Impacts of VMT Changes by

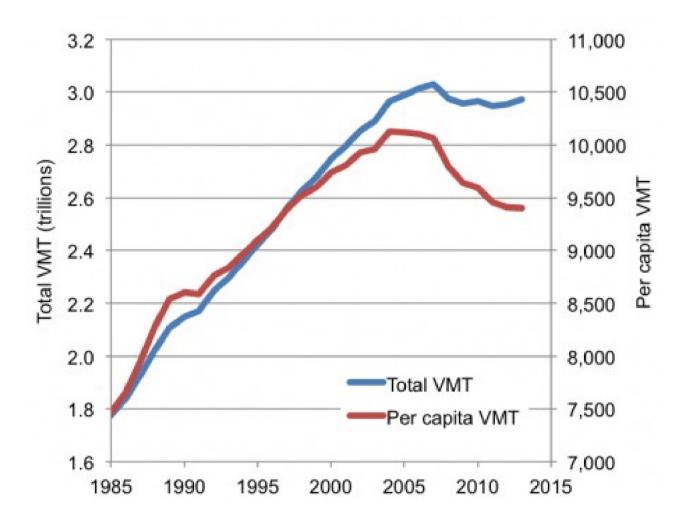
Alexander Paz and Alauddin Khan

2014 Nevada Transportation Conference Las Vegas

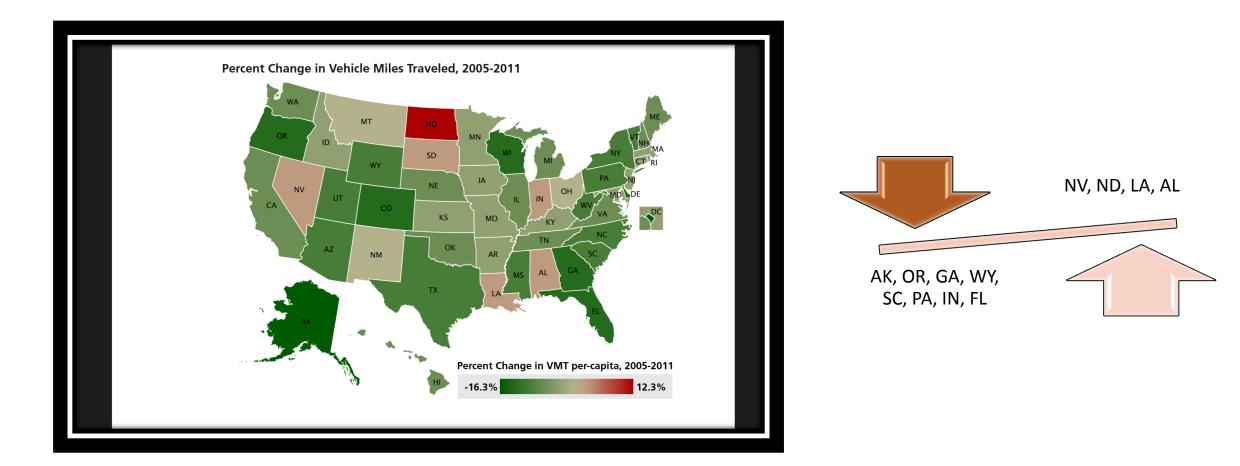
National Perspective

Historical Perspective

- After sixty years increases, the VMT Boom stopped around 2004: Decreased driving per-capita.
- 46 states witnessed reduction
- Sharply declined among Millennials-23%



