Mobility. Environment. Community. Economy. Technology

I-710 Corridor Project EIR/EIS

metro.net

I-710
Environmental Subject Working Group
Environmental Justice Methodology

July 15, 2009

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Overview of Presentation

- Purpose & role of analysis
- Overview of demographic data and terminology
- Overview of planned methodology
  - Quantitative
  - Qualitative
- Summary

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Environmental Justice Analysis

Purpose:

- To identify *disproportionate* adverse impacts on *minority* and *low-income* populations
- To add to the pool of information available to the public and decision makers

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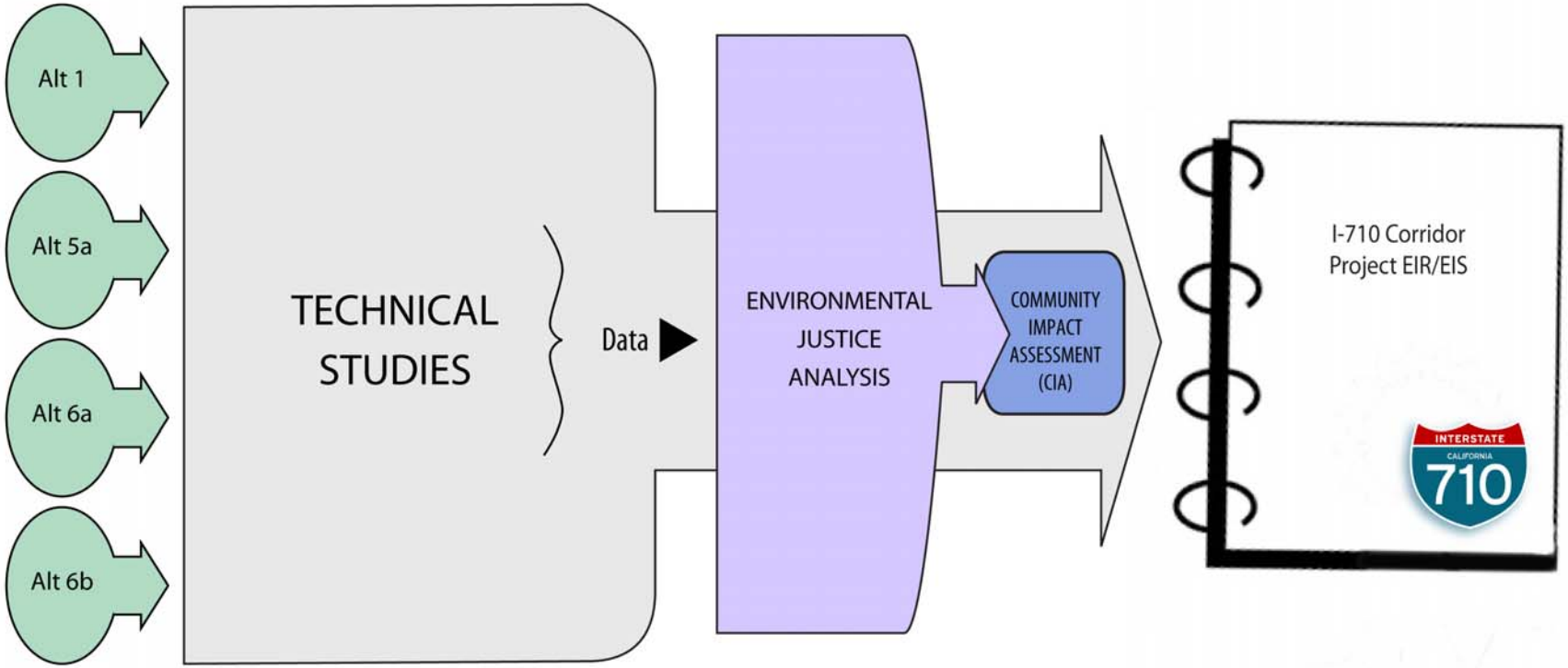
Role of Environmental Justice Analysis



EJ Requirements

Federal Executive Order 12898 (1994)

U.S. DOT Order (1997)

Federal Highway Administration Order (1998)

- **Methodology developed based on this guidance**
- **More quantitative approach than typical**

