

# Issaquah Chamber of Commerce

## National & Regional Trends in Transportation

by **Jim Horn**

Chairman, Eastside Transportation Association

# Basics

Highways of Statewide Significance (HSS) are the backbone of our transportation system

WSDOT owns, designs, builds, operates & maintains our HSS

Highways are corridors, transit is a mode of travel – they are not in conflict.

# The Questions

Why do Americans travel?

How do Americans travel?

How does density affect travel?

How is transit performing?

Will our regional plan reduce congestion?

What's happening to air quality?

Why is there a focus on the work trip?

How important is working at home?

In other words, know your customer

# Data Sources

USDOT, National Household Travel Survey, 2001  
(a 22,000 household sample)

Census Bureau, 2000 Census

FHWA, Highway Statistics

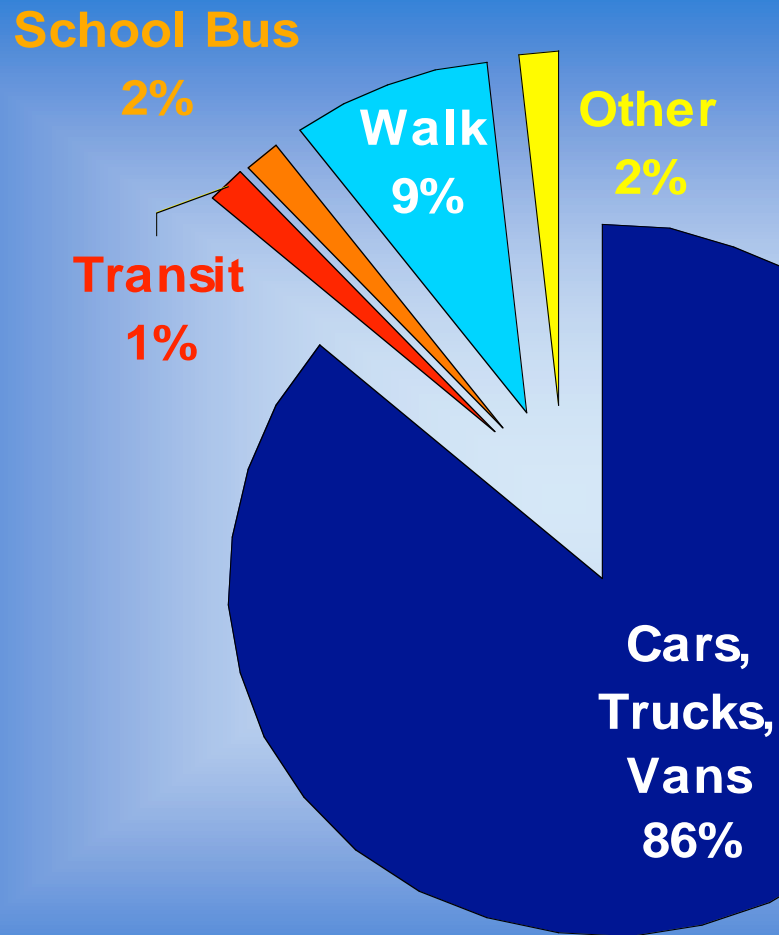
PSRC, Destination 2030 (adopted Metropolitan  
Transportation Plan), 2004 Review

National Transit Database

EPA

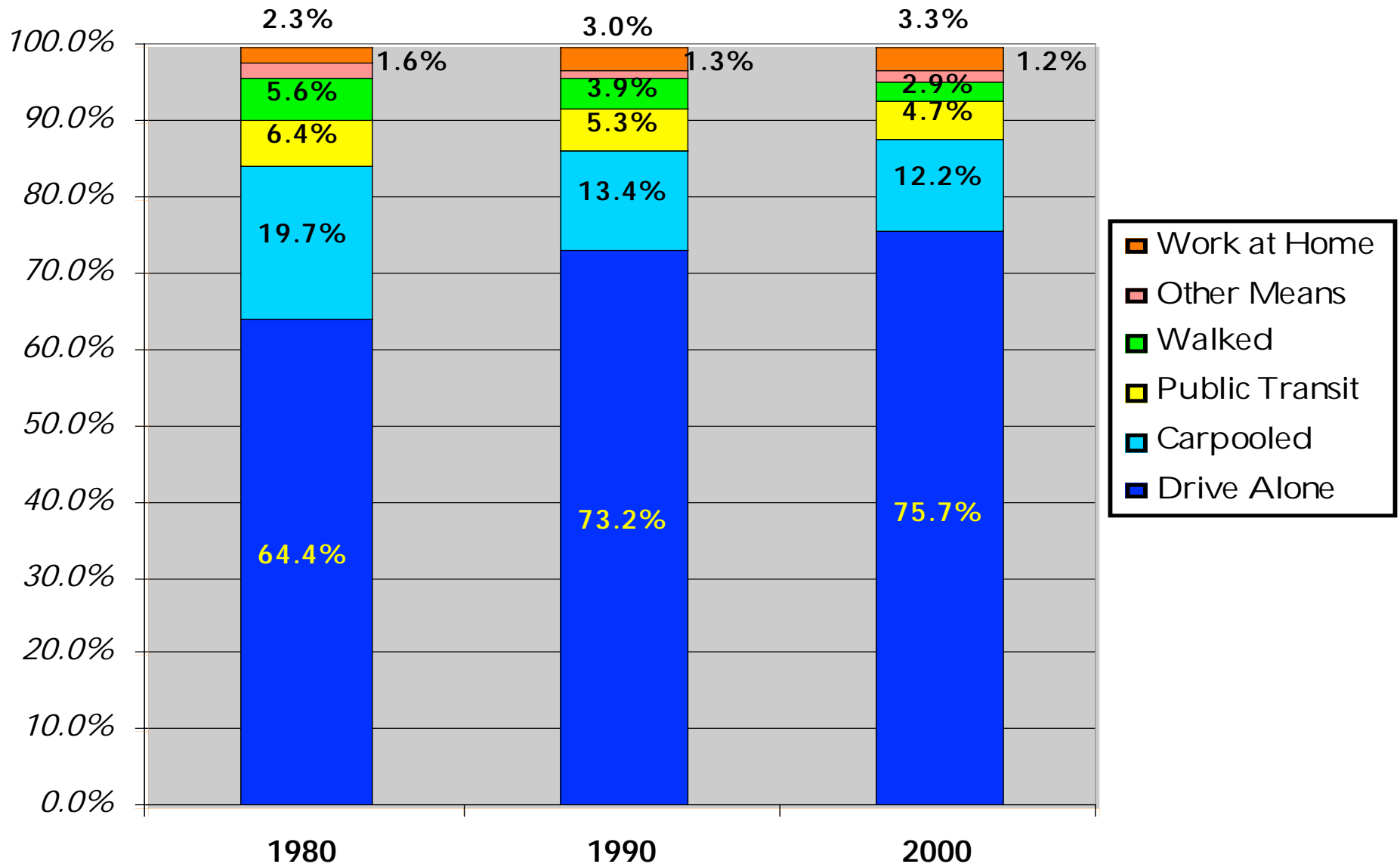
APTA (American Public Transit Association)

