



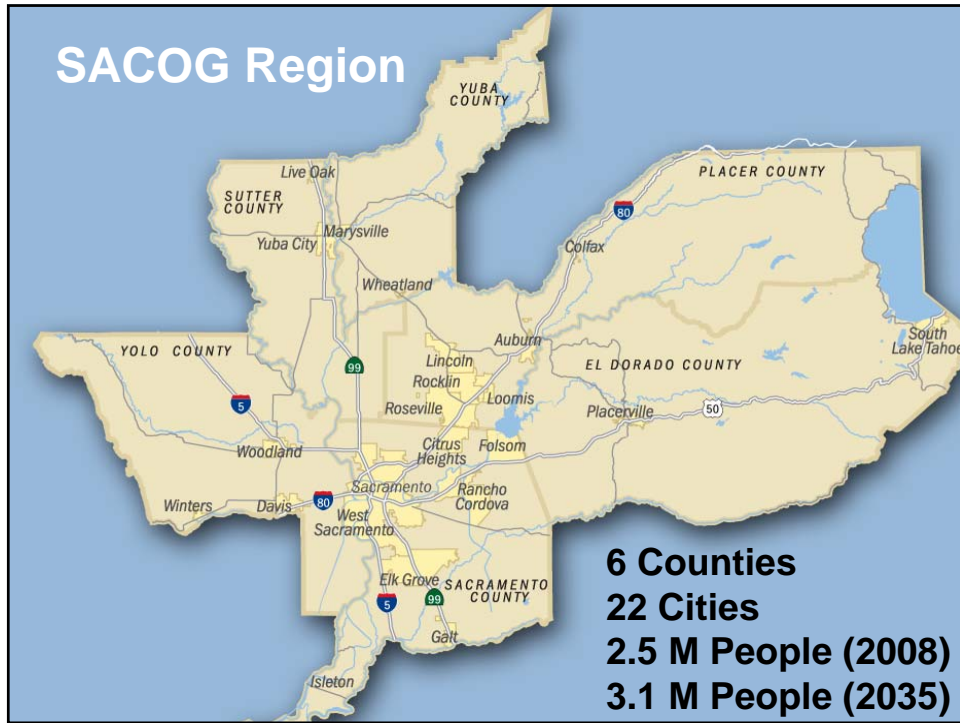
Institute of Urban and Regional Development (IURD)  
**TRANSIT & CITIES CONFERENCE**  
UC Berkeley  
March 20-21, 2014  
Plenary Session 5: Modeling and Visualizing Urban Features