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Terminology

- *Disproportionate* = higher than expected given the prevalence in the population
- *Minority* = non-white
- *Low-income* =
  - Up to 200% of federal poverty threshold
  - In lower income quintiles
- *Quintile* = 1/5 of the household income distribution

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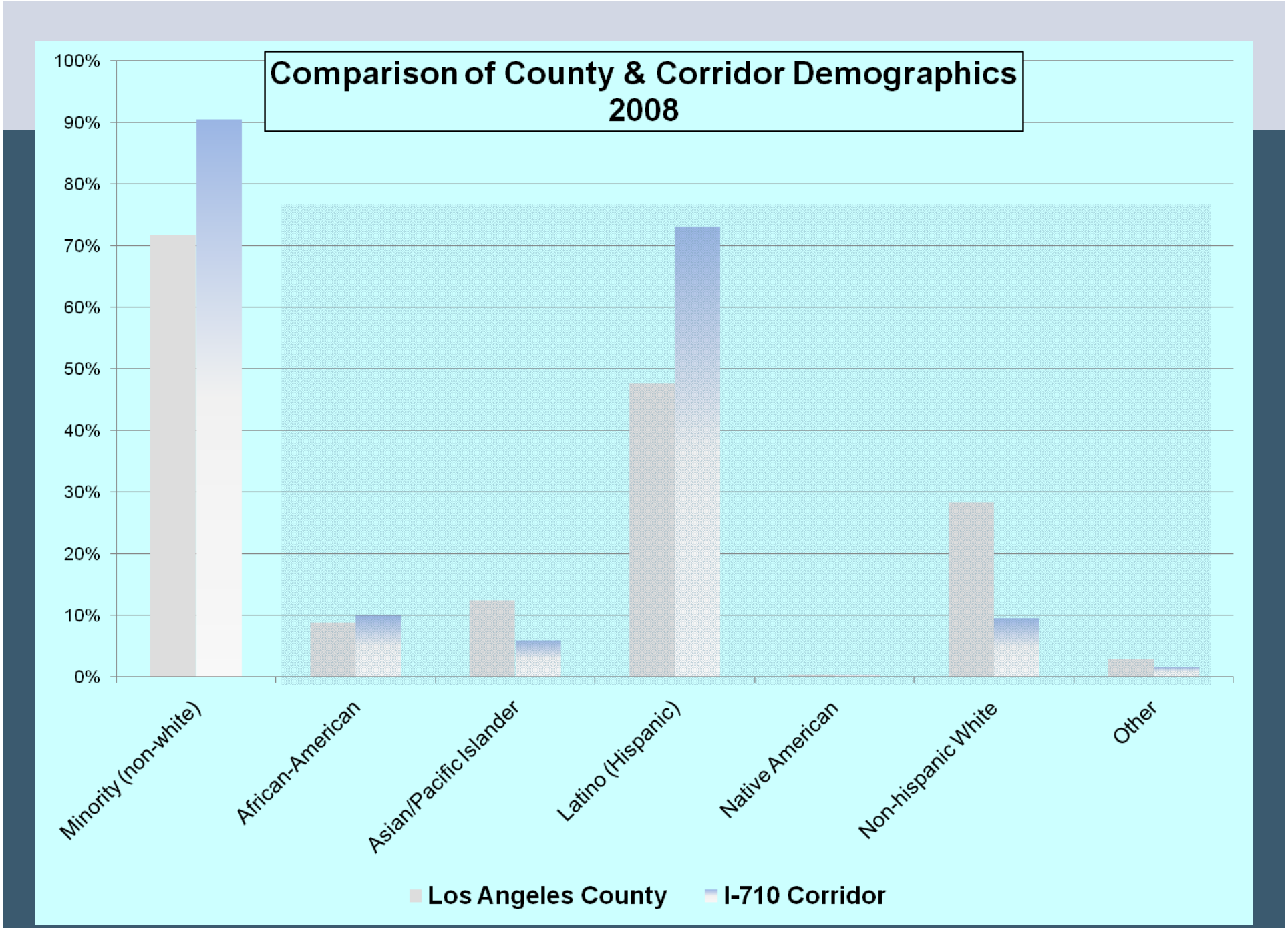
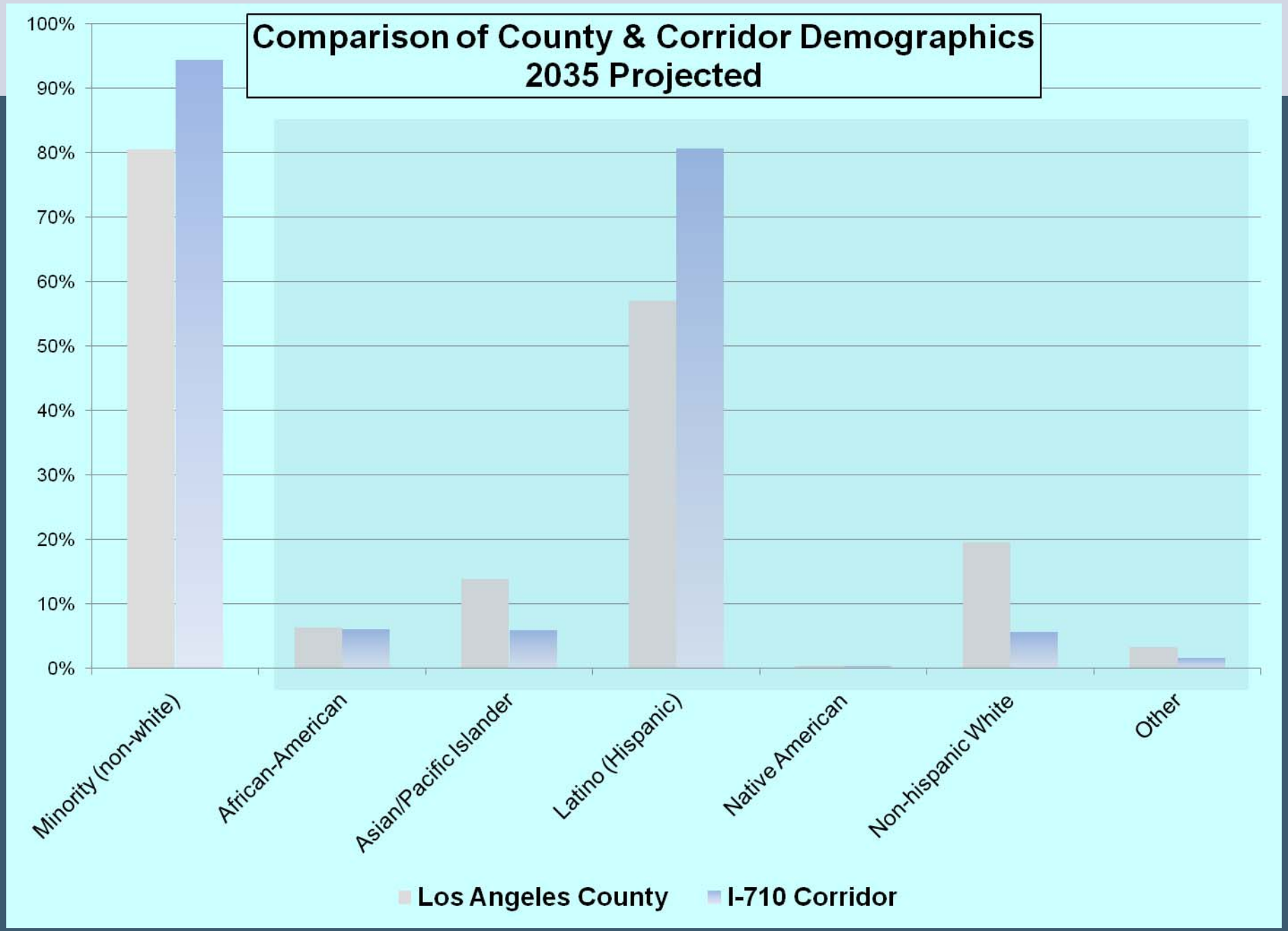