# U.S. AVERAGE MODE OF



Source: NHTS 2001

# Trend of Commute Mode



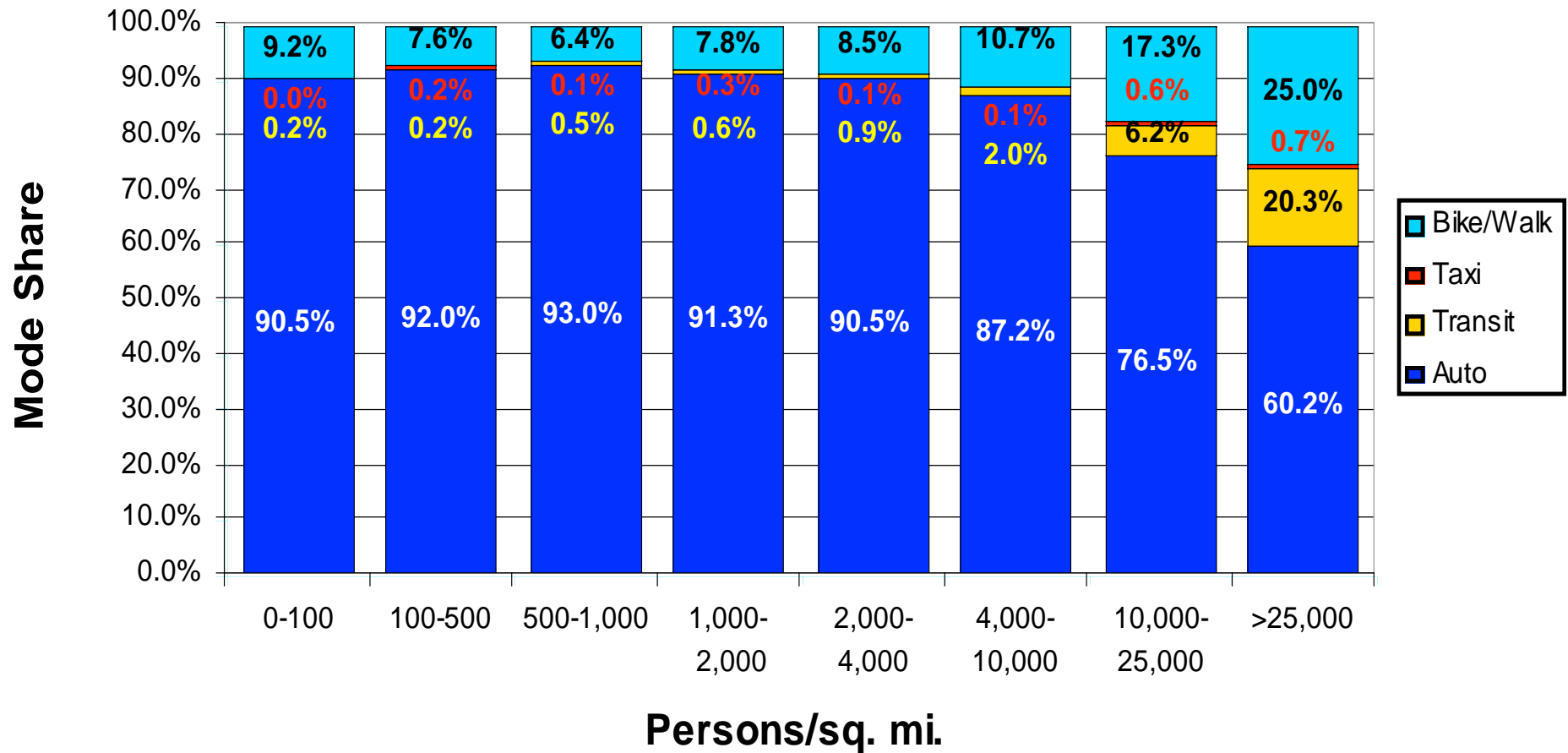
# U.S. AVERAGE TRIP PURPOSE



Source: NHTS 2001

# Mode Share vs. Density

(National, Urban, without New York area)

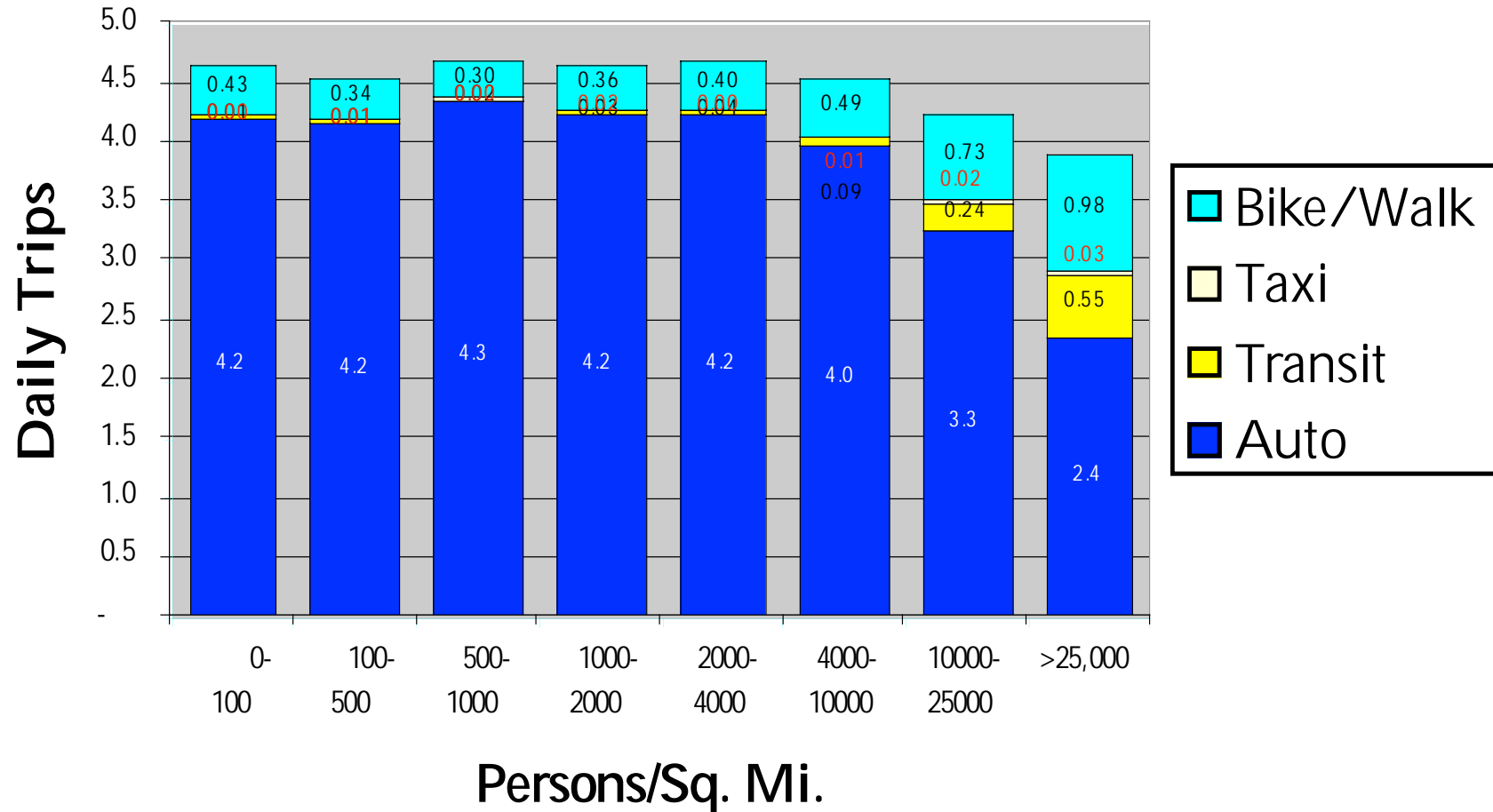


#2103 05 Aug 04 H/2103/Data/National/Mode Share by Density.xls - National Urban w o NY