# A Performance-Based Transportation and Land Use Plan for the Sacramento Region



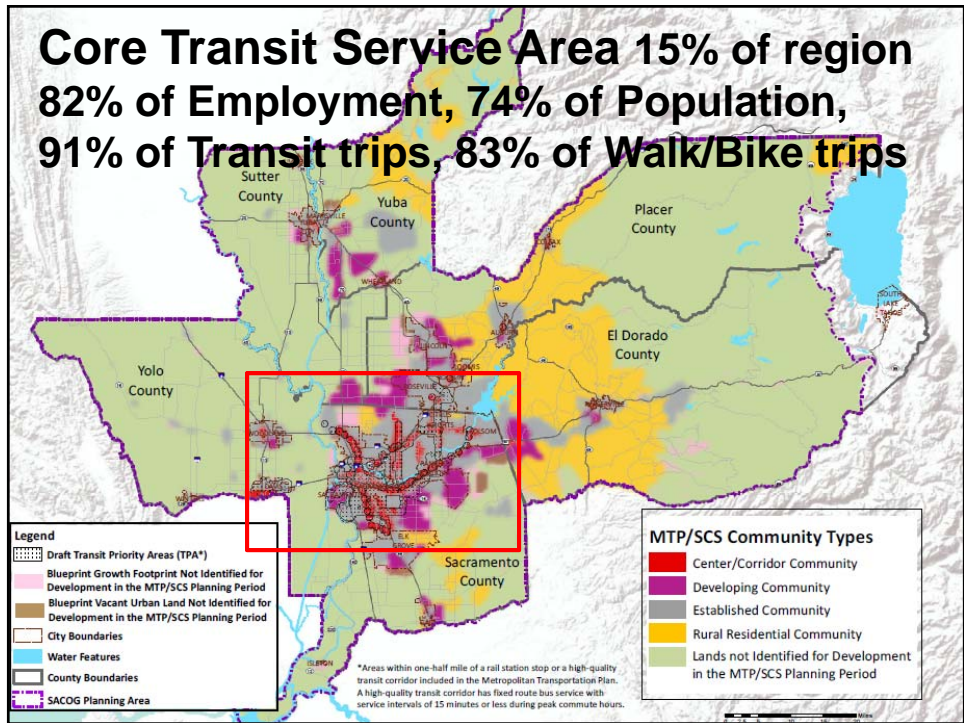
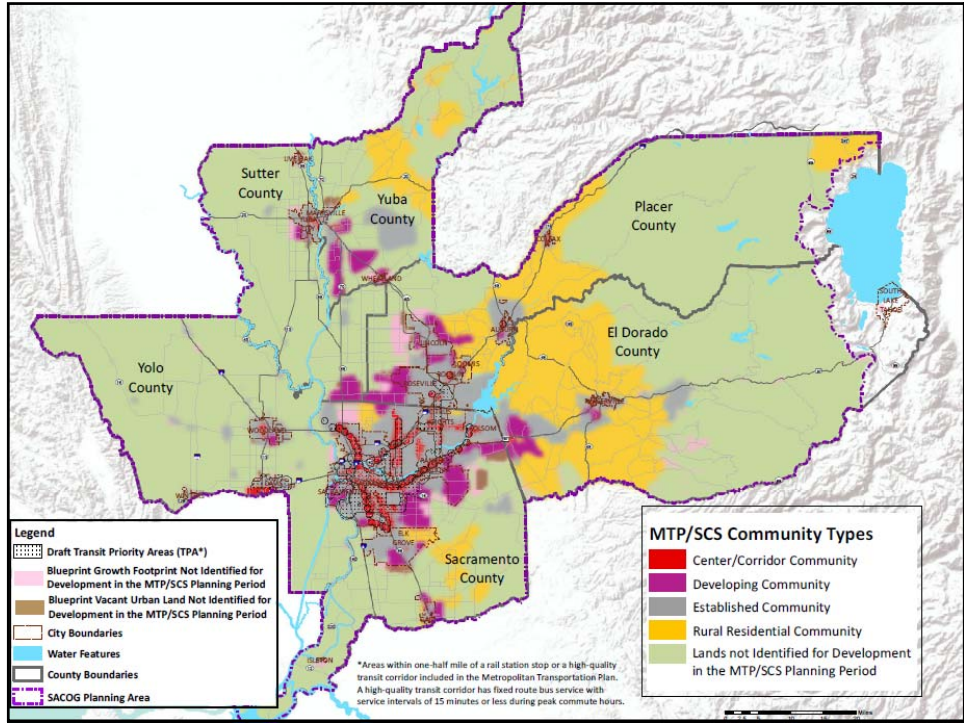
**Transit & Cities Conference**  
March 21, 2014

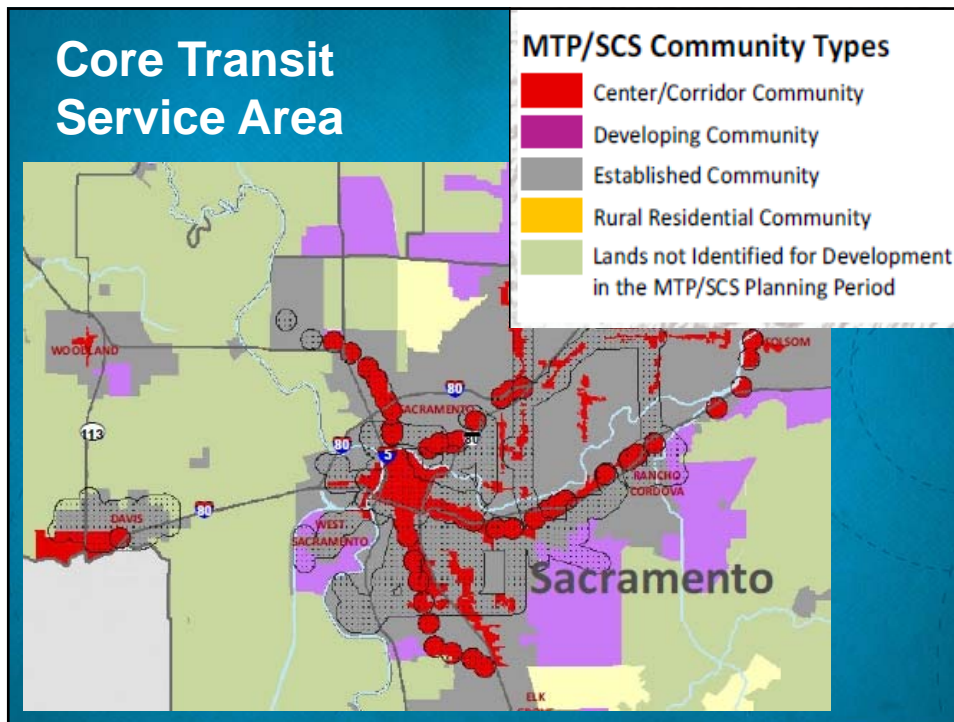
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## MTP/SCS for 2035 Highlights

