

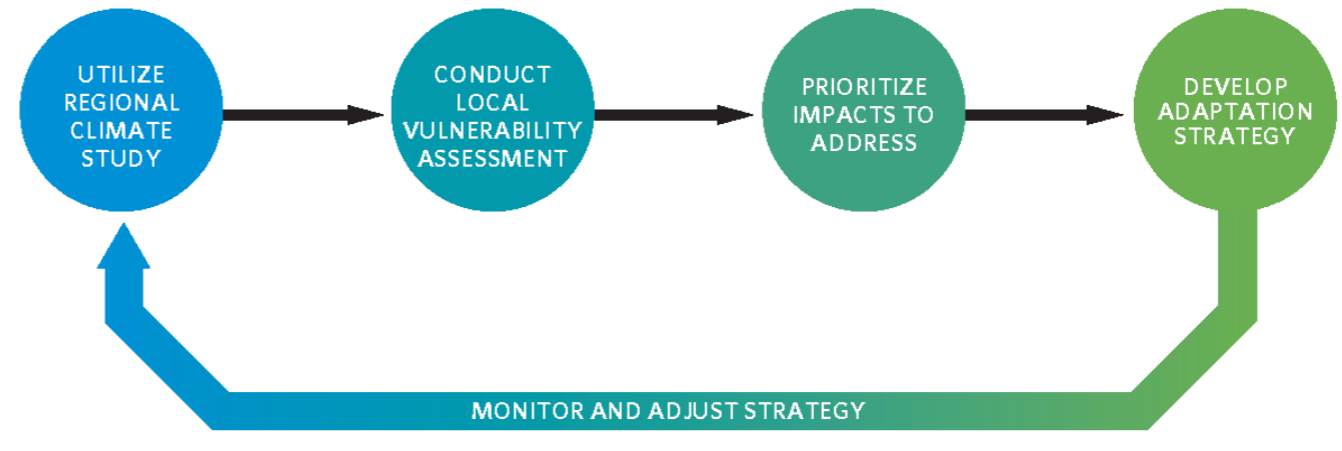
CHALLENGES IN CLIMATE ADAPTATION PLANNING

RESILIENT CHICAGO | SEPTEMBER 30, 2014 | CHICAGO, IL

ADAPTATION PLANNING

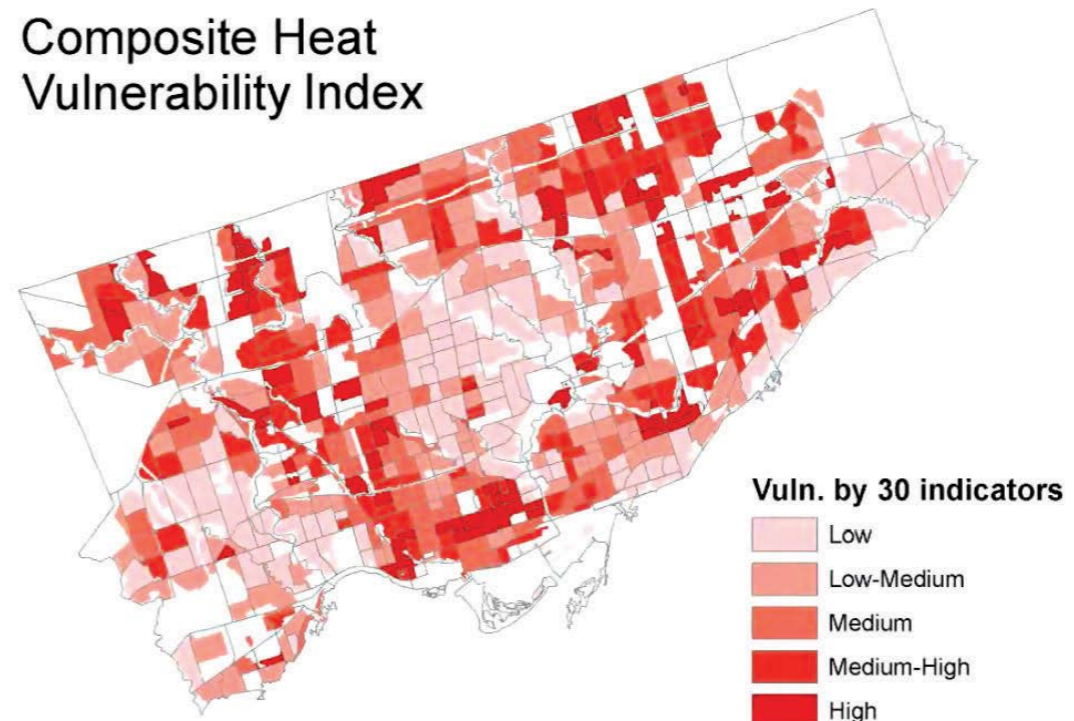


Steps for developing a municipal climate adaptation strategy



Source: Chicago Metropolitan Agency for Planning.