Percent Change in VMT 2005-2011



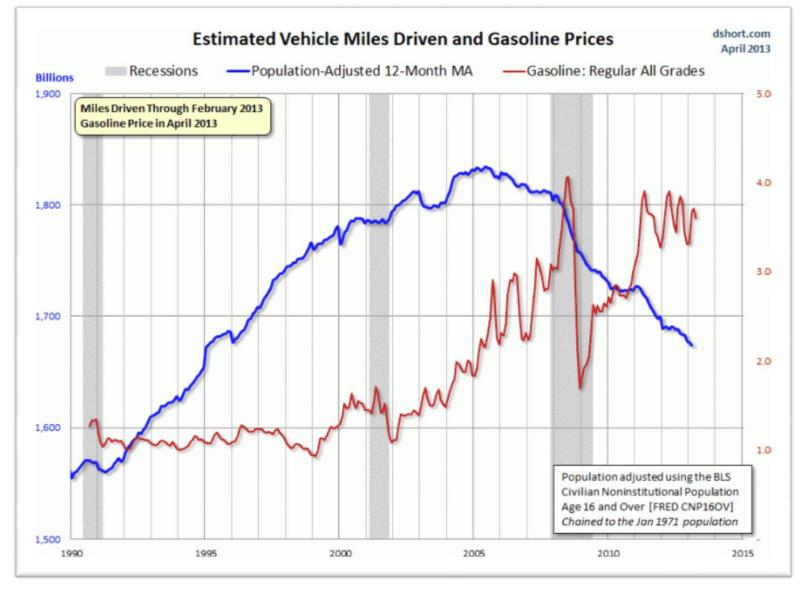
Major Reasons for Changes in VMT



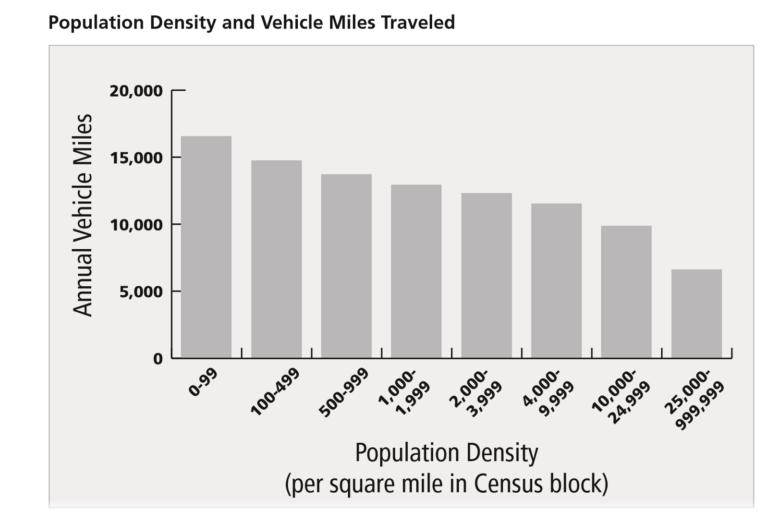
Other Reasons for Changes in VMT

	The recession. Driving is down even for employed/financially stable	
	It's harder to get a license. State enacted tougher laws for driving licenses.	
	TOD - More younger people living in transit-oriented areas.	
	Ecological concerns play a small role- in an effort to curb their environmental impact.	
(Rising auto-insurance rates, continued to <u>climb 10 percent</u> between 2008 and 2010	

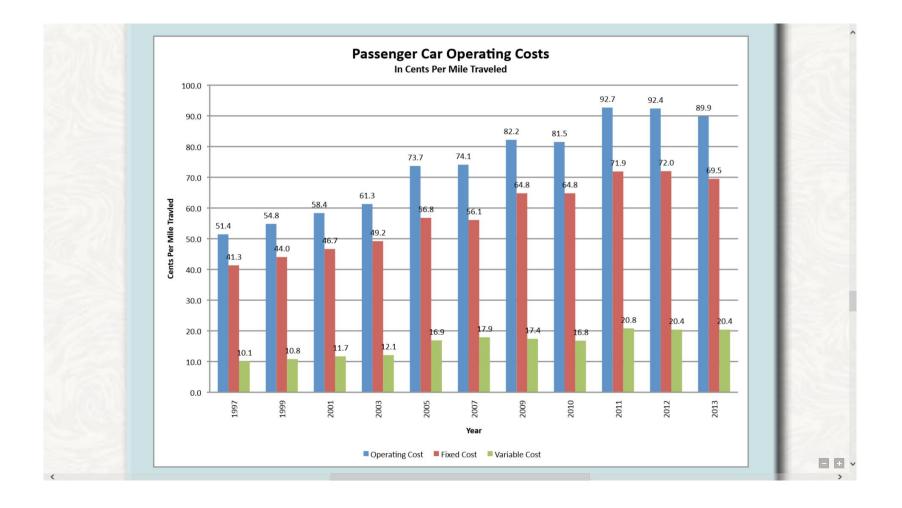
Price of Gasoline and Change in VMT



National VMT and Population



Impact of Car Ownership



Prominent Shifts Across the Nation

Fastest Increase: North Dakota, where a huge expansion of the energy sector from fracking may have led to the increase.

