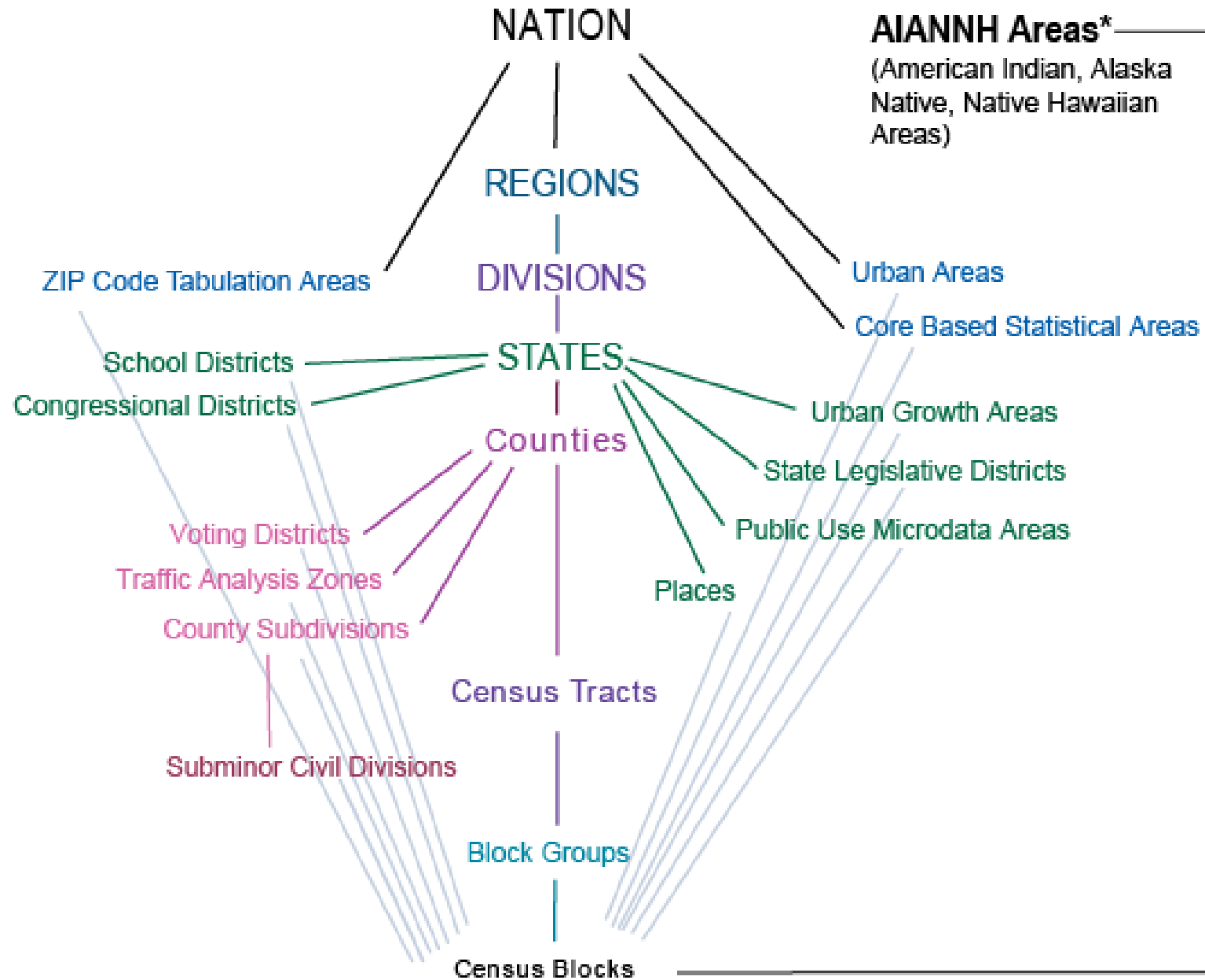# USING BUILDING FOOTPRINTS TO ALLOCATE ACS ATTRIBUTES TO NON-ALIGNING STUDY AREAS

James Zollweg, Ph.D.

