



# ***Project Design & Development A Culture Change***

Congress for the New Urbanism XV  
May 17, 2007  
Allen Biehler, Secretary of Transportation



# Transportation Program Reassessment March 2004

**26 Projects**  
**\$5 Billion**

-  /Defer
- Re-evaluate

# Pilot Reevaluation Projects

PA 23 – Lancaster County

PA 41 – Chester County

**PA 202 – Bucks County**

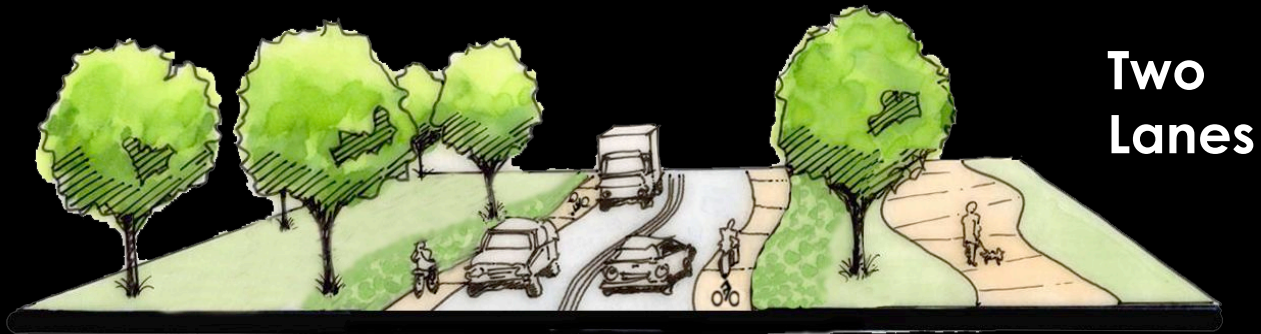




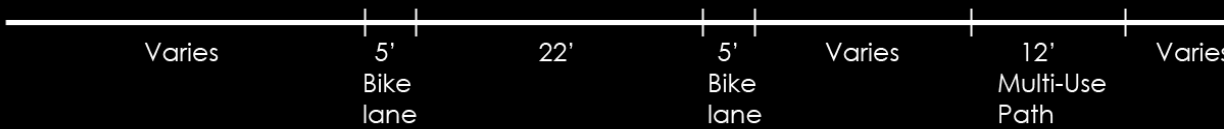
# US 202 Section 700 – Montgomeryville to Doylestown