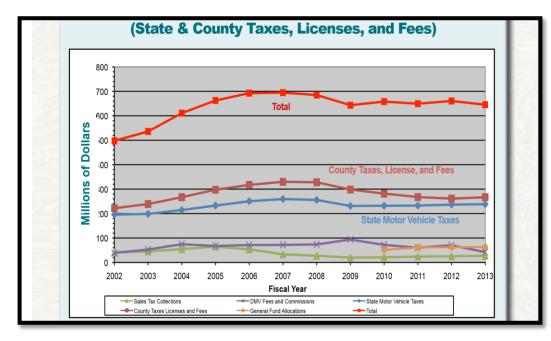
Slowest Decline: Gulf South (4.1 per- cent), which may partly reflect the reconstruction and displacement after Hurricane Katrina

The end of World War II- people flocked to the new suburbs, gas was cheap, women newly entered the labor force as commuters, use of public transit was declining, and cars were at the center of American culture.

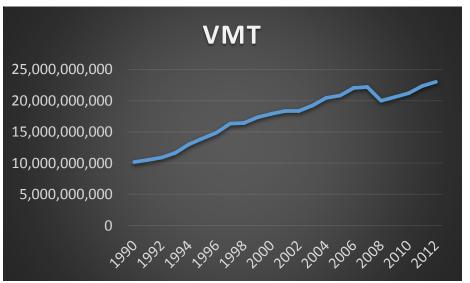
Major population shifts are not between rural and non-rural areas but between suburbs and more densely populated cities.

Nevada Perspective

Nevada Revenues and VMT

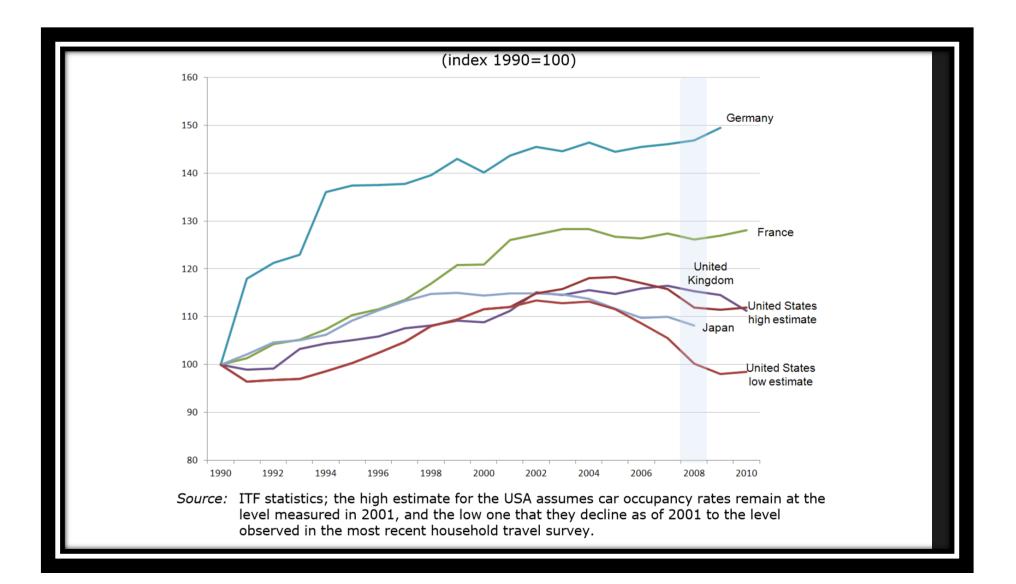






International Perspective

Passenger-kilometer by private car/light trucks



Impacts of Change in VMT

Impact on Program Delivery and Business Priorities

Accelerated program delivery methods put in place to meet the needs

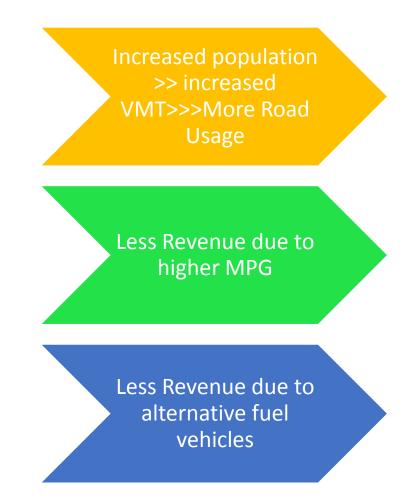
Investment priorities impacted in some states