Comparison of County & Corridor Demographics
2008
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
Minority (non-white)
African-American
Asian/Pacific Islander
Latino (Hispanic)
Native American
Non-hispanic White
Other
Los Angeles County
I-710 Corridor


Comparison of County & Corridor Demographics
2035 Projected
100%
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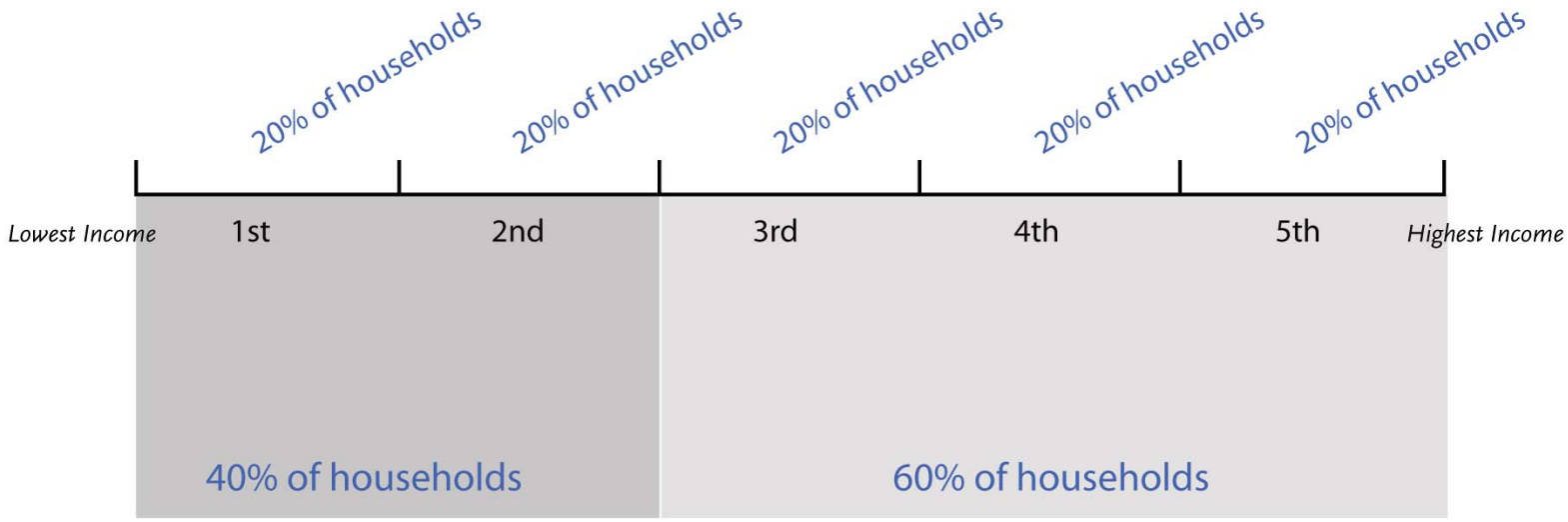
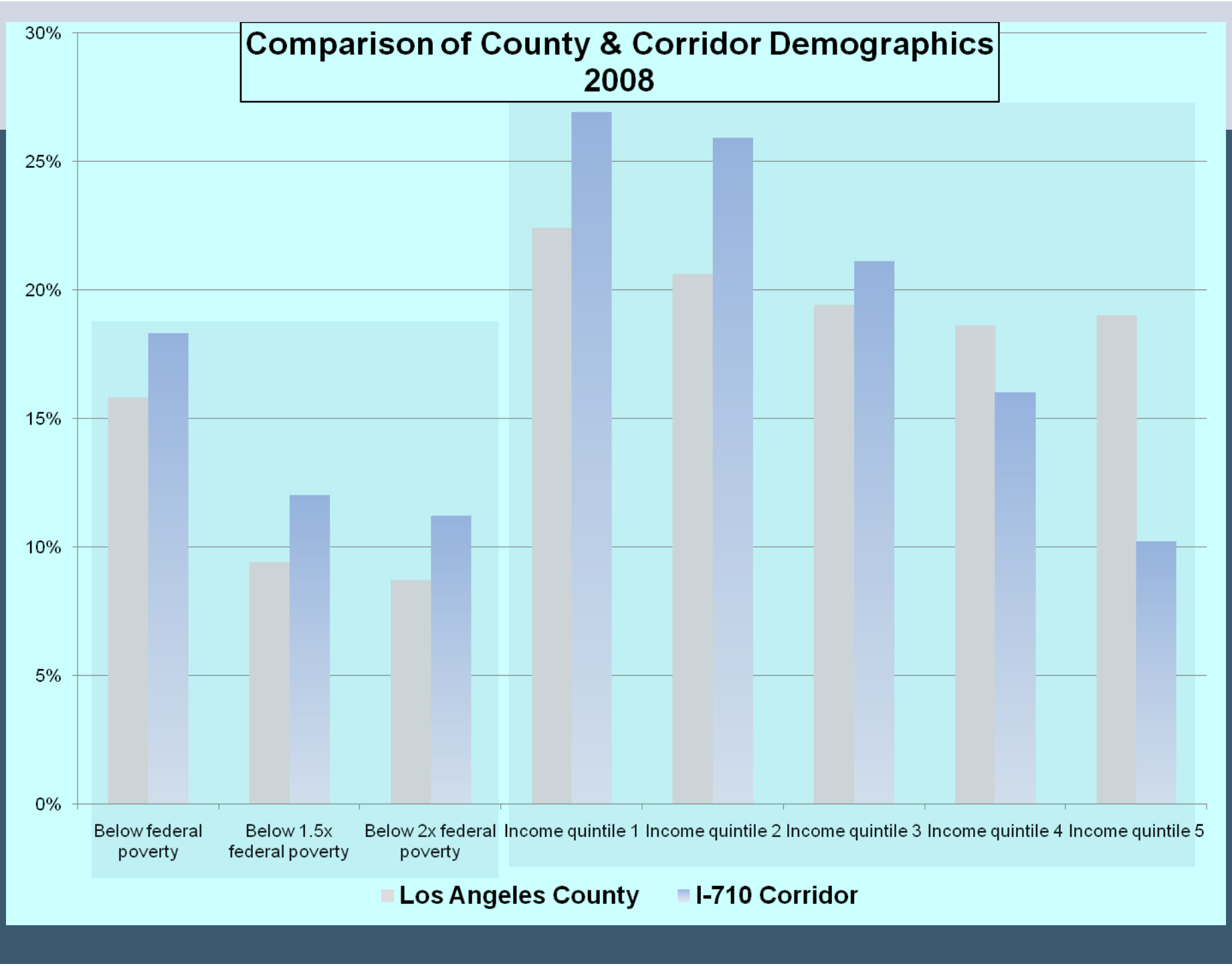
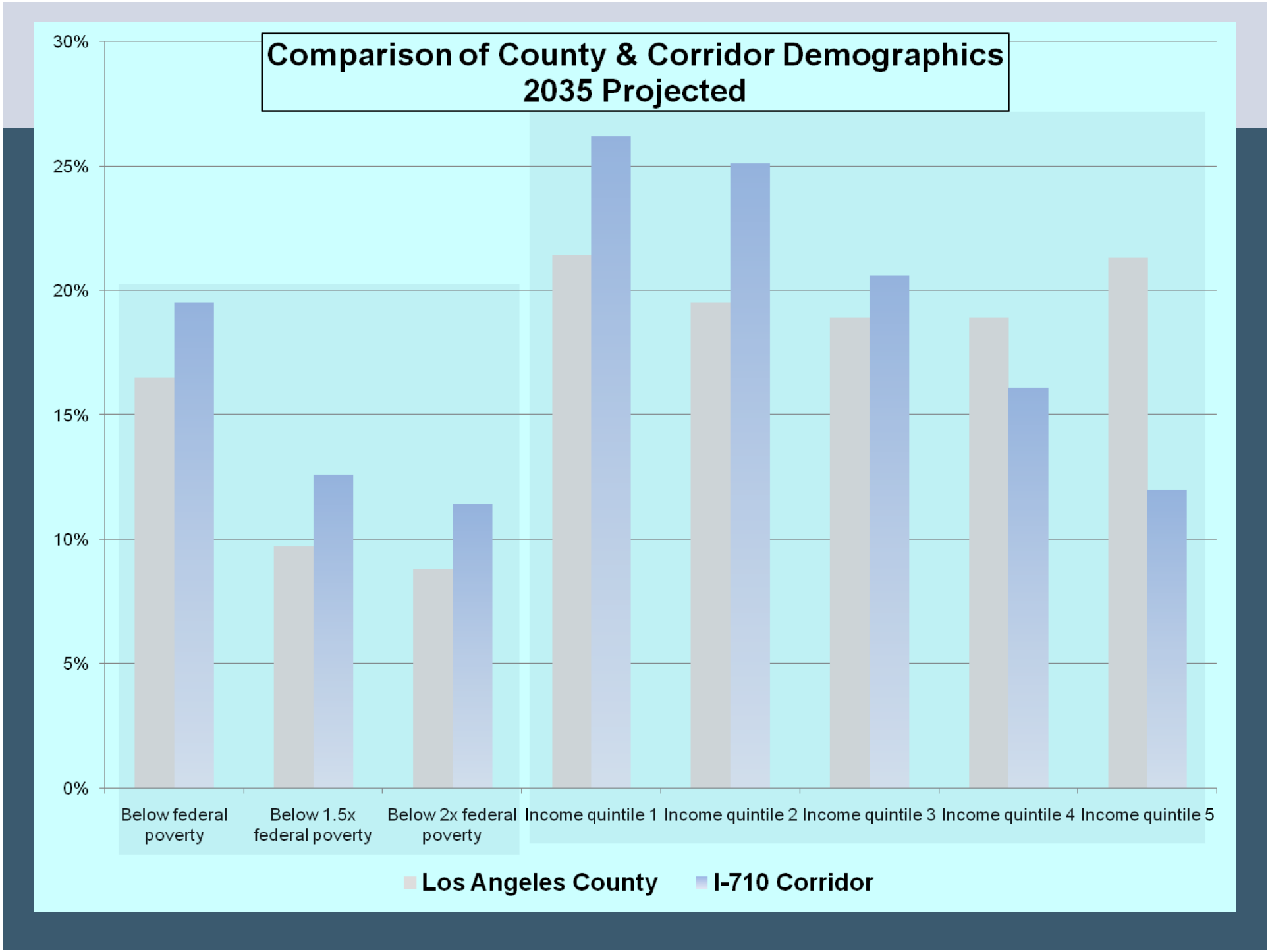
Income Quintiles

