

The Future Ground: Urban Planning Under Climate Uncertainty

Supriya Krishnan, Resilience Lab, TU Delft, Netherlands s.krishnan@tudelft.nl

Knowledge partners: TU Delft Resilience Lab, Coalition for Disaster Resilient Infrastructure

Interview Protocol

Interv	/iewee:
Date:	
Time:	

Questionnaire

- m/ must have questions
- s/ secondary questions (not included in a short interview)
- **f/** follow up (if extra time)

Part 1: Introduction [20 minutes]

Welcome and thank the subject.

- 1. Introduce the research: To develop a methodology for urban planning under climate uncertainties. Using the case studies of Amsterdam and Mumbai.
- 2. Discuss the scope of the interview: Understanding requirements and constraints faced by the city while planning for long-term climate risks/uncertainties. Delve into initiatives of the city, practice, and knowledge gaps.

Before I begin:

The interview will follow university ethics guidelines. No direct quotes/data will be used without explicit permission. All results will be anonymized, pseudonymized, or generalized such that you (the interviewee) cannot be identified. Any use of data will be done with due permission. At the end of the interview, you will have the opportunity to withdraw any information or to be 'off the record' on specific questions.

- Do you agree with it? < Get verbal consent>
- Would it be ok if I record the audio of this interview? They will be deleted after transcribing and will not be distributed.

Experience in leading and managing projects on urban planning and climate risks/uncertainties.

- 3. How long have you been working with the City of Amsterdam/Mumbai?
- 4. What are three key issues for Amsterdam/Mumbai in light of managing climate risks?
- 5. What are the three most prioritized infrastructure sectors in urban planning and climate uncertainties?
- 6. Which major urban climate initiatives are the city working on? Why focus on these projects?
- 7. Which regions in the city are the focus of urban planning/renewal initiatives?
 - New regions.....
 - Old regions.....

Optional (if time)

- Which departments take the lead/collaborate on climate-specific projects in urban planning?
- What is the role of the urban planning department (initiating, facilitating, or managing)?
- Who initiates climate-specific urban planning projects? (Urban Planning Department, Sustainability. Transport, Water, private sector)?

Part 2: Experience and opinions on urban planning under climate uncertainties [25']

On the integration of climate

- 8. m/ What is the perception of climate change and urban planning for Amsterdam/Mumbai? How would you rate the urgency? (min.) 1 2 3 4 5 6 7 8 9 10 (max.)
- 9. m/Based on your experience in managing these projects, what would you say are the main climate drivers for Amsterdam/Mumbai?
 - Flooding, heat, pollution, etc.
- 10.m/ What other drivers are critical?

Socio-economic:	
Environmental: .	
Technological:	

11.m/ Is there a comprehensive plan/strategy for Mumbai/Amsterdam? To what extent is climate integrated into planning projects/ or is it a different plan?

10a. s/ Is climate integrated into land-use/zoning /building regulations? At what stage is this done?

On knowledge gaps while planning for long-term climate uncertainties

- 12.m/ What knowledge sources the city uses for climate-related projects?
 - 1. Institutions: City's data management unit, Waternet (flooding data), Heat (City's own), Flooding scenarios (national government)
 - 2. Forecasts and scenarios:
 - 3. Databases:

11a. s/ Is there a dedicated person/team for knowledge/data management? Is there a system to keep the data sources updated?

13.m/What would you say are the major information gaps hindering planning?

On the process of urban planning

- 14.m/ What planning scenarios does the city consider? How do you develop/ select scenarios?
- 15.m/ How would you describe the flexibility of the planning process, especially considering climate risks? Are you able to account for evolving/ changing risks and forecasts?
- 16. m/ What are the furthest time horizons you discuss while making strategies (even if these are not eventually applied)? Is this sufficient?

15a. s/ Are plans periodically updated? To what extent can you revert/manipulate big decisions (if they are not implemented on the ground yet)?

On Implementing projects

- 17.m/ Could you elaborate on any specific experiences setting up and running large planning+climate projects/ pilot projects/ living labs/ development plans?
 - For Mumbai: Do you account for the guidelines in the State Action Plan for Climate Change (SAPCC)?
 - What could be done better?

17a. s/ At what scale would it be effective to manage initiatives to integrate climate with urban planning? Neighborhood/district/metropolitan region?

17b. s/ What emerging tools, techniques, and knowledge collaborations are being adopted? (touch tables, mapping, etc.)

Optional (if time)

- 17c. f/ What performance indicators or thresholds does the city assess for its climate-related planning actions?
- What knowledge collaborations does the city use to further its climate agenda (global frameworks like 100rc, under the resilient city, universities, research organizations, etc.)?
- Which global resilience/adaptation frameworks and agreements does the city follow, if at all?
- How do you prioritize projects/ sectors?
- What incentives are adopted to facilitate the integration of climate goals? Do you recount any specific issues?
- How do development ambitions conflict with climatological/environmental ambitions?
- What is the process of developing and updating a development/master plan/ structural plan?

Part 3: Looking ahead [10']

18.m/ In the far future, what, in your opinion, are key issues connected to a climate that the city must focus on?

Part 4: Wrapping up [5']

- m/ Is there anything you would like to add? Surprised I didn't ask you about it.
- m/ Would you want to withdraw/ be 'off the record' any of the information.
- m/ Would you be willing to be involved in follow-ups?
- m/ Is there someone else I should interview?
- m/ Do you have any suggestions for literature on the subject?

Thank you again for participating. I would like to reiterate that all data will be kept strictly confidential.

Responsible investigators:

Supriya Krishnan TU Delft, Resilience Lab, Faculty of Technology, Policy and Management Department of Multi-Actor Systems

Contact: s.krishnan@tudelft.nl
