Creating Climate-Smart Cities
Geographic Information Systems for Informed Decision Making
Green Infrastructure for Climate-Smart Cities

Connect

Absorb

Cool

Protect
Connect

NYC—The Queensway

Chicago—The 606
Absorb

Los Angeles Green Alleys

P.S. 164, NYC—Green Playground
Climate-Smart City Pilots Provide Replicable Model

Research

GIS Planning

Demonstration Projects
RESEARCH: Assess Past GI Performance

GIS: Target Highest Value Sites

DEMONSTRATE: Resilient Designs on Priority Sites

Pilot: Green Infrastructure for Coastal Resilience
Research: How Did GI and Social Networks Function to Mitigate Damage from Sandy?
GIS: Online Portal for Decision Support from Project Selection to Policy Measures

Sea Level Rise and Storm Surge
Waterfront Features—Natural and Built
Demographic Vulnerabilities
Existing Plans and Strategic Criteria
Portal: Use Data to Model Priorities
Portal: Use Query Function to Find High Value Parcels and Develop Parcel Priority Maps
Portal: Use Data to Make Project Maps Showing Climate Relevance
Viewing Sandy Storm Surge Data at NYC Waterfront Site
Demonstration Projects

TPL Project:
North Shore Park,
Staten Island

TPL Project:
Old Place Creek,
Staten Island
Promoting Systems-Level Change—Social Resilience through Community Engagement

Classroom Connections

Participatory Design

Resilience Networking?
Smart Parks Stack Benefits

**People Smart**—10-minute walk standard and innovative park designs to advance livability, recreation, & public health

**Water Smart**—Stormwater control as mandated by law and municipal water quality objectives

**Climate Smart**—Protection from sea level rise and storm surge, heat island mitigation, update GI for future conditions

**Habitat Smart**—Incorporate native plants, wetland features, restored oyster beds, and more
Thank You!

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