



# **Addressing Transportation Equity in the Safety Goal Area**

**June 11, 2020**

**Betsy Harvey**

# Outline

- **Overview of transportation equity scoring proposal**
- **Proposed safety criteria for evaluating impacts on equity populations**
- **Application to safety criteria**

# Proposed Equity Evaluation Framework

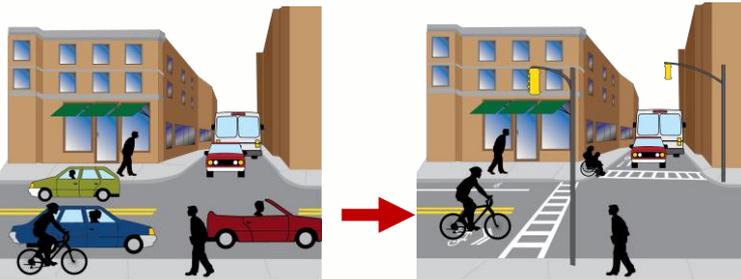
Goal: Evaluate project's impacts on equity populations

## Evaluate Equity Criteria

Safety  
Criteria



Evaluate equity criteria in each goal area



Improves pedestrian safety



Base Score

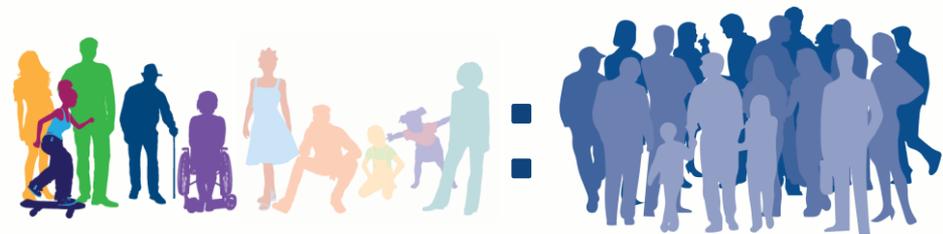
X

= Final Score

## Identify Equity Populations in Project Area



Determine the share of the equity population  
and compare to the regional average



Equity Multiplier

# Proposed Safety Criteria

- **Crash severity value (equivalent property damage only [EPDO] value)**
- **Improves bicycle safety**
- **Improves pedestrian safety**
- **Fatality/serious injury crash rate**
- **Improves safety of all users**

“Improving pedestrian safety is the most important to me... A system that works for pedestrians is a more equitable system.”

