# Hazard Resiliency & WestCOG

## Executive Briefing

By **Rob Sachnin, AICP**; Senior Planner
And **Mike Towle**; Associate Planner

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# Discussion Items

- Overview of the HUD NDRC & Letter of Interest
- Regional Deliverables:
    - Economic Profile
    - Transportation Profile
    - Socioeconomic Profile
    - Environmental Profile
- Vision: Resilience Corridors

# HUD National Disaster Resilience Competition (NDRC)

- $ 1 Billion discretionary competition, nationwide
- Core Themes:
    - Economic Development & Social Impacts
    - Transportation & Environmental Systems
- Project team searching for “pilot geographies”
    - Pilot Geographies = potential construction projects
    - Focus on “hazard resilience & mitigation”

# HUD National Disaster Resilience Competition (NDRC)

- Connecticut Project Team:
  - Representatives from nine state agencies

DECD

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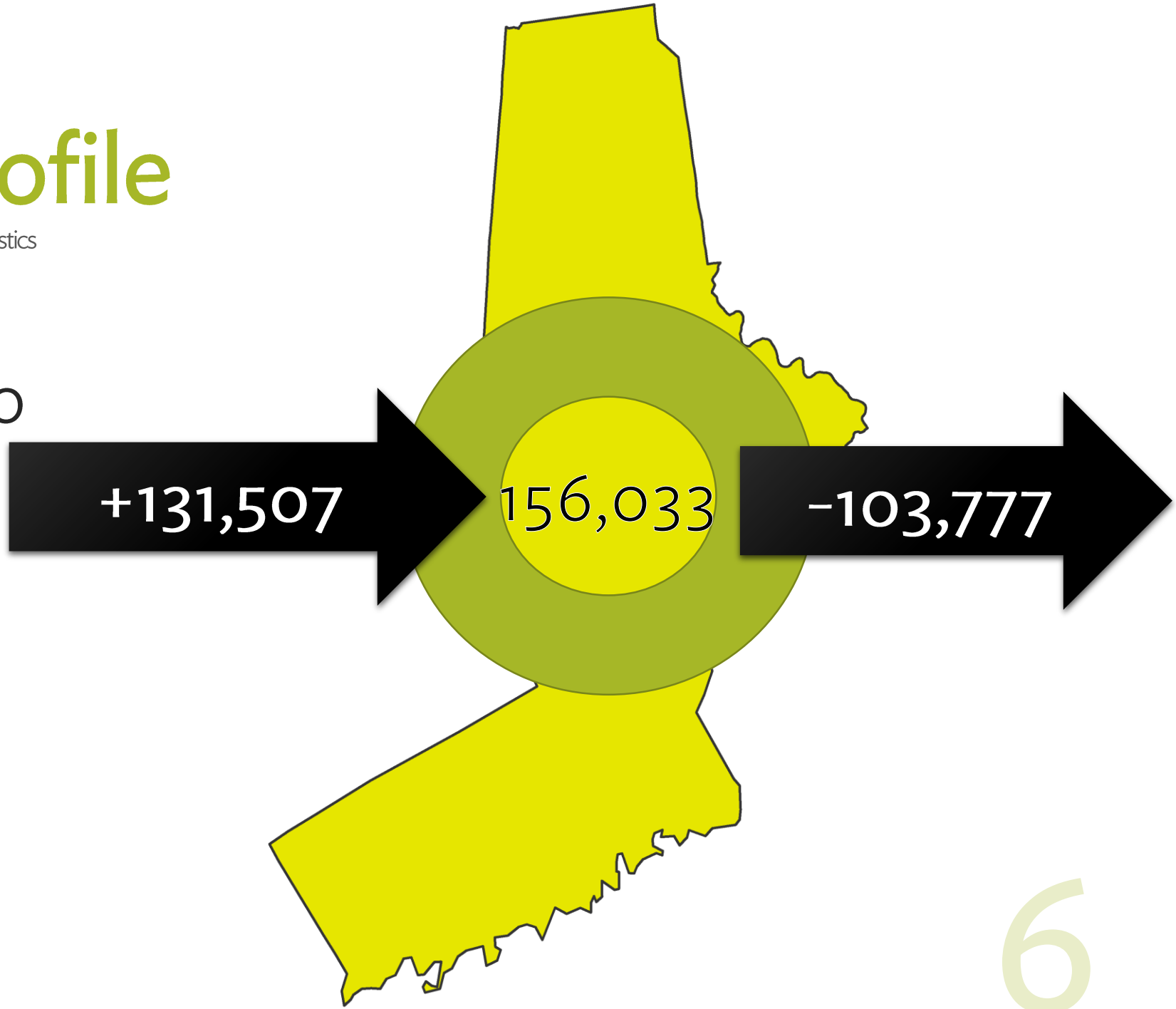
# Economic Profile

- WestCOG region is primary economic driver for state
    - ~48% of job growth over last five years
    - ~38% of state income tax
    - Net importer of jobs

# Economic Profile

Based on American Community Survey 2013 five year statistics

Total Jobs: 287,540




Net Gain:

+27,730

# Economic Profile

Based on American Community Survey 2013 five year statistics

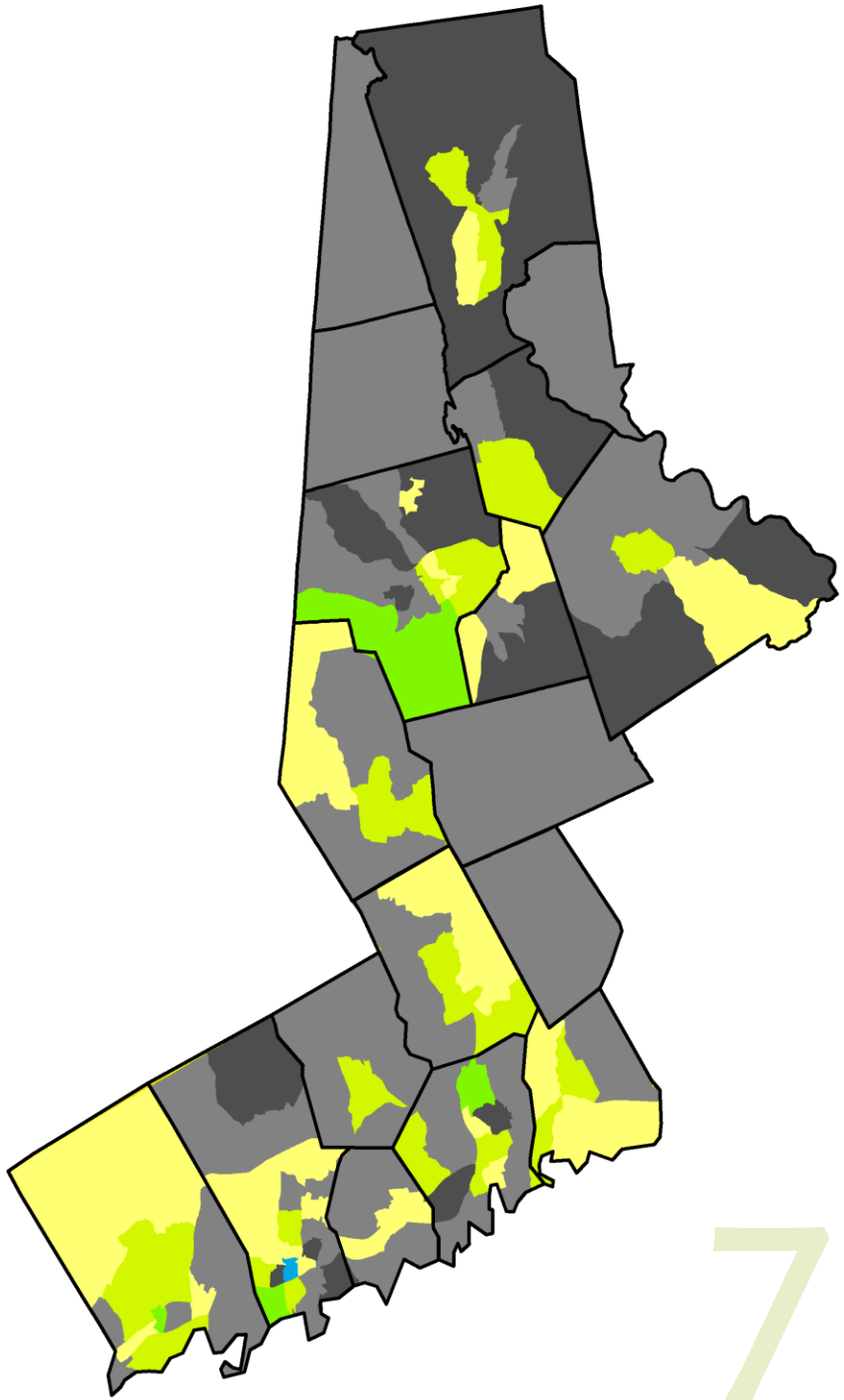
## Daytime Population:

