# MONITORING SURVEY FRAMES
## – Baseline measurement
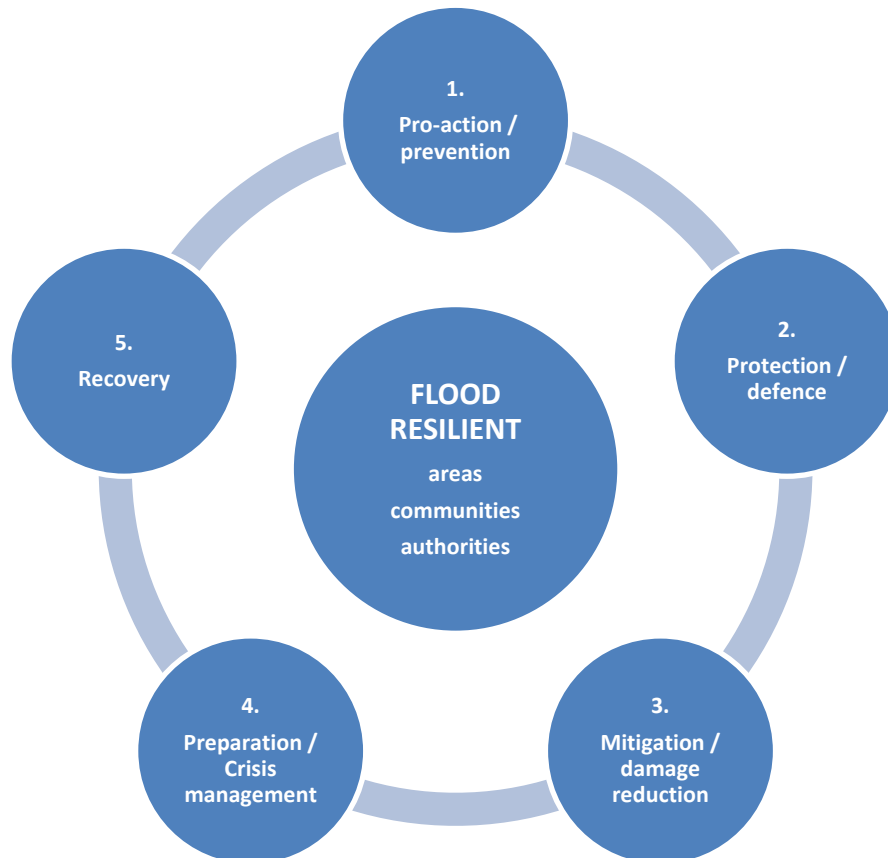## – Pilot: **Wesermarsch**

> **Important**:
> We kindly ask the pilot manager to complete this questionnaire in consultation **with relevenant experts/stakeholders in the pilot/region**. The pilot manager can send this questionnaire and ask these experts/stakeholders to complete (certain) questions, or ask them to review answers. **Per pilot we would like to have 1 questionnaire returned**.

**Who contributed to completing this questionnaire? Please provide names of persons and their organizations:**

|    | Person | Organization |
|----|--------|--------------|
| 1  | Matthias Wenholt | LK Wesermarsch (County) |
| 2  | Michael Janzen | OOWV |
| 3  | Reinhard Hövel | OOWV |
| 4  | Julia Oberdörfer | OOWV |
| 5  | Frank Ahlhorn | Küste & Raum |
| 6  | Helge Bormann | Jade University |
| 7  | Jenny Kebschull | Jade University |
| 8  |  |  |
| 9  |  |  |
| 10 |  |  |

FRAMES is about improving flood resilience by taking different types of actions. A common and well known typology in flood risk management is the disaster management cycle, as shown in the diagram below. This survey first focuses on the flood resilience of areas by considering the five elements proaction (1), protection (2), mitigation (3), preparation (4) and recovery (5). Hereafter, a few questions will be asked with regard to the flood resilience of communities and authorities.

# 1. Pro-action/prevention

Negative consequences of flooding can be avoided by pro-active spatial planning or land use policies ("keeping people away from water"), aimed at building only outside areas that are prone to flooding.