SUNY BROCKPORT
1835

Standard Hierarchy of Census Geographic Entities

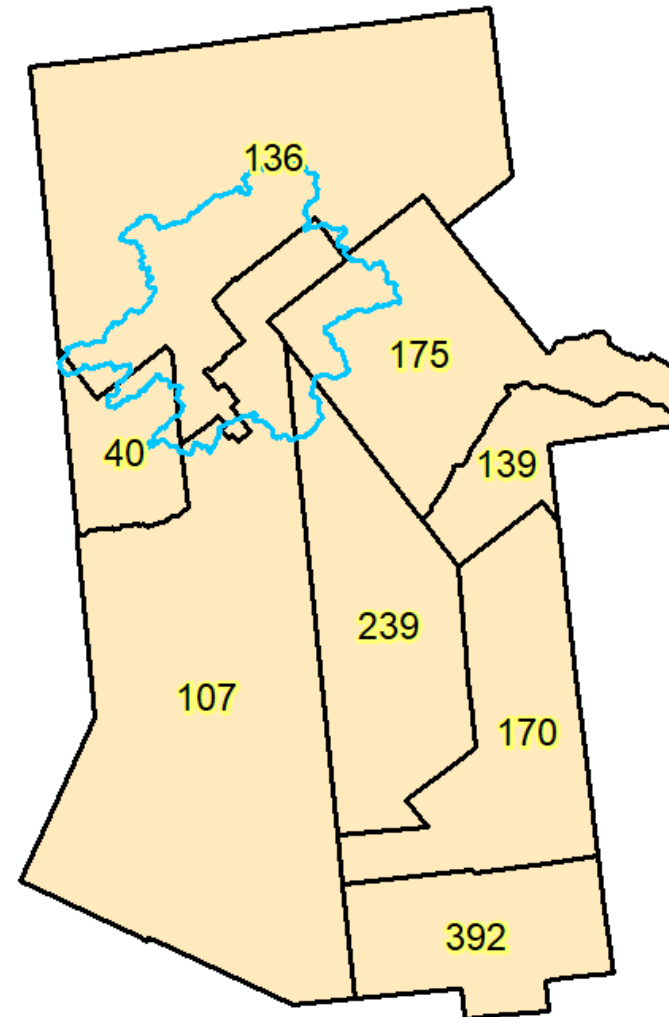# GEOGRAPHICALLY NON-CONFORMING STUDY AREAS

- Also called:
  - Locally-Relevant Geographies
  - User-Defined Boundaries
  - Non-aligning Study Areas

How Many "Seniors" in my study area?

GEOGRAPHICALLY NON-CONFORMING STUDY AREAS

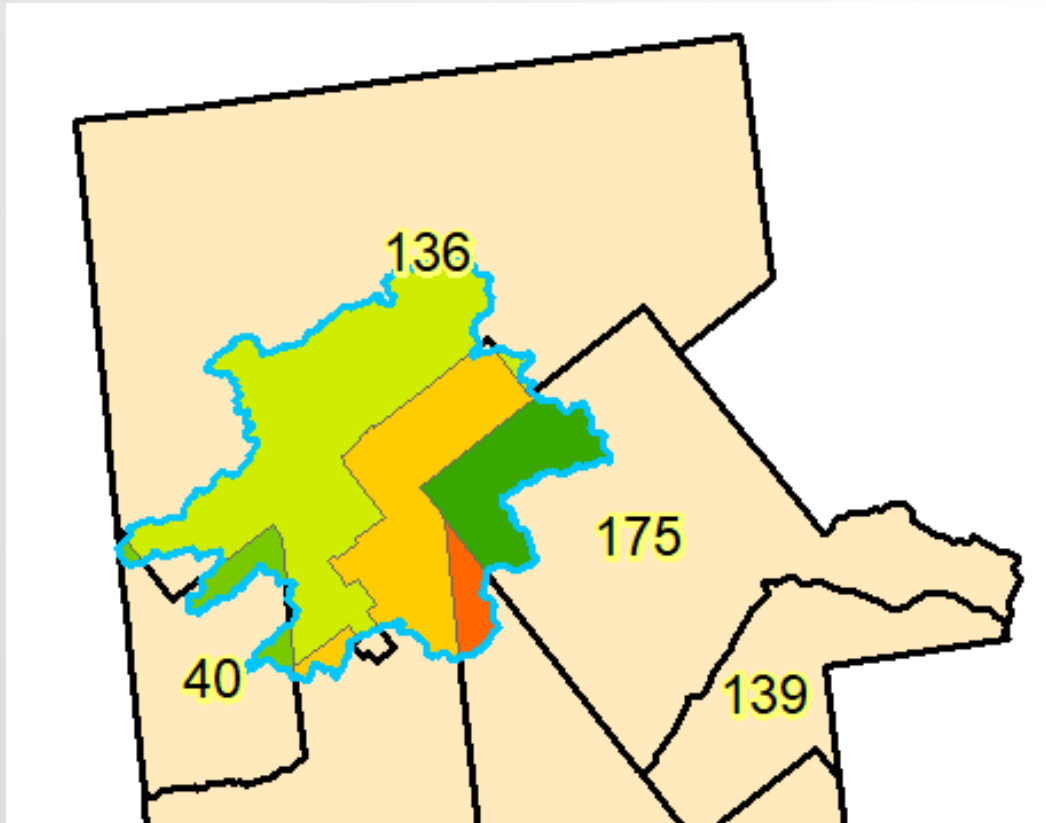Hamilton Co., NY Block Groups Labeled with 60+ population