Increased population

- 10,000+
- 5,000 to 10,000
- 1,500 to 5,000
- 0 to 1,500

Reduced population

- -1,500 to 0
- -3,000 to -1,500



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# Transportation Profile

- Interplay between Transportation & Economic Prosperity
    - WestCOG as "Gateway to New England"
    - Preservation of multi-modal corridors is vital for:
        - Access to jobs
        - Freight
        - Emergency evacuations & commodity distribution

# Transportation Profile

Based on Connecticut 2015 911 Road Data

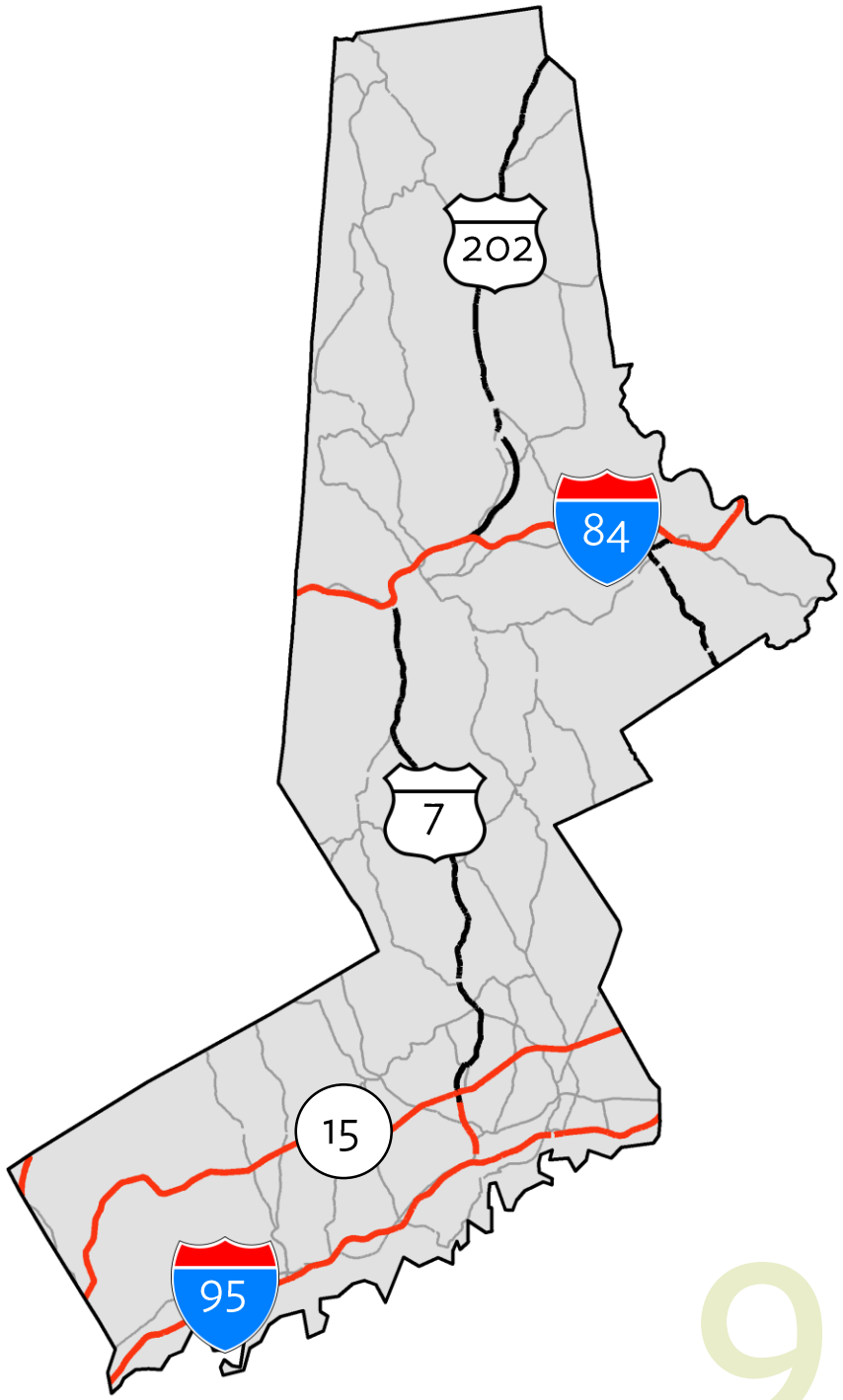
**3,751** total road miles

**3,283** local road miles

**283** collector road miles

**50** arterial road miles

**135** interstate miles

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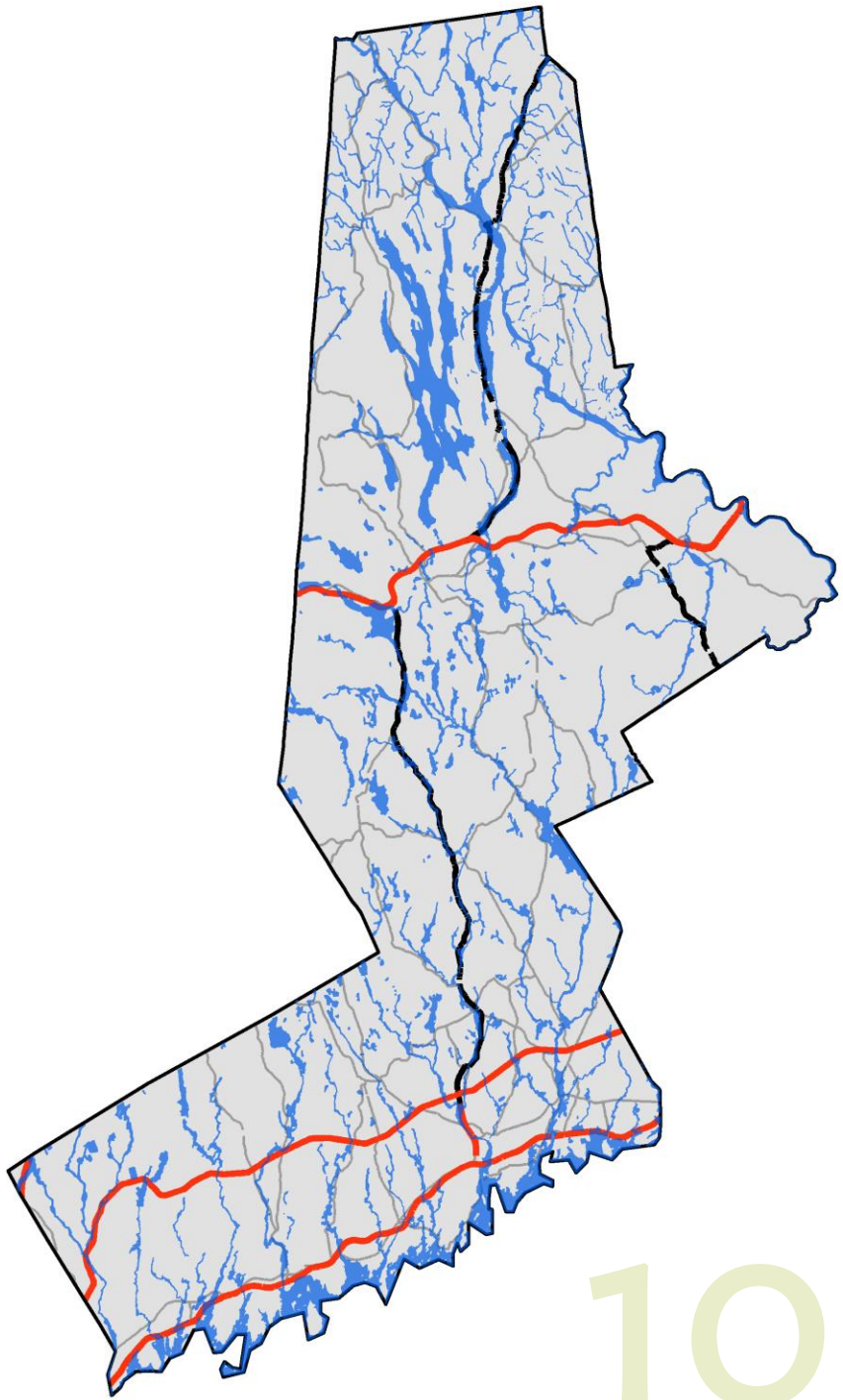
# Transportation Profile

