



# MAP MY CITY

A participatory exercise developed as part of the ACCCRN initiative to help cities identify and define climate challenges they face.

## OBJECTIVE

The exercise was developed to help cities identify and define climate challenges they face in the course of their daily operations in their respective geographic areas and to identify possible resilient strategies for future weather extremes.

It allows participants to learn about risks of climate extremes on routine operations in their local urban context. It is also designed to impress upon them the need to identify strategies to build resilience in their local municipalities. Participants also get an overview of the operations of different departments and identify gaps, similarities, and possible avenues for cooperation.

## GAME PLAY

The session is conducted with participants who have experience in urban planning and management, municipal operations, urban services or have operational knowledge of the domain. Participants fulfil the role of their chosen city agency (at municipality level) and are required to identify routine problems the agency faces.

Participants are then provided a mock scenario of problems they would face due to extreme weather, based on their geographical context. They are then required to define a strategy to tackle the problem using their current resources.

Participants map strengths and weaknesses of their departments and discuss it with others. The exercise concludes with the participants identifying short, medium and long term goals for their individual departments and identifying possible avenues for collaborations among different departments for implementing their plans.

### *Intended Audience*

*Civil engineers, Urban practitioners who work with utilities infrastructure such as water supply distribution, sanitation, and solid waste management.*

### *Keywords*

*Extreme climate event, resilience, civic infrastructure, basic utilities, cities, municipalities*

### *Type*

*Table-top game in a workshop format*

### *Number of people*

*3 groups*



**Participant Material**



Base map of the city (one per person/team)

Transparent sheets (plastic sheets, one per person/team)

Differently coloured permanent markers for each person/team

Stickers of 3 colours (red, yellow, green)

Reversible cards

Access to risk maps from "At Risk" is estimate the type of risks faced based on the given location. At Risk maps available at <http://tarvik.in>



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**Facilitator**



**Workshop flow**

**Brief (15 - 20 minutes)** Facilitator distributes materials and explains the session to the participants.

**Session 1 (15 - 20 minutes)**

- Participants form 3 groups of a maximum of 3 members each. They will each choose a role for themselves based on either their real profession or based on their domain expertise.
- Participants fill out the role information card given to them and return them to the facilitator.
- Facilitator distributes the reversible cards and writing materials. Participants list the possible resources they will have access to according to their roles.
- Participants are then provided with the Climate Extremes card, where they list climate extremes they anticipate based on their local context. They also indicate the possible direction of the trend of the climate extreme event as **Increasing**, **Decreasing**, **Constant** or **Insufficient data**.

**Debrief 1 (15 - 20 minutes)** Participants discuss the problems presented amongst themselves.

**Session 2 (20 - 45 minutes)**

- Facilitator asks the participants to use a permanent marker and map areas where they would face challenges on a daily basis in the following way:
  - Transparent sheets are placed on the maps provided.
  - Participants mark 2 - 3 familiar places on the transparent layer to help align the sheets.



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- Participants mark the areas where they face challenges or anticipate challenges. They have to mention the nature of the challenge.

- Participants use reversible cards to list resources they will use to tackle their challenges based on their role.
- Facilitator ensures that steps 1 and 2 are repeated until the participants are satisfied with the information they have mapped.

**Debrief 2 (20 - 45 minutes)** Participants present the challenges they face in different parts of the city and how they tackle them using the resources at their disposal.

**Session 3 (20 - 45 minutes)**

- Facilitator explains the Climate Extremes cards, and chooses a scenario for the participants.
- The participants:
  - Identify the new challenges they would face in their daily operations
  - Identify possible strategies to tackle the new challenges
  - For each strategy, map the current resources that will be used to tackle it
- The participants use the three colour sticky notes to classify their strategies as:
  - Short Term Strategies - Red sticky note
  - Medium Term Strategies - Yellow sticky note
  - Long Term Strategies - Green sticky note
- Facilitator asks the participants to identify and list additional resources that will be required to improve the classification priorities in step 3.

**Debrief 3 (20 minutes)** Participants give a final presentation about their strategies, priorities and the new resources they would require to meet the challenge.



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**Facilitator Guide**



**DOs**

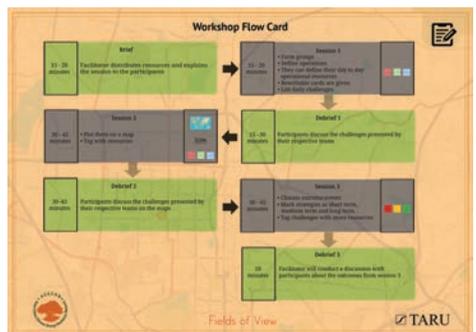
- The results from this session are private and no inter-positions will be disclosed. This is an important instruction for the participants
- Keep the session pace tight! Maintain a steady pace and use the time mentioned in the card as a guideline. If your group is stuck, speed up the results.
- Facilitators should ensure that they are audible and clear in their instructions.
- Inform the participants that only pencils are to be used on the reversible cards.
- All materials that the facilitator is marked with  and all material to be handed out to the participants is marked with .

**DONTs**

- Avoid excessive and long breaks.
- Use breaks as a way to refresh the participants when they appear tired.
- The session is intended to be a discussion among participants. The facilitator only "facilitates" the session and should not direct, impose, control or interrupt discussion among participants.
- Allow the participants to resolve internal conflicts as much as possible.



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## OUTPUT

At the end of each exercise the participants collectively:

- Generate the list of challenges that each of them face during their daily operations,
- Generate the list of all the resources that are at their disposal,
- Collectively prioritise the order in which they will tackle the challenges which allows them to leverage each other's capabilities and resources.
- Identify resources that they would like to have.

## Collaborations

*This work was funded by and carried out in collaboration with TARU Leading Edge, Gurgaon.*