Impact on Bond Payment and Rates

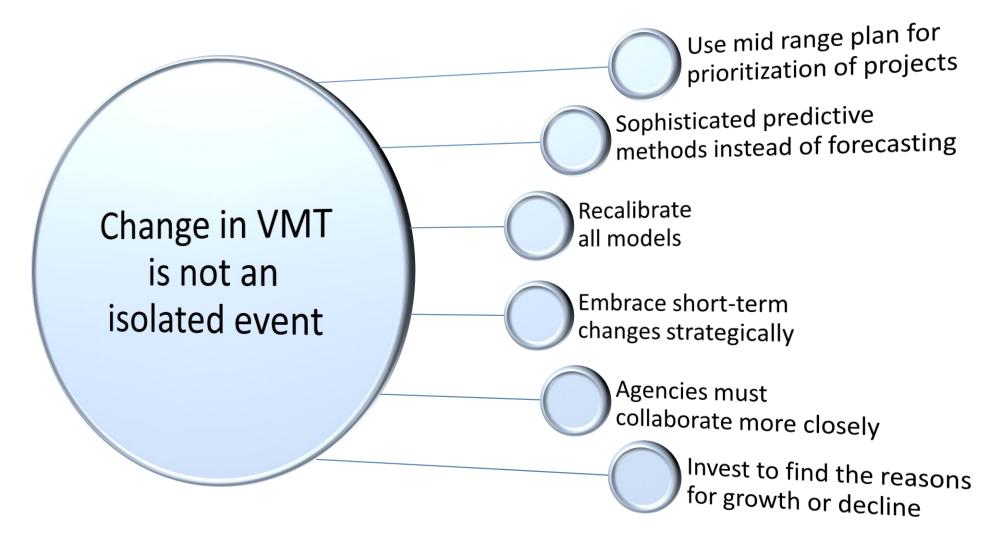
Impact on Fuel Tax Indexing

Some agencies have either dampened their projections or shifted their focus toward VMT reduction goals and TDM efforts.