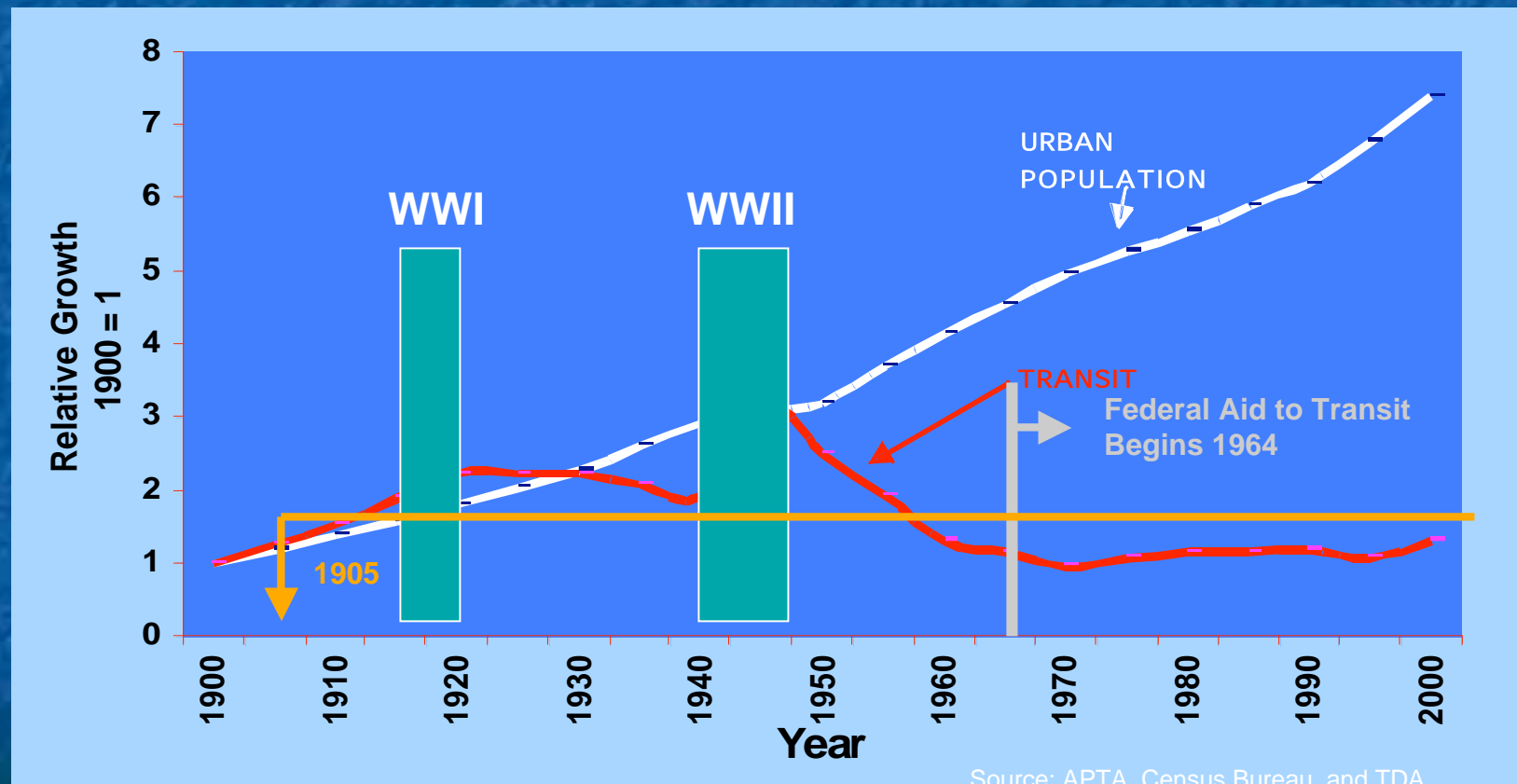
# DAILY TRIPS/PERSON

## (National, Urban, w/o New York area)

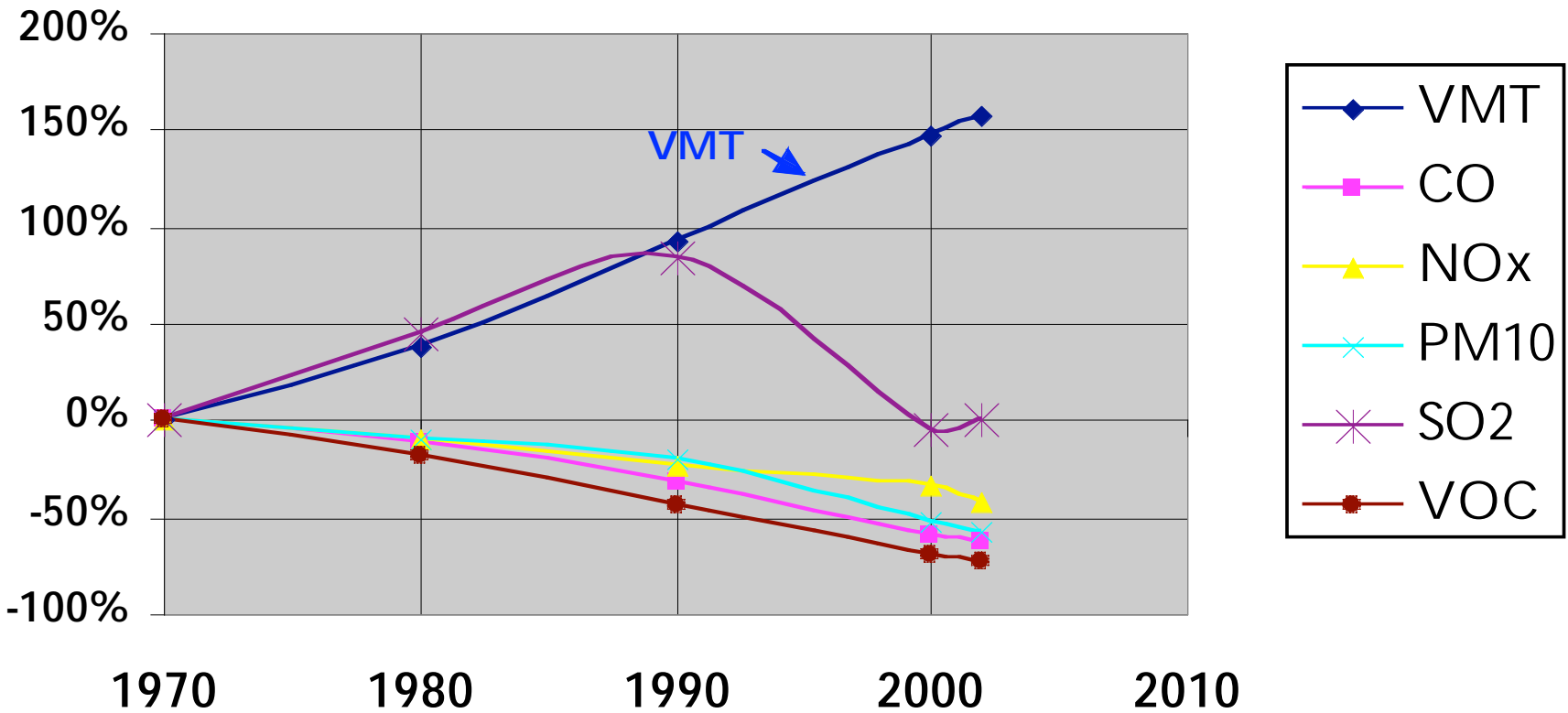


2103/data/National/N urv wo NY/

# U.S. Transit Ridership Compared to Urban Population



# GROWTH COMPARISON: Vehicle-Miles Traveled (VMT) & Emissions (U.S.)



Data Sources: EPA "Trends", FHWA

