Community Driven Engagement in Transportation Decisions: A Livability Study in the District of Columbia

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Livability applied to transportation planning

- Looks beyond traffic service function
- Focuses on all users of streets & the network
- Recognizes transportation facilities and services affect community life
 - Economic Opportunity
 - Public health
 - Housing
 - Cultural resources
 - Natural environments
- Treats streets as public places
 - Safe Passages
 - Sustainable Living
 - Prosperous Places

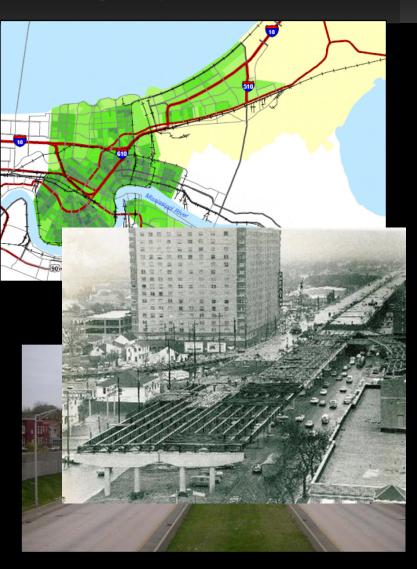






Interstate Highway System Legacy

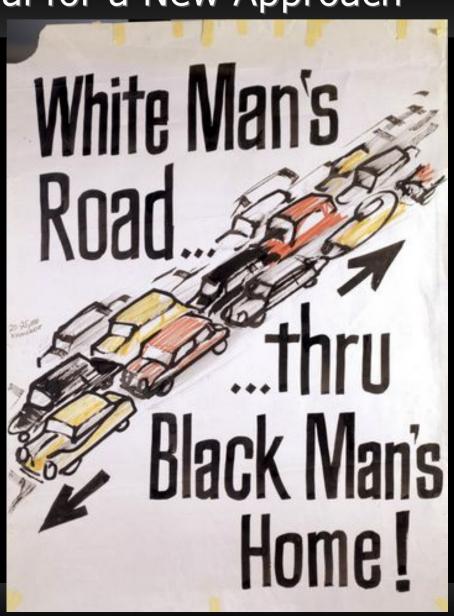
- Interstate Highway & Defense Act of 1956
 - 41,000 miles limited access highway arterial
 - 1956 1972 largely complete
 - 90% federally funded
- Designed to evacuate central cities; the focus of metropolitan economies and people
 - Laid out "circum-linear concentration"
 - Fragmented neighborhoods
 - Through least expensive land; low lying areas, farm land





Livability: The Potential for a New Approach

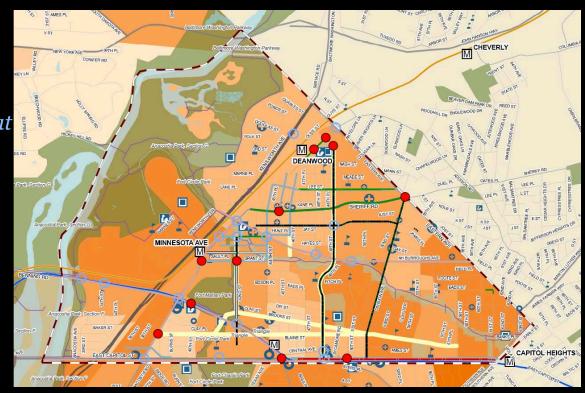
- Displacement fears
 - Emergency Committee on the Transportation Crisis (ECTC)
 - Gentrification priced out renting families elsewhere
- Mixed track record of successful public projects
 - 4 Metrorail stations...
 - Cut less expensive bus service forcing a transfer
- High transportation need
 - 40% HH transit dependent
 - Few goods & services
- Structure of civic and neighborhood organization
 - ANCs & Civic Associations





The Far Northeast Livability Study Area

- 3.5 Square Miles
- 12 Neighborhoods
- Significant commuter oriented transit available
 - Two Metrorail routes with 4 stations
 - High frequency bus service
 - Streetcar planned on 2 "Great Streets" corridors with redevelopment envisioned
- Half of Ward 7's 70,000 residents
 - 13% of households are subsidized
 - 23% of city's public housing residents
 - 14% are seniors



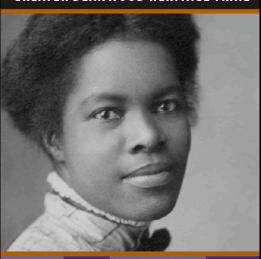


Goals of FNE Planning Process

- Provides two-way education
 - Agency gains more complete picture of issues
 - Community learns how the agency makes decisions, what solutions can solve problems
- Clear project benchmarks
 - All know what decisions will be made when
- Offers flexibility and creativity
 - Activities tailored to community needs
 - Timeline to fit communication needs
- Supports an effective standing community advisory committee
 - An extension of the technical team
 - Creates organization for ongoing monitoring
 - Offers leadership potential to residents
 - Extends to other community-based needs

A Self-Reliant People

GREATER DEANWOOD HERITAGE TRAIL



Long a country town at the edge of Washington, DC's urban center, Greater Deanwood rose from former slave plantations. It became one of Washington's earliest predominantly African American communities. Follow this trail to meet the individuals who forged this oasis of self-determination and discover the hand-crafted dwellings, parkland, families, and institutions they created.



Livability Community Outreach Advisors

- Recently active in community planning
 - Over 35 recent planning efforts
- Represent full range of community geography, values and interests
 - History
 - Clean, Green & Safe Initiatives
 Senior & Neighborhood Issues
 Bicyclists & Transit riders
- Willing & committed to serve *As outreach advisors*

