




*What If...*  
The Washington Region  
Grew Differently?



The TPB Regional Mobility and Accessibility Study

TPB Citizens Advisory Committee  
Public Forum in Takoma Park, Maryland  
November 16, 2005

1



Why look at alternative  
transportation and land use  
scenarios?

2



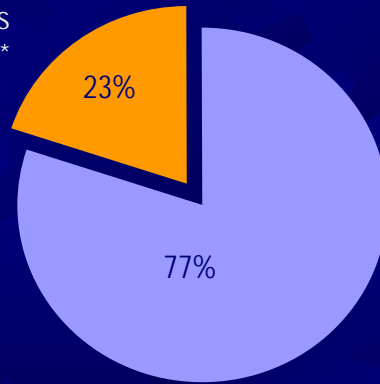
The region's transportation plan only includes projects that we know we can pay for.

A cartoon character wearing a white hard hat and a white shirt, holding a green sign with the number "31" on it. The character is standing on a yellow circular background. The background of the slide is dark blue with several large, light blue gears. On the left side, there is a vertical strip of colorful, abstract, pixelated patterns. In the bottom right corner, there is a small white number "4".

# Most Transportation Dollars Are Needed for Maintenance

*Little money is available for new transportation projects*

New Roads and Transit\*



Operations & Preservation\*

\* Based on region's 2003 Constrained Long-Range Plan

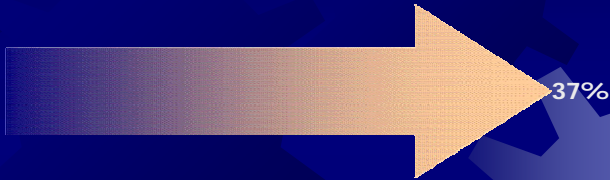
5

# The Highway System Won't Keep Pace with Growth

*Forecast Trends 2000 - 2030*

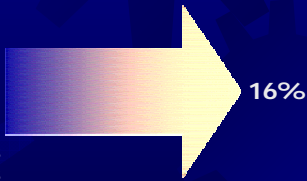
Daily Vehicle Miles Traveled

2000: 109 Million  
2030: 150 Million



Freeway and Arterial Lane Miles

2000: 15,300 Miles  
2030: 17,600 Miles

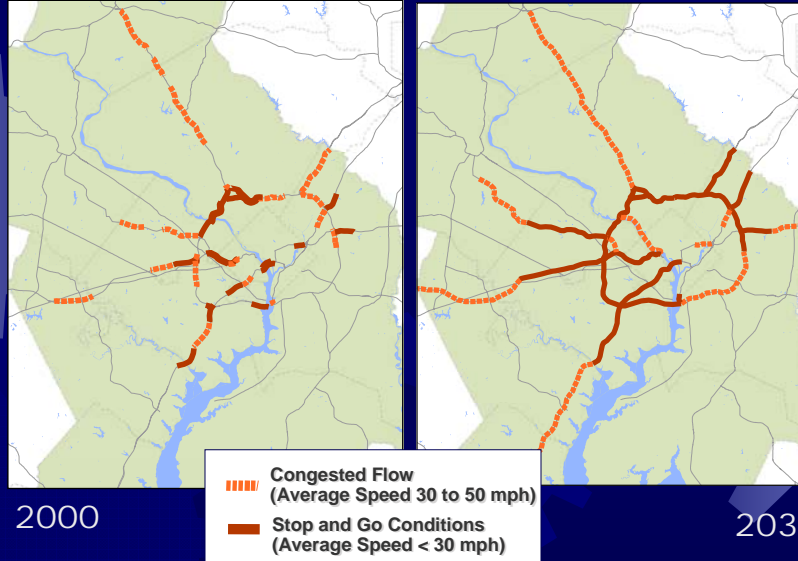


Based on region's 2003 Constrained Long-Range Plan

6

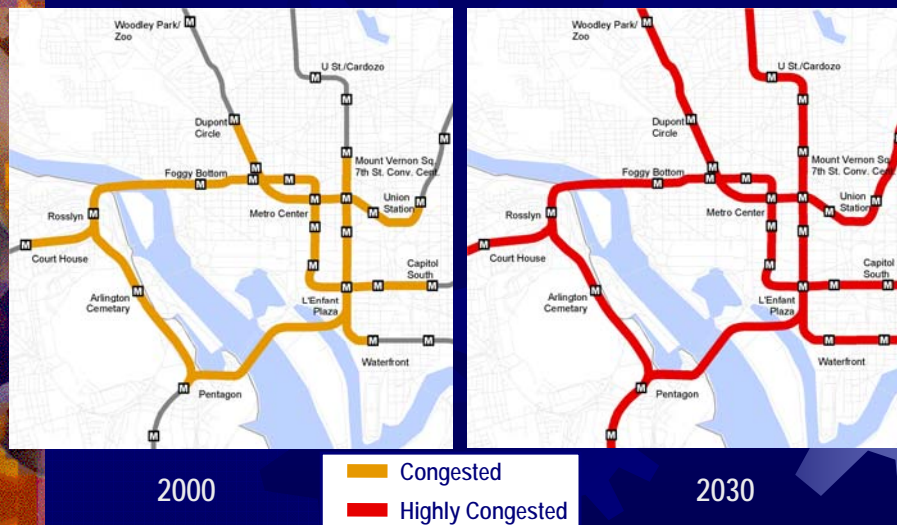
# Most of the Beltway Will Be Stop and Go

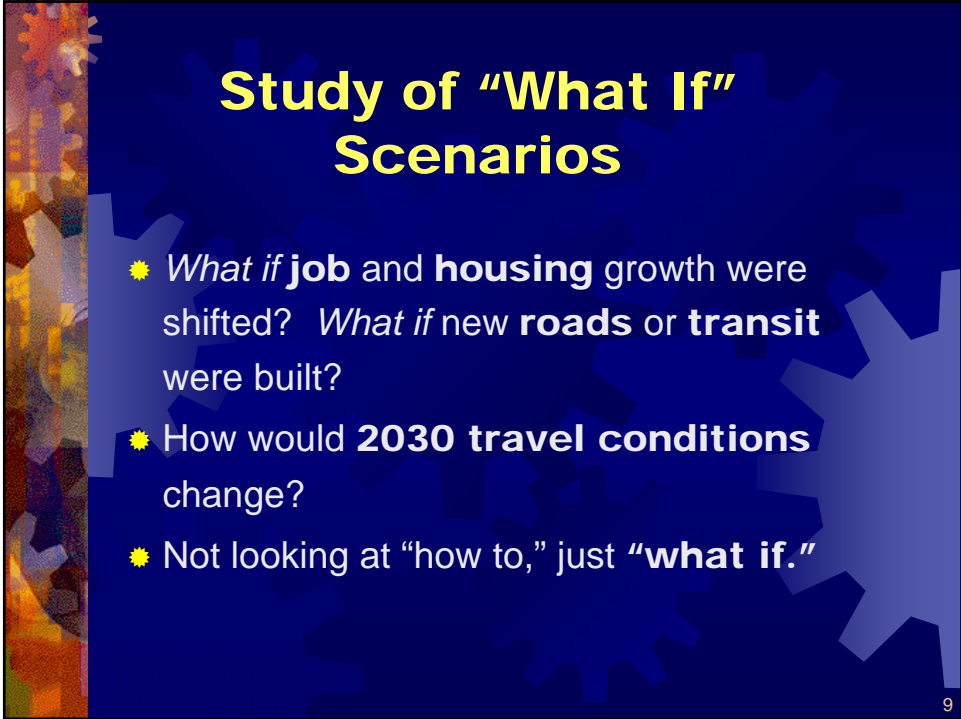
Evening Highway Congestion 2000 and 2030



# Metro Platforms and Trains Will Be Packed

Morning Peak-Hour Transit Congestion: 2000 and 2030





## Study of “What If” Scenarios

- *What if* job and housing growth were shifted? *What if* new roads or transit were built?
- How would 2030 travel conditions change?
- Not looking at “how to,” just “what if.”

