

### Using Transportation Dollars to Build Sustainable and Livable Communities





APA Pennsylvania Chapter October 6, 2009

Smart Transportation





"Sustainability must be reflected in all our infrastructure investments...

... it implies a **commitment to** the principles of **livability**...

The era of one-size-fits-all transportation projects must give way to one where **preserving and enhancing unique community characteristics**, be they rural or urban, is a primary mission of our work rather than an afterthought."

> Secretary Ray LaHood, US DOT January 21, 2009

### EPA, HUD, and DOT Partnership on Livability

- 1. Provide more transportation choices
- 2. Promote equitable, affordable housing
- 3. Enhance economic competitiveness
- 4. Support existing communities
- 5. Coordinate and leverage federal policies and investment
- 6. Value communities and neighborhoods



### Partnership on Livability

- Enhance integrated planning and investment. integrate housing, transportation, water infrastructure, and land use planning and investment.
- Redefine housing affordability. Develop housing affordability measures that include housing and transportation costs.
- Redevelop underutilized sites. Target development to locations with infrastructure and transportation choices.
- Develop livability measures and tools.
- Align HUD, DOT, and EPA programs.







- What does Livability mean to you?
- What is your organization doing to work towards Livability?

### What other State DOTs are doing

- Revised Project Process to include more thoughtful Planning Upfront
- Shift to Multi-Modalism
- Emphasis on System Preservation
- Performance Based Programming
- Organizational Change to Increase Planning/ Respond to Emerging Issues







# What is Smart Transportation?

"Smart Transportation is partnering to build great communities for future generations of Pennsylvanians by linking transportation investments and land use planning and decision making."

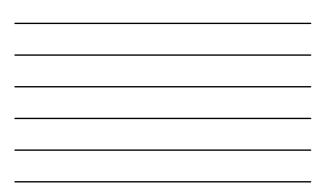
## Smart Transportation is about

- · Partnership with communities
- Linking land use & transportation decisions/investments.

			Tran	sporta	ition	+ Land	d Use	
	Define State Mobility Plan	Develop LRTP	Select TIP Projects	Implement TIP Projects	Negotiate HOP Projects	Develop Comp Plans	Define Zoning & Subdivisions	Inform Land Use
PennDOT Central Office		0						
PennDOT Districts		0						
Other State Agencies	0			0				0
MPO/RPOs	0			0				0
Legislators and Elected Officials		0	0	0			0	
Counties		0	0				0	0
Municipalities		0	0	0				
Development Community			0	0				
General Public				0				
Involved in task	Partially	involved i	n task					







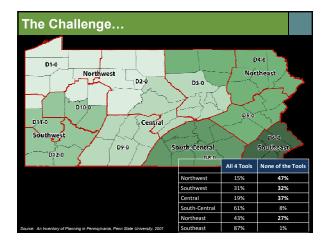
# Between 1990 and 2000.... Developed land in PA increased by 53.6%... But our population only grew 3.4% 1.6 acres were developed for every person added to PA population!

### Four BASIC Land Use Tools

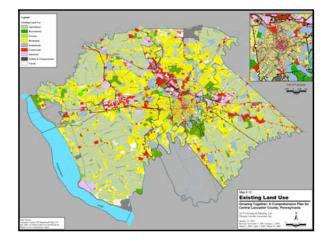
- Comprehensive plans
- Zoning
- Subdivision ordinances
- Planning commissions



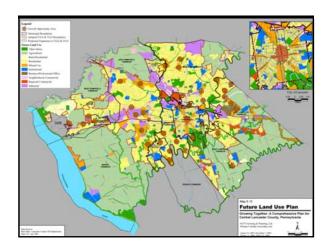




















Route 30, Wayne

Route 30, Ardmore

Both roadways have devoted the same width to travel lanes, but there are important differences











Ordinances can encourage land uses to treat streets as traffic conduits



Or, Ordinances can encourage developments to treat streets as part of a Public Realm

### **Existing Roles**

### PennDOT

- Manage statewide and regional mobility
- Allocate and manage state/federal transportation funds
- Maintain and improve state transportation infrastructure

### MPOs and RPOs

- Help plan and allocate state/federal transportation funds
- Develop transportation plans (LRTP & TIP)

### Local Government

- · Manage local mobility
- Maintain local circulation system
- Manage and control land use and development