- Do more with less
- Per capita VMT, GHG, and heavy congestion declines
- Sweet spot for transit
  - (Service levels and Housing & Job Density)
- Rural Urban Connections Strategy
- Research commitments to further improve future plans





- ## Models and Metrics
- Travel Demand Model
    - Microsimulation of personal travel using parcel level data on household demographics, transportation access, employment
    - Provides a quantum jump in analytical data for performance metrics
  - I-PLACE<sup>3</sup>S Land Use Scenario Software
    - A platform for range of indicators
    - The broad and on-going engagement of the stakeholders in a scenario process provides the economic viability assessment

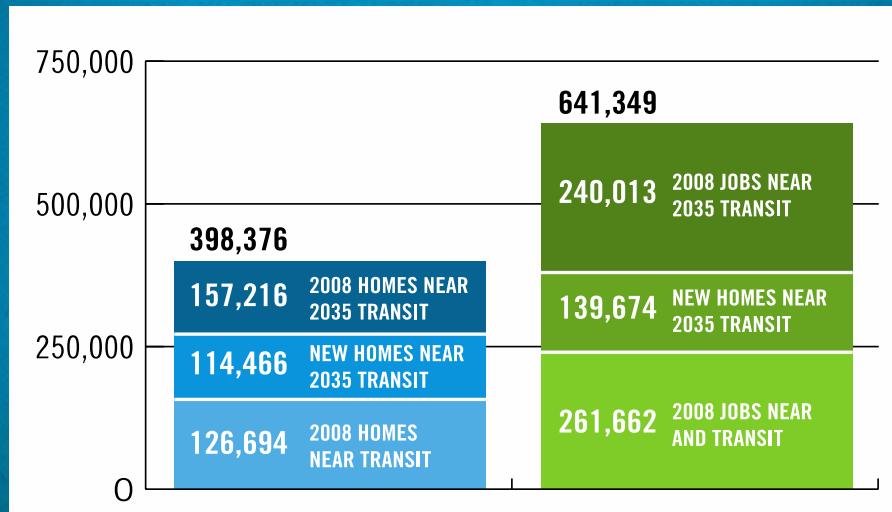
## I-PLACE<sup>3</sup>S Supports Community Engagement, Effective Dialogue



