Has Growth in Automobile Use Ended?

Don Pickrell Chief Economist, Volpe Center

Autos, People and Policies (APPs): Addressing the Issues of the New Millennium

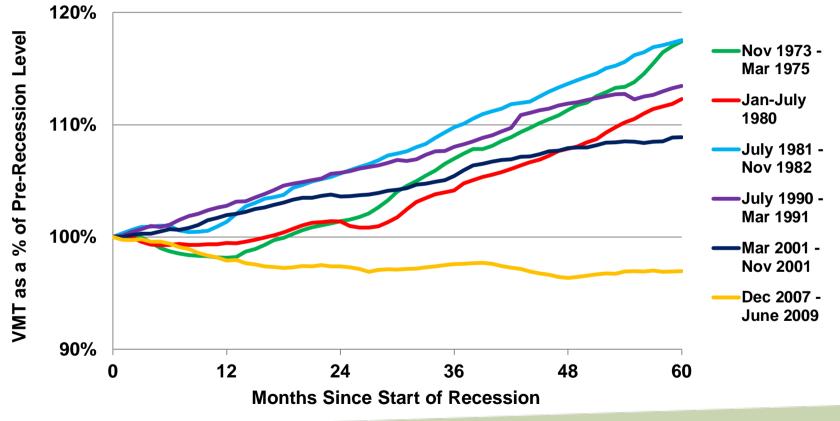
University of Maryland January 16, 2015





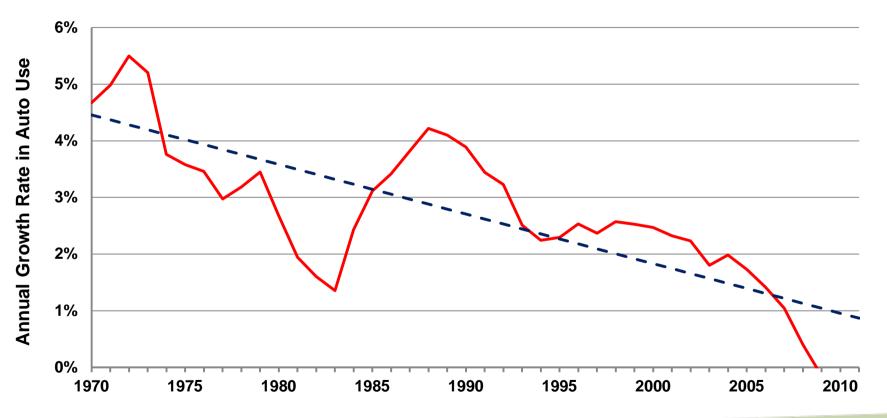
U.S. Department of Transportation
Office of the Secretary of Transportation
John A. Volpe National Transportation Systems Center

Some Things are New...





...but This Has Been a Long Time Coming



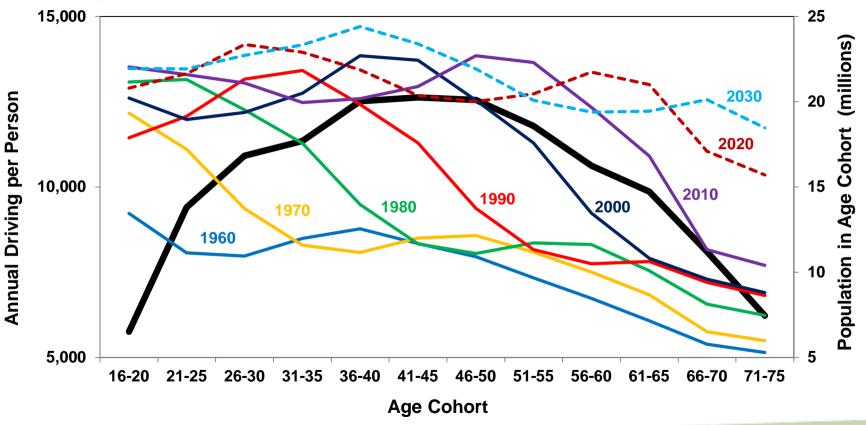


A Perfect Storm?