Based on Connecticut 2015 911 Road Data

**3,751** road miles **5% flooded** (187 mi)

Arterial roads, **12% flooded** (6 mi)

Interstate roads, **3% flooded** (4 mi)



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# Transportation Profile

Based on Connecticut 2015 911 Road Data

## Sea Level Rise Inundation:

- *Over **81 miles** of **roads***
- *Over **5 miles** of **highways***
- *24 locations along New Haven Line corridor (rail)*

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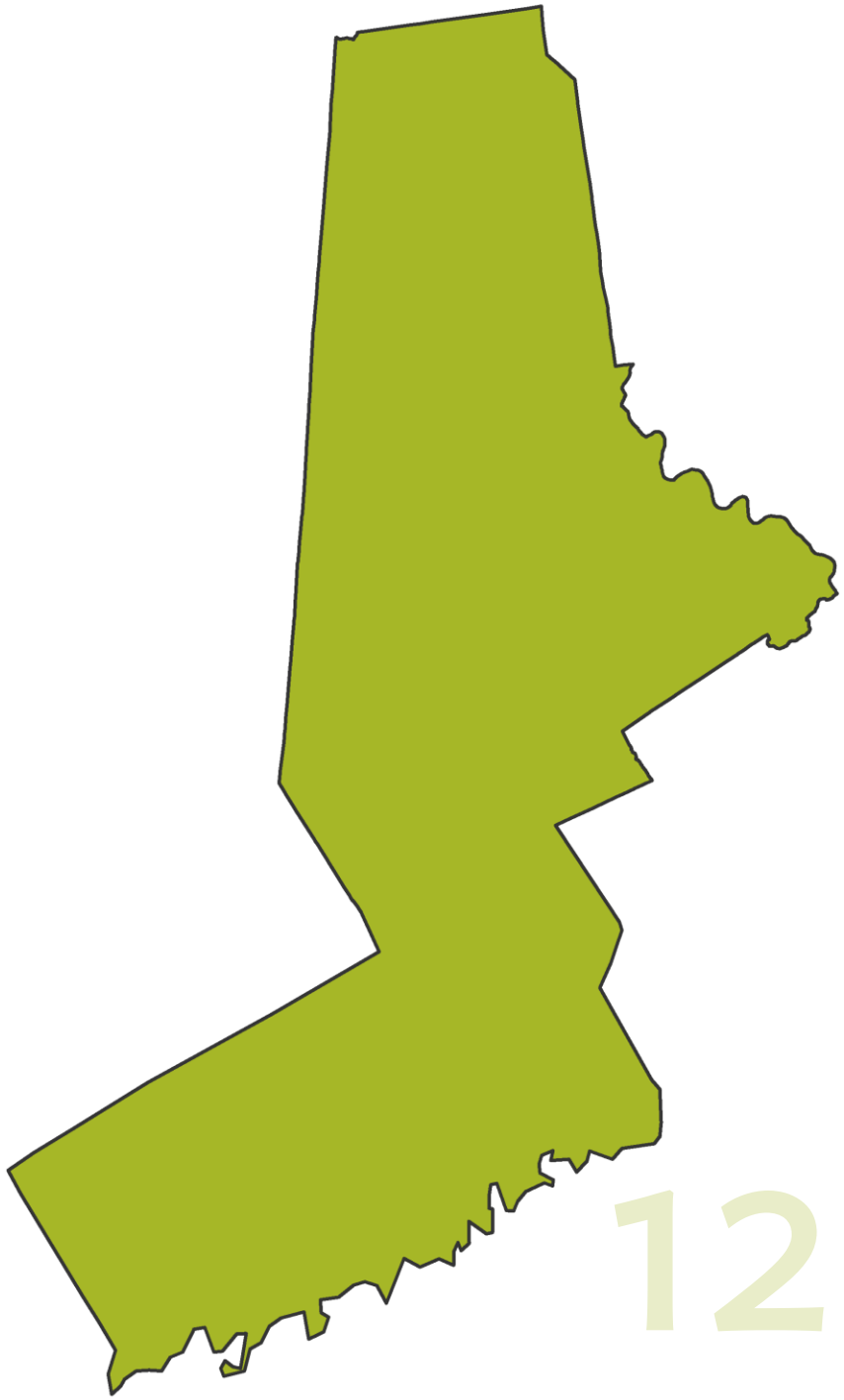
# Socioeconomic Profile

Based on American Community Survey 2013 five year statistics

WestCOG Population:

## 595,100 people

(17% of the state)



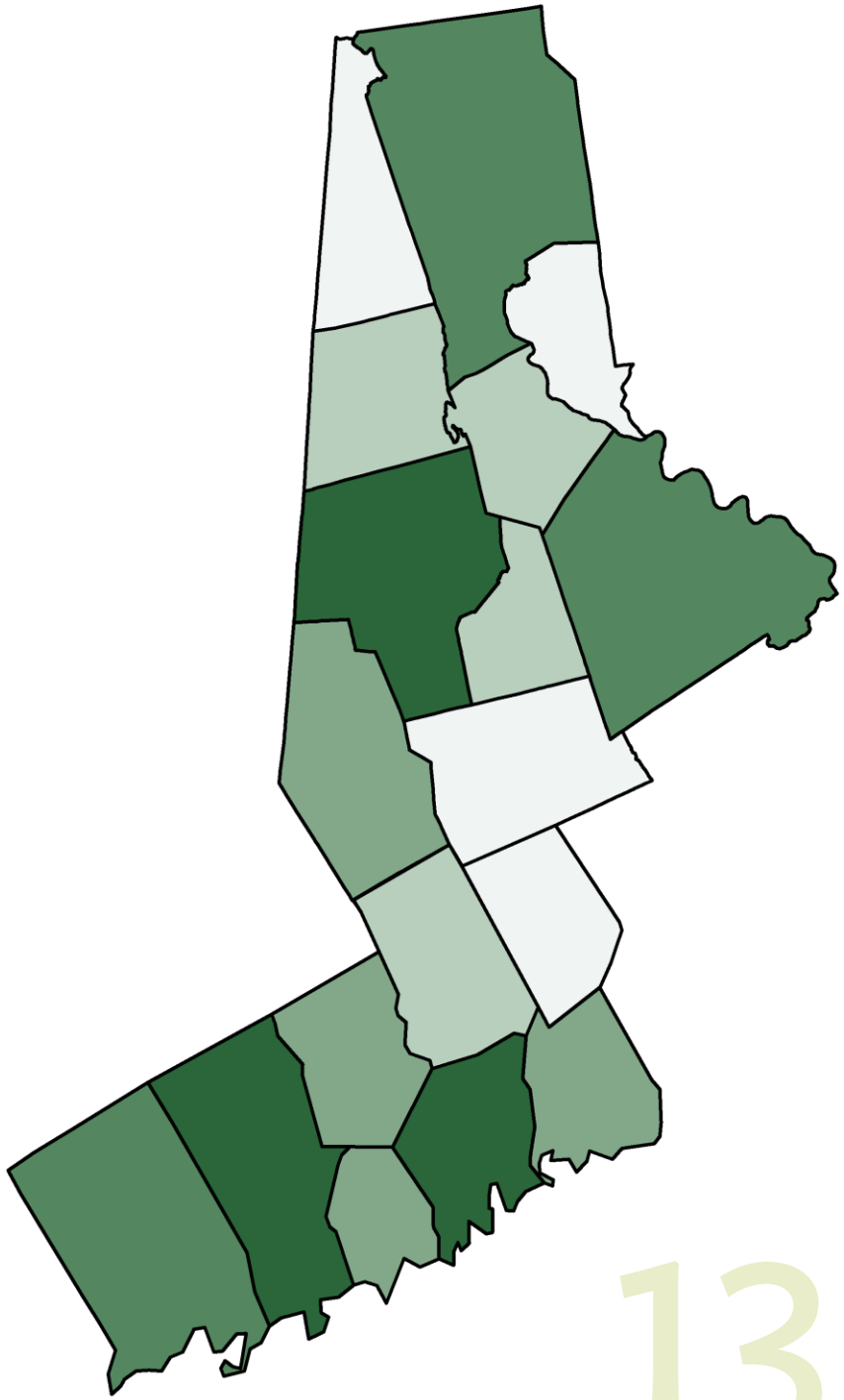
# Socioeconomic Profile

Based on American Community Survey 2013 five year statistics

Municipal Population:

Min: 1,729 (Bridgewater)

Max: 123,995 (Stamford)





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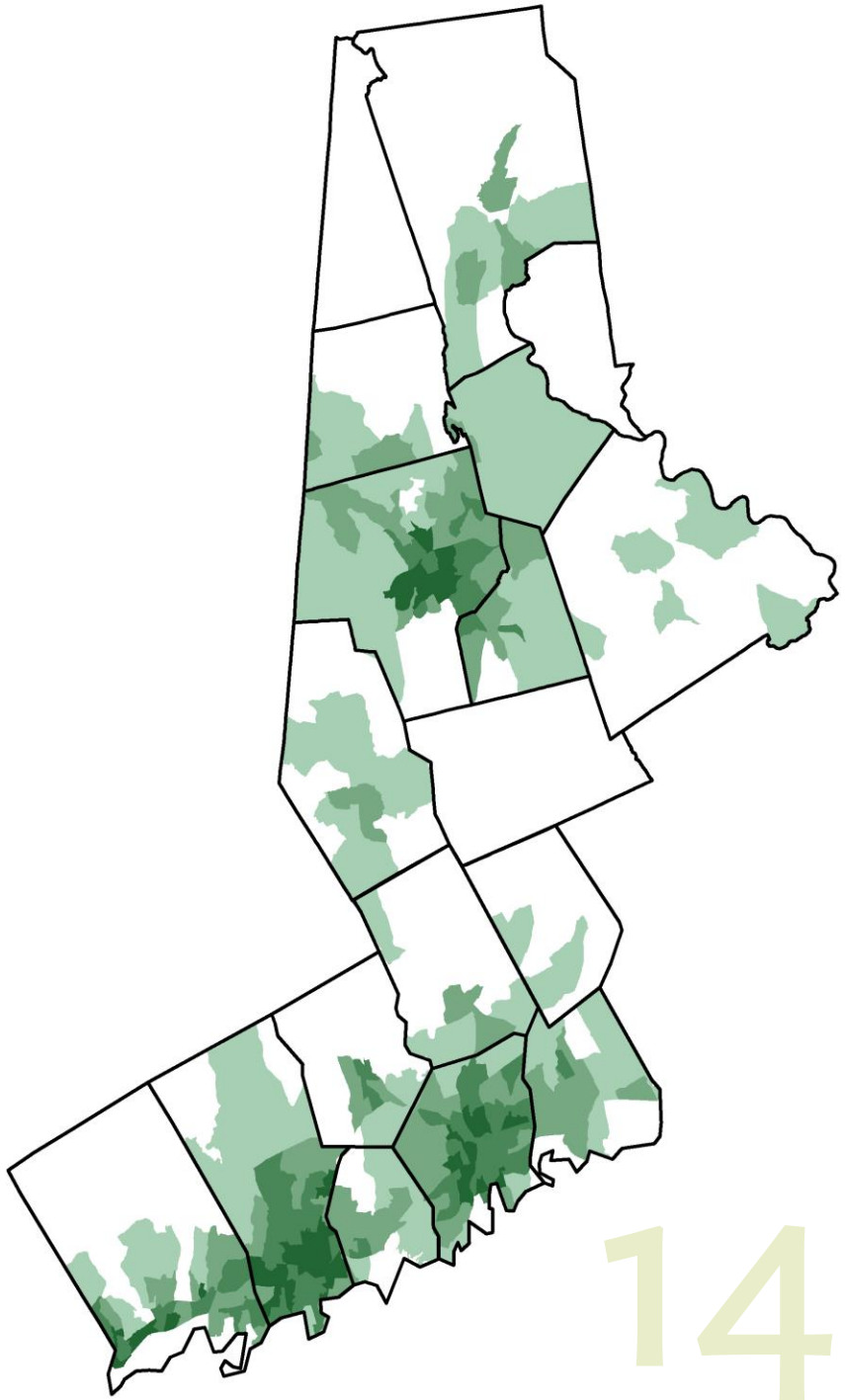
# Socioeconomic Profile

Based on American Community Survey 2013 five year statistics

Small Scale Population Density:

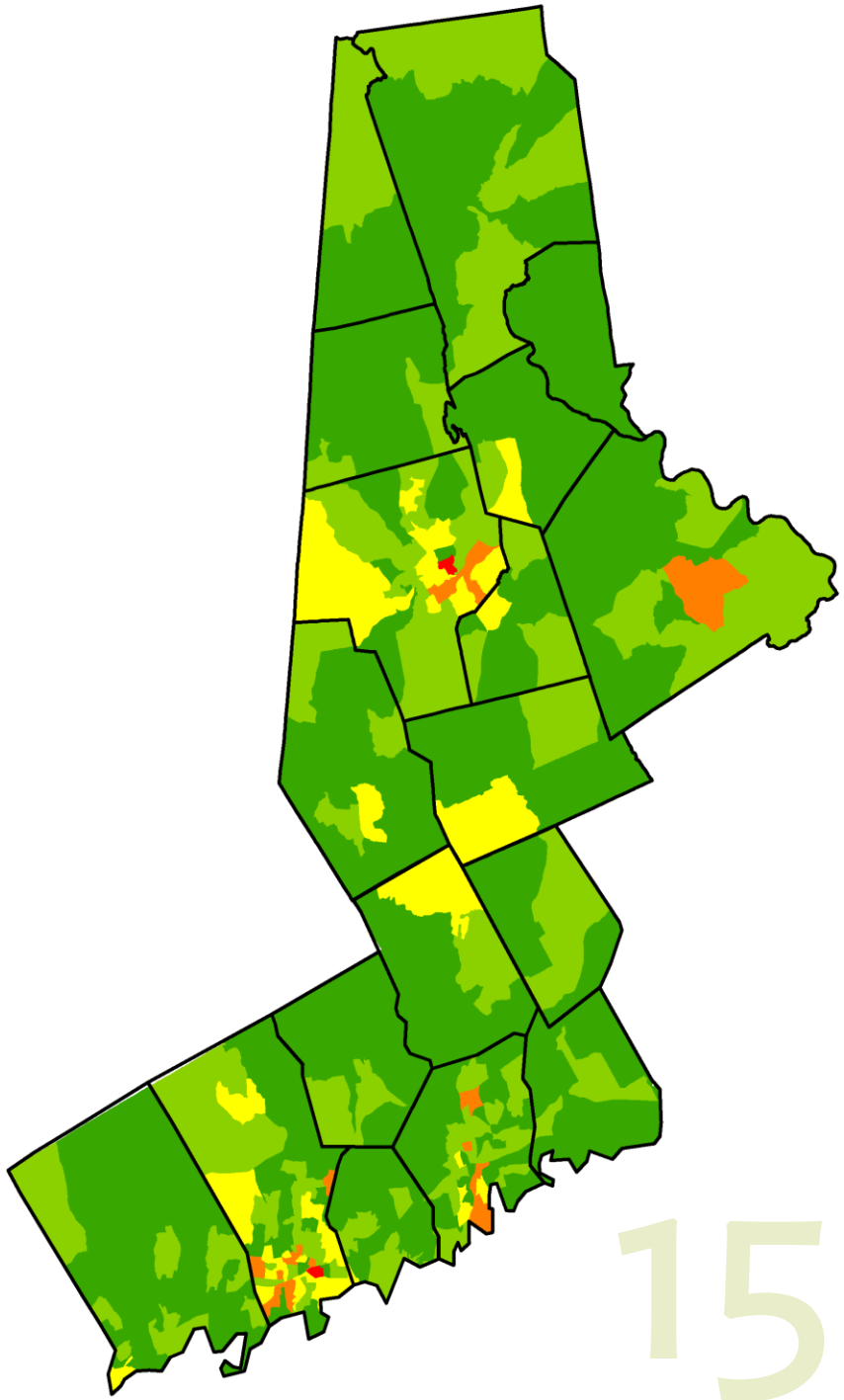


# Socioeconomic Profile

Based on American Community Survey 2013 five year statistics

## Social Vulnerability:

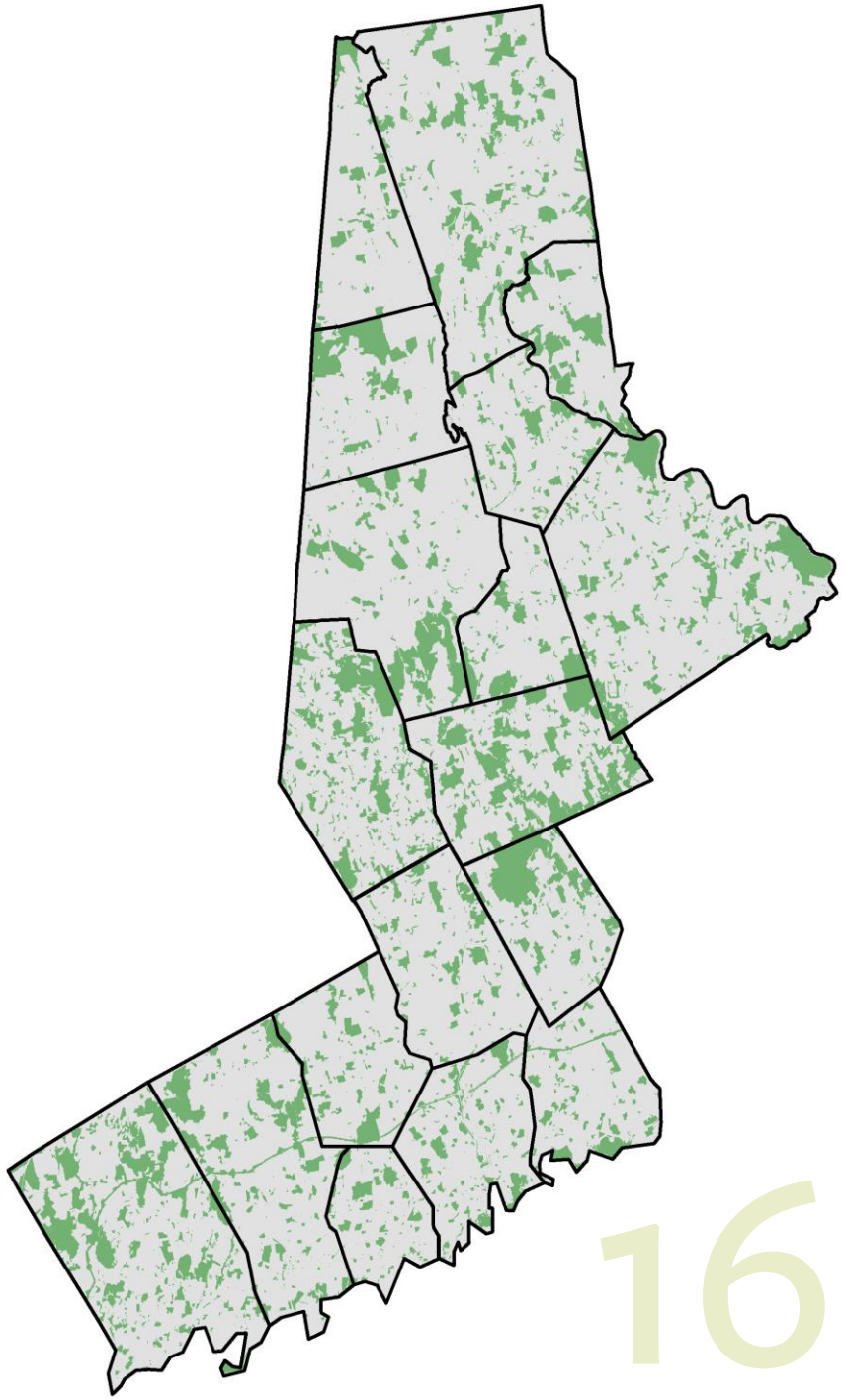
1. *Limited English Speaking Household*
2. *No vehicle*
3. *Institutionalized group quarters.*
4. *Families below poverty*
5. *Disability 16-64*
6. *Age 5 years and under*
7. *Age 85 years and over*



# Environmental Profile

Based on CTDEEP open space data

71,000 acres of open space



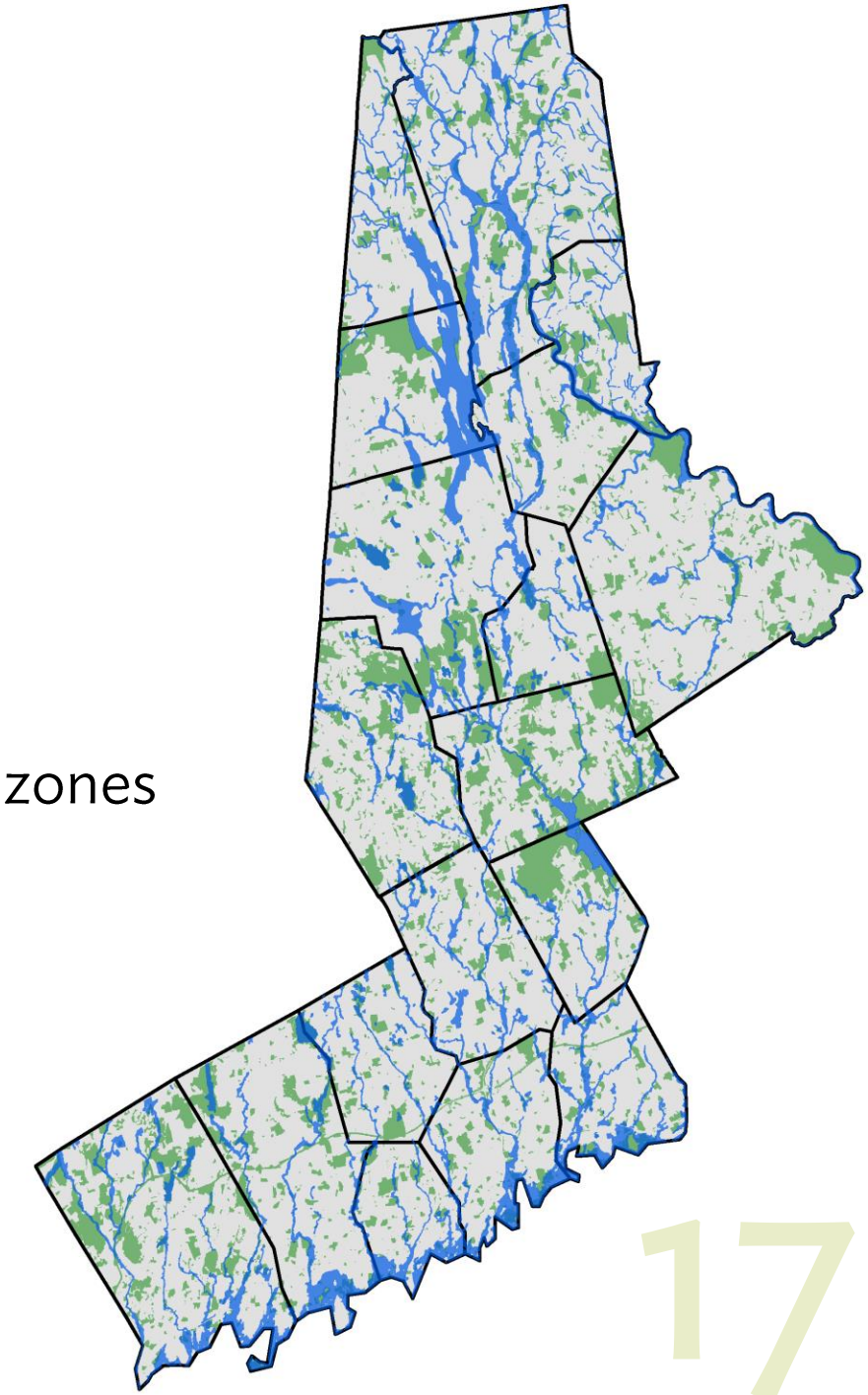
# Environmental Profile

Based on CTDEEP open space data

71,000 acres of open space

9,364 acres fall within FEMA flood zones.