Raquette River watershed **boundary in blue**
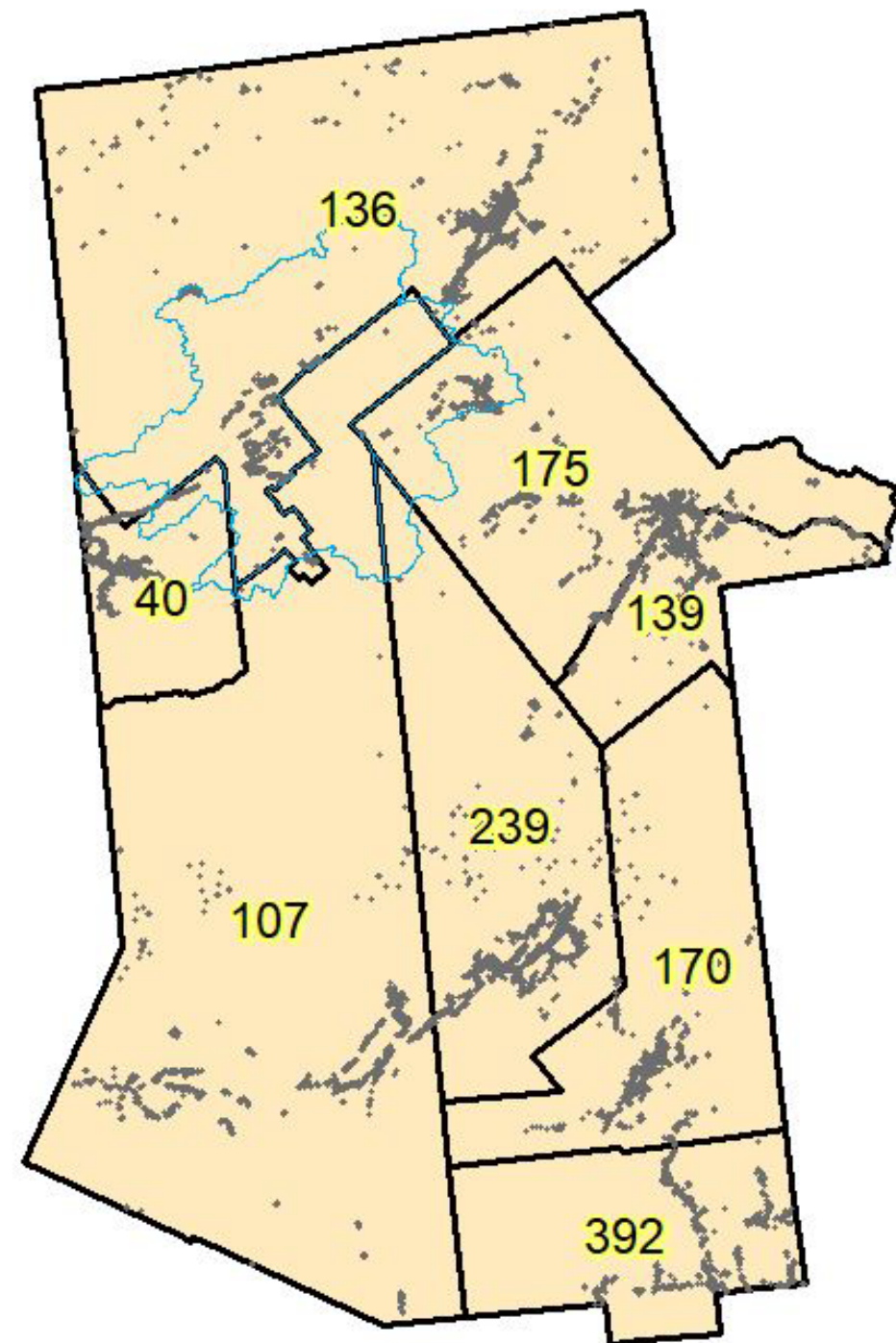
GEOGRAPHICALLY NON-CONFORMING STUDY AREAS