**To what extent is proaction/prevention currently a strong characteristic of the pilot area?**

*Not*
*at all*

*To a great*
*extent*

| 1 | 2 | **3** | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|----|

**Please shortly explain your answer:**

> - *The pilot is characterized by low lying areas, the drainage characteristics are quite specific*
> - *On the land side of the dike line spatial planning focuses on drainage*
> - *With regard to the risk caused by coastal floodings, almost all people live in potentially flooded areas*

# 2. Flood protection/defence

Keeping water away from people by (combinations of) hard infrastructural works (dikes, dams, etc.) or softer (nature based) solutions (dunes, retention in nature areas, etc.).

**To what extent is flood protection/defence currently a strong characteristic of the pilot area?**

*Not*
*at all*

*To a great*
*extent*

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | **8** | 9 | 10 |
|---|---|---|---|---|---|---|-------|---|----|

**Please shortly explain your answer:**

> - *The pilot area could not be settled without comprehensive coastal protection measures*
> - *The protection level is rated to be high*
> - *However, the dikes partly are not (yet) in accordance with the general coastal protection planning, and enforcements need to be carried out regularly*

# 3. Flood risk mitigation

Consequences of floods can be mitigated by a smart design of the flood-prone area including spatial orders, constructing flood compartments, or (regulations for) flood-proof building.

**To what extent is flood risk mitigation a strong characteristic of the pilot area?**

|  | *Not at all* |  |  |  |  |  |  |  |  | *To a great extent* |
|---|---|---|---|---|---|---|---|---|---|---|
| **Currently** | 1 | 2 | **3** | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| **Expectation after Frames** | 1 | 2 | 3 | 4 | **5** | 6 | 7 | 8 | 9 | 10 |

**What will be done in FRAMES with regard to flood risk mitigation, that improves the**

… physical resilience in the pilot area?

*- Physical resilience is expected to be enforced by a more efficient system control*

… capacities of local organisations / institutions in the pilot area?

*- Capacities of local organisation are expected te be imporved by cooperation*
*- One focus will be set on an improved contingency planning*

… capacities of local communities (citizens, businesses) in the pilot area?

*- FRAMES is expected to raise awareness and to provide information to the people*

# 4. Flood preparation

Consequences of floods can be mitigated by preparing for adequate response to a flood event. Measures include flood warning systems, disaster management and evacuation/rescue plans, and managing a flood when it occurs by taking last call emergency measures (e.g. sand bags).

**To what extent is flood preparation a strong characteristic of the pilot area?**

|  | *Not at all* |  |  |  |  |  |  |  |  | *To a great extent* |
|---|---|---|---|---|---|---|---|---|---|---|
| **Currently** | 1 | 2 | 3 | 4 | 5 | 6 | **7** | 8 | 9 | 10 |
| **Expectation after Frames** | 1 | 2 | 3 | 4 | 5 | 6 | 7 | **8** | 9 | 10 |

**What will be done in FRAMES with regard to flood preparation, that improves the**

… physical resilience in the pilot area?

| *- Physical resilience is not expected to be dealt with in FRAMES* |
|---|

… capacities of local organisations / institutions in the pilot area?

| *- Involvement of actors is expected to be intensified through FRAMES*<br>*- Contingency planning will be reviewed and revised if required* |
|---|

… capacities of local communities (citizens, businesses) in the pilot area?

| *- Providing information to the people* |
|---|

# 5. Flood recovery

Facilitates a good and fast recovery after a flood event. Includes plans for draining / pumping away flood water and restoring safety and security, plans for reconstruction or rebuilding critical infrastructure, damage compensation/insurance systems, return of evacuated communities and social-psychological support.