Future Financial Impacts of VMT Change on System Revenue



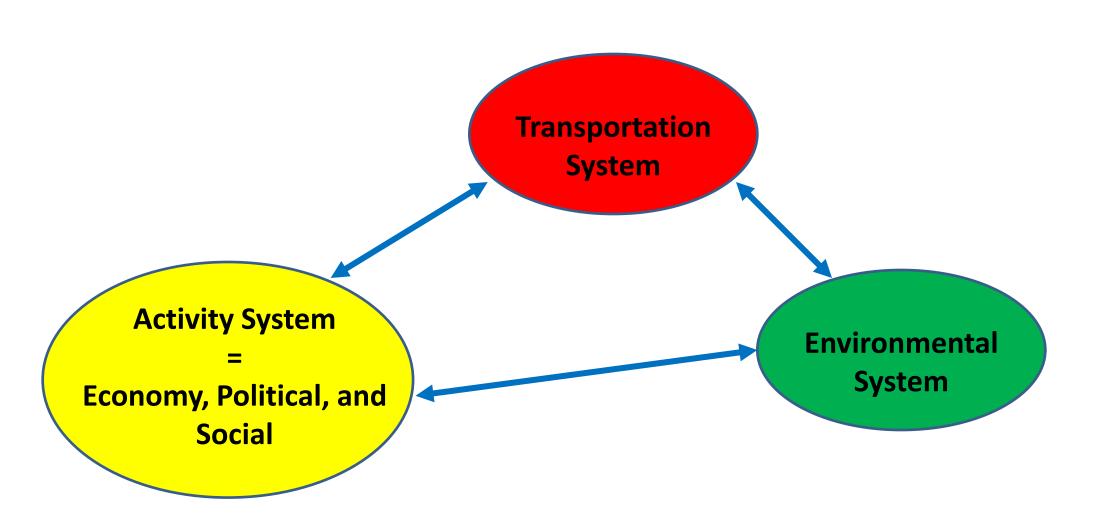
Next logical Steps



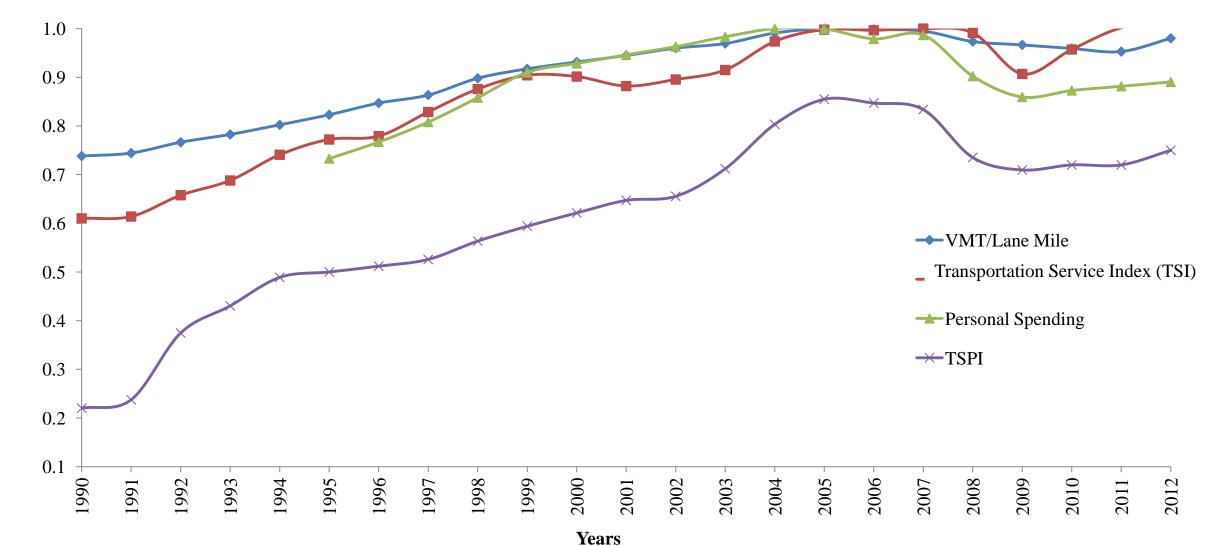
What are the Trends in Terms of **Performance** for the

Transportation Sector and Associated Systems?

Comprehensive Approach

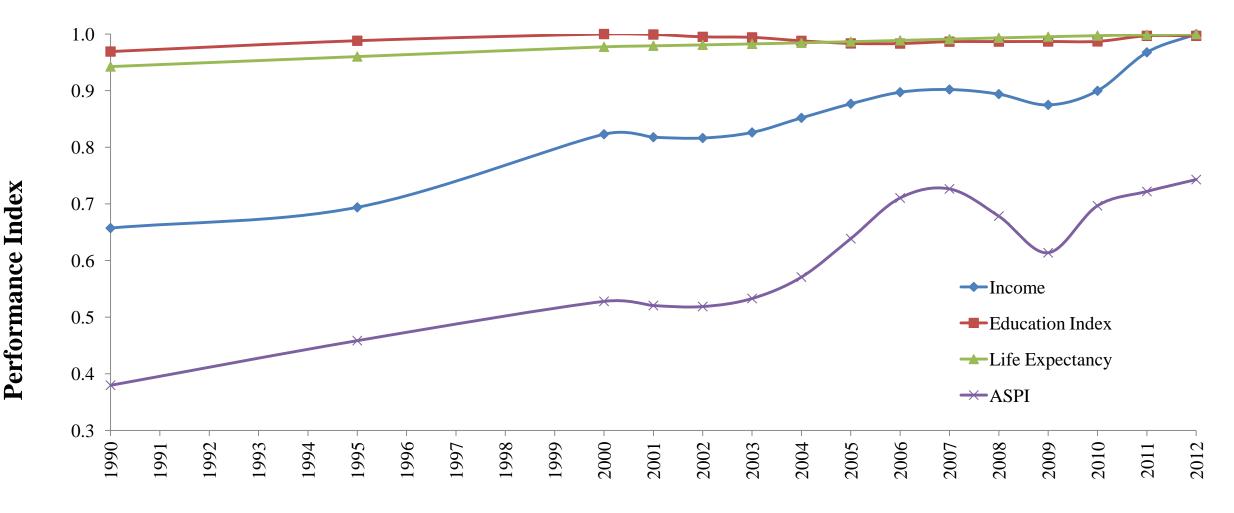


Transportation System Performance Index (TSPI)

