

# Smart Transportation

Linking transportation and land use

---

---

---

---

---

---

---

---

## The way we were all trained



---

---

---

---

---

---

---

---



**“Land Use ....  
Is not our business”**



---

---

---

---

---

---

---

---



Roadway expansion was our primary weapon against congestion

---

---

---

---

---

---

---

---



Slide courtesy of Barbara Lawrence, NJ Future

---

---

---

---

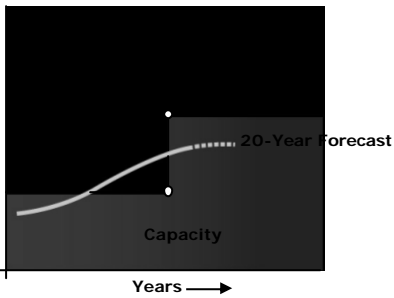
---

---

---

---

What we thought would happen



---

---

---

---

---

---

---

---

So we tried



But.....

Over the last 20 years:  
Time spent in peak hour traffic has DOUBLED  
and  
Traffic Volume has DOUBLED

---

---

---

---

---

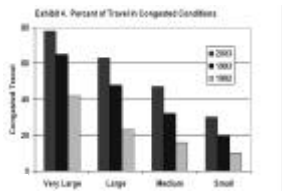
---

---

---



Sixty-seven percent of the peak period travel is congested compared to 32 percent in 1982.



US Department of Transportation Report on Traffic Congestion, 2004  
2005 Annual Urban Mobility Report, Texas Transportation Institute

---

---

---

---

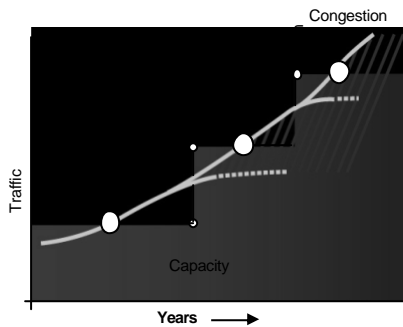
---

---

---

---

What's really happening



---

---

---

---

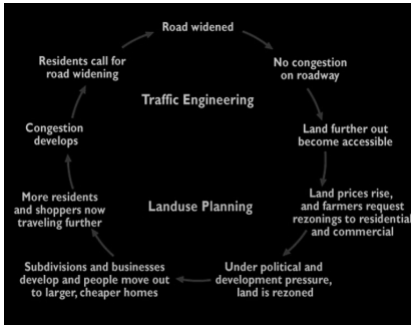
---

---

---

---

Why it's happening  
 "Sprawl factor"




---

---

---

---

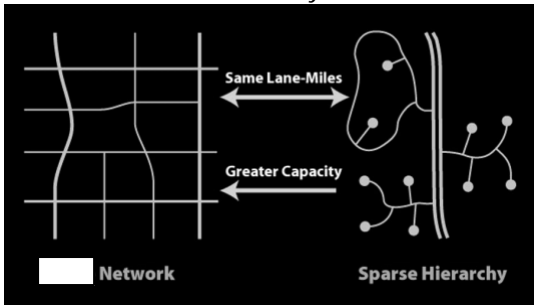
---

---

---

---

Why it's happening  
 "Unconnected System"



Slide courtesy of Troy Russ, GlattingJackson

---

---

---

---

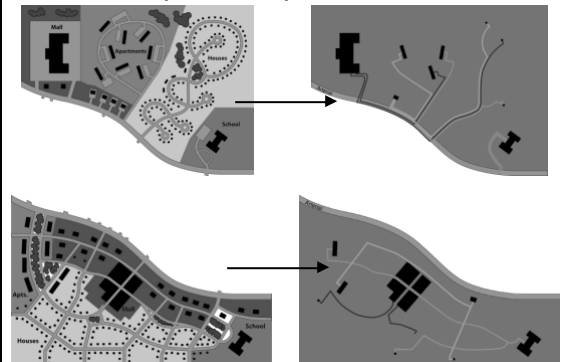
---

---

---

---

Why it's happening  
 "Separated and spread land uses"




---

---

---

---

---

---

---

---

what can  
we do?