- Decline in vehicle use reflects the confluence of several major developments
 - Long-term demographic forces
 - Emerging economic challenges
 - Recent technological innovations
- Some at long-term demographic trends reached critical thresholds about the turn of the 21st century
- Many economic challenges are recession-related, but others emerged well before it
- New technologies have improved enough to substitute for some travel
- □ More fundamental changes in behavior may also be taking hold



Baby Boom, Bust, and Echo



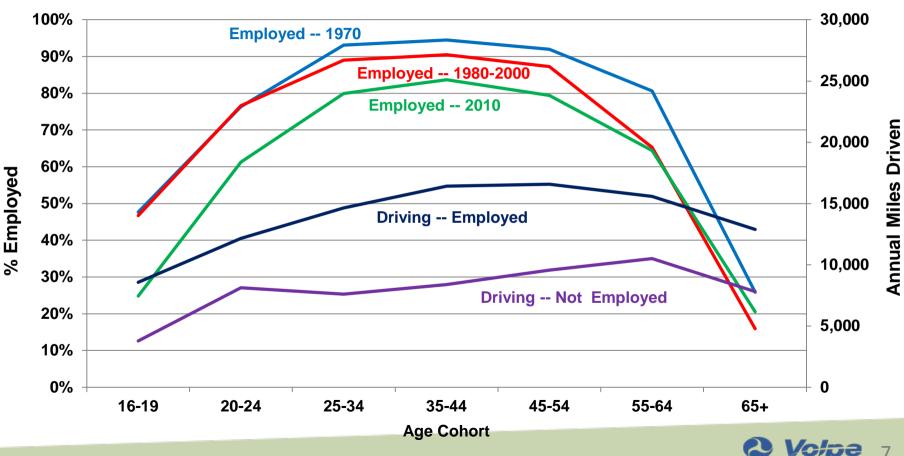


Jobs in Metropolitan Areas are "Catching Up" to Workers

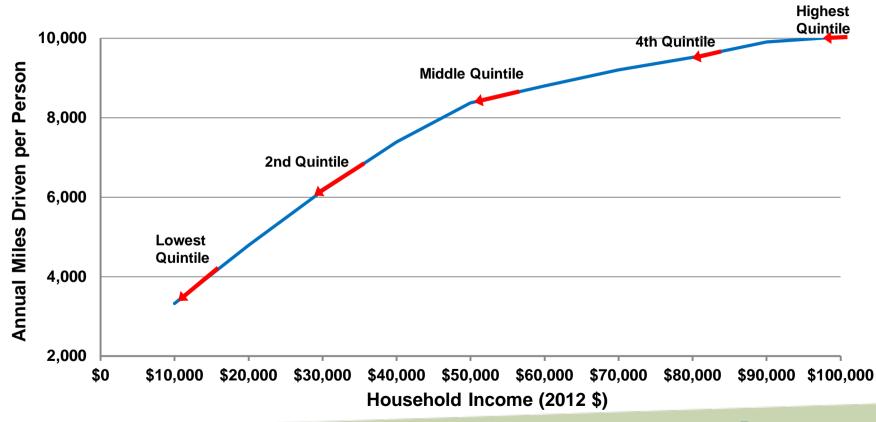
Year	% of Population		% of Workers		% of Jobs	
	Central	Suburbs	Central	Suburbs	Central	Suburbs
	City		City		City	
1950	58%	42%				
1960	51%	49%	54%	46%	66%	34%
1970	46%	54%	46%	54%	57%	43%
1980	40%	60%	39%	61%	52%	48%
1990	33%	67%	35%	65%	51%	49%
2000	30%	70%	34%	66%	45%	55%
2010	28%	72%	30%	70%	39%	61%