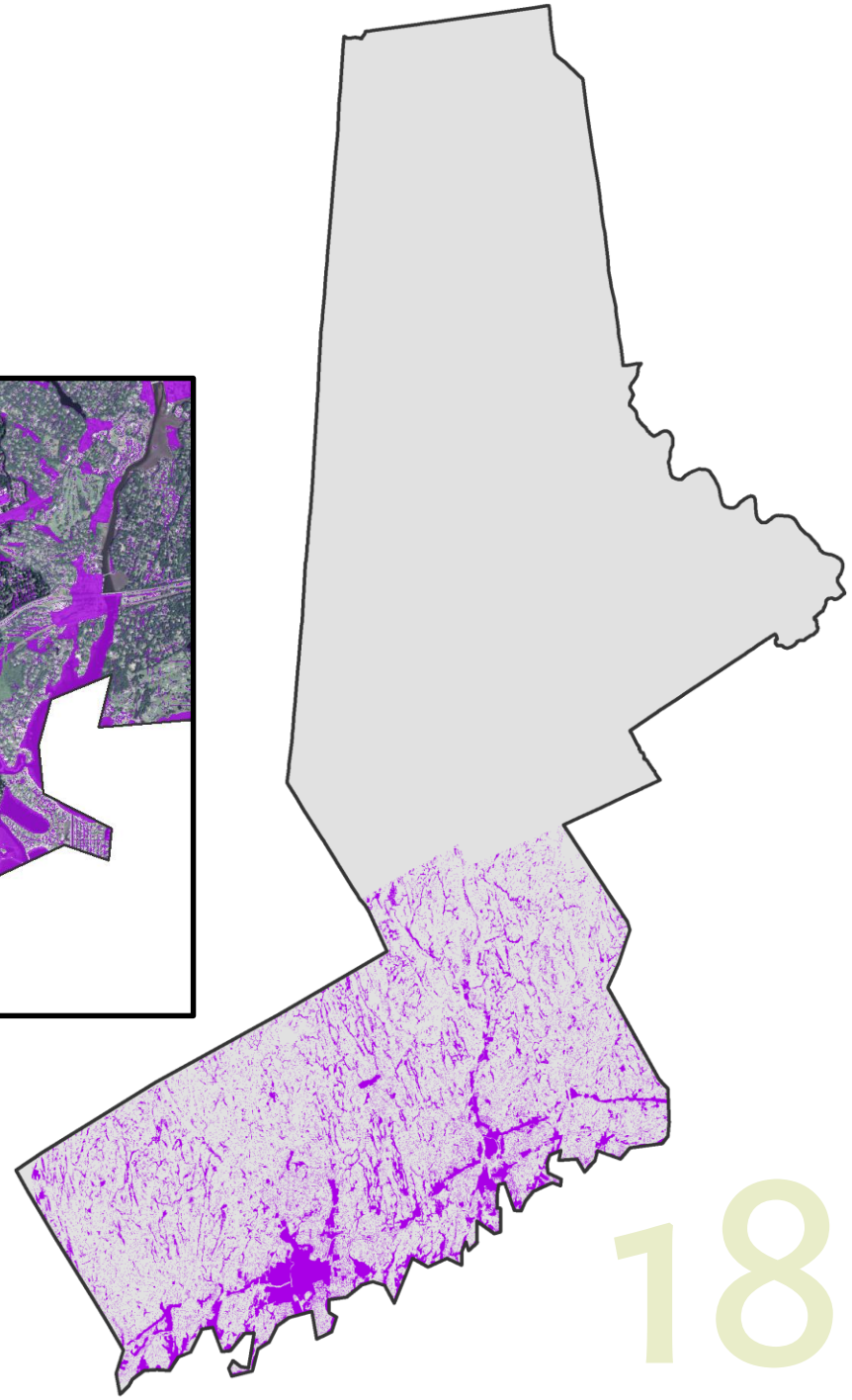
This accounts for about 25% of all the FEMA flood zones in the region.



# Environmental Profile

Leverage GIS new data and model vulnerability.

Example:
Extreme Precipitation Model





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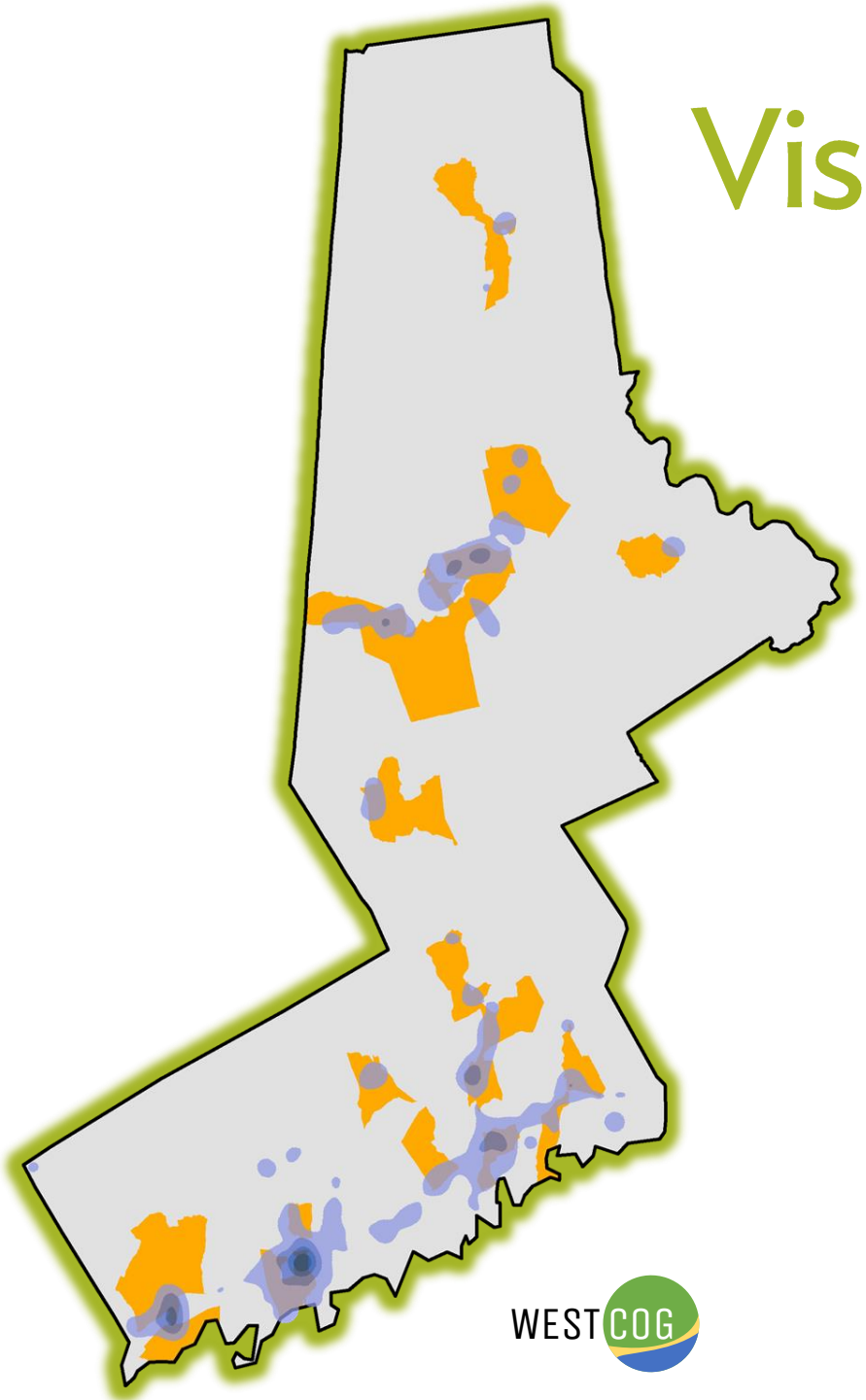
# Vision: “Resilient Corridors”