# REGIONAL

# Transit's Successes



Elderly and  
Handicapped

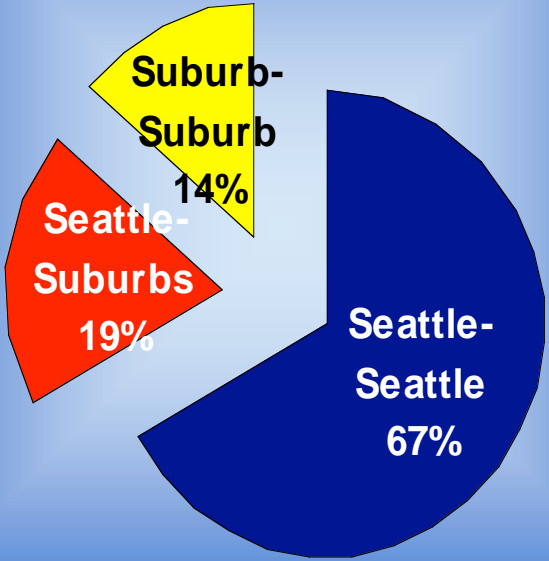
Downtown  
Seattle

University  
District

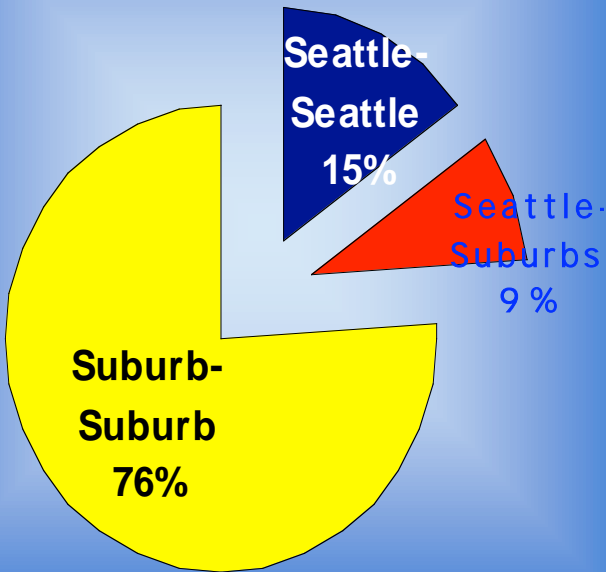
Downtown Bellevue

# City of Seattle Dominates Transit Trips

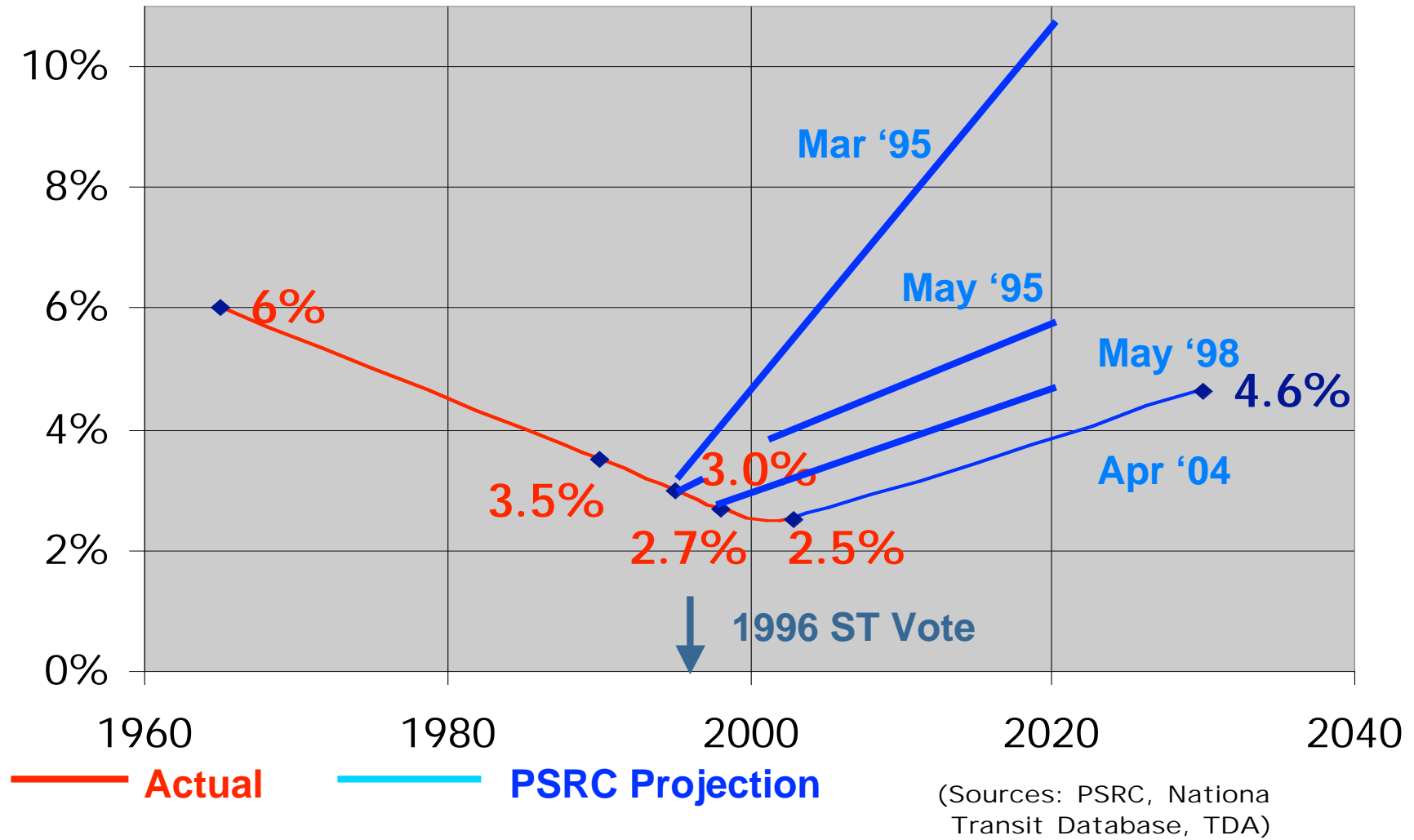
2020 Transit Trips



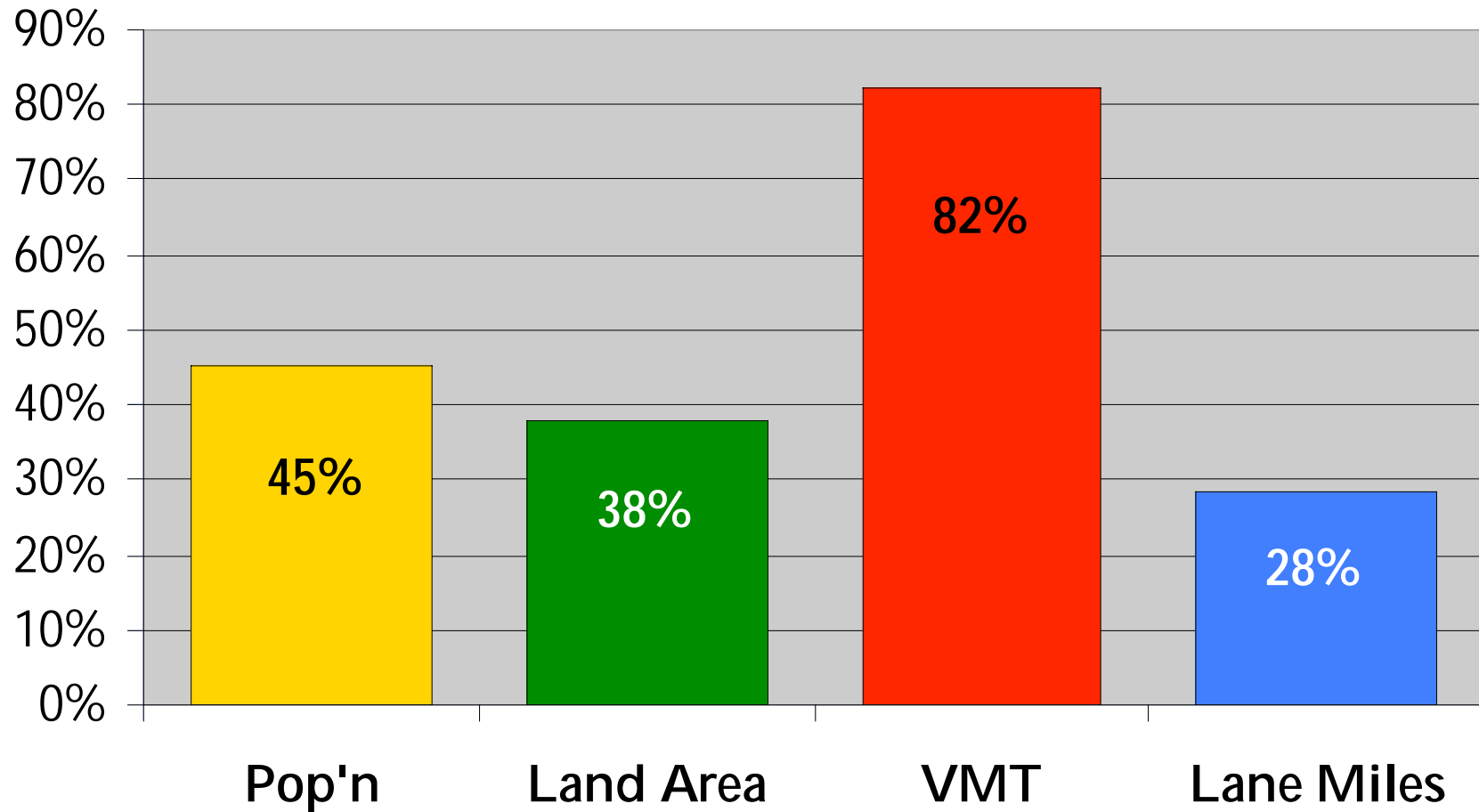
2020 All Person-Trips



