Hot Street Futures: Designing Climate-Responsive Corridors in New York

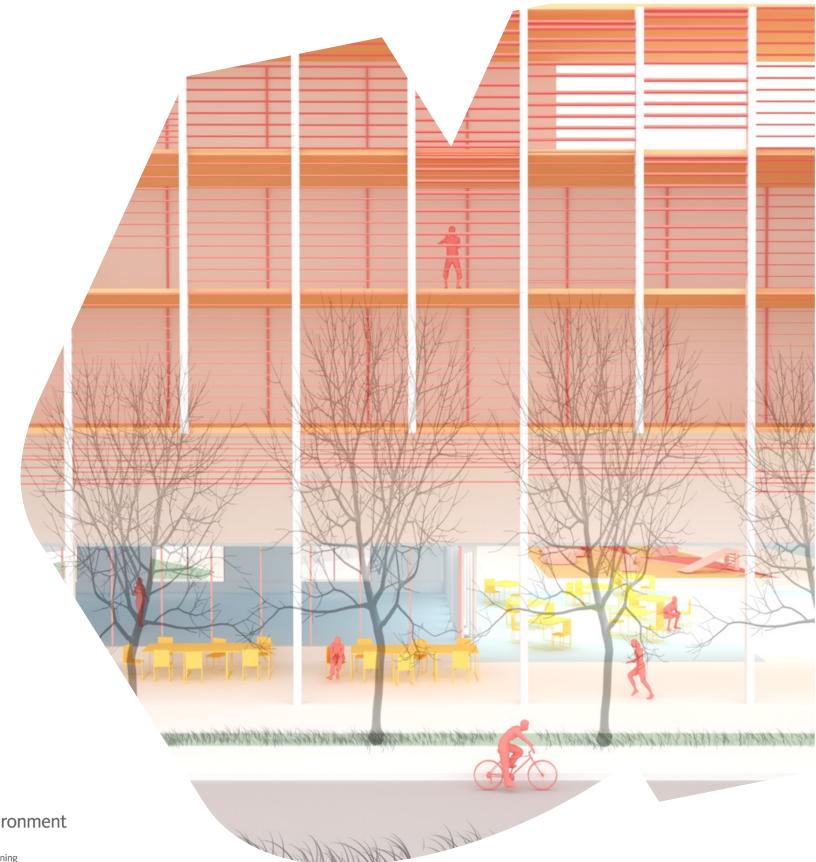
Kristine Stiphany, PhD, AIA
Jorge Ituarte Arreola / SOM - Los Angeles

Collaboration:















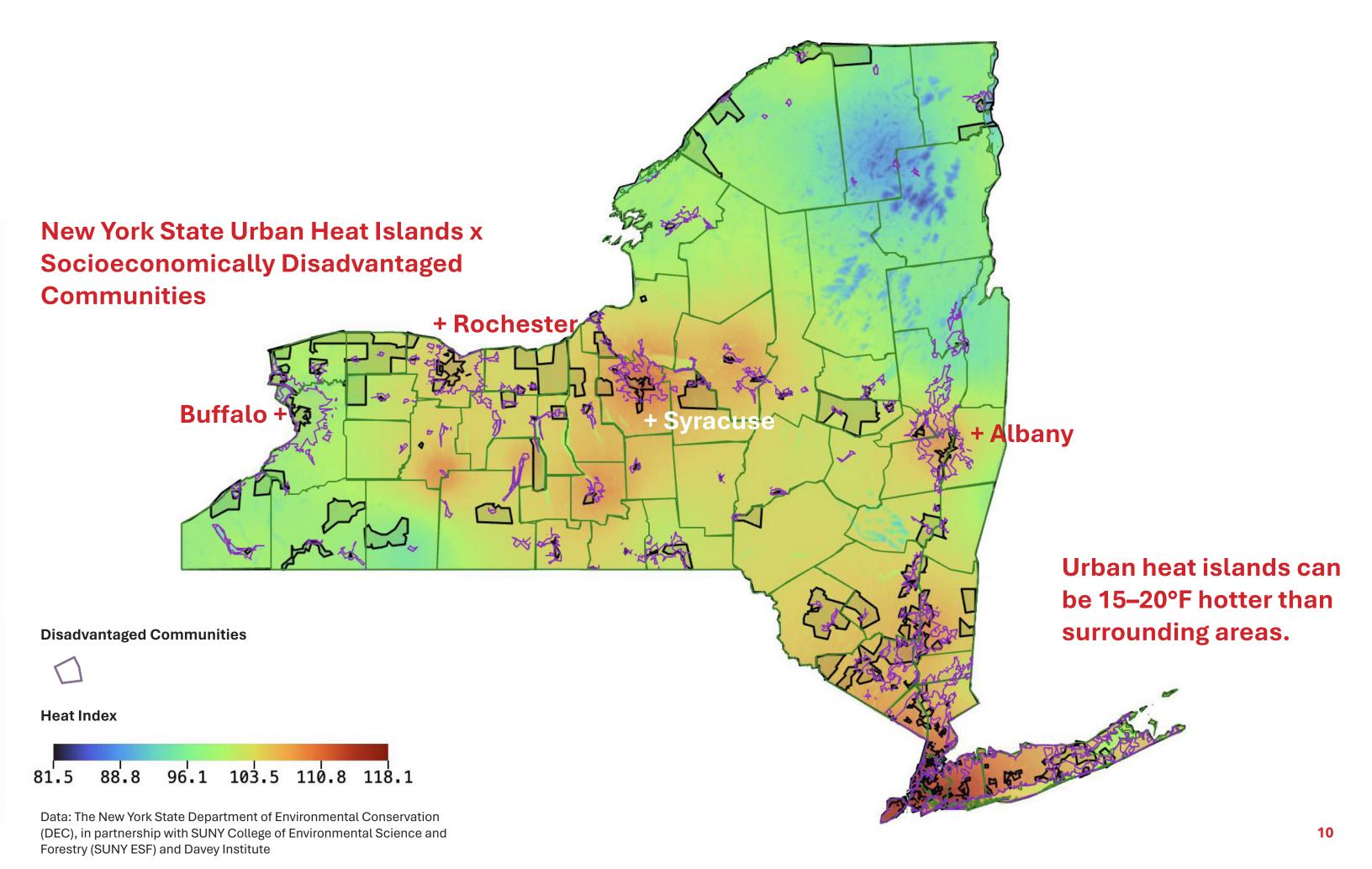




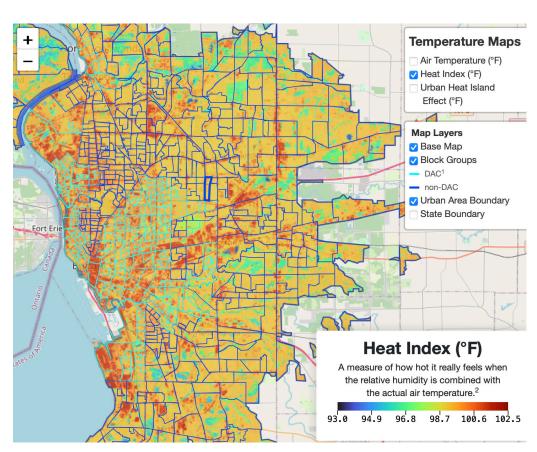




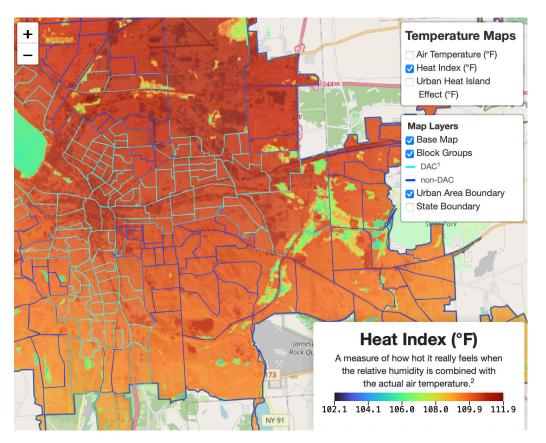




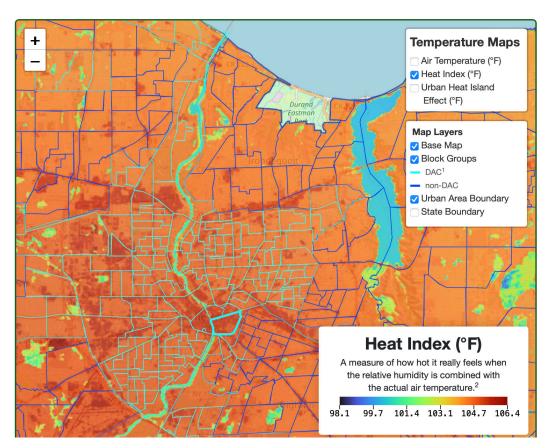
Hot Corridors



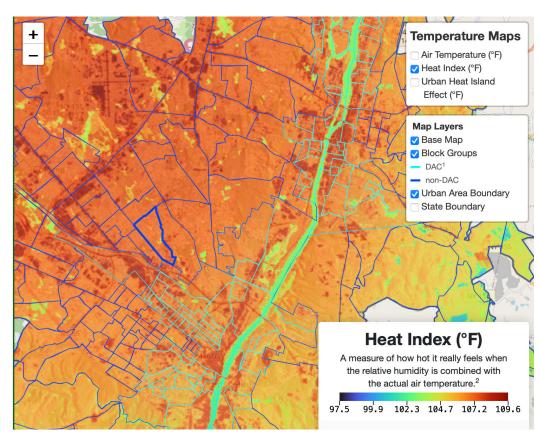
Buffalo



Syracuse



Rochester



Albany



Microclimate Design

Develop spatial and material strategies—shade geometries, airflow corridors, ground surfaces, and planting systems—that reduce radiant and ambient heat while enhancing thermal comfort along the street.

Corridor Typologies

Identify, document, and reimagine New York State's recurring street types—main streets, residential corridors, suburban arterials, village centers, and industrial edges—through their spatial logic, thermal behavior, and climate vulnerabilities.

Streets as Public Places

Reframe streets as civic environments where shade, vegetation, materials, and built form work together to support daily movement, social life, and public health in a hotter New York.