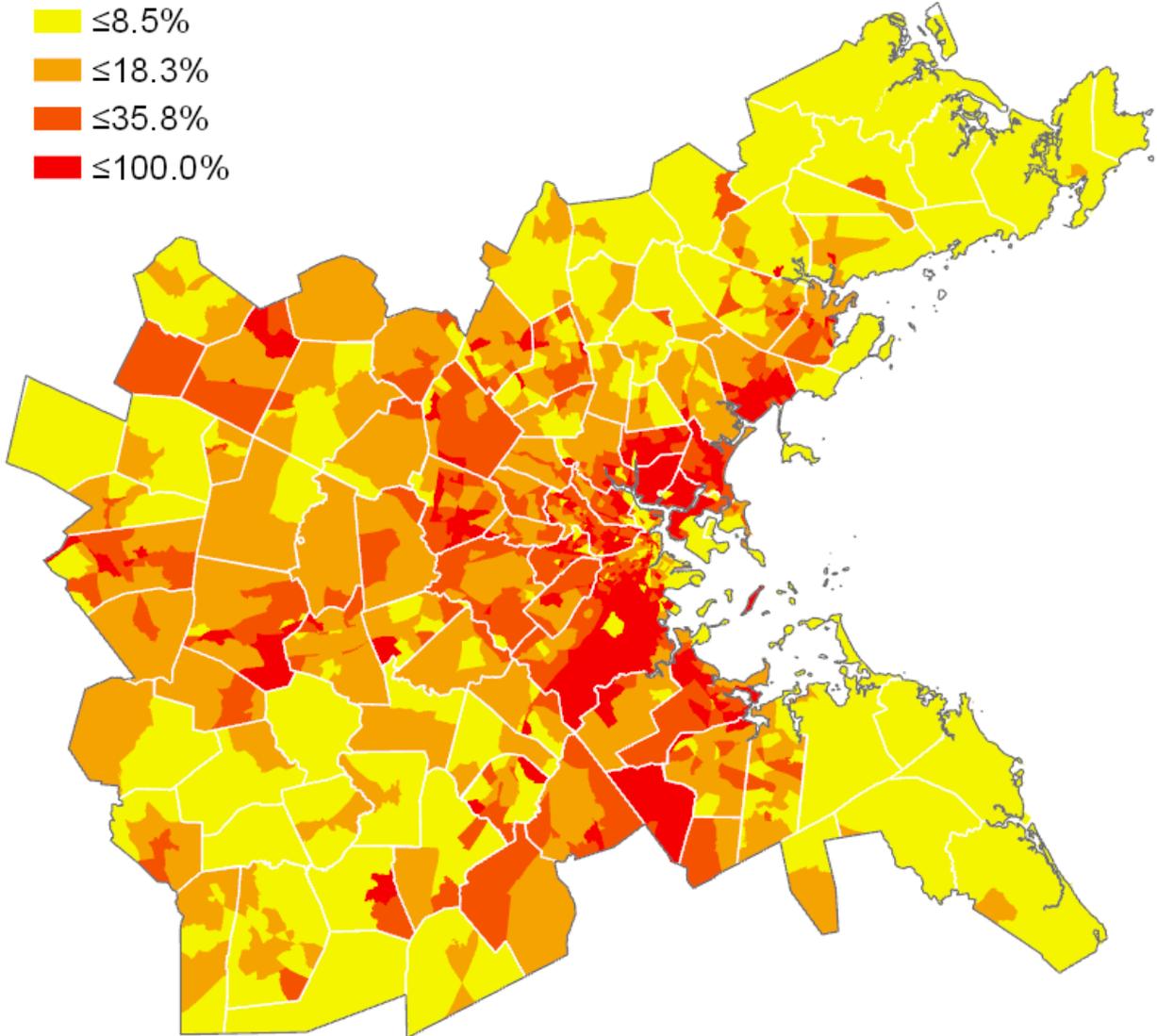


# Step 1

## Create Equity Index

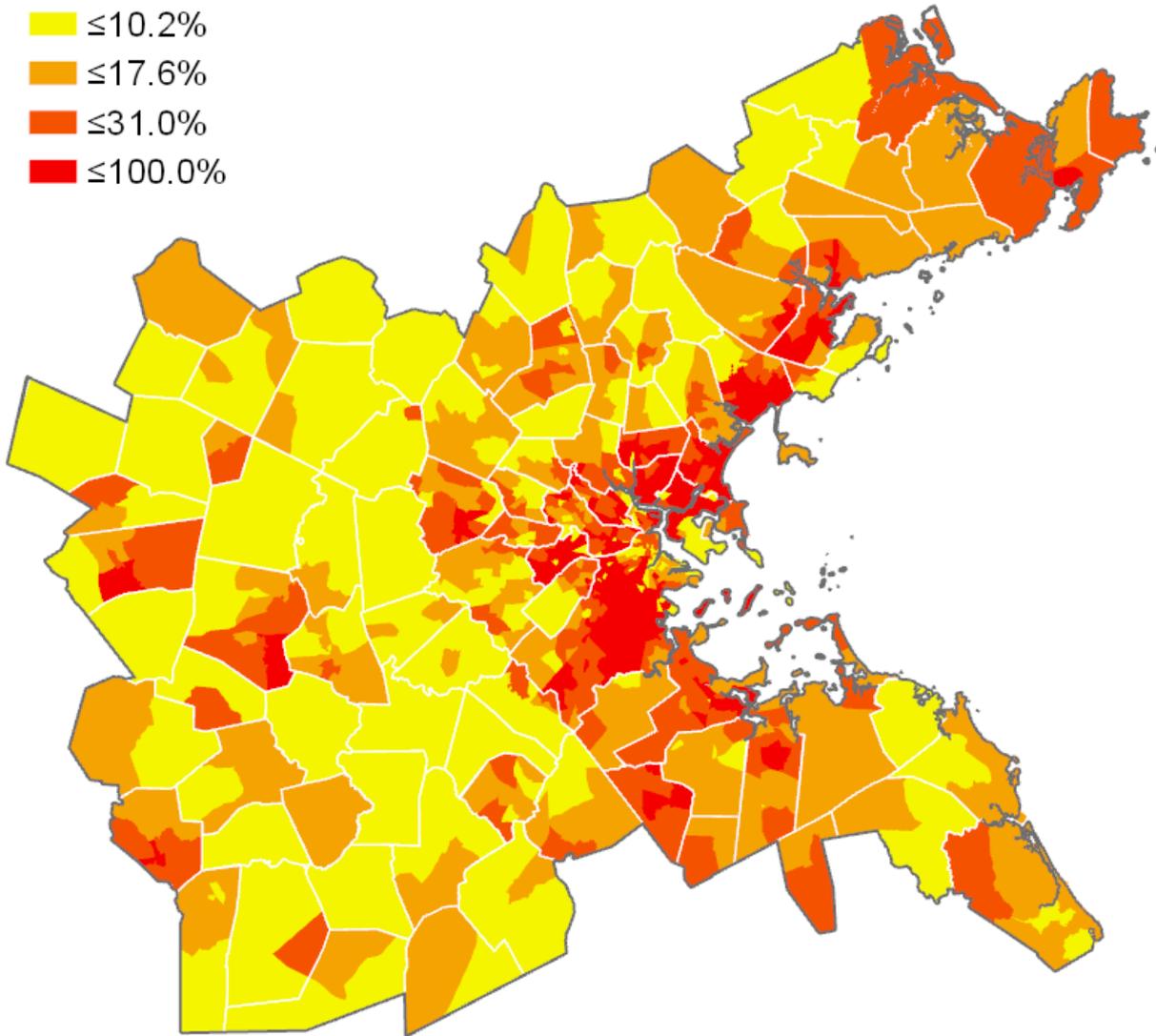