---

---

---

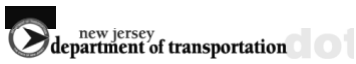
---

---

---

---

---



*New Jersey DOT's New Approach  
to Congestion Relief*



---

---

---

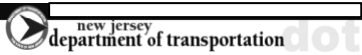
---

---

---

---

---



**New Jersey FIT: Future In  
Transportation**  
Outcomes: Rejuvenating New Jersey  
Via Transportation

Lively Main Streets  
Sensible Land Use  
Streets for the Community  
Lasting Investments

Economic Vitality  
Safe Streets for all  
More Ways to Travel  
Healthy Streets, Communities

---

---

---

---

---

---

---

---

# Smart Transportation Principles

## **Size state highway to be affordable**

*Network Connectivity*  
*Help Communities With Land Use Design*  
*Balanced Street Design*

---

---

---

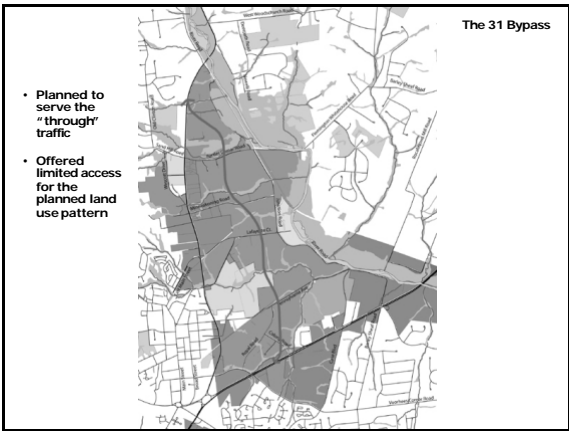
---

---

---

---

---



---

---

---

---

---

---

---

---

# Smart Transportation Principles

**Size state highway to be affordable**

## **Network Connectivity**

*Help Communities With Land Use Design*  
*Balanced Street Design*

---

---

---

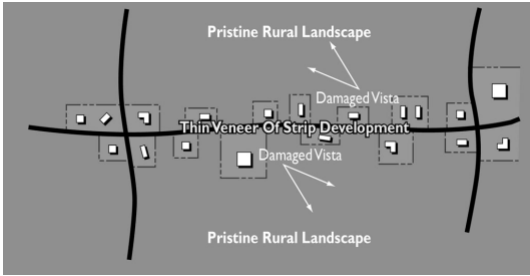
---

---

---

---

---



**Lack of street network strings out development**

---

---

---

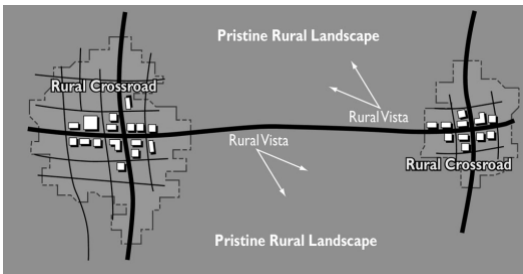
---

---

---

---

---



**Rural development in defined places preserves vistas**

---

---

---

---

---

---

---

---

## Smart Transportation Principles

*Size state highway to be affordable  
Network Connectivity*

***Help Communities With Land Use Design***

*Balanced Street Design*

---

---

---

---

---

---

---

---

Route 29 Framework



Reconnect to the City Street Network and Block Pattern

---

---

---

---

---

---

---

---



---

---

---

---

---

---

---

---



---

---

---

---

---

---

---

---





---

---

---

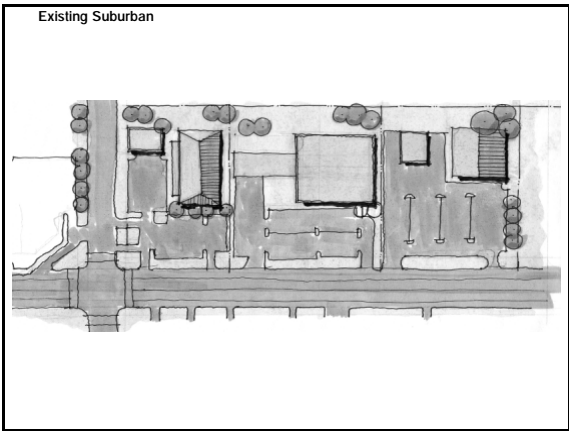
---

---

---

---

---



---

---

---

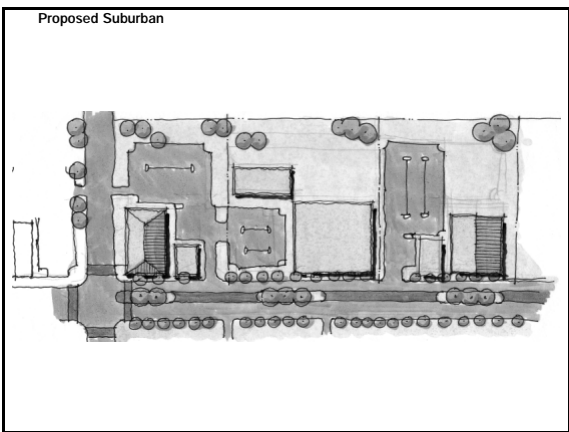
---

---

---

---