# Percent of Daily Person-Trips by Transit (Central Puget Sound)

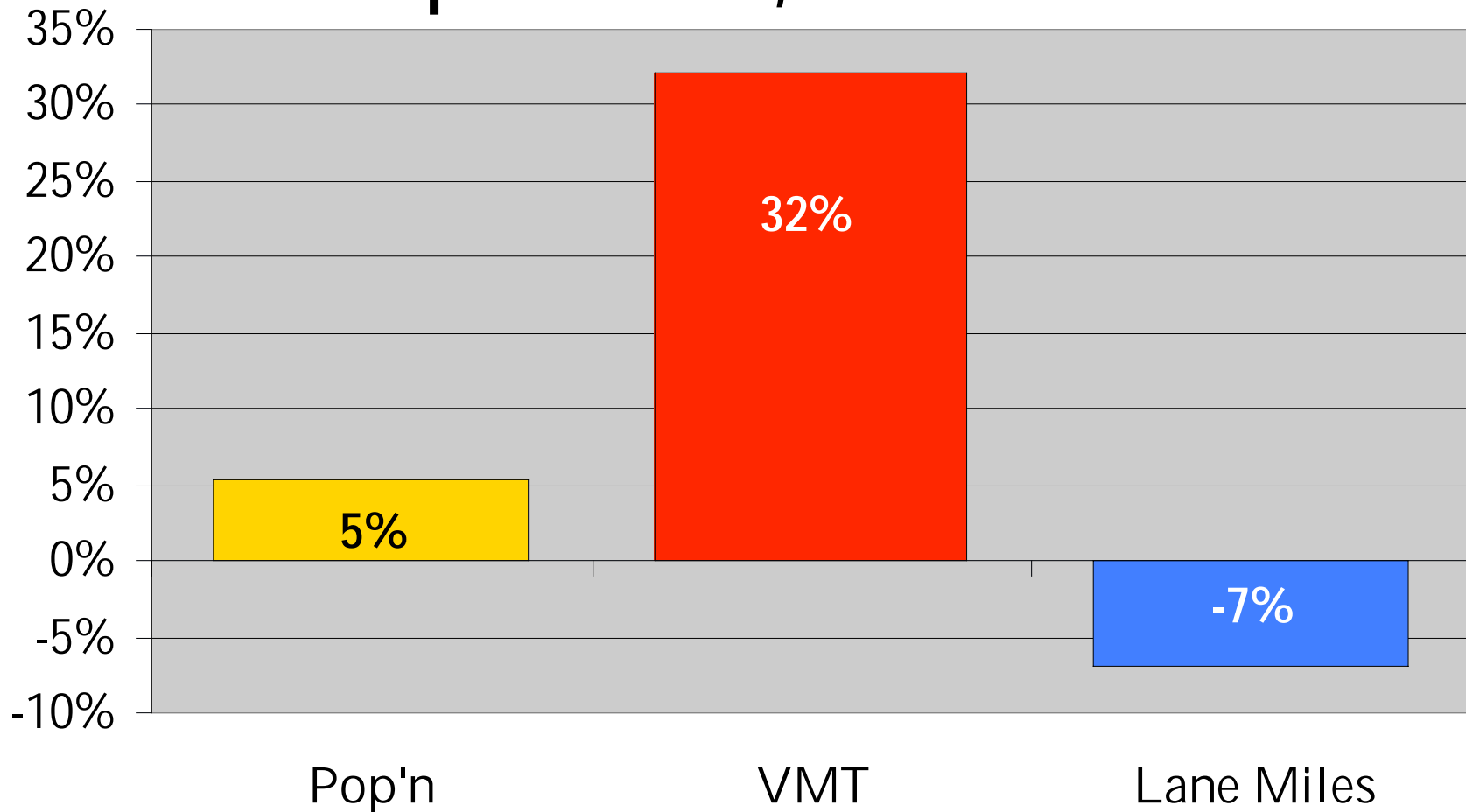


# Seattle Urbanized Area Growth, 1982-2002

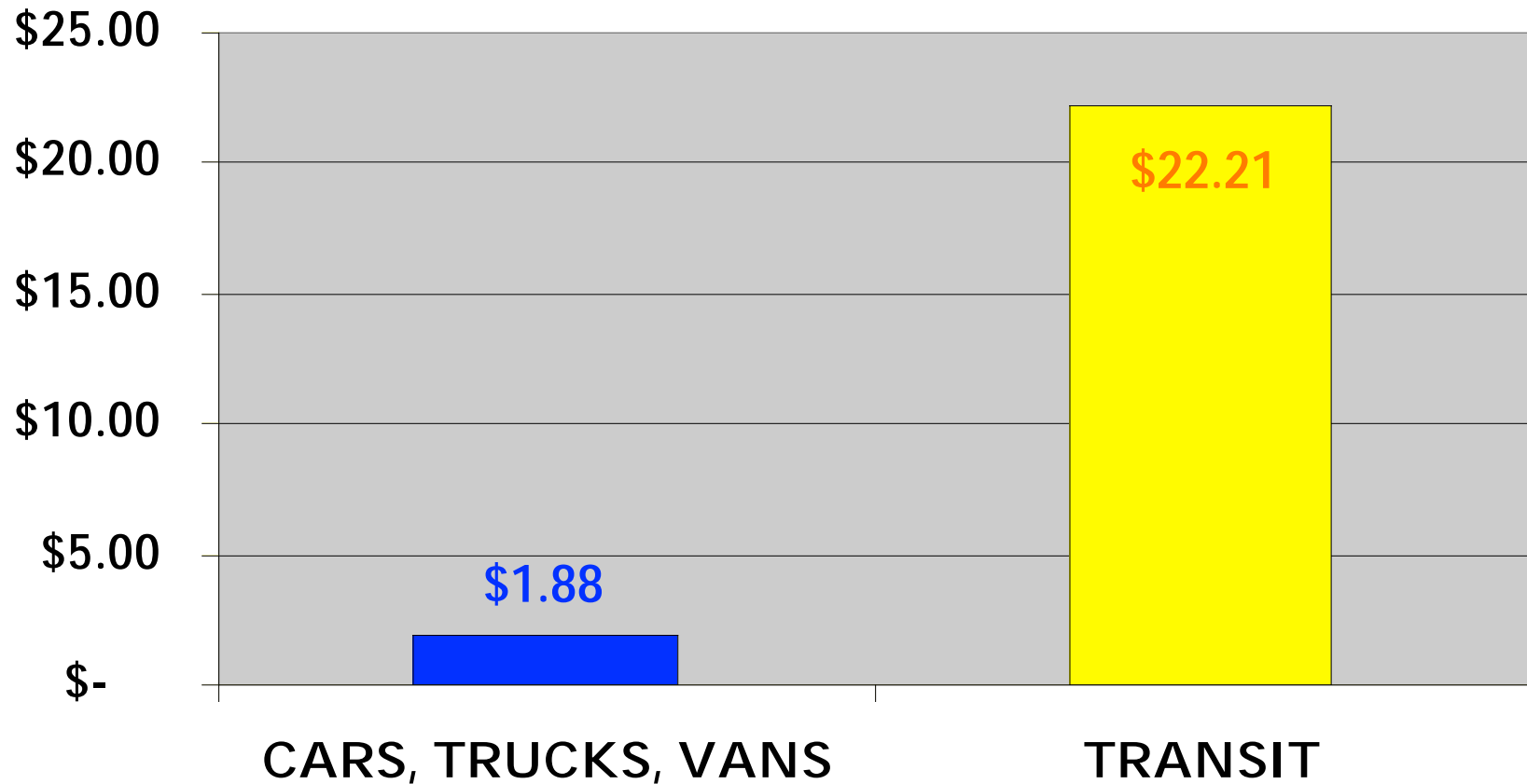




# Seattle Urbanized Area Growth Per Square Mile, 1982-2002



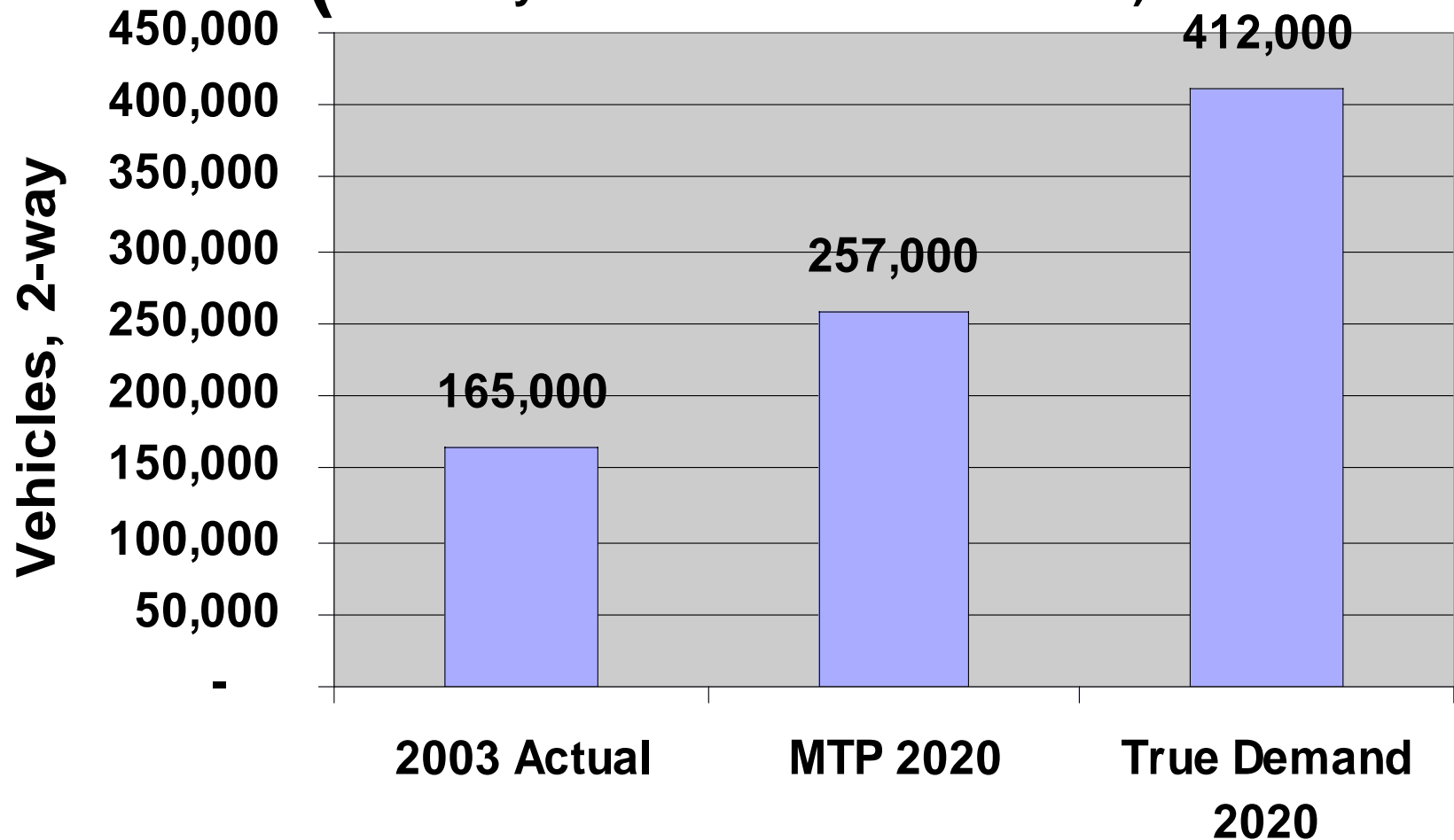
# PUBLIC INVESTMENT PER ADDED PERSON-TRIP, 2000 to 2030 (Puget Sound)