### What do we get from new models and analytics for state/regional/local policy decisions?

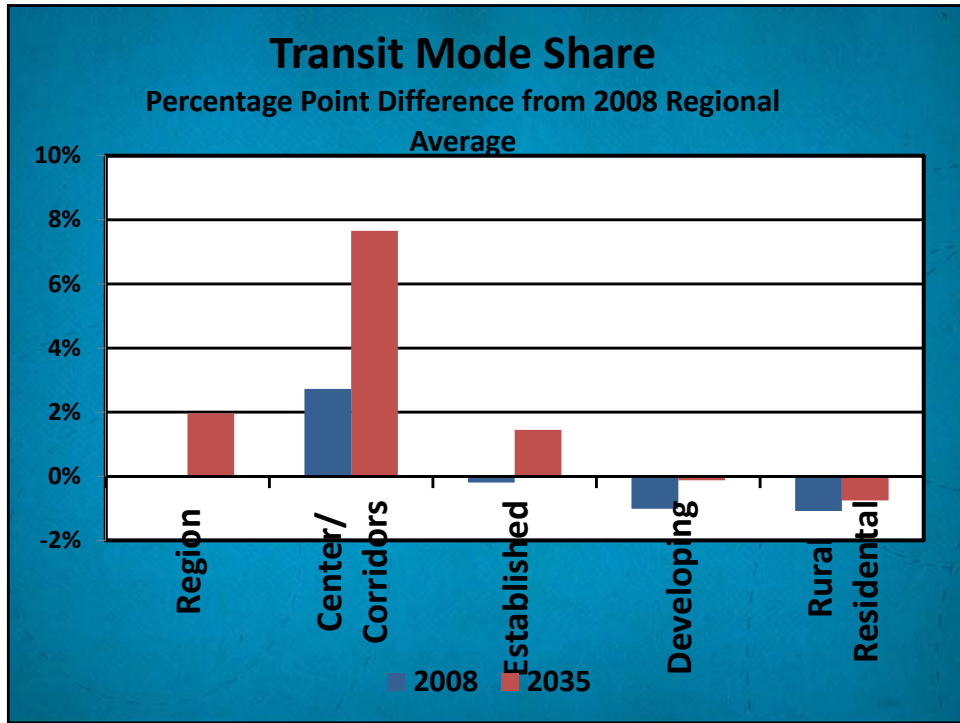
- The quality of the answers may finally be up to the quality of the questions.
  - Transportation and land use policy questions at varying geographic scales.
  - Impact and cost effectiveness for packages of investments.

## Share of New Homes and Jobs Near High-Frequency Transit

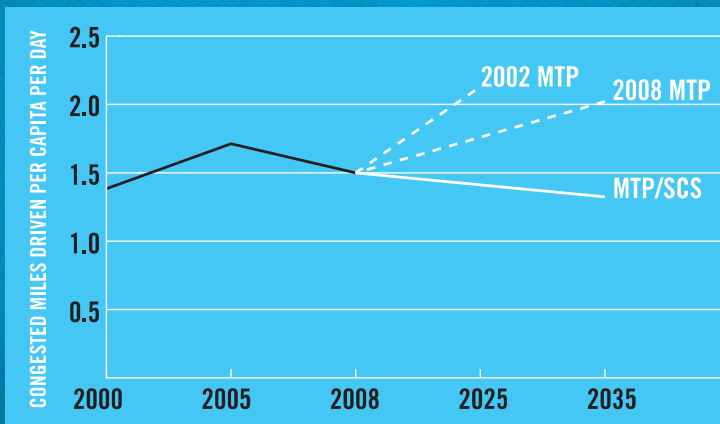


## Transit-Land Use Benefits

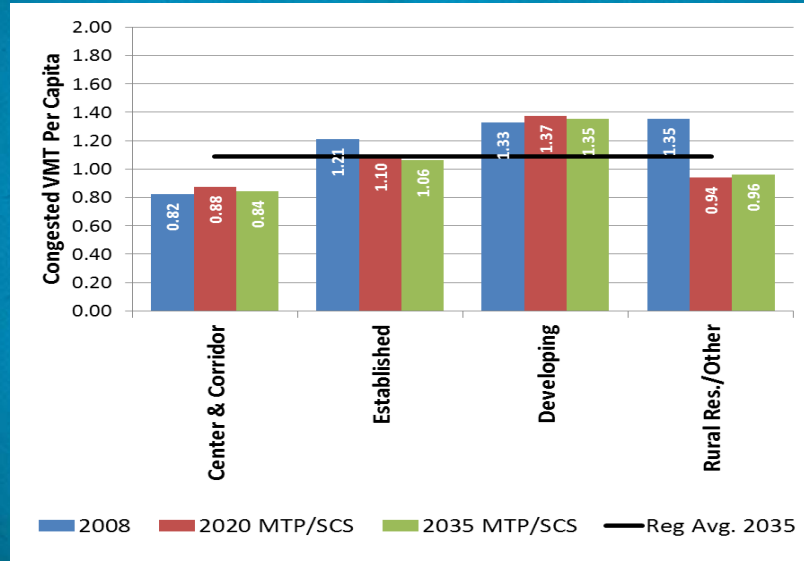
- For every 1% increase in work transit mode share, 5% decrease in peak period congestion
- Transit service productivity gains
  - +96% in service hours
  - +332% in boardings
- Farebox revenue to cover operating costs increased from 24% (2009) to 38% (2035)



**An absolute reduction in the amount of heavy congestion typical residents will experience in their daily lives.**



## Congested Vehicle Miles Traveled by Community Type in SACOG Region



Thank You.



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