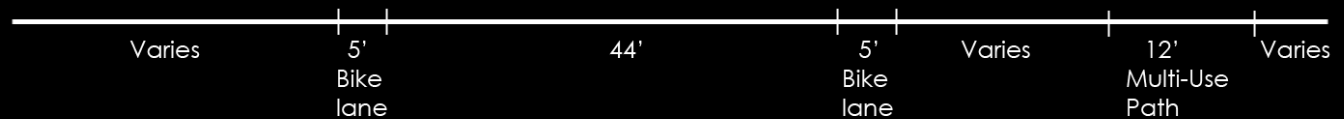
# 202 Cross Sections



Two  
Lanes



Four  
Lanes







-  = Sprawl
-  = Core Towns
-  = In Migration
-  = Out Migration

# Pennsylvania's Diverse Regions

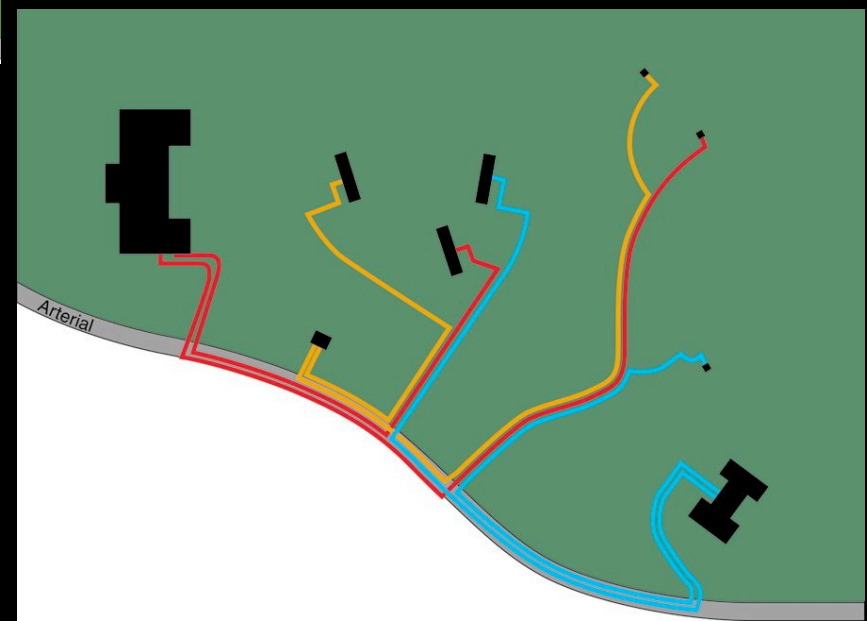
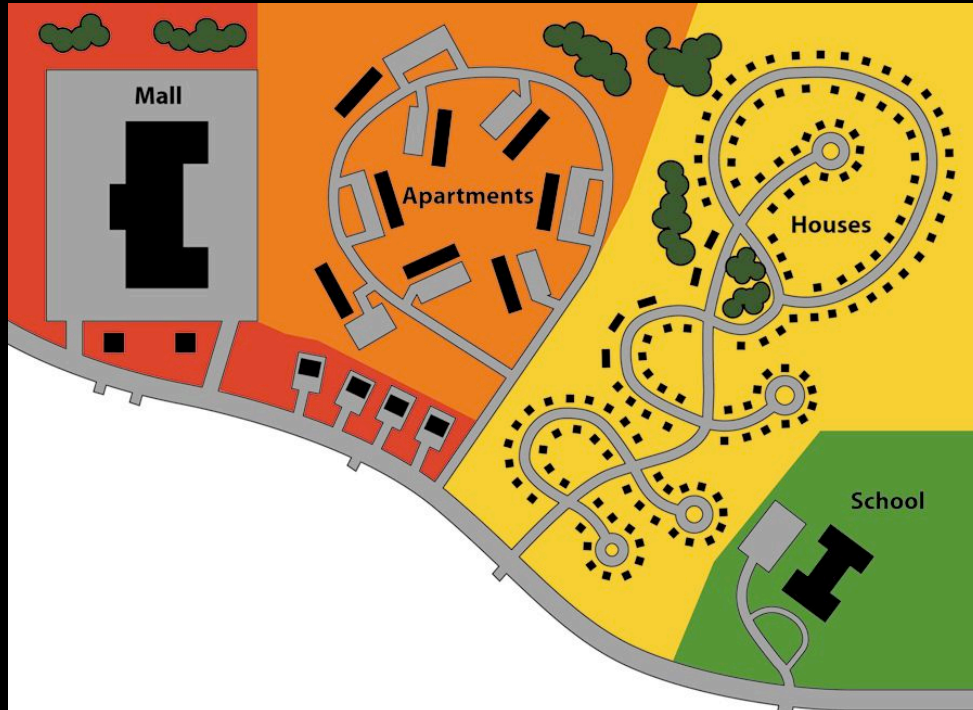


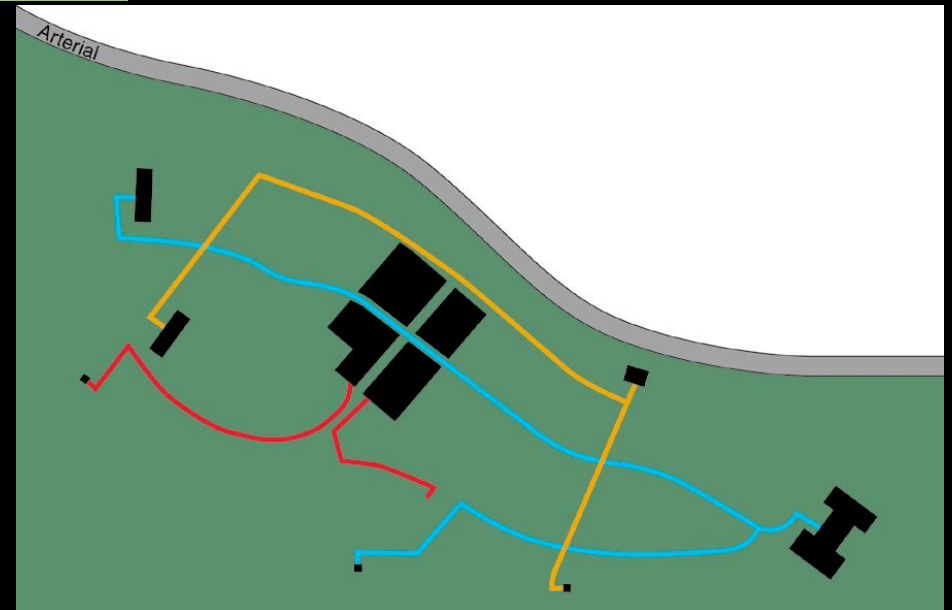
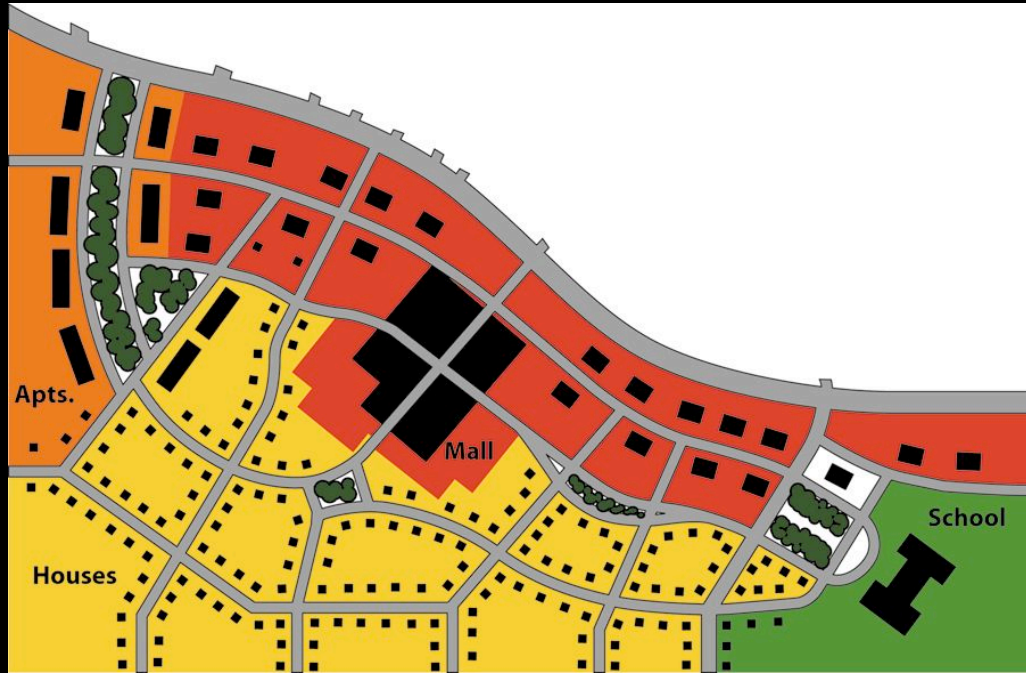
## **Smart Transportation Themes**