**To what extent is flood recovery a strong characteristic of the pilot area?**

|  | *Not at all* |  |  |  |  |  |  |  |  | *To a great extent* |
|---|---|---|---|---|---|---|---|---|---|---|
| **Currently** | **1** | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| **Expectation after Frames** | **1** | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

**What will be done in FRAMES with regard to flood recovery, that improves the**

… physical resilience in the pilot area?

| *- Not applicable* |
|---|
|  |

… capacities of local organisations / institutions in the pilot area?

| *- Not applicable* |
|---|
|  |

… capacities of local communities (citizens, businesses) in the pilot area?

| *- Not applicable* |
|---|
|  |

# Flood resilience of authorities

**Please name the organisations / stakeholders that will be involved in your pilot:**

| | Organization |
|---|---|
| 1 | Wesermarsch County |
| 2 | Water Boards |
| 3 | Dike Boards |
| 4 | State Agency (NLWKN) |
| 5 | City administration |
| 6 | OOWV |
| 7 | |
| 8 | |
| 9 | |
| 10 | |

In general, to what extent is flood <u>risk mitigation</u> embedded in policy and practice of these organisations, in your opinion?

| | *Not at all* | | | | | | | | | *To a great extent* |
|---|---|---|---|---|---|---|---|---|---|---|
| **Currently** | 1 | 2 | 3 | 4 | **5** | 6 | 7 | 8 | 9 | 10 |
| **Expectation after Frames** | 1 | 2 | 3 | 4 | 5 | **6** | 7 | 8 | 9 | 10 |

**Please shortly explain your answer:**

| *- Regional planning issues will be incorporated in a better way* |
|---|

In general, to what extent is flood <u>preparation</u> embedded in policy and practice of these organisations, in your opinion?

| | *Not at all* | | | | | | | | | *To a great extent* |
|---|---|---|---|---|---|---|---|---|---|---|
| **Currently** | 1 | 2 | 3 | 4 | 5 | **6** | 7 | 8 | 9 | 10 |
| **Expectation after Frames** | 1 | 2 | 3 | 4 | 5 | 6 | **7** | 8 | 9 | 10 |

**Please shortly explain your answer:**

| *- Improved cooperation can be achieved by FRAMES* |
|---|

In general, to what extent is flood <u>recovery</u> embedded in policy and practice of these organisations, in your opinion?

| | *Not at all* | | | | | | | | | *To a great extent* |
|---|---|---|---|---|---|---|---|---|---|---|
| **Currently** | **1** | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| **Expectation after Frames** | **1** | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

**Please shortly explain your answer:**

| *- Not applicable* |
|---|

# Flood resilience of local communities

**Please name the communities (e.g., neighbourhoods, municipalities) that will be involved in / informed about your pilot(s), and how many citizens they consist of:**

| | Community | Number of citizens (approximately) |
|---|---|---|
| 1 | Municipality Butjadingen | |
| 2 | City of Brake | |
| 3 | Water boards | |
| 4 | Citizens | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| 10 | | |

In general, to what extent is flood <u>risk mitigation</u> embedded in the behaviour of these communities, in your opinion?

| | *Not at all* | | | | | | | | | *To a great extent* |
|---|---|---|---|---|---|---|---|---|---|---|
| **Currently** | 1 | 2 | **3** | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| **Expectation after Frames** | 1 | 2 | 3 | **4** | 5 | 6 | 7 | 8 | 9 | 10 |

**Please shortly explain your answer:**

**- "Traditional" focus is mainly set on physical protection measures ("1ˢᵗ dike line")**

In general, to what extent is flood <u>preparation</u> embedded in the behaviour of these communities, in your opinion?

| | *Not at all* | | | | | | | | | *To a great extent* |
|---|---|---|---|---|---|---|---|---|---|---|
| **Currently** | 1 | 2 | 3 | 4 | 5 | **6** | 7 | 8 | 9 | 10 |
| **Expectation after Frames** | 1 | 2 | 3 | 4 | 5 | 6 | **7** | 8 | 9 | 10 |

**Please shortly explain your answer:**

*- Preparation is developed, but awarenes, cooperation and information needs to be improved*

In general, to what extent is flood <u>recovery</u> embedded in the behaviour of these communities, in your opinion?

| | *Not at all* | | | | | | | | | *To a great extent* |
|---|---|---|---|---|---|---|---|---|---|---|
| **Currently** | **1** | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| **Expectation after Frames** | **1** | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

**Please shortly explain your answer:**

*- Not applicable*

**END OF SURVEY**
**THANK YOU!**