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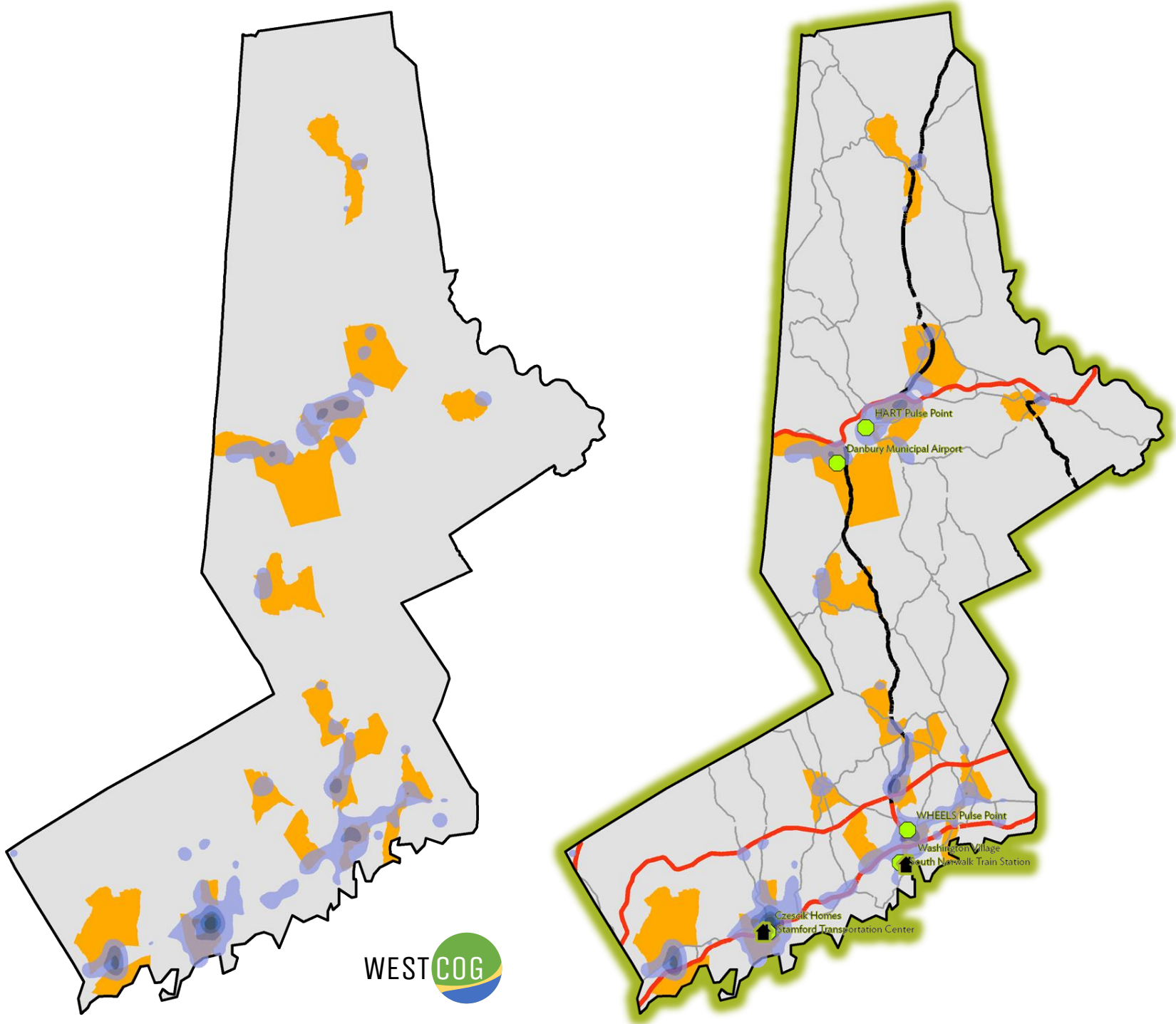
HART Pulse Point
Danbury Municipal Airport
WHEELS Pulse Point
Washington Village
South Norwalk Train Station
Czesak Homes
Stamford Transportation Center

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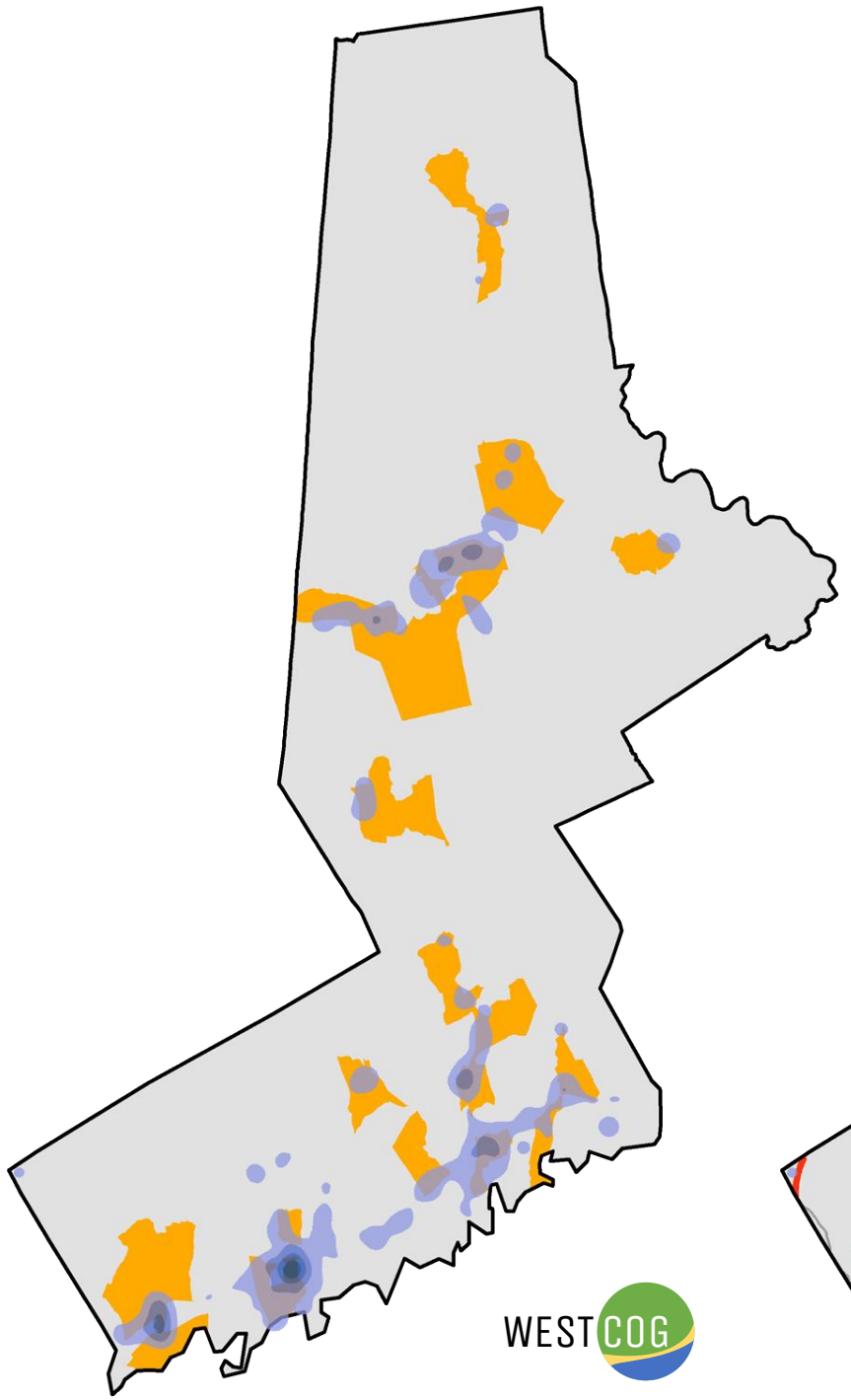