The Unemployed Aren't Driving to Work

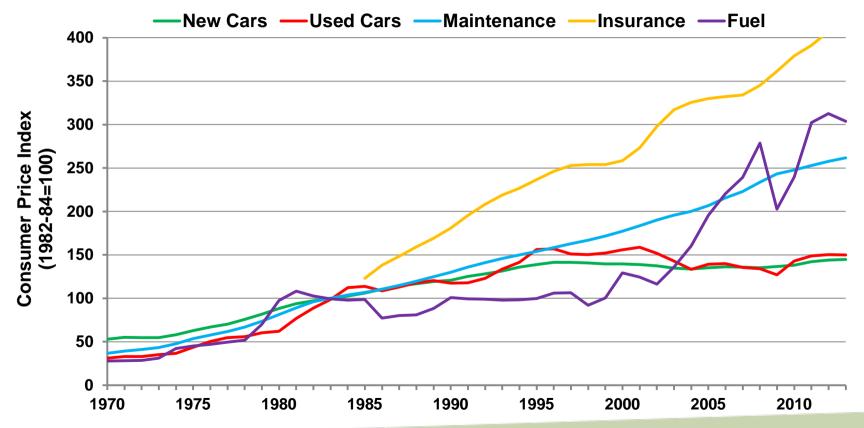


Recent Income Losses Have Hit Hard



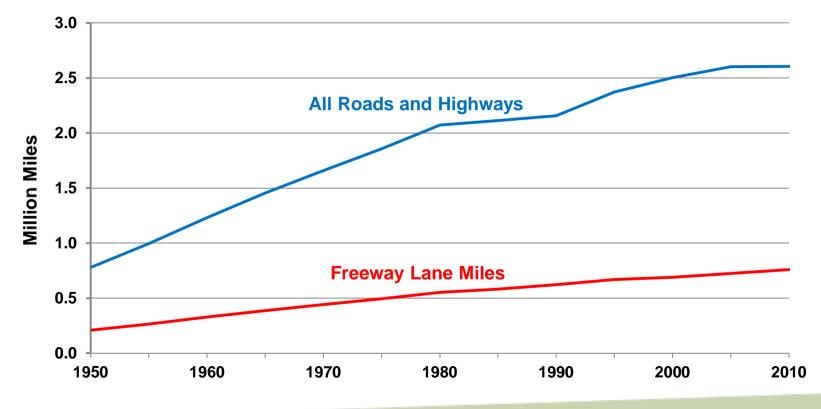


Driving is Getting Expensive



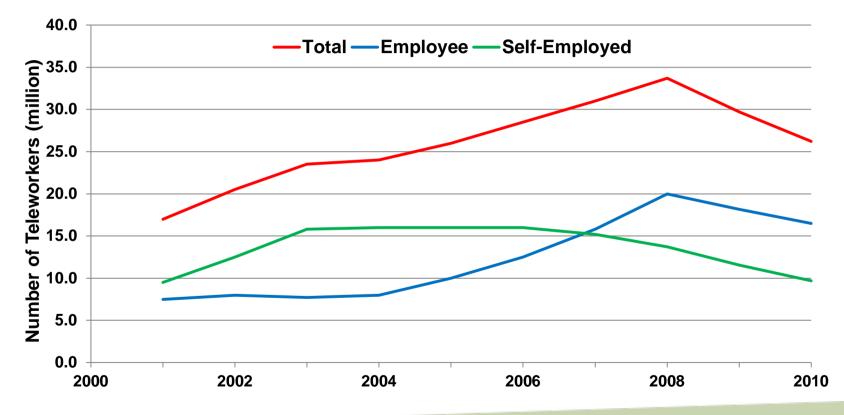


The "Highway Boom" Ended, Maybe



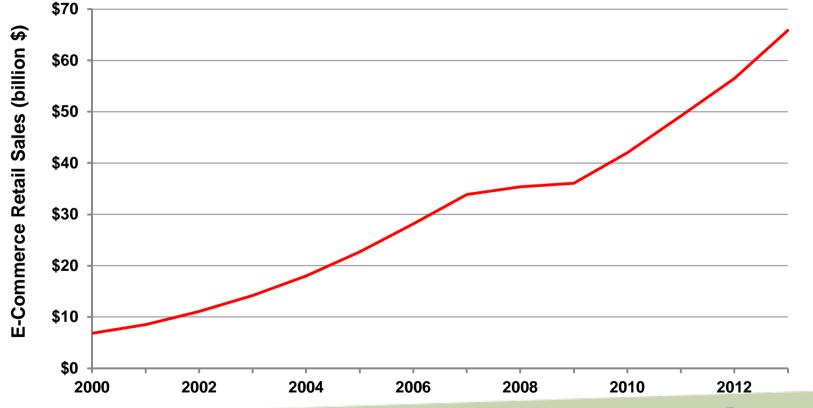


Teleworking Was Catching On, Until...





On-Line Shopping Still Small, but Exploding





New Travel Choices?

- Even if *all* new transit trips since automobile use peaked were formerly made by auto drivers, increase in transit use accounts for less than 1% of decline in automobile travel
- Data aren't ideal, but increases in bicycle and walk trips could account for at most another few percent of decline in driving since its peak
- Airline, Amtrak and intercity bus service are still too small to make a noticeable difference in auto use for intercity travel, except among younger travelers and within limited regions



Wild Cards

- □ Car sharing
- Autonomous ("self-driving") vehicles
- □ Is the decline in labor force participation permanent?
- □ Immigration
 - How much will there be?
 - How fast will travel behavior of new immigrants adapt?