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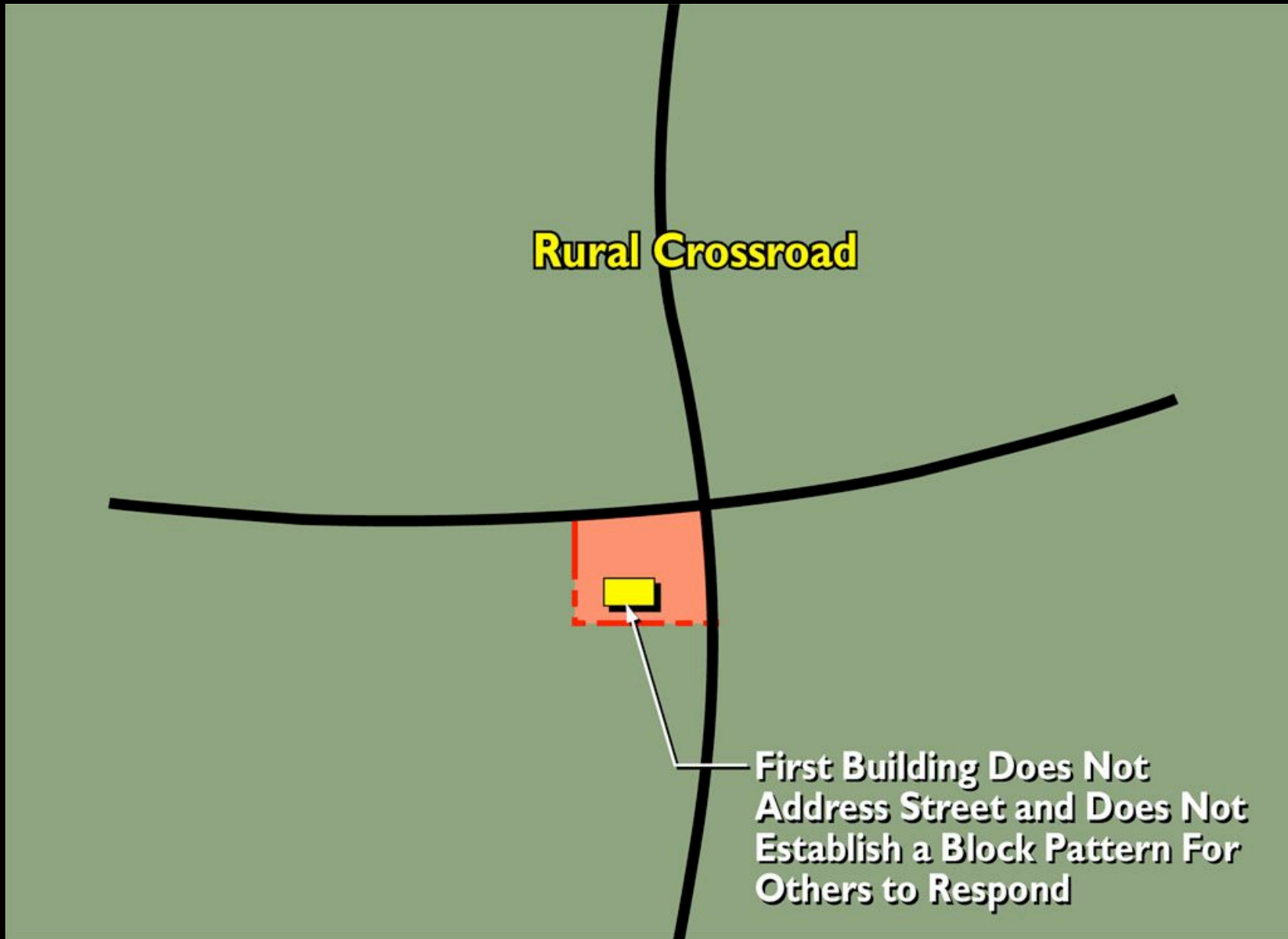
- 1. Money counts**
- 2. Preserve and leverage existing investments**
- 3. Choose projects with high value/price ratio**
- 4. Safety first and maybe safety only**
- 5. Look beyond level-of-service**
- 6. Accommodate all modes of travel**
- 7. Enhance local network**
- 8. Build towns not sprawl**
- 9. Understand the context; plan and design within the context**
- 10. Develop local governments as strong land use partners**







