-by-step action (see Part A – Chapter 5.1 for details) | | | | |
| B | Detailed step-by-step action (see Part A – Chapter 5.1 for details) | | | | |
| C | Detailed step-by-step action (see Part A – Chapter 5.1 for details) | | | | |

1. ANNEX

* Hazard Maps of the relevant scenarios
* Risk Maps of the relevant scenarios
* Map of intervention measures for all relevant scenarios