Source: PSRC, 2004 Review and TD

# I-5 is Broken and Gets Worse

(Weekday Volumes North of Jackson)



# more on DENSITY

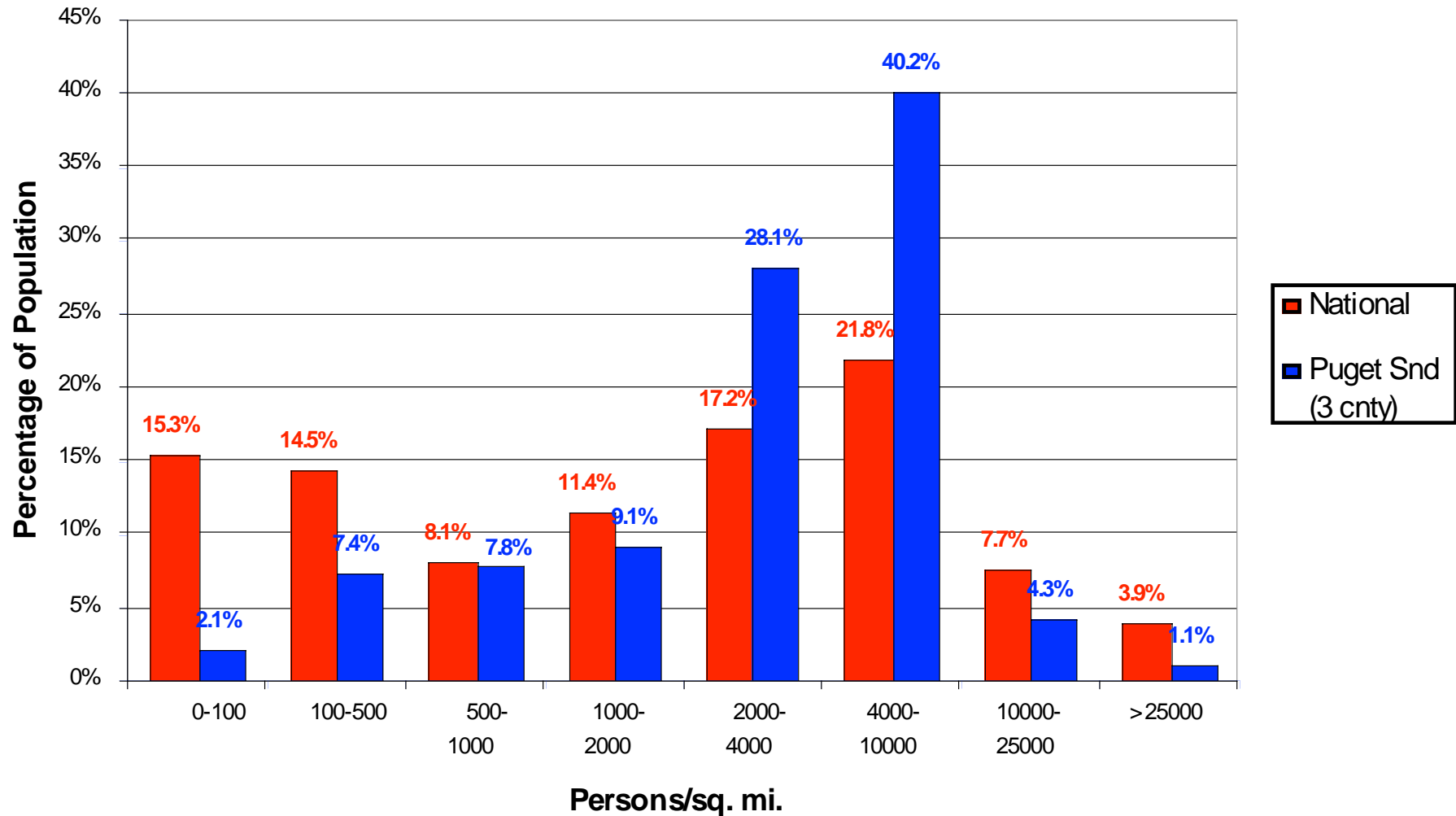






# Population by Density Groups for US & Puget Sound

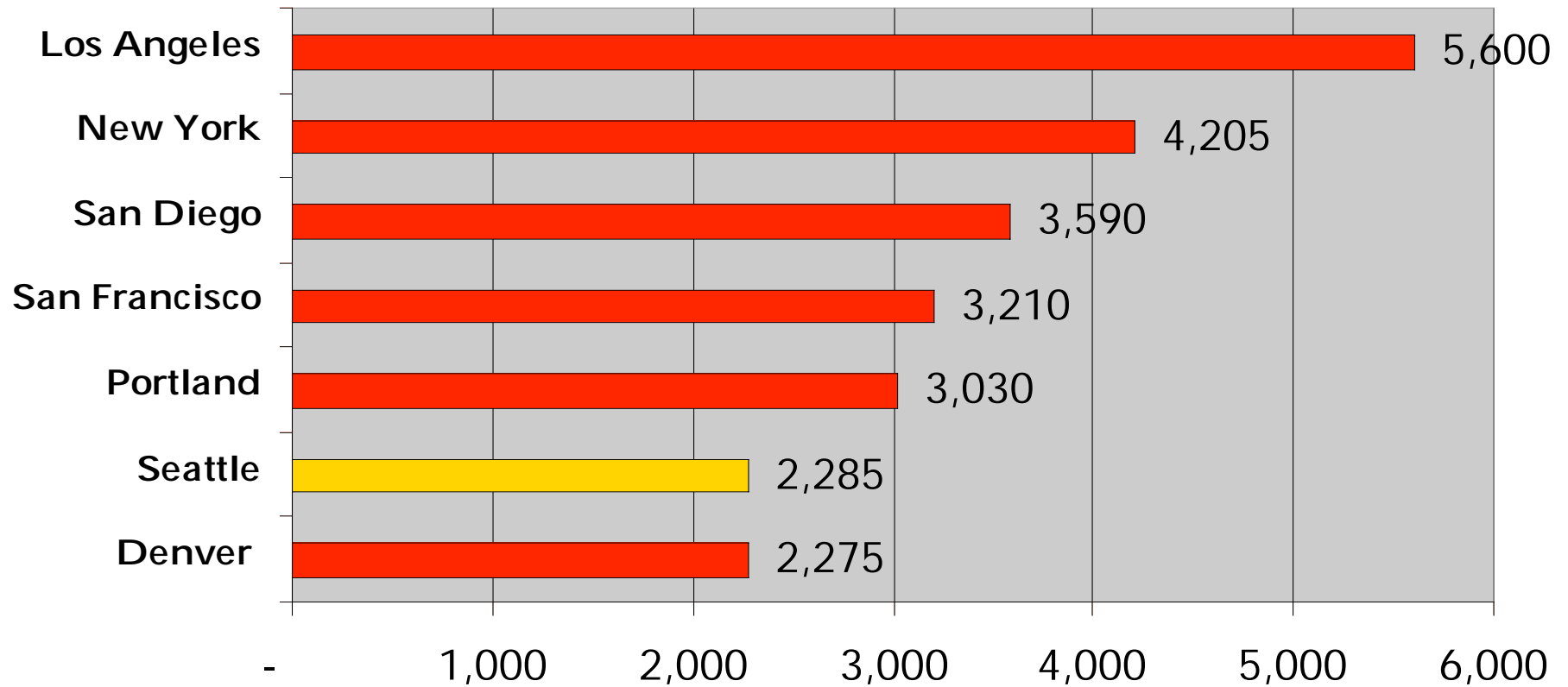
(2000, by Census Tract, King/Pierce/Snohomish)