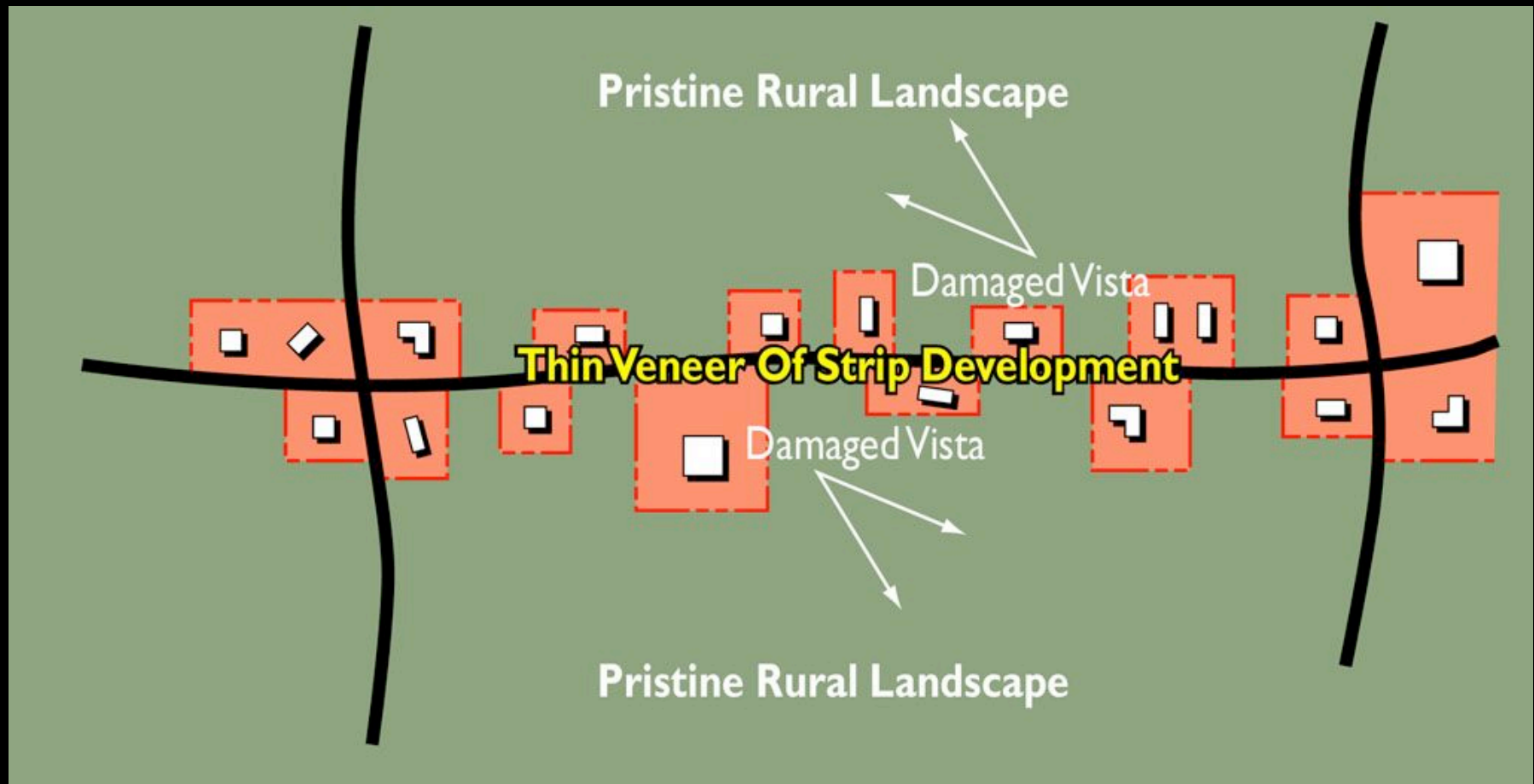
## Street Character – Crossroads



Evolution of a Country Commercial Node

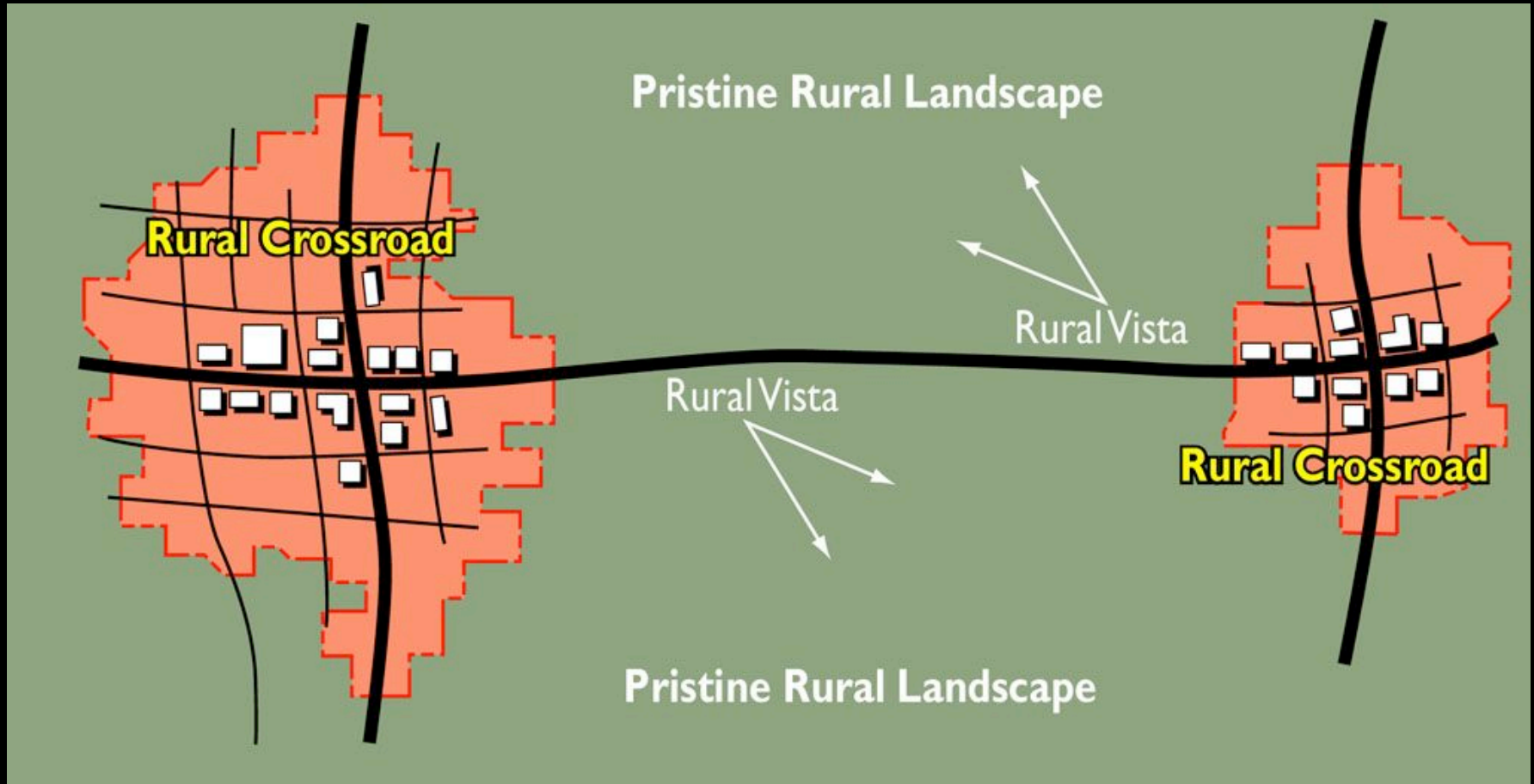


## Lack of Street Network Strings Out Development



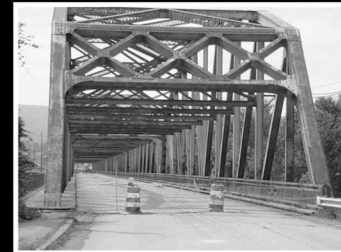
Preserve open space and farmland

## Street Character – Crossroads



Country Crossroads

# Investing in Our Future:



## Addressing Pennsylvania's Transportation Funding Crisis

### COMMISSION FINAL REPORT

Pennsylvania Transportation Funding and Reform Commission



November 2006





# Guiding Principles

- Select reliable, dedicated and inflation sensitive funding sources.
- Make funding level, structure and distribution responsive to performance and needs.

# Guiding Principles

- **Integrate transportation with land use, economic development and environmental policies.**
- Give highest priority to core network.
- Stringent expansion criteria.