# Minority Population

Share of Minority Population



# Low-income Population

Share of Low-income Population



# People with Limited English Proficiency (LEP)

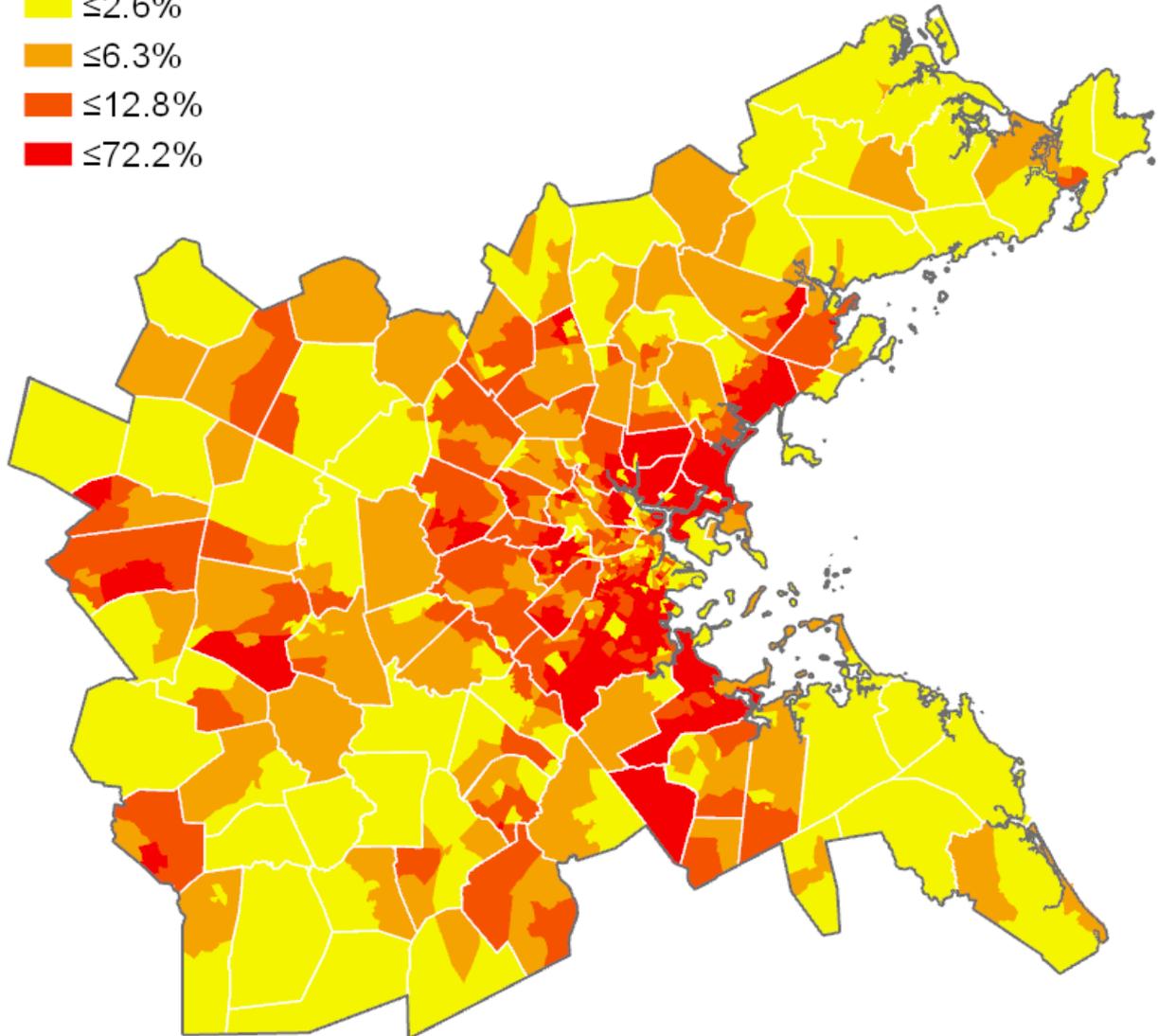