9

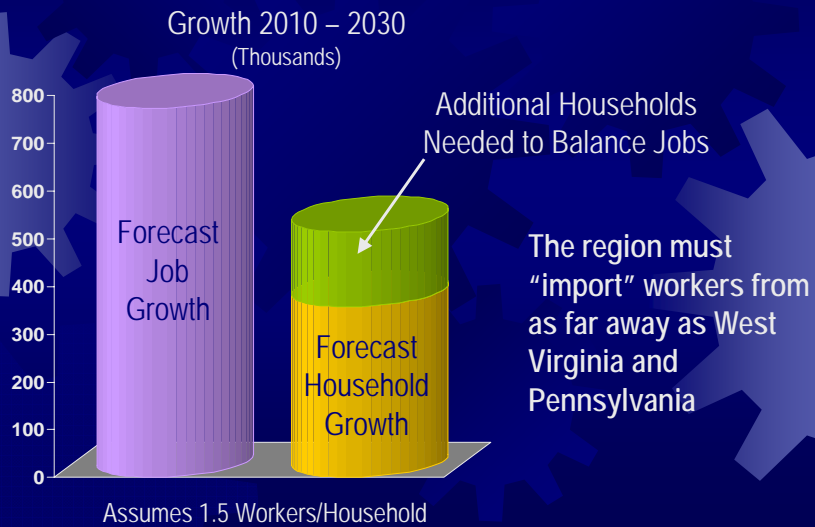


## *Developing the Scenarios:*

What are **key issues**  
related to land use and  
transportation?

10

## Issue #1: Job Growth is Outpacing Household Growth



11

## Issue #2: Workers are Living Farther Away from Their Jobs

- Inner jurisdictions – most job growth
- Outer jurisdictions – lion's share of household growth

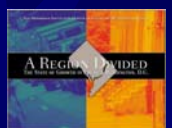
**How Far Is Too Far?**  
*Developer Plans 4,300 Homes 100 Miles From D.C.*



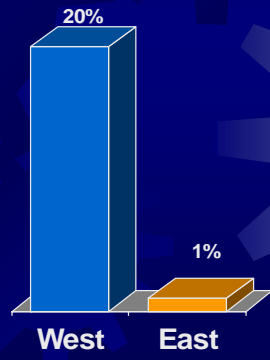
12

# Issue #3: East-West Divide

A 1999 Brookings Institution report highlighted disparities between the eastern and western parts of the region

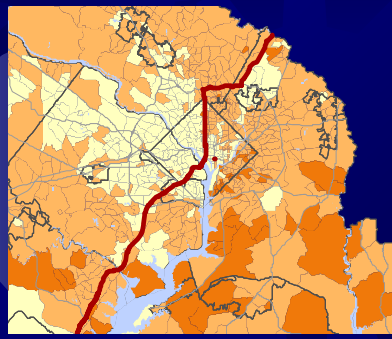


Job Growth Rate 1990 – 2000



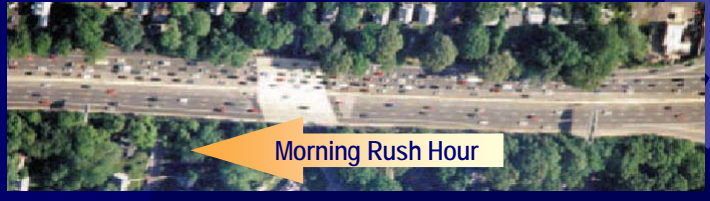
# Issue #3: East-West Divide

West-bound travel clogs the roads during morning rush hour



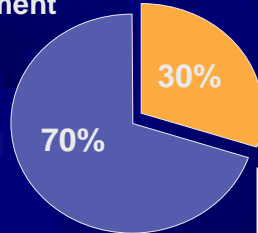
Average Commute Time

- Up to 30 minutes
- Up to 40 minutes
- Over 40 minutes



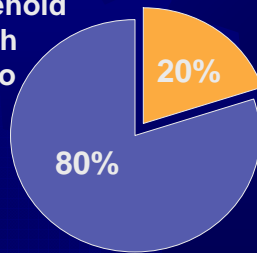
## Issue #4: Most Growth Located Outside Transit Station Areas