# **Context Sensitive Development**

- ISTEA Highlighted CSD - 1991
- AASHTO Green Book - 1994
- National Highway System Designation Act – 1995
- Thinking Beyond the Pavement - 1998



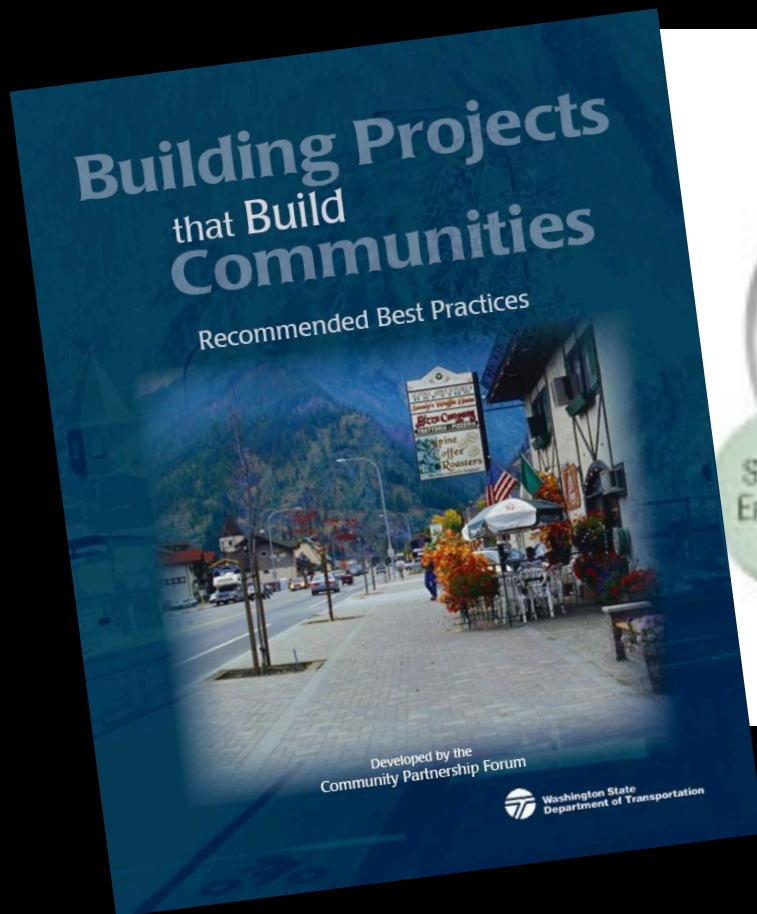
# Context Sensitive Development

- Flexibility in Highway Design - 1998
- AASHTO Guide for Achieving Flexibility in Highway Design - 2004
- SAFETEA-LU - 2005
- AASHTO/FHWA Peer Exchange - 2006

# State Initiatives

- Washington DOT
- Mass Highway
- Minnesota DOT
- Missouri DOT
- Pennsylvania/New Jersey DOTs