Share of People with LEP

≤2.6%

≤6.3%

≤12.8%

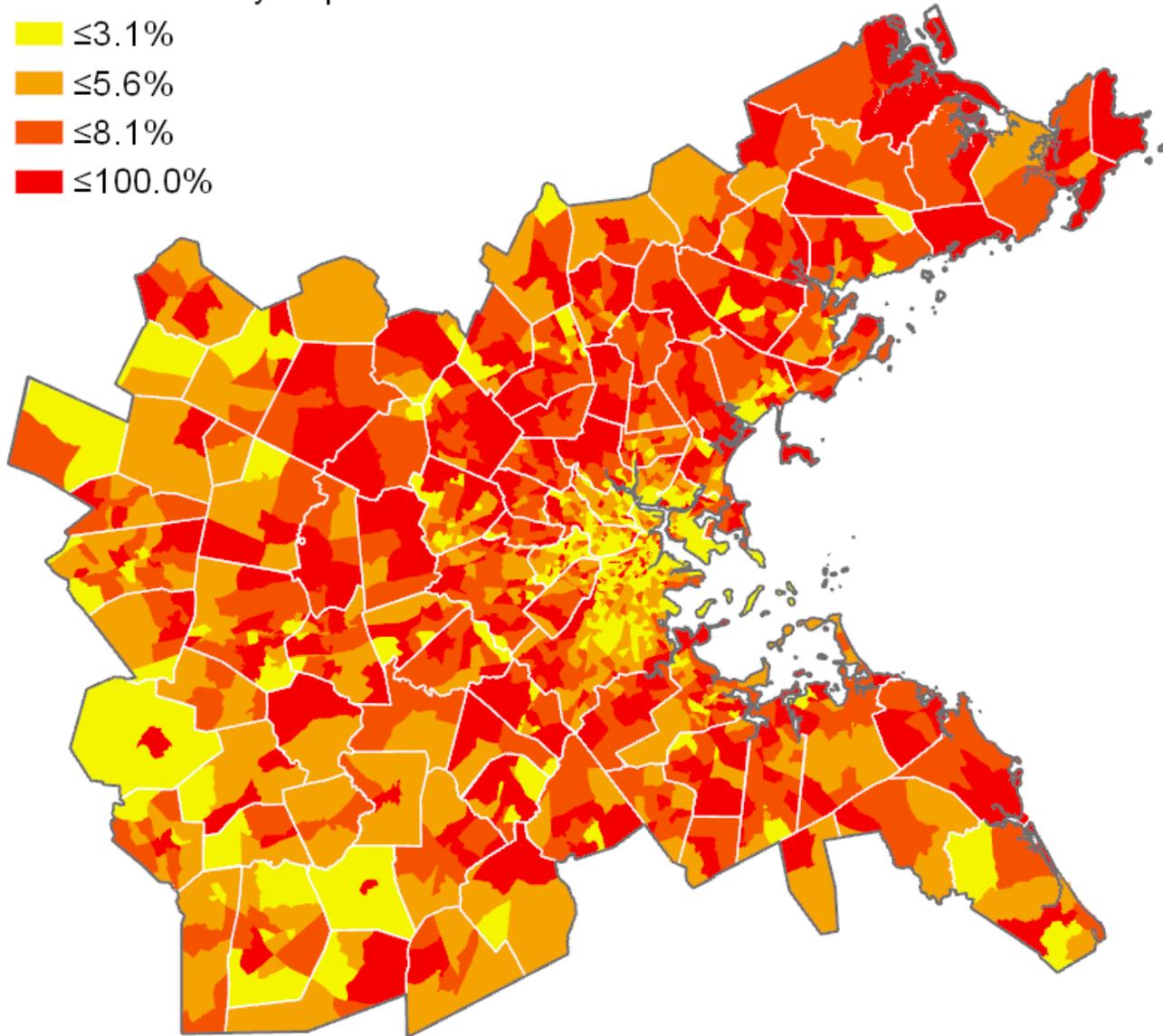
≤72.2%



# Elderly Population