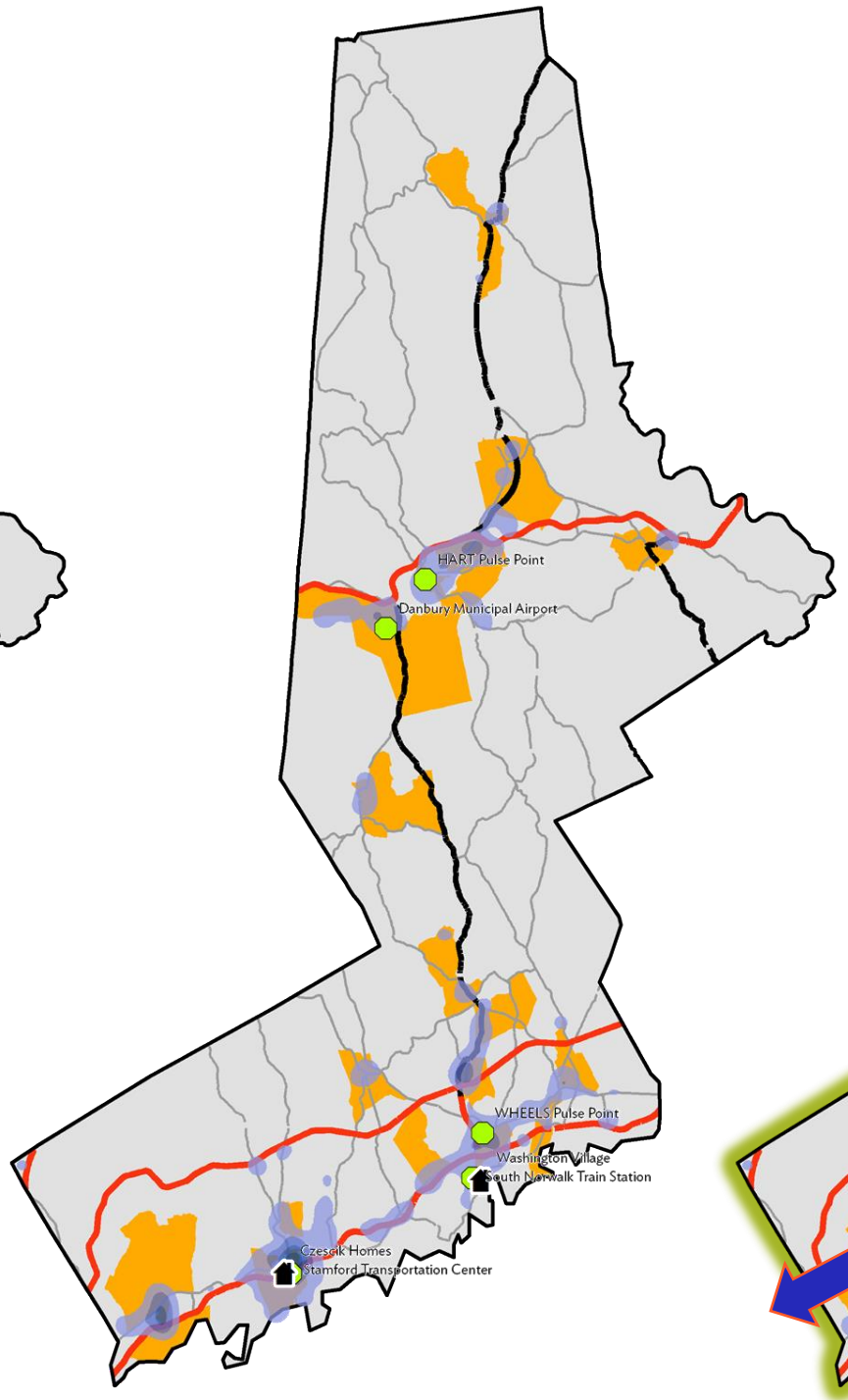
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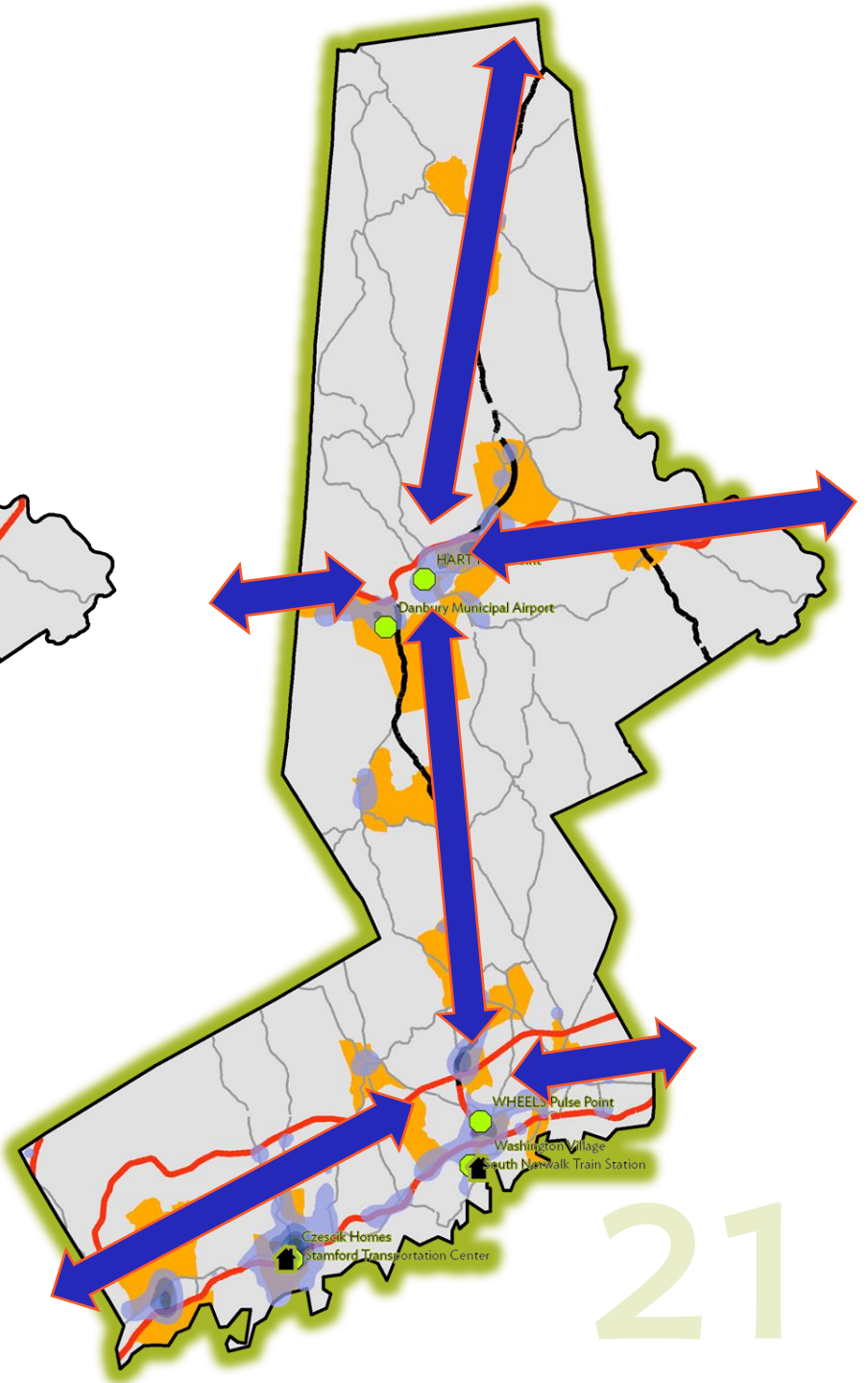
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# Other Work Products: *Completed/Ongoing*

- FEMA Hazard Mitigation Plans
- Regional Functional Needs Shelter Assessment
- Enhanced Precipitation Event (EPE) Model
- DEMHS Emergency Evacuation Planning/Needs Assessment
- UConn:
    - Flood Mapping
    - Utility Damage Prediction Model

# Other Work Products:
## *Proposed*

- Regional Community Rating System (CRS)
- Northern Enhanced Precipitation Event (EPE) Model
- Emergency Management Web Application
- Open Space Inventory

# Thank you!

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