# Washington DOT's *Building Projects that Build Community* (2003)



# Mass Highway *Project Development and Design Guidebook (2005)*



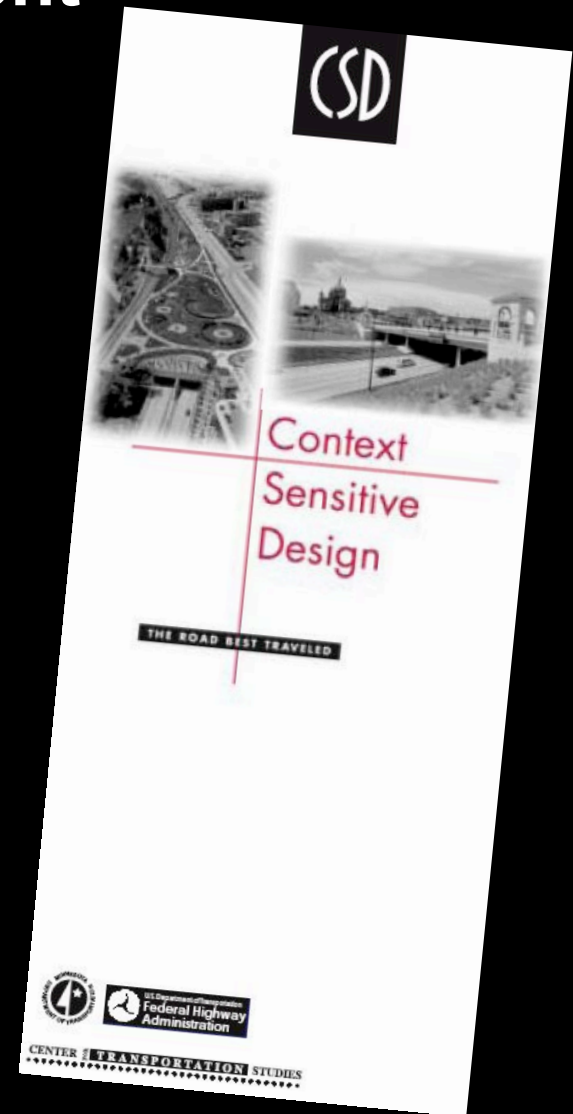
## Chapter 2 Project Development

2 Project Development

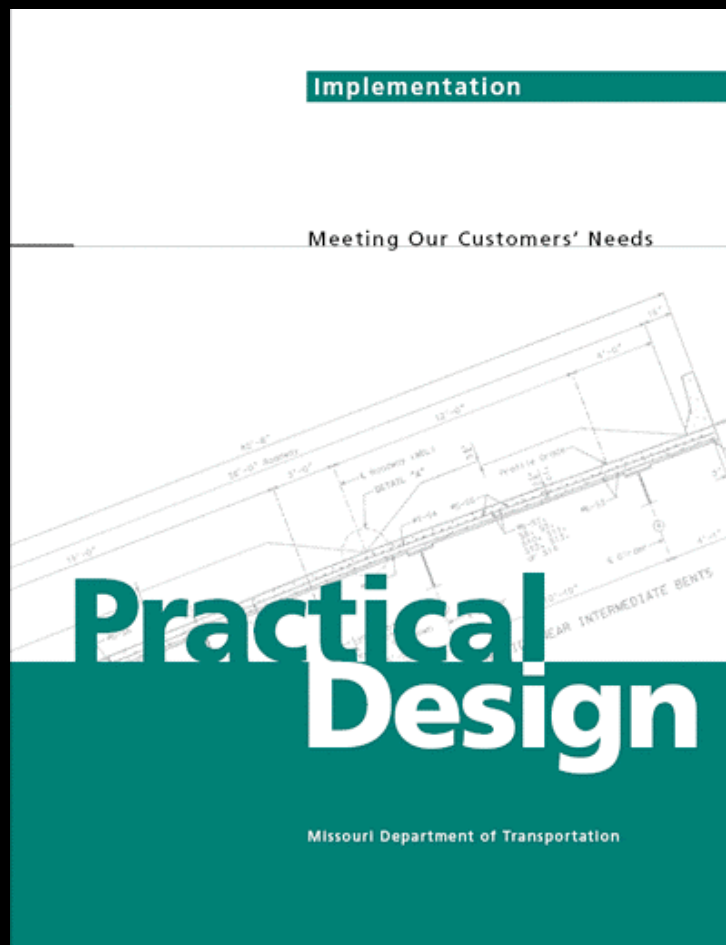




# Minnesota DOT – A Case Study for “Thinking Beyond the Pavement”



# Missouri DOT – “Practical Design”





# Practical Design

Meeting Our Customers' Needs

- Need to be flexible – design only what's needed to solve a problem.
- Must use sound engineering judgment.
- Won't compromise safety.
- Will collaborate on solutions.



# Practical Design

Meeting Our Customers' Needs

- Want good, not great projects.
- Have been too rigid in designing to standards for standards' sake - created a "more is better" mentality.
- Five percent of standards drive 80 percent of costs.

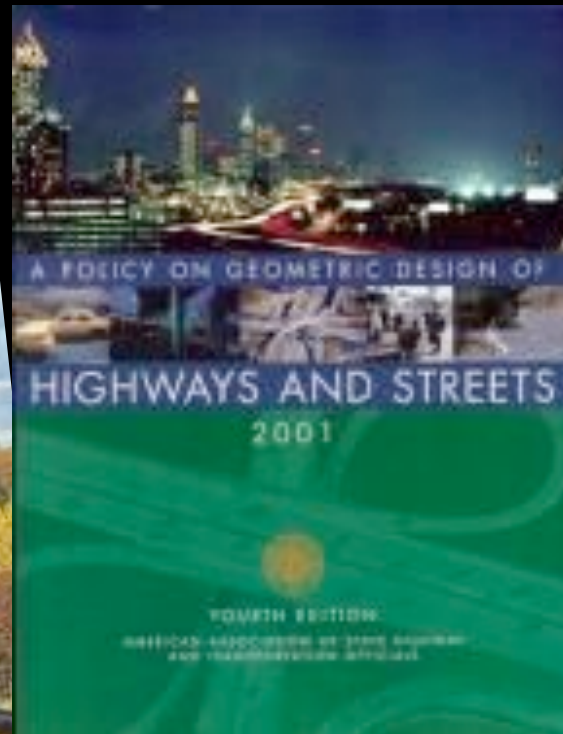
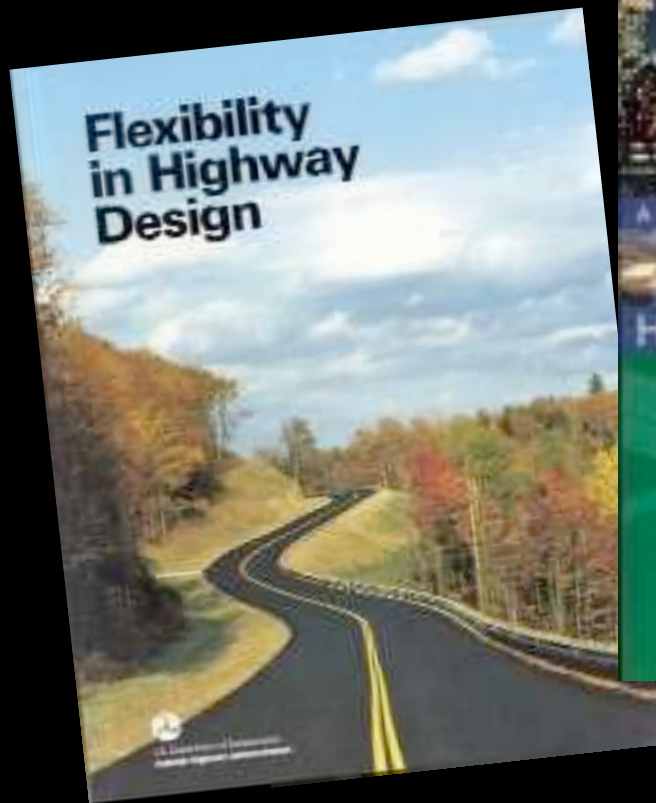