In the proposed environmental justice quantitative analysis approach, the study population is divided into two groups:

- The 2 lowest income quintiles (40% of total households)
- The 3 highest income quintiles (60% of total households)




Comparison of County & Corridor Demographics
2008
30%
25%
20%
15%
10%
5%
0%
Below federal poverty
Below 1.5x federal poverty
Below 2x federal poverty
Income quintile 1
Income quintile 2
Income quintile 3
Income quintile 4
Income quintile 5
Los Angeles County
I-710 Corridor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Los Angeles County
I-710 Corridor

Scope of EJ Analysis

Planned Quantitative Analyses

- Air quality/health risk assessment
- Economic impacts/benefits
- Noise
- Traffic impacts (also qualitative)

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Scope of EJ Analysis (cont'd)

Planned Qualitative Analyses (GIS-based)

- Community aesthetic enhancement
- Cultural resources
- Emergency/community services
- Hazardous materials/waste
- Relocation impacts
- Safety
- Visual impacts
- Water quality/stormwater runoff

Air Quality Assessment

- Air Quality
  - Emissions changes (better off/worse off)
  - Concentration changes (better off/worse off)
- Health risk changes (better off/worse off)
- Disproportion:
  - Lower 2 quintiles (should be 40%) vs. higher 3 quintiles (should be 60%)
  - Non-white (should be 80.5%) vs. white (should be 19.5%) – LA County proportion

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Economic Impacts/Benefits

- Analysis will identify city
  - Sales tax revenue changes
  - Property tax revenue changes
  - Job opportunity changes
- Compare with city income levels (percentage residents in 2 lowest quintiles)

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Noise

1. Calculate net noise exposure for all demographic groups
2. Map noise increase areas with demographic data

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Traffic Congestion

1. Calculate travel time savings for all demographic groups
2. Map transit service enhancements with demographic data
3. Map intersection level-of-service results with demographic data
4. Map freeway access and arterial parking changes with demographic data

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Qualitative (GIS-based) Analyses

- Map the following with demographic data:
  - Locations of planned aesthetic enhancements
  - Locations of affected cultural resources
  - Locations of affected emergency/community services
  - Locations of hazardous material or hazardous waste sites
  - Planned business/residence relocation areas
  - Arterial accident/incident rates
  - Locations of visual impacts
  - Locations of stormwater management structures

Summary

- Detailed demographic data for county and study corridor (2008 and 2035)
- County population used as reference
- Impacts assessed for all groups
- Combination of quantitative and qualitative analyses (incl. GIS)

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