Employment  
Growth  
2010 to  
2030



Inside Transit  
Station Areas

Household  
Growth  
2010 to  
2030



Outside Transit  
Station Areas



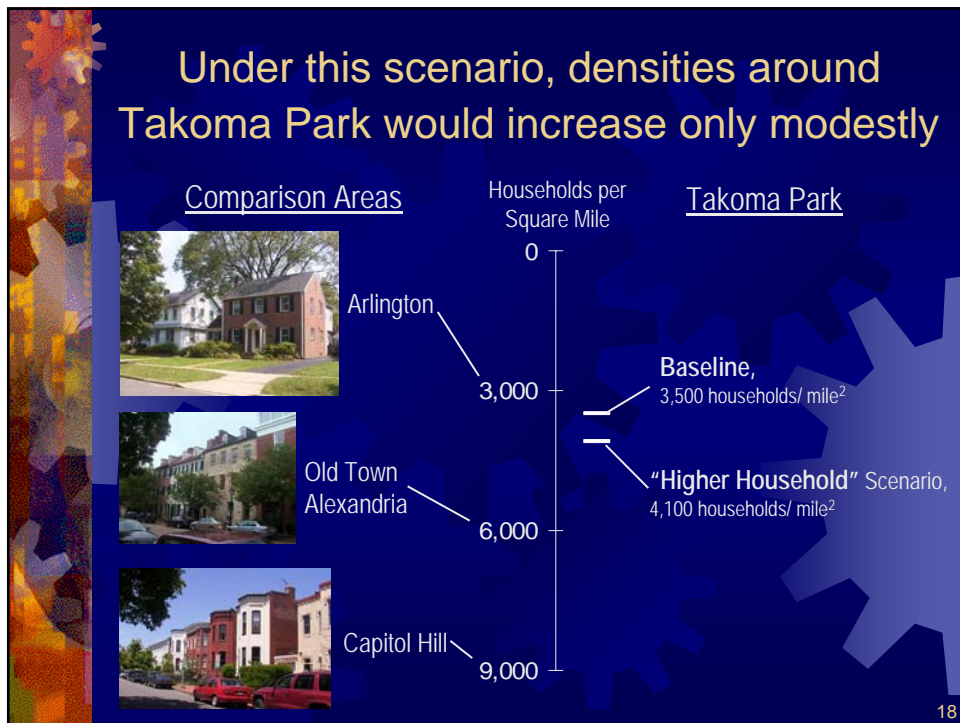
15

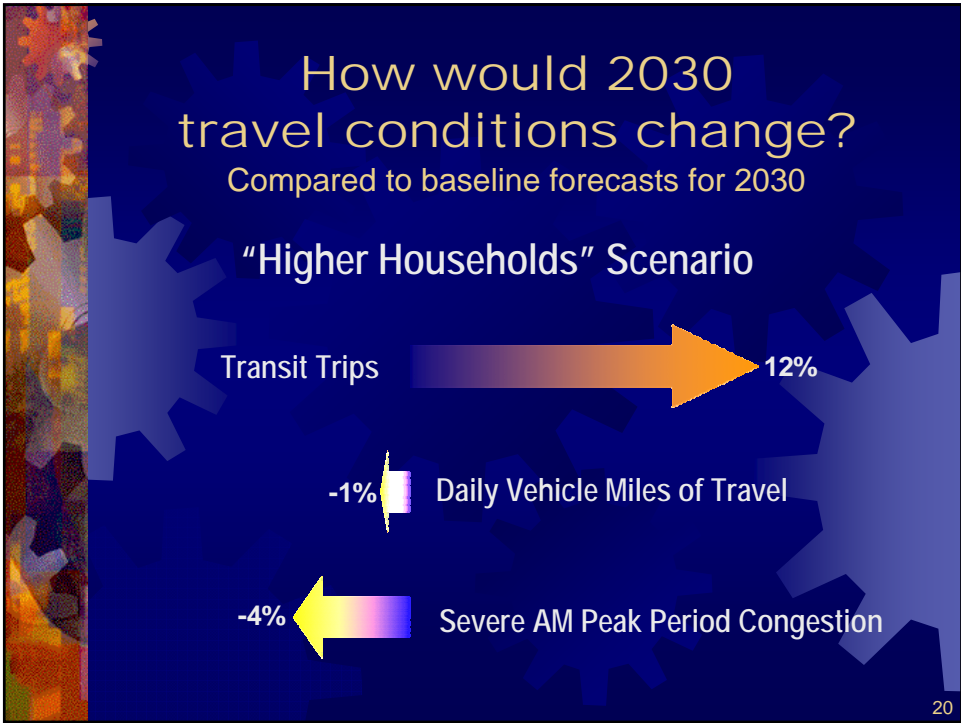
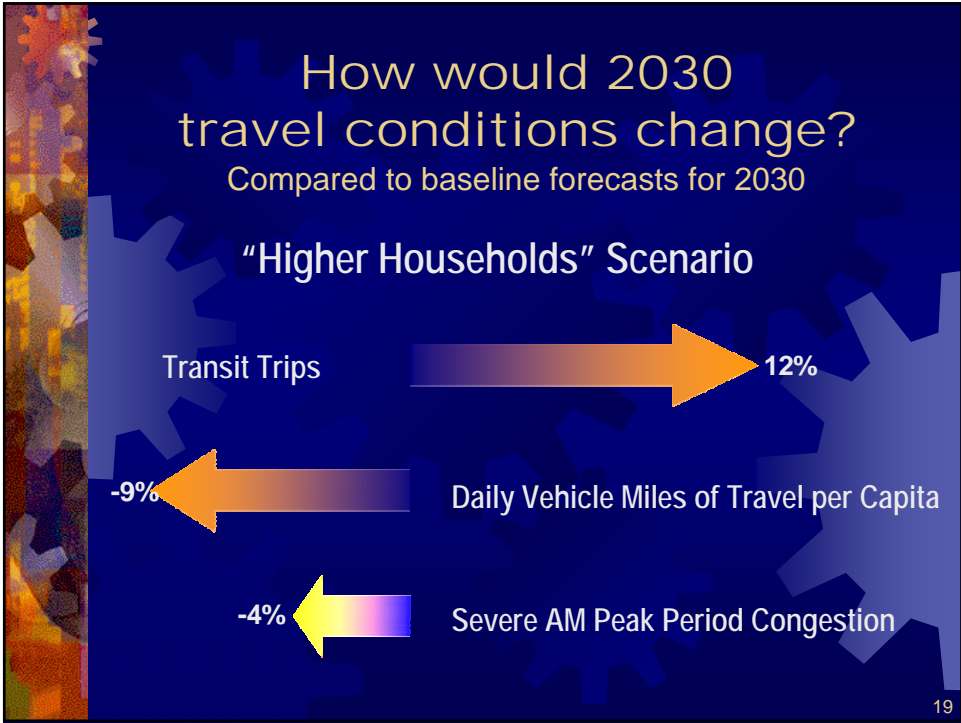
*Addressing the issues:*

What if we shifted  
**job and household  
growth?**

16







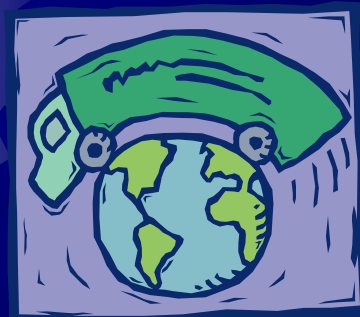
The average person would drive two miles less per day.



2010:	23.4 miles/ person
2030 Baseline:	24.2 miles/ person
2030 Scenario #1:	22.1 miles/ person

21

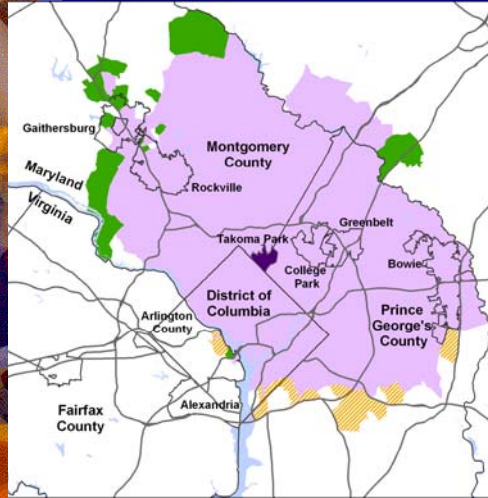
Under this scenario, driving would decrease by 1.2 million vehicle miles per day . . .



The equivalent of **48 trips** around the Earth

22

From Takoma Park, some areas will become more easy to reach by auto, some less.



Areas Accessible from Takoma Park within 45 Minutes by Auto

- Baseline and Higher Household Growth Scenario
- Higher Household Growth Scenario Only
- Baseline Only

Transit trips will increase 12% regionwide, but in many places, the local impacts would be even bigger.