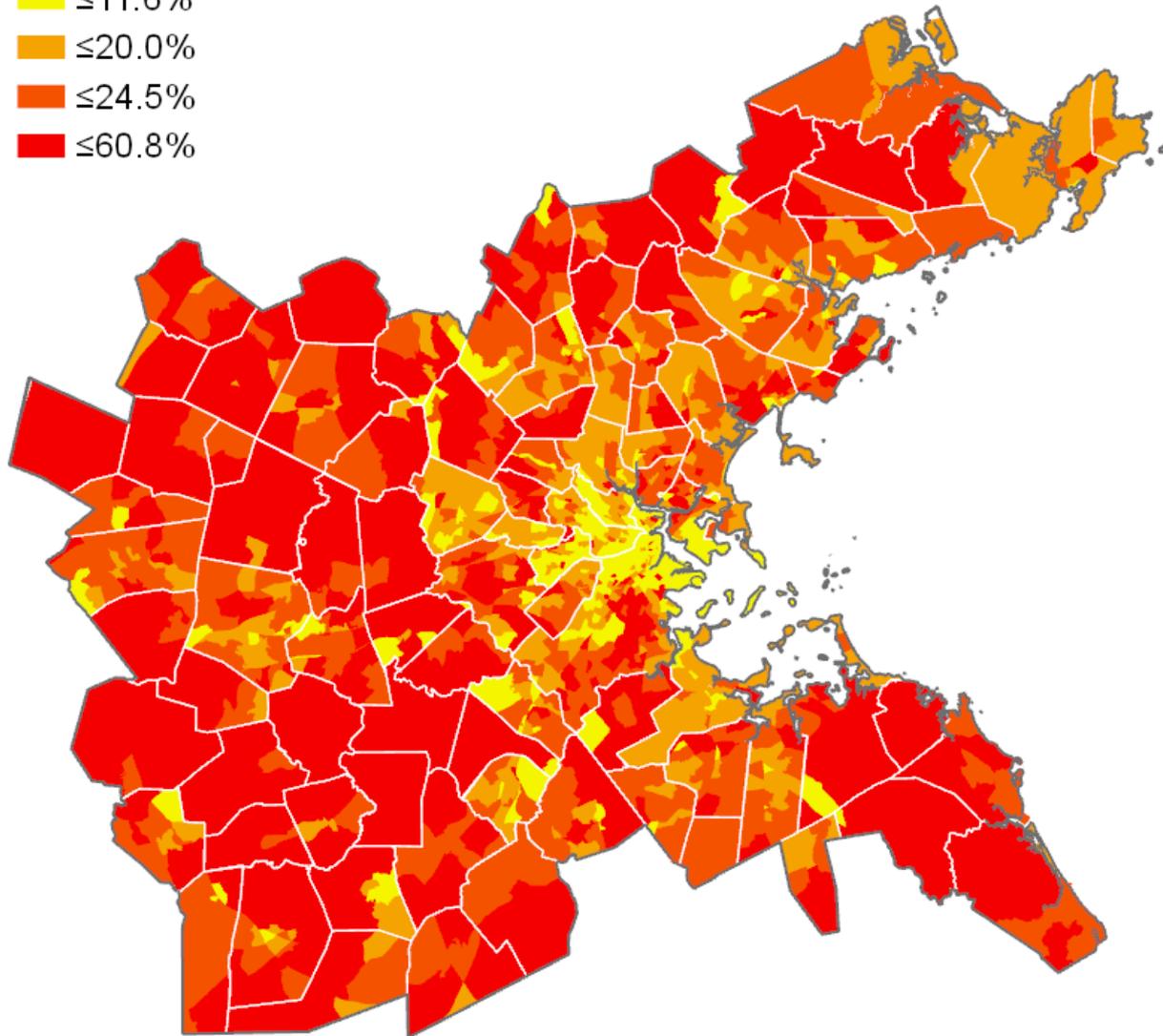
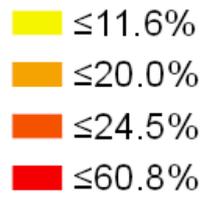
Share of Elderly Population

