

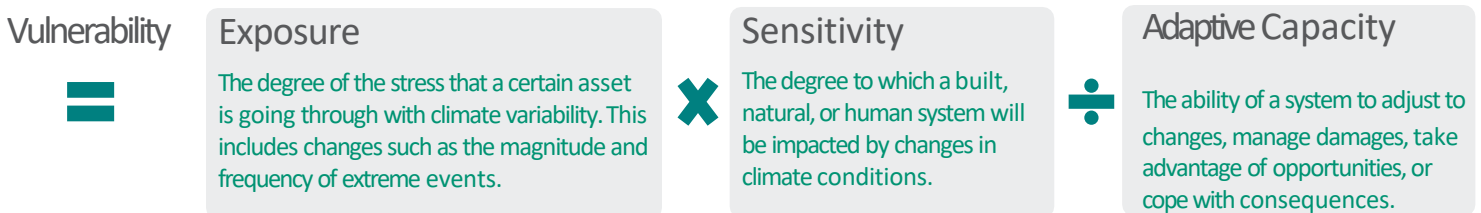
Climate Change Vulnerability Index (CCVI)



Information for a More Resilient Connecticut

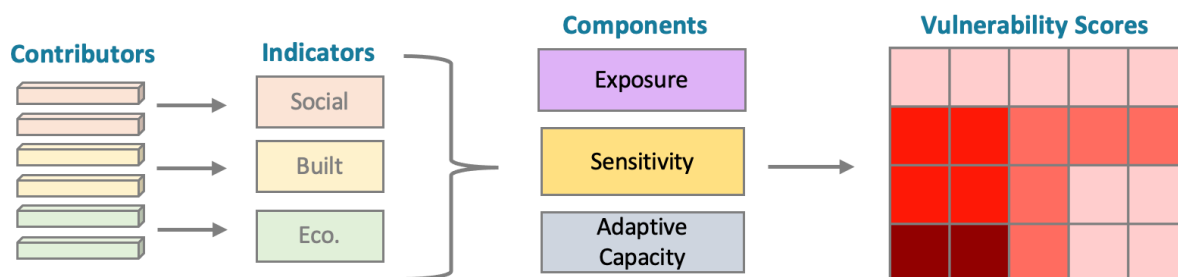
What is the CCVI?

An index-based spatial model that identifies community vulnerability to flood, and heat-related impacts of climate change. The CCVI characterizes areas based on an equation using sensitivity times exposure, divided by adaptive capacity. The equation can be defined as:



How Does it Work?

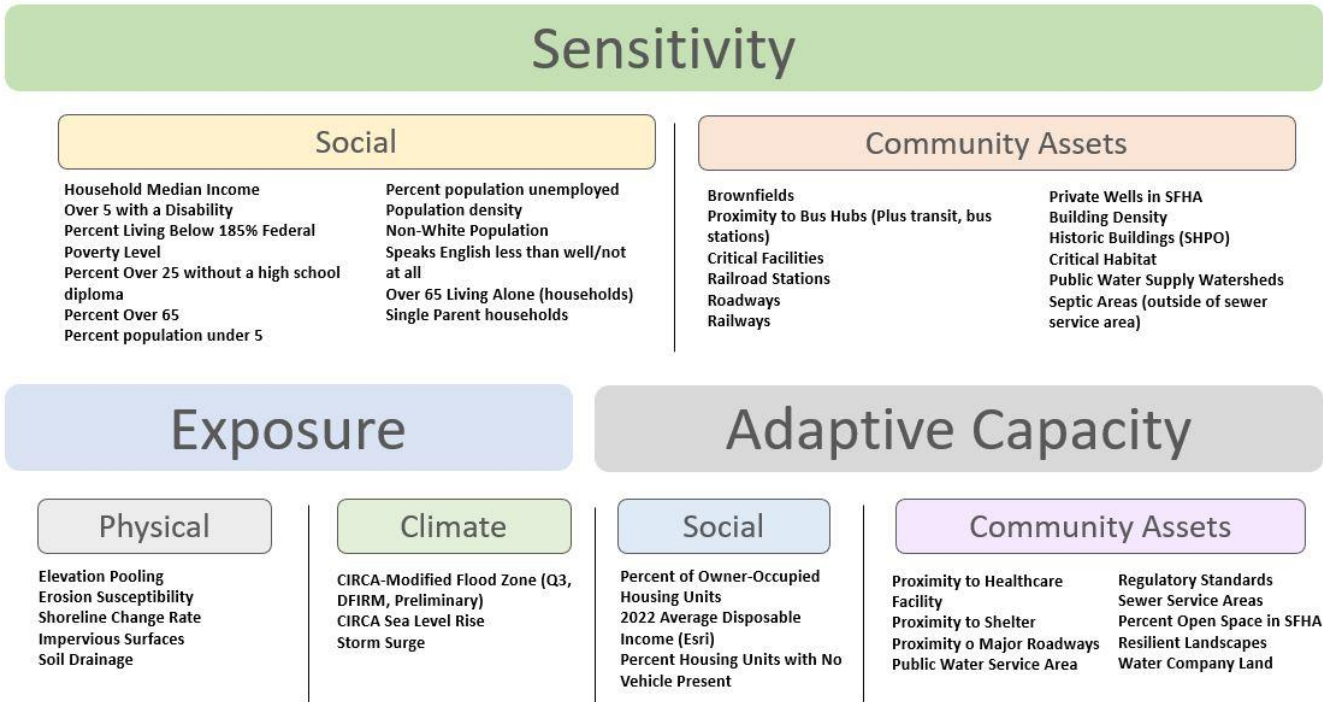
The CCVI process is based on combinations of exposure, sensitivity, and adaptive capacity applied to thousands of grid cells. For example, the sensitivity component includes many different contributors that fall under two different indicators – social and built. Each indicator has its own final “score” based on the average of the contributors. The average of the 2 indicators represents a score of sensitivity for one grid cell. This sensitivity score, along with final exposure and adaptive capacity scores, is used to calculate the vulnerability score, leading to many different gridded scores throughout a community. A list of flood and heat contributors can be found on the back.



What might this tool mean for municipalities?

In addition to other resilience data and planning tools, municipal staff, consultants, and the general public can access new vulnerability map viewers to assist with their community’s resilience planning, to make educated decisions about future development and infrastructure investments, and to use as information for grant applications. The new state-wide CCVI Story Maps guide users through the steps needed to use flood and heat vulnerability viewers. Visit the CCVI website to access these viewers and to give CIRCA feedback on the approach and products: resilientconnecticut.uconn.edu/ccvi.

Flood Contributors



Heat Contributors