### What other Partnering Actions can we take?



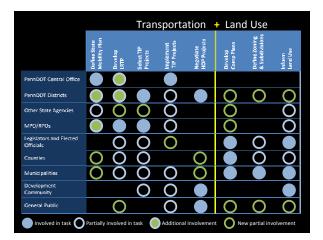
### Partnering Actions

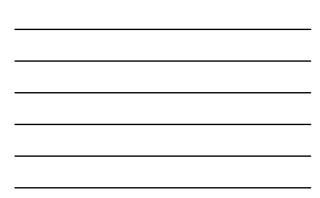
### PennDOT & Planning Partners

- Work with municipalities to understand land development decisions and limitations
- Work together to understand how to manage and maintain existing transportation assets
- Understand local planning and transportation goals and align project alternatives with these goals

### Municipalities

- Make land use decisions based on understanding of long-term transportation impacts and fiscal realities
- Improve local network connectivity
- Adopt ordinances that promote smart transportation (access management, mixed-use, TOD, etc.)
- Promote alternative modes of transportation
- Plan regionally and work with all levels of government



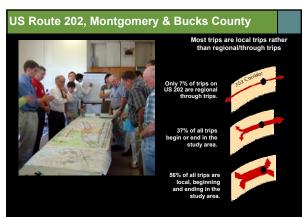




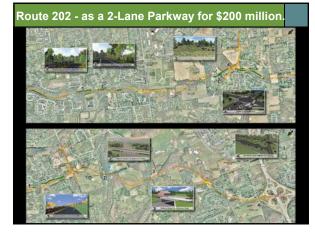
Pennsylvania Community Transportation Initiative						
<ul> <li>Applications received: 403 requesting \$600 million</li> <li>Applications selected: 50 granting \$59.3 million</li> </ul>						
	# of	% of Total	Tot	al Funding for	% of Total	
Type of Project	Selections	Selections	Sel	ected Projects	Funding	
Bicycle/Pedestrian		18%		9,230,405	16%	
Roads/Intersections/Local Network		12%		9,937,000	17%	
Intermodal/Transit-oriented Development	13	26%		14,007,200	24%	
Land Use & Transportation Planning/Redevelopment	13	26%		7,666,500	13%	
	13 8	26% 16%		7,666,500 18,158,887	13% 31%	
Planning/Redevelopment						

### US Route 202, Montgomery & Bucks County





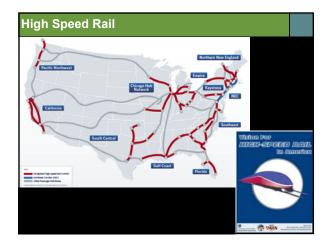
Focus on local leadership and local trips.



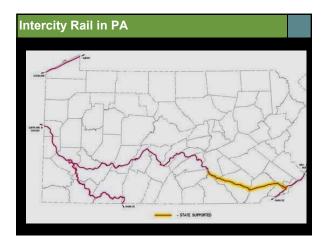
### US Route 202, Montgomery & Bucks County

- From concept to construction in 3 years.
- Gained Community and Advisory Group support.
- Saved \$185 million.



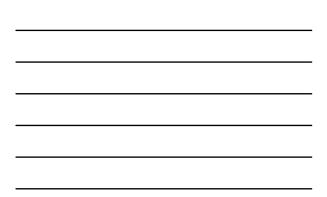














### Queen Street TOD, Lancaster

- Transit-oriented development
- Partnership among Red Rose Transit, Lancaster Museum of Art, the City of Lancaster, and private developer
- Received PCTI Funding from PennDOT, Green roof funding from EPA



### Queen Street TOD, Lancaster

, RRTA

- Redevelopment of parking lot into jointuse development
- Bus hub, Art Museum on ground floor, 350space parking, and residential flats
- Supported by PennDOT through PCTI program
- Construction starting
   soon

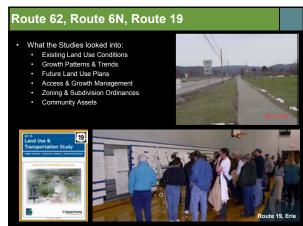


### Route 62, Route 6N, Route 19

- Multiple land use & transportation planning studies
- PennDOT was part of land use decision-making process that will ultimately dictate transportation needs



