Toolkit for Equitable Emergency Management Appendix L **Hazard Likelihood Analysis Template** 2025 ANALYSIS EVALUATION

Appendix L - Hazard Likelihood Analysis Template

Section: Hazard Likelihood Analysis		
Project Name:		
Community:		
Date:		
Prepared by:		

Purpose

To assess the likelihood of each identified hazard occurring within the community, with a particular focus on how different social identities influence the perceived and actual likelihood of hazards. This section aims to ensure that the analysis reflects the diverse experiences and vulnerabilities of all community members.

Instructions

- Assess Frequency: Review historical data and climate projections to understand
 past occurrences and future probability of each hazard and the impact to the
 community.
- 2. **Gather Community Input:** Engage with community members to understand their perceptions and experiences related to hazard frequency.
- 3. **Analyze with IGA:** Consider how various social identities influence both the perceived and actual likelihood of each hazard.
- 4. **Integrate Diverse Perspectives:** Ensure the analysis incorporates feedback from marginalized and underrepresented groups.

Hazard Likelihood Analysis for (insert Community name)

Hazard	Frequency	Hazard Location	IGA Considerations	Likelihood Rating
Type				
Flood	5 X in 10 years and	High concern in low- lying areas	Vulnerability of low- income families; many	High due to impact on
	projections indicate an increase to 8 X in 10 years	Neighbourhood XYZ at particular risk (mobile	rely on public transportation (bus) which is limited, walking, or bicycles;	Neighbourhood XYZ and for Indigenous and

Hazard Type	Frequency	Hazard Location	IGA Considerations	Likelihood Rating
		park along the river bank)	evacuation challenges for single-headed households with mobility issues and/or dependents. XYZ experiences regular floods and most residents are still dealing with the last flood; some low- income residents also expressed distrust of authorities. Vulnerability of cultural/ethnic population who may not have access to EM materials due to language barriers (EAL) or trust issues from local authorities.	cultural/ethnic groups.

Quick Reference Checklist

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Review historical records and climate projections to understand past occurrences and future probability of each hazard and the impact(s) to the community.
Use local, regional, and national sources to gather comprehensive data.

Gather Community Input:

Conduct surveys, focus groups, and community meetings to gather input on perceived hazard frequency.
Ensure participation from diverse community members, including marginalized groups.
Analyze with IGA:
Assess how different social identities (gender, age, race, socioeconomic status, etc.) influence the perceived and actual likelihood of hazards.
Consider the unique vulnerabilities and experiences of different groups in the community.
Integrate Diverse Perspectives:
Incorporate feedback from marginalized and underrepresented groups to ensure their perspectives are included in the analysis.
Use culturally appropriate methods to engage different social identity groups.
Rate Likelihood:
Assign a likelihood rating (e.g., Low, Medium, High) based on the combined assessment of historical data and community input.
Document the rationale for each rating, ensuring transparency and accountability.ability.