H:/21103/Data/Census/3 Cnty Census Tr 2000.xls - US-3 County Comparison tab



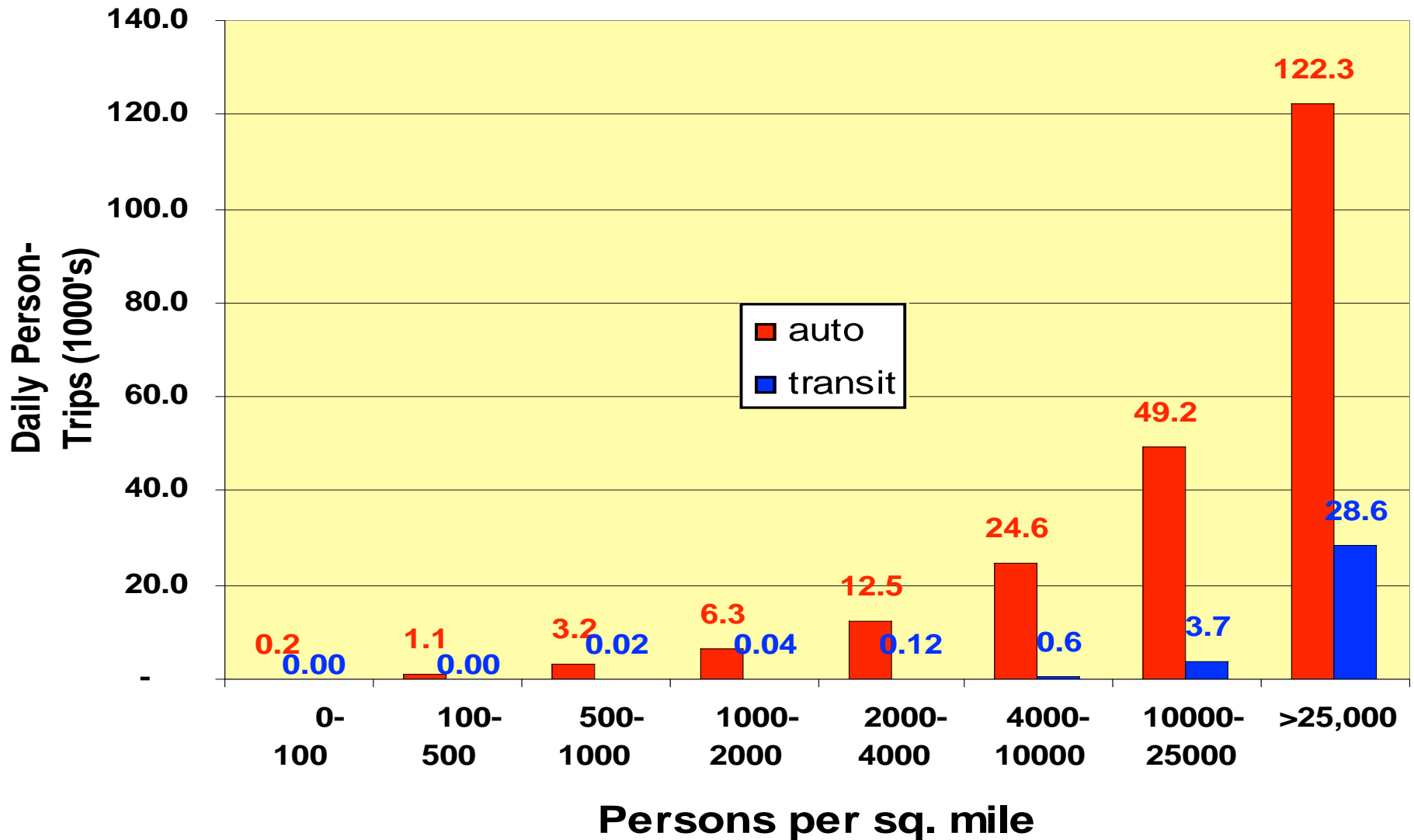
# Density of Selected Urbanized Areas (2000)



Persons/sq. mile

2103/data/census/density of selected

# Daily Transit & Auto Trips per Sq. Mile vs. Density (U.S. w/o NYC)



# GET THE PICTURE?

One success: highway air emissions

Travel behavior is hard to change

Highways largely ignored for 3 decades

Transit's market-share in decline

By Adopted Plan:

- delay worsens

- small mode shifts

- cars, trucks and vans continue to dominate

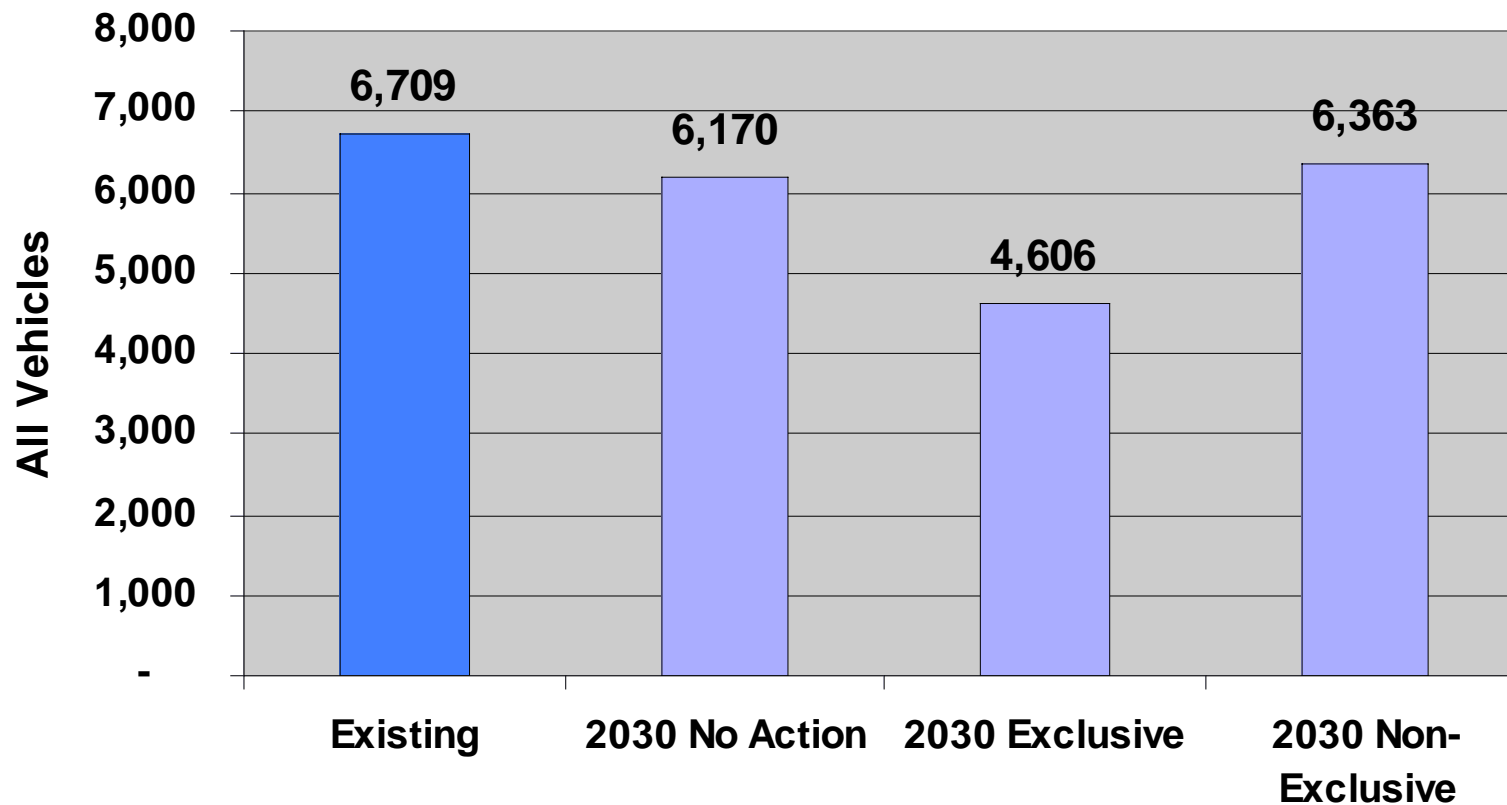
Work trip is small part of problem

Density is the primary variable for transit ridership

# I-90 Futures

## Vehicle Throughput, AM Peak Hour Westbound, ECB

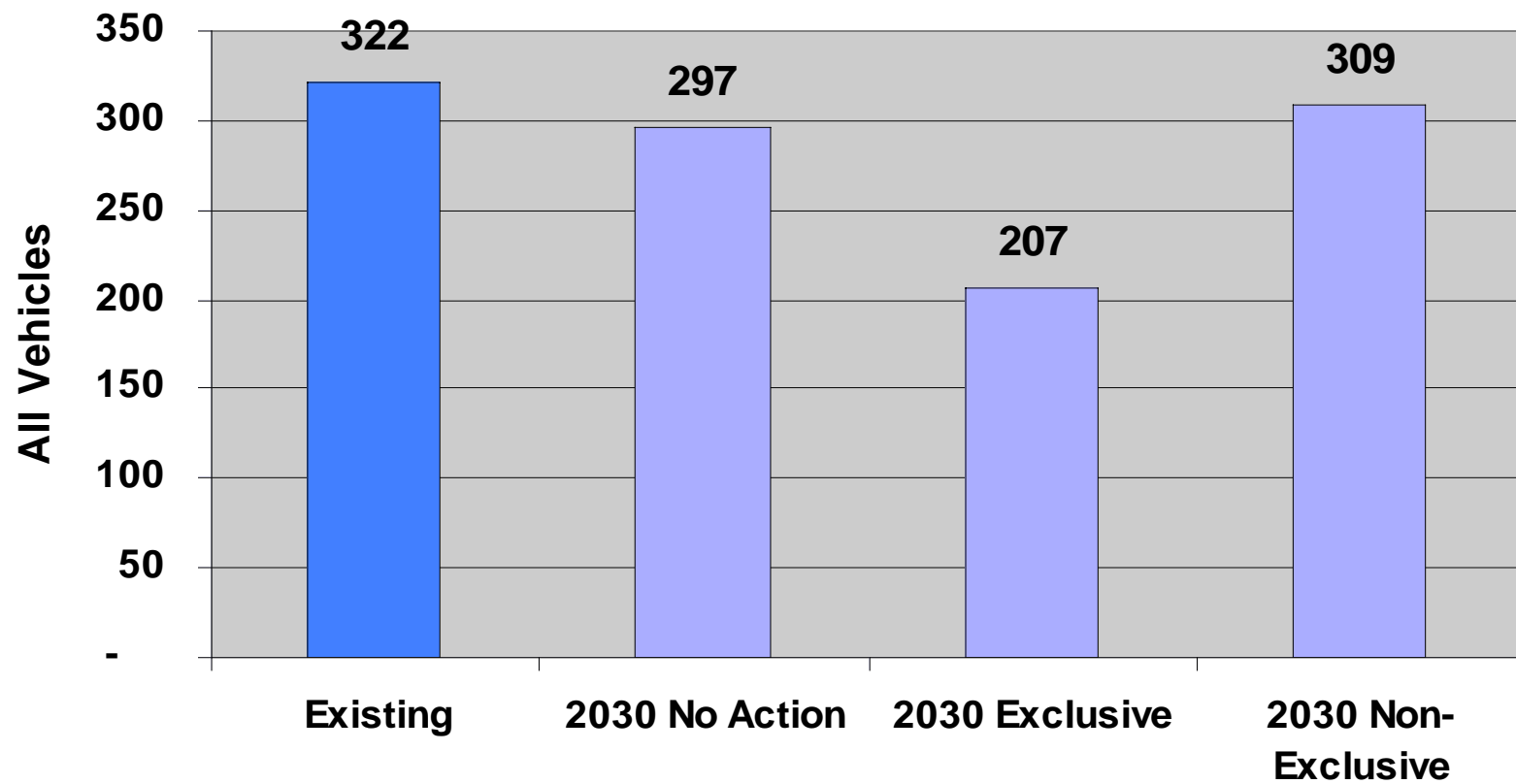
(Source: I-90 Center Roadway Study, WSDOT, July 06)



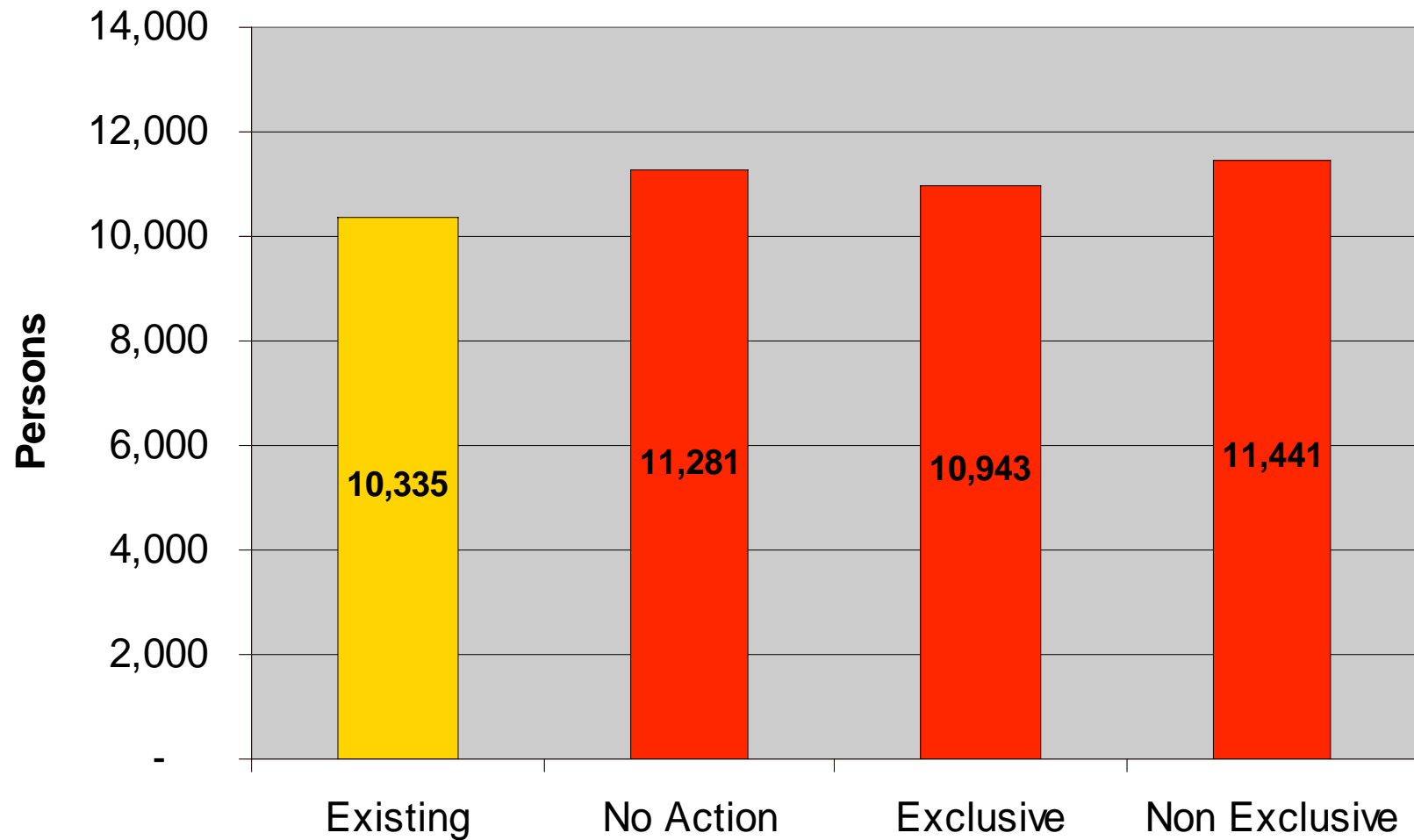
# I-90 Futures Trucks

## Truck Throughput, AM Peak Hour Westbound, ECB

(Source: I-90 Center Roadway Study, WSDOT, July 06)



## Person Through-put, AM Peak Hour Westbound (at East Channel Bridge)



# ... My Lunch with Thomas Jefferson

...the end