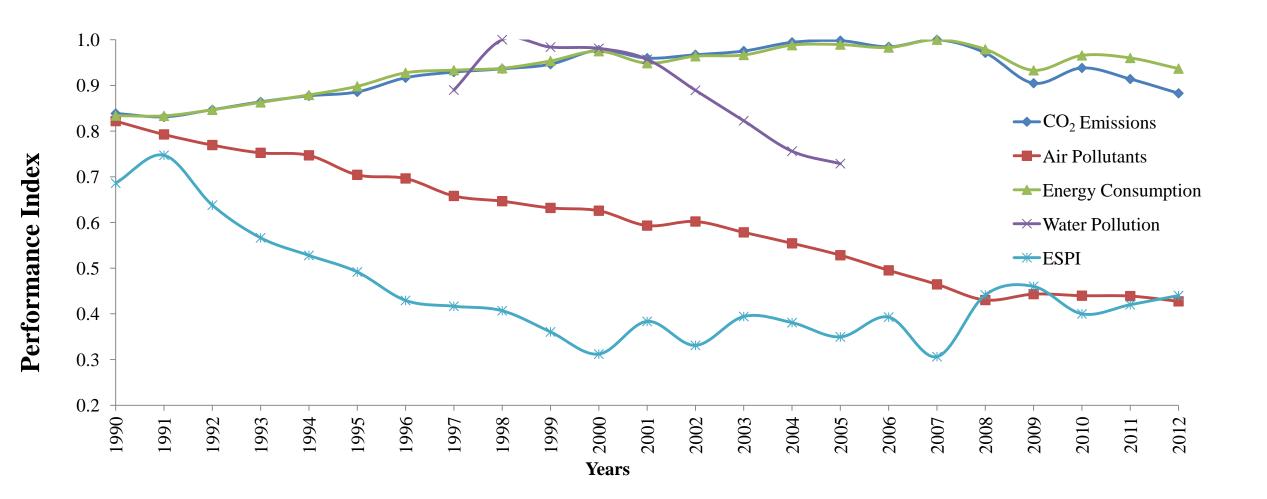


Performance Index

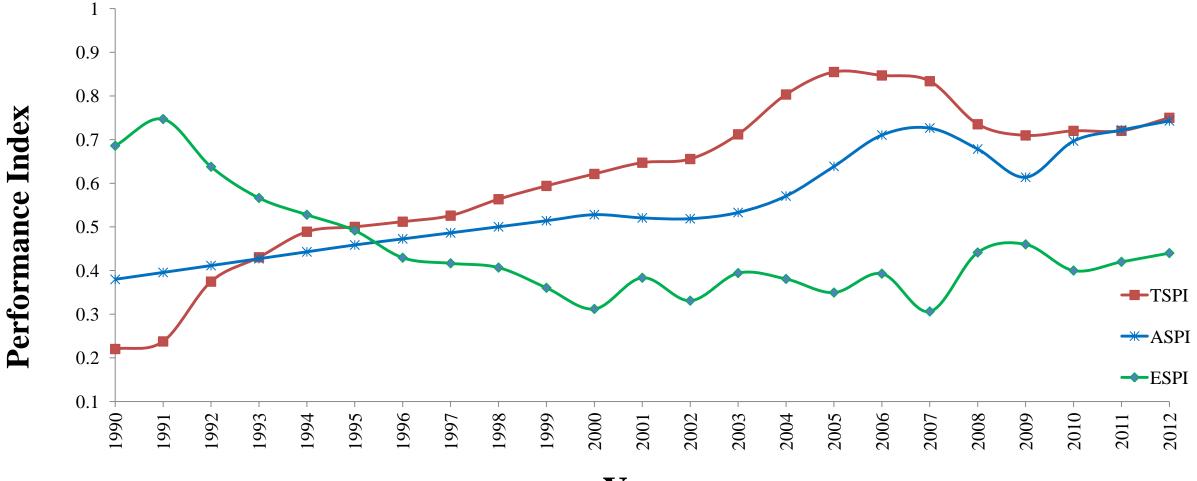
Activity System Performance Index



Environmental System Performance Index



Transportation, Activity and Environmental Indices



Years