Composite Heat Vulnerability Index



Source: City of Toronto

CLIMATE READINESS CHECKLIST

Facilities	Scenario	Scenario	Scenario
	Located in the Floodplain ¹ ?	Flooding expected due to 100-year, 24-hour storm ² ?	Flooding expected due to storm event 50% greater than column 2? ³
Police station(s)			
Fire station(s)			
City Hall			
Emergency operation centers			
Evacuation Shelter(s)			
Hospital(s)			
Communications center(s)			
Public Works Facilities			
Total Check Marks (facilities)			

Business Plans and Equipment	Yes (50% or more)	No (Less than 50%)
Generators		
Backup options for basic needs (water, waste, communications)		
Plans to bring in staff to help re-open the business		
Plans for re-stocking		
Total Number of Yes and No answers		

Operations and Maintenance	Yes	No	Comment
Snowplowing and snow removal has an increasing trend.			
Storm sewer system repair, including conveyances, inlet/outlet structures or best management practice (BMP) maintenance is on the rise.			
Road buckle and pot holes maintenance is on the rise.			
Sanitary sewer overflow (sanitary waste overflowing into storm sewer system) is occurring more frequently.			
Beach closures from water quality, erosion, or high water, is more frequent.			
Urban tree maintenance and replacement is on the rise.			
Total Number of Yes and No answers			

Categories 3-8	Total Yes answers (shaded box of given table above)	Translate Total Answers from Column 1 of this table to a Readiness Index	Readiness Index	Comments
Category 3: Built Environment & Infrastructure		0 to 2 (HIGH) 3 to 5 (MEDIUM) 6 to 8 (LOW)		
Category 4: Operations and Maintenance		0 to 1 (HIGH) 2 to 4 (MEDIUM) 5 to 6 (LOW)		
Category 5: Water Resources		0 to 2 (HIGH) 3 to 5 (MEDIUM) 6 to 7 (LOW)		
Category 6: Ecosystems & Habitats		0 to 2 (HIGH) 3 to 6 (MEDIUM) 7 to 9 (LOW)		
Category 7: Tourism and Recreation		0 to 1 (HIGH) 2 (MEDIUM) 3 to 4 (LOW)		
Category 8: Business Plans & Equipment		4 (HIGH) 2 to 3 (MEDIUM) 0 to 1 (LOW)		
Category 9: Community Plans		6 to 8 (HIGH) 3 to 5 (MEDIUM) 1 to 2 (LOW)		

Source: Self-Assessment to Address Climate Change Readiness in Your Community

FINANCIAL CHALLENGES

CHALLENGE: financing adaptation planning when it is not an immediate priority; planning for variability

- Look for opportunities within **other planning processes**, such as comprehensive plan updates, CIPs, stormwater plans
- Capture **co-benefits** of strategies, such as placemaking, stormwater management, or recreation, that can be funded from other sources or make it more palatable for general fund allocations
- Seek **external funding** for specific activities, such as DCEO Illinois Energy Now public sector grants
- Align new initiatives with **budgeting cycles**

OPERATIONAL CHALLENGES

CHALLENGE: effectively implementing adaptation strategies

- Assign **green team** of department leaders to integrate adaptation planning across departments
 - Provide **training and education** for departmental staff
 - Increase **adaptive capacity** of departments not traditionally engaged in environmental work, such as public safety
- Embed adaptation planning into an **environmental or sustainability coordinator** role who oversees all adaptation-related activities
- Engage partners to co-lead efforts
 - Work with **elected official champions**
 - Work with existing community groups or assemble a **citizen's advisory board** to help shepherd resilience activities and conduct outreach

OUTREACH CHALLENGES

CHALLENGE: identifying and engaging vulnerable populations

- Conduct **spatial analysis of demographic distribution** to target
 - Pay particular attention to low-income populations, communities of color, elderly, people with mobility limitations
- Conduct **participatory engagement activities**, such as **asset mapping** and collective visioning to understand needs and available resources
 - Consider factors that may affect adaptation strategies, such as whether people are renters, own cars, or work multiple jobs
 - Consider monetary and in-kind resources, including volunteer capacity, translation ability, meeting spaces, and skills
- Tailor engagement strategies to **meet needs of vulnerable populations**
 - Translate workshops and documents; provide on-site childcare or meals
 - Meet people where they are: attend existing community meetings at churches, neighborhood associations, or other groups

POLITICAL CHALLENGES

CHALLENGE: garnering public support on climate issues

- Short-term: Understand **issues that resonate** with community, such as stormwater management, and address them in practical, concrete terms without necessarily going into relationship with climate impacts
- Long-term: Conduct **public education and demonstrate projects** to build general awareness of the connection between global climate change and local actions

FOR MORE INFORMATION



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