---



---

---

---

---

---

---

---

---





New Jersey Department of Transportation

## Transit Village Initiative



---

---

---

---

---

---

---

---

# 14 Criteria for Transit Village Designation

---

---

---

---

---

---

---

---

### 1. Must have a transit stop

- Train
- Bus
- Ferry
- Light rail



---

---

---

---

---

---

---

---

## 2. Opportunity for redevelopment



---

---

---

---

---

---

---

---



---

---

---

---

---

---

---

---

## 3. Adopted zoning and design guidelines for transit-oriented development (TOD)



***Compact, mixed-use, transit-supportive development in a walkable environment.***

---

---

---

---

---

---

---

---



---

---

---

---

---

---

---

---

**4. Increase in housing within walking distance of transit**



---

---

---

---

---

---

---

---

**5. Have the Political Will to Grow**



---

---

---

---

---

---

---

---

## 6. Ready-to-go projects



---

---

---

---

---

---

---

---



## 7. Bike & pedestrian friendliness

Strong links to the transit station

---

---

---

---

---

---

---

---

## 8. Station used as Community Focal Point



---

---

---

---

---

---

---

---

## 9. Station area management



- Plant flowers
- Sweep sidewalks
- Pick up garbage & recycling
- Procedure for litter and graffiti



---

---

---

---

---

---

---

---

## 10. Maximize the appeal of transit



---

---

---

---

---

---

---

---



## 11. Parking handled appropriately

---

---

---

---

---

---

---

---

## 12. Support local arts & culture



The ARTS GUILD OF RAHWAY is a non-profit center for the arts and culture located in downtown Rahway. Our headquarters at 1670 Irving Street at Seminary Avenue is the original Rahway Library, a building rich in history and an ideal site for the arts to flourish. Founded in 1997, the Guild has developed a beautiful 1200 sq ft gallery housing