The number of transit trips to West Hyattsville would increase 29% under this scenario.

What if both  
land use AND  
transportation  
changed?

25

What if more people lived near  
transit, and there was more transit?



### “Transit Oriented Development” Scenario

- Locate job and household growth around transit
- Expand Metrorail, commuter rail, bus rapid transit and light rail

26

This scenario includes the Purple Line (Bi-County Transitway) between Bethesda and New Carrollton



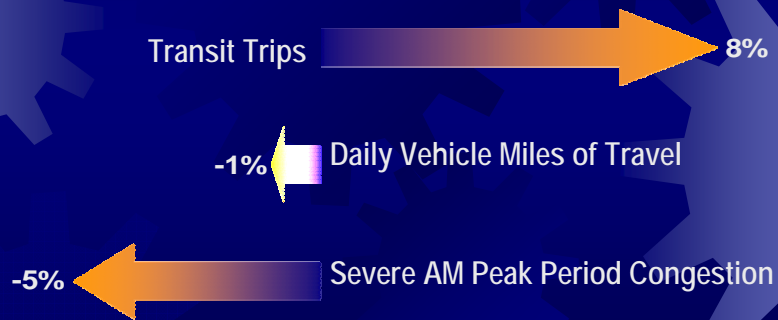
The scenario also includes light rail or other rapid transit in Montgomery and Prince George's counties and in D.C.



## How would 2030 travel conditions change?

Compared to baseline forecasts for 2030

### "Transit Oriented Development" Scenario



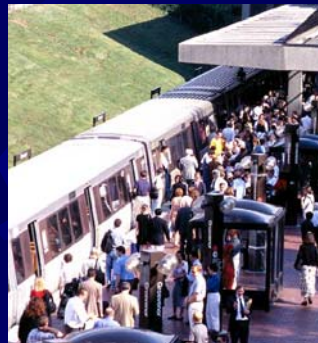
29

## How would 2030 travel conditions change in the bi-county area?

Compared to baseline forecasts for 2030

*Under the Transit Oriented Development Scenario:*

- Transit trips to the **Langely Park** area would nearly triple.
- **Hyattsville** would attract nearly twice as many transit trips.



30

## Driving would also decrease in some locations.

Due to the new transit on Georgia Avenue north of Glenmont, auto trips in that corridor would decrease by 11,000 per day...



*That's more than enough drivers to fill half the seats in the MCI Center.*

31

## What do the scenarios tell us?

- ☀ Land use patterns affect transportation
- ☀ Moving people closer to jobs
  - ↑ increases transit use
  - ↓ decreases driving and congestion
- ☀ Changing both land use and transportation has the biggest effect

32



## Next Steps: *What if ...*

We built a network of high occupancy/toll (HOT) lanes?

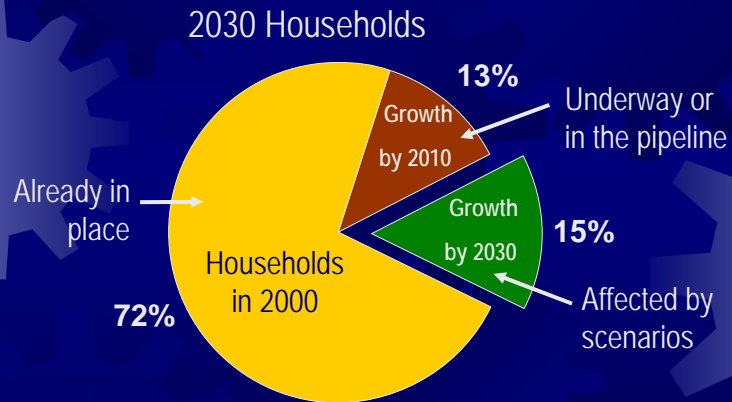


33

Other things to think about

34

## Significant change may require redevelopment of existing areas



35

## Change takes time

- Scenarios only look out to 2030, but impacts may be greatest in 2040, 2050, and beyond
- For example, just look at how long it took to get Metro in place . . .



36



For more information, contact the  
Transportation Planning Board:

(202) 962-3200

[TPBPublicComment@mwkog.org](mailto:TPBPublicComment@mwkog.org)

[www.mwkog.org/transportation](http://www.mwkog.org/transportation)