Route 62, Warre



Route 62, Warren; and Rou	ite 6N, Edink	ooro
	PEOS   Provide the state of the	CONS - Modernit community and environmental impacts. - Modernit Constructions / rightind registrations - Directions to molecular Any Corean Real acceled in acceptable rights and mide-stored spirations
		Route 6N, Edinbo













Implementing Smart Transportation

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## Implementing Smart Transportation

- 1 Increasing Partnership Efforts
- 2 Changing the Rules
- 3 Changing the Decision Making Processes

### 1. Increasing Partnership Efforts

- Sharing Smart Transportation message
- Strategic discussions with partner agencies and organizations and local municipalities
- Outreach activities and interactive workshops with local officials and professionals

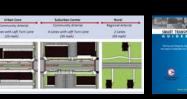


### 2. Changing the Rules

# Smart Transportation Guidebook (incorporated with Design Manual 2)

- Use flexible design on all projects
  Increase coordination with local municipalities
  Link existing and future land use contexts and
- roadway design valuesDesign to a desired operating speed



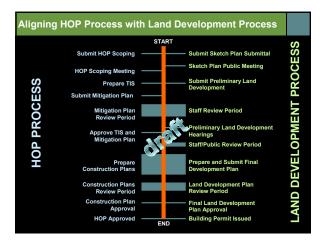


### 2. Changing the Rules

### **Revised HOP Guidelines**

- Consistency with Smart Transportation Guidebook
- Local coordination throughout process
- Mitigation applied with consistency across the state
- Alternative mitigation strategies including local network, transit, TDM
- · Predictable timelines for approval



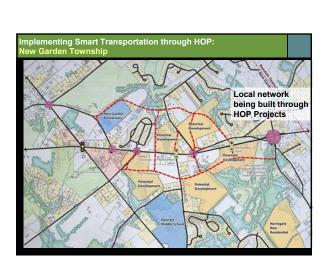




### Alternative Mitigation Strategies

- · Vehicular trip credits awarded for
  - Sidewalks and bicycle lanes
  - Employer trip reduction program
  - Transit services
- Improvements on alternate routes
- Access management plans
- Must be implementable and funded
- Cost to developer equivalent to conventional mitigation





### Implementing Smart Transportation through HOP: Lancaster YMCA

- TIS Requirements in Lancaster SALDO: Development shall "promote pedestrian, bicycle and mass transit access to the site"
- Original plan for YMCA: Principal entrance was off
  parking lot to rear, with emergency exit on front of building
- Revised plan:
  - Main entrance on Harrisburg Pike
  - 'Window walls' on
  - work-out room – Bus pull-out on Harrisburg Pike



### 3. Changing the Decision-Making Processes

### Revised Project Delivery Process

•Including partners in the development of new process- Municipalities, MPOs/RPOs, Resource Agencies

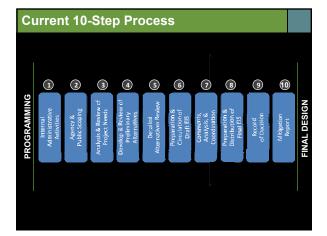
•Emphasis on planning

•Organizational changes to respond to new focus

•Link Mobility Plan, LRTPs and TIPs – and reduce delivery times

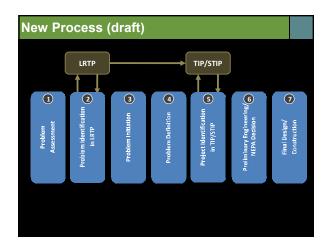
•Develop Smart Transportation selection criteria for TIPs & LRTPs

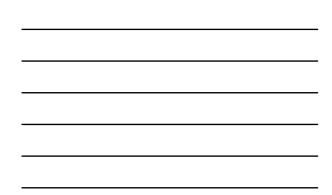


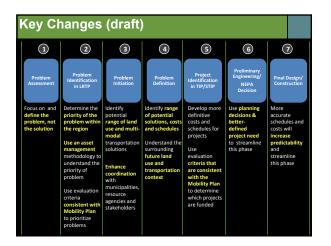














Example: Moderate Roadway Project							
Existing Process = 4 years							
	30%						
PE Final Design ROW Construction Programming – 1% Planning – 1% New Process = 2.5 years							
15%			5%				
Planning	PE Programming –	Final Design	ROW		Construction		



- 1. What Smart Transportation activities are you doing already?
- **2. How else can we help** you implement Smart Transportation?
- 3. What role can APA do to help?