Cascading Design Scales

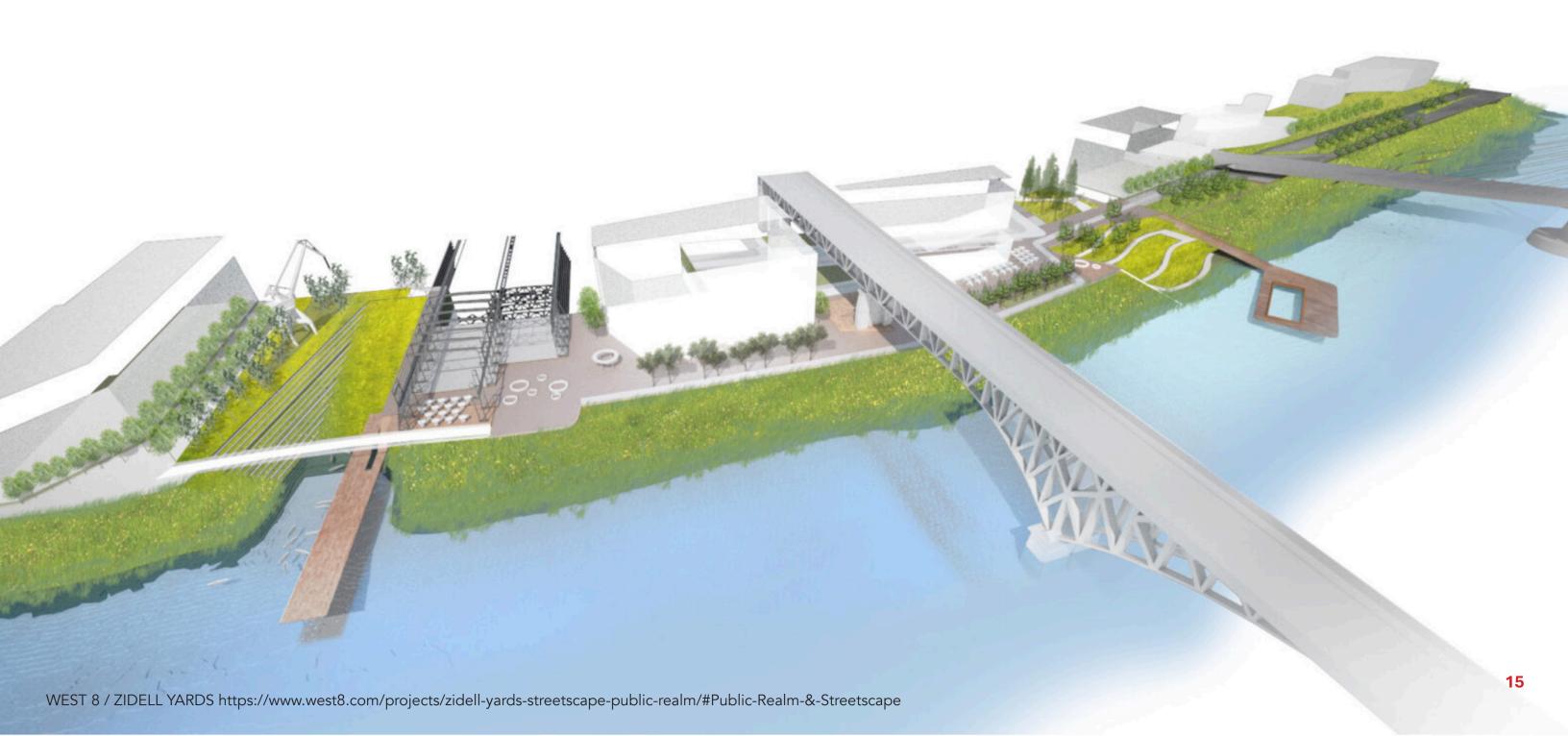
...FROM TERRITORY

- 1. Global Cases in Corridor Landscapes
- 2. Heat Mapping for New York State with the UB SA/P Building Environmental Visualization Lab (BEVL)
- 3. Thermal Transects and Middle Landscape Analysis
- 4. Street Archetype Identification and Typological Framework
- 5. Spatial Prototypes and Modular Cooling Assemblies
- 6. Visualizing Microclimate Performance