---

---

---

---

---

---

---

---



## 13. Preservation of historic architecture

---

---

---

---

---

---

---

---



## 14. Consider incorporating affordable housing



---

---

---

---

---

---

---

---



**The 11 State agencies on the  
TRANSIT VILLAGE TASK FORCE  
reward municipalities that meet the criteria**



**...with grants, loans, technical assistance  
or priority funding.**

---

---

---

---

---

---

---

---



**EXAMPLES OF ASSISTANCE**

- Culture & Arts planning (ARTS COUNCIL)
- Assistance for business expansion (COMMERCE COMMISSION)
- Brownfields clean up money (DEP and EDA)
- Low interest mortgages (HMFA and NJ TRANSIT)
- Rehabilitation grants (DCA)
- Planning grants (OSG & TRANSIT)
- Marketing studies (NJ TRANSIT)
- Financing for residential & commercial projects (EDA)

---

---

---

---

---

---

---

---

**NJDOT has awarded approximately \$15 million since 1999**

**BIKE/ PED STUDIES in 2 Transit Villages**

**WAYFINDING in 2 Transit Villages**

**SHUTTLE FUNDING for 2 Transit Villages**

**BIKE PATH CONSTRUCTION in 4 Transit Villages**

**STREETScape IMPROVEMENTS in 14 Transit Villages**

**CIRCULATION STUDIES for 3 Transit Villages**

**DOWNTOWN REVITAL. TRAINING for 8 Transit Villages**

**T.O.D. PLANNING STUDIES for 2 Transit Villages**

**PED. SAFETY IMPROVEMENTS in 2 Transit Villages**



---

---

---

---

---

---

---

---

## 17 Designated Transit Villages

- Pleasantville
- Morristown
- S. Orange
- S. Amboy
- Rutherford
- Riverside
- Rahway
- Metuchen
- Belmar
- Bound Brook
- Bloomfield
- Cranford
- Collingswood
- Matawan
- Jersey City
- New Brunswick
- Netcong

---

---

---

---

---

---

---

---

## Closing thoughts

---

---

---

---

---

---

---

---

### 1. Use your engineering skills ...

Standards and models are just starting points!



### 2. Use the grid!

Don't be afraid to go off system



### 3. If we don't link land use and transportation, both will fail ...

*Carol Murray, Commissioner, NHDOT*

### 4. Produce highways that are safe and efficient for users and acceptable to **nonusers** and the environment ...

*AASHTO Green Book, 1984*

---

---

---

---

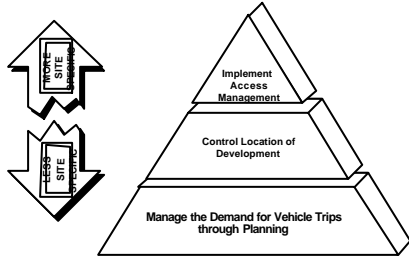
---

---

---

---

**How Can Land Use Measures Break the Cycle?**




---

---

---

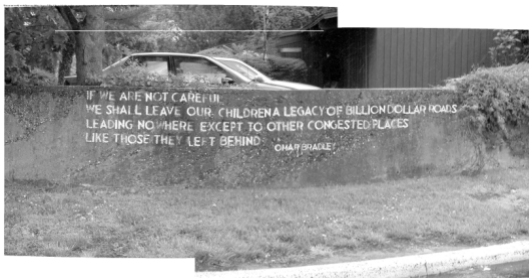
---

---

---

---

---




---

---

---

---

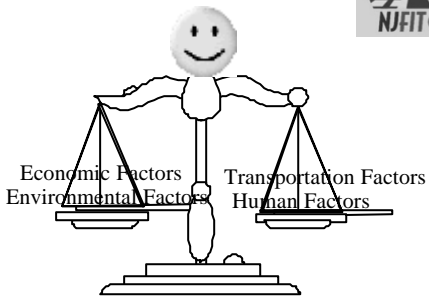
---

---

---

---

**The Desired Result**




---

---

---

---

---

---

---

---



**THE MOST POWERFUL TOOL in the creation of a  
SUCCESSFUL TRANSIT VILLAGE is  
MUNICIPAL ZONING**

---

---

---

---

---

---

---

---



---

---

---

---

---

---

---

---