- Proportional Allocation (area)

- Intersect Census geographies with study area to create a new polygon layer
- Calculate the percentage of the **area** of each census geography within the study area
- Multiply each percentage by the numeric property of interest (e.g., population, housing units, income) for that piece
  - Add up all the above calculated 'allocations'

GEOGRAPHICALLY NON-CONFORMING STUDY AREAS

- Building Footprint Data Set

GEOGRAPHICALLY NON-CONFORMING STUDY AREAS

- Proportional Allocation (BUILDING FOOTPRINTS)

- Intersect Census geographies with study area to create a new polygon layer
- Calculate the percentage of the **area** of each census geography within the study area
- Multiply each percentage by the numeric property of interest (e.g., population, housing units, income) for that piece
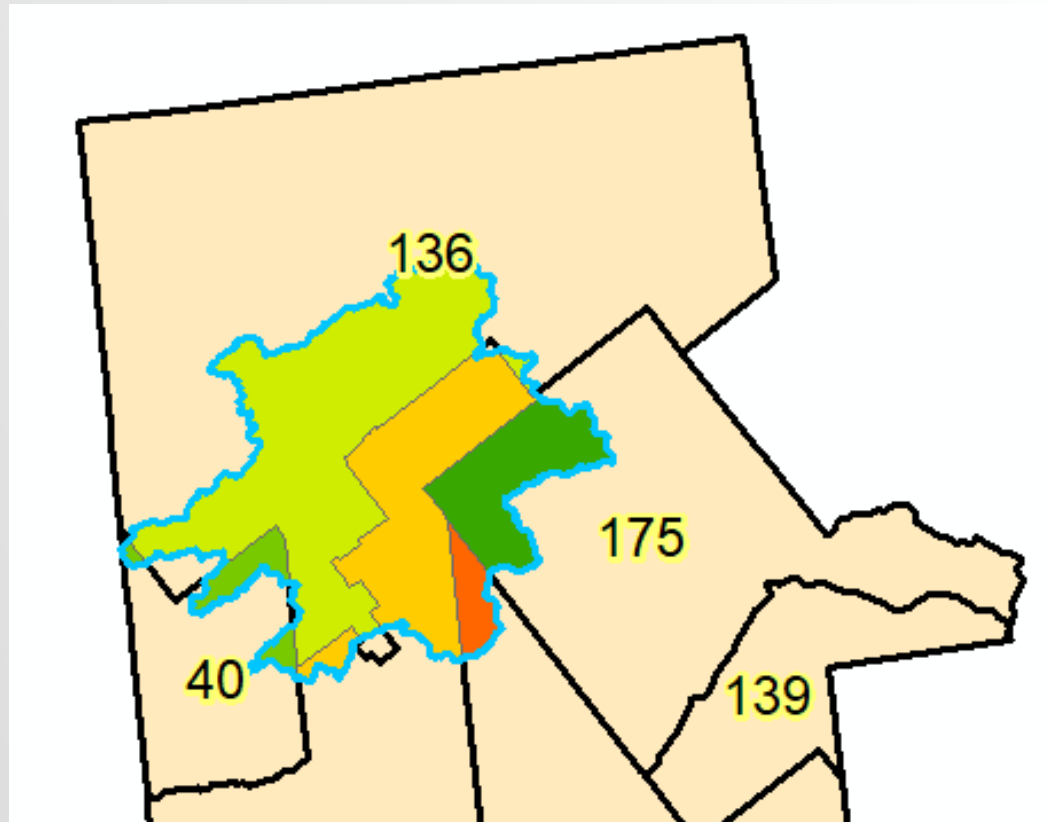 - Add up all the above calculated 'allocations'

GEOGRAPHICALLY NON-CONFORMING STUDY AREAS

- Also called:
  - Locally-Relevant Geographies
  - User-Defined Boundaries

GEOGRAPHICALLY NON-CONFORMING STUDY AREAS

- Also called:
  - Locally-Relevant Geographies
  - User-Defined Boundaries

TWO CONTENT LAYOUT WITH SMARTART

- First bullet point here

- Second bullet point here

- Third bullet point here

Group A
- Task 1
- Task 2

Group B
- Task 1
- Task 2

Group C
- Task 1
- Task 2