- ≤3.1%
- ≤5.6%
- ≤8.1%
- ≤100.0%



# Youth Population

Share of Youth Population



# People with Disabilities

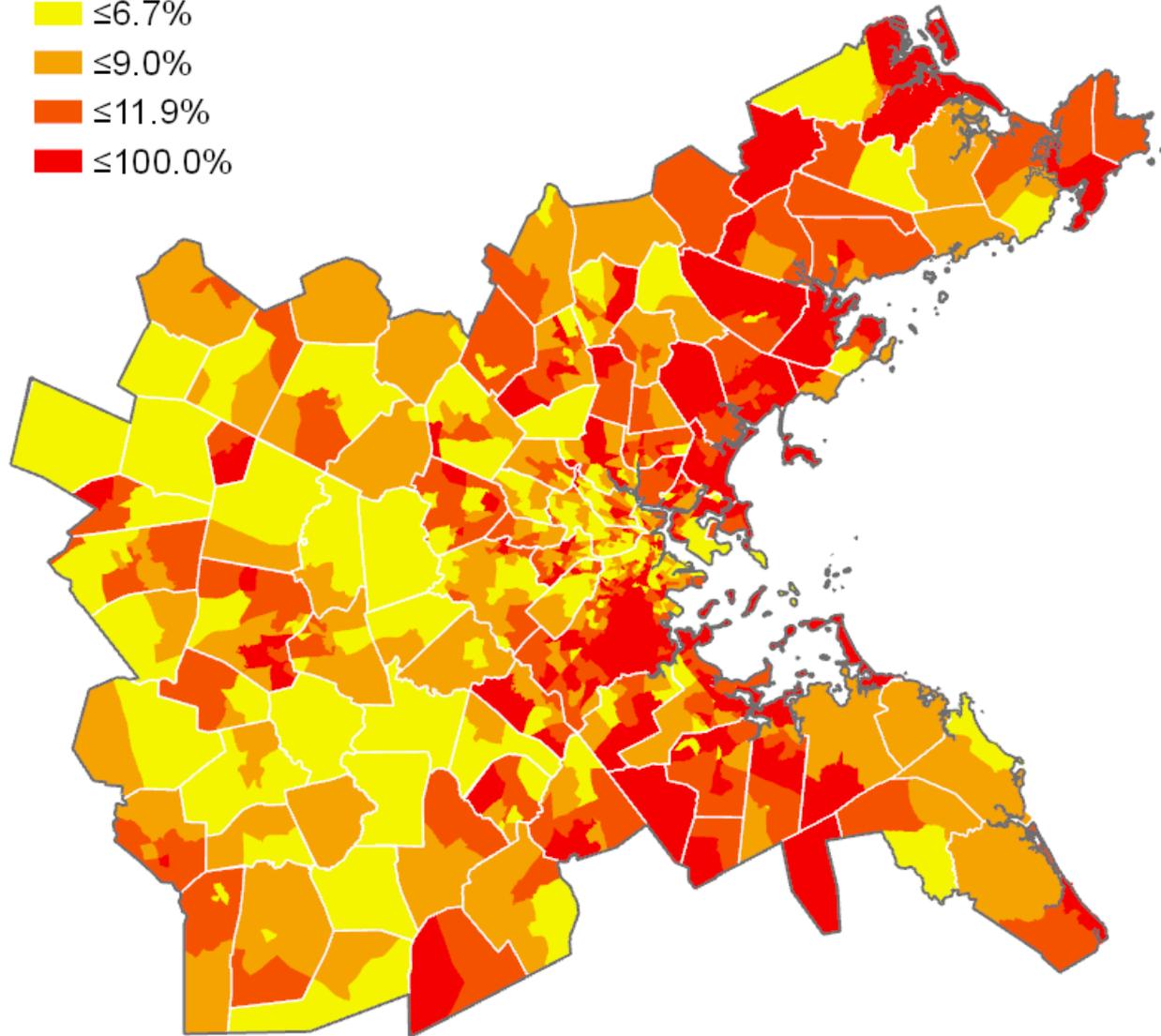
Share of People with Disabilities

≤6.7%

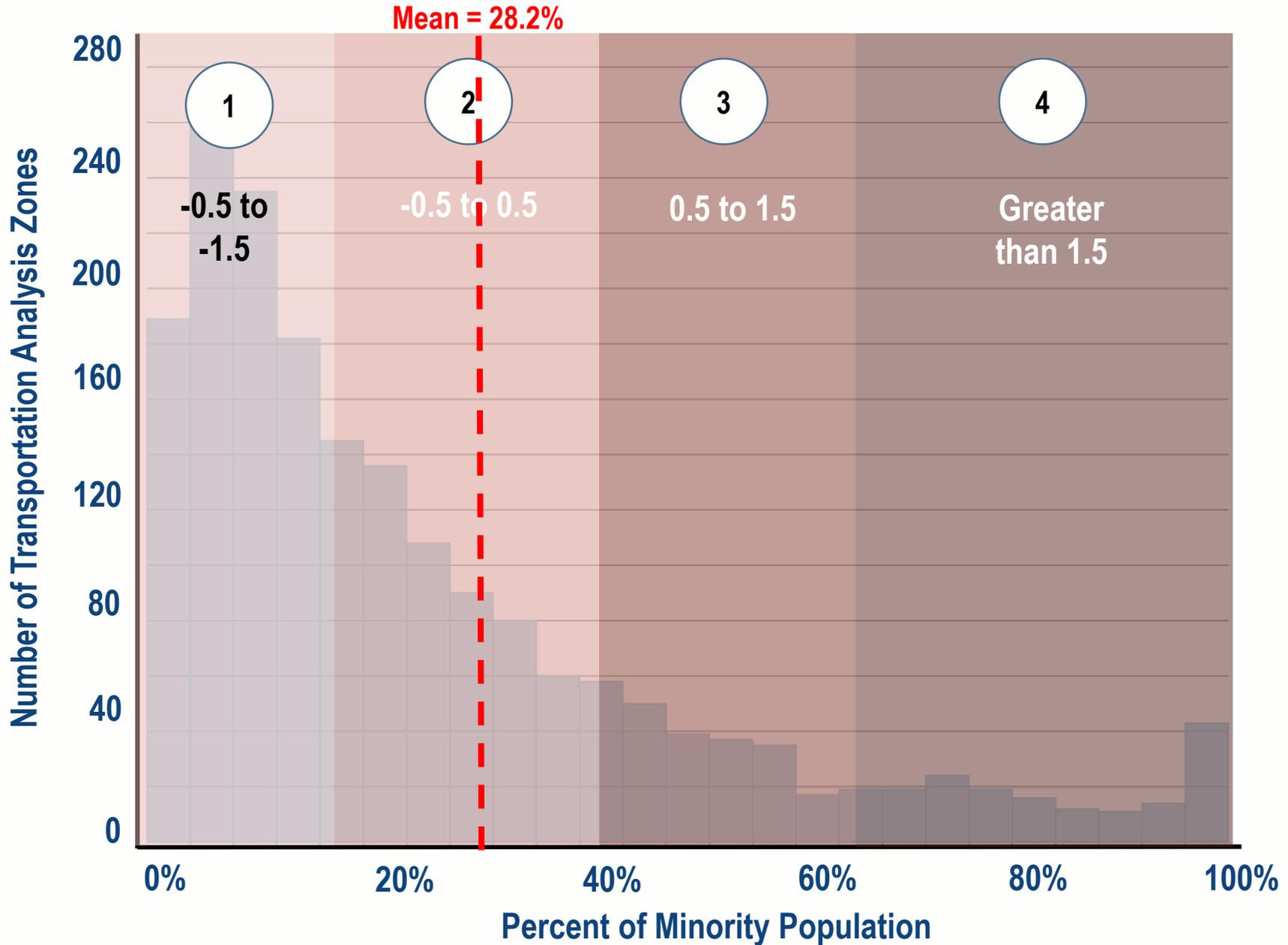
≤9.0%

≤11.9%

≤100.0%



# Step 1: Create Equity Index



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## For Each Project

Demographic Group	Base Index Points	Population Weight	Maximum Index Points
Minority population	1 through 4	x2	8
Low-income population		x1	4
People with LEP		x1	4
People with disabilities		x0.5	2
Elderly population		x0.5	2
Youth population		x0.5	2
<b>HIGHEST POSSIBLE EQUITY INDEX</b>			<b>22</b>

# Step 2

## Score Project

# Step 2: Score Project

## Identify Project's Equity Multiplier

Project's Equity Index	Project's Equity Multiplier
1 to 5	1.25
6 to 10	1.50
11 to 15	1.75
16 or greater	2.00

## Step 2: Score Project

### Distribution of Equity Multipliers (Projects programmed in federal fiscal years 2017–21)

Equity Multiplier	Number of Projects
1.25	2
1.50	26
1.75	7
2.00	1

## Step 2: Score Project

### Hypothetical Project Scores for Safety Criteria

Criteria	Base Score	Multiplier	Final Score
Crash severity value (EPDO)	2	1.5	3
Fatality/serious injury crash rate	1	None	1
Improves safety for all road users	1	None	1
Improves pedestrian safety	3	1.5	4.5
Improves bicyclist safety	2	1.5	3
	9		12.5

# Questions or Feedback?