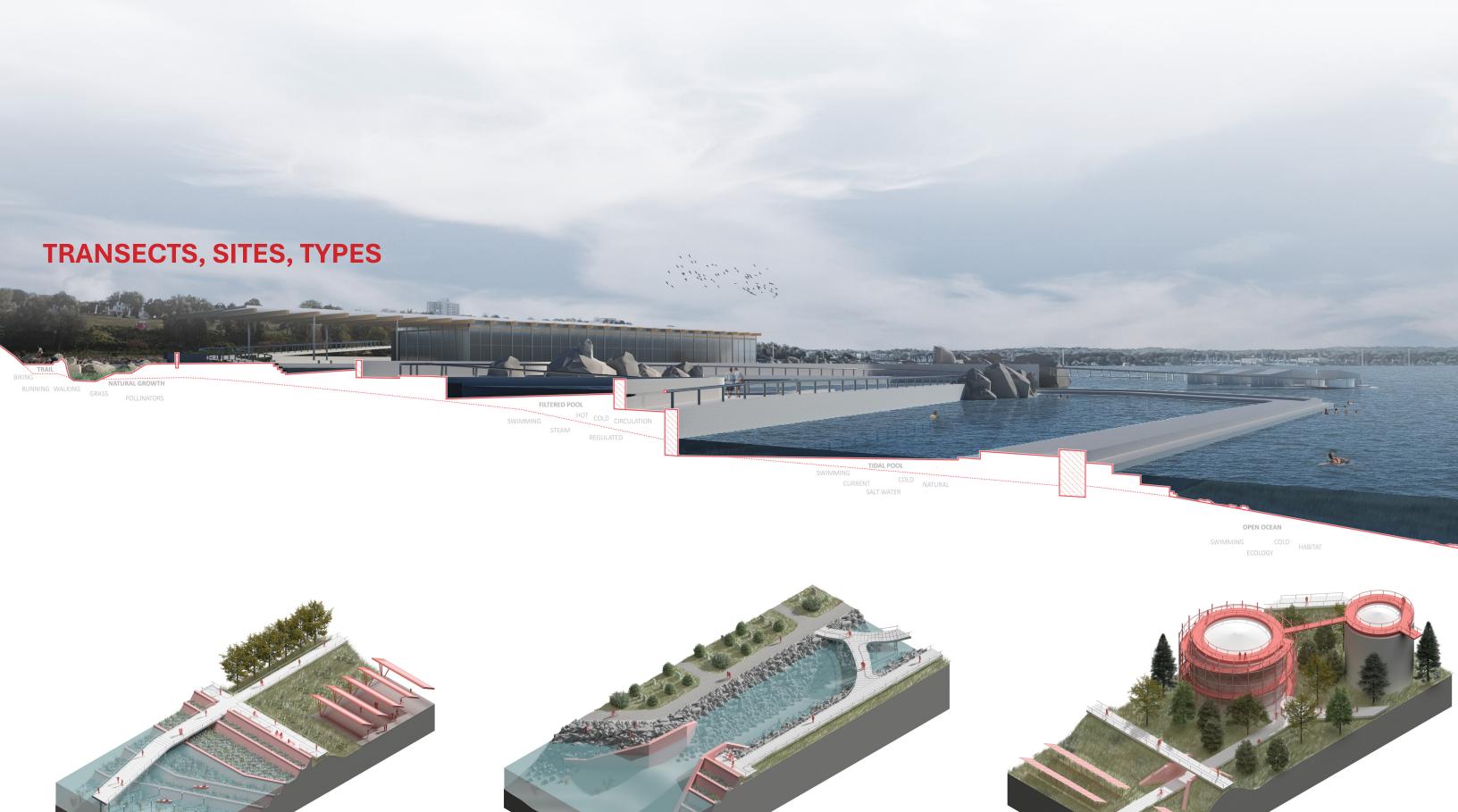
... TO HUMAN EXPERIENCE

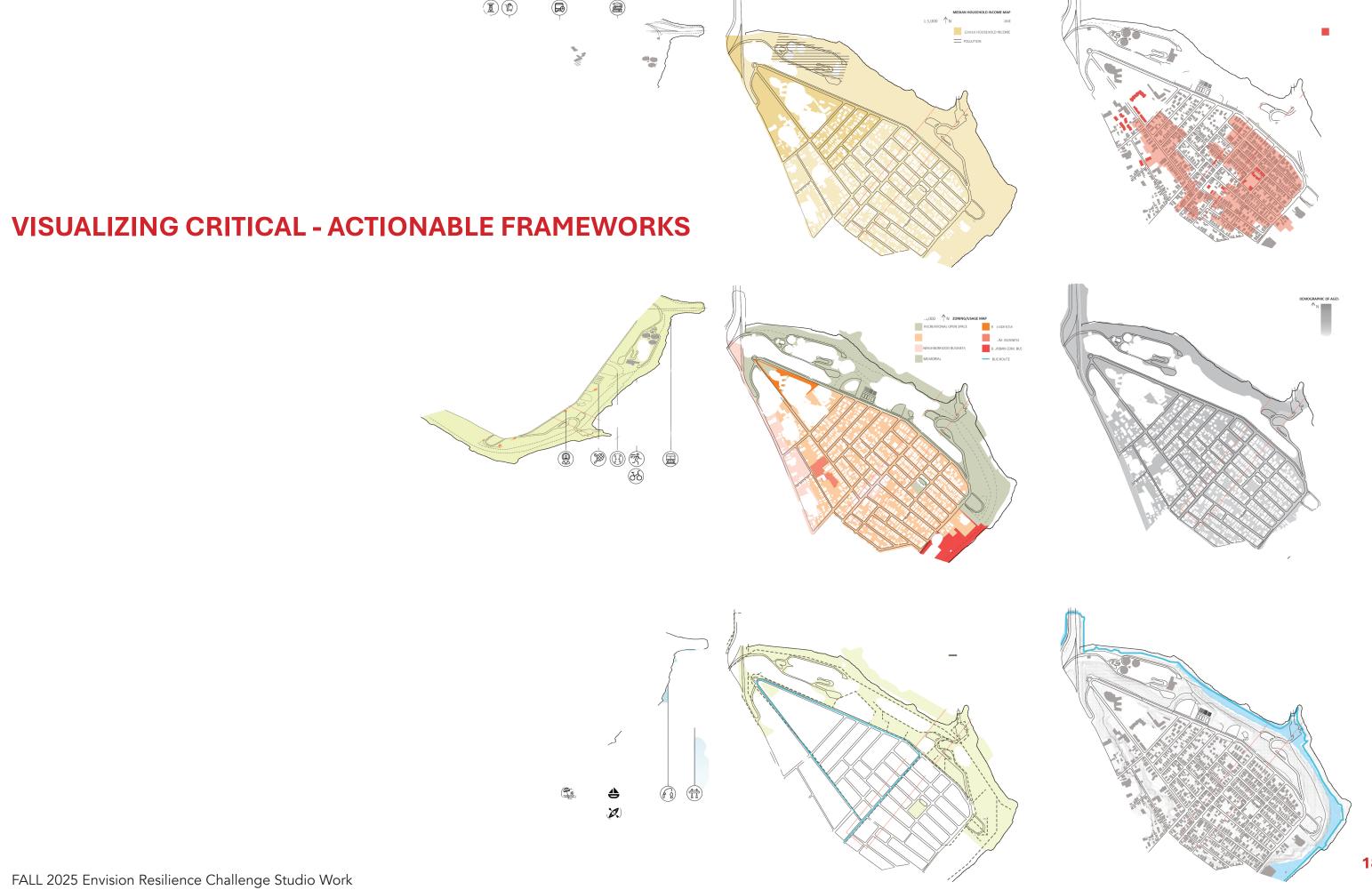
Defining Middle Landscapes

Middle landscapes are the designed spaces between buildings and systems—where the street becomes a climate environment, a public realm, and a site for intervention.















SPONSORING AGENCY New York State Department of Environmental Conservation (NYSDEC) **UB TEAM**



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KEY TRAVEL DATES

Sponsored student travel

February 9 - 13 (tbd) Fieldwork

March 10 - 12 Midterm Reviews - NYSDEC / Albany

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