# New Jersey and Pennsylvania DOT

A Guidebook for Smart Transportation Solutions



# Advancing CSS as a Way of Doing Business



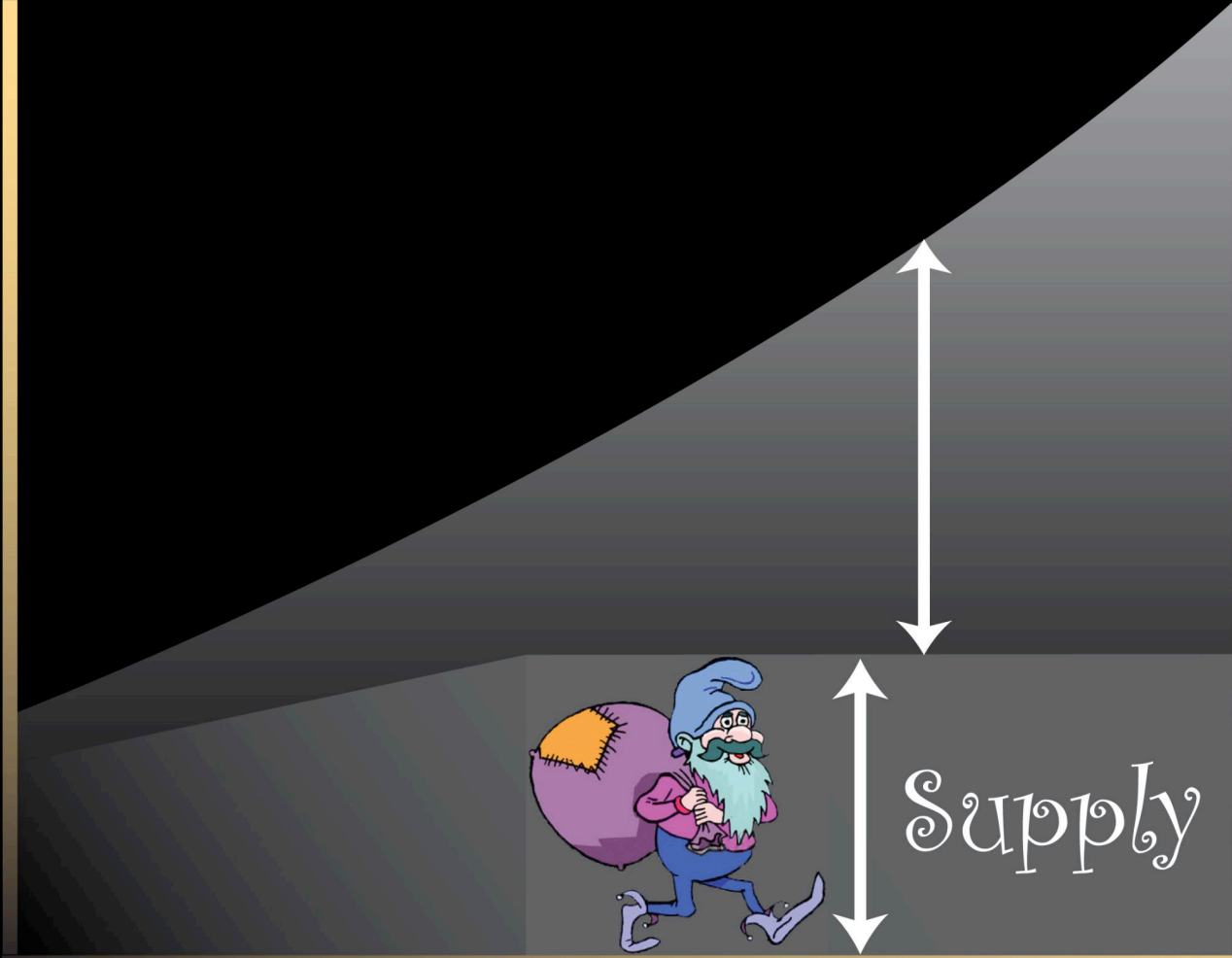
**Demand**



*Supply*



**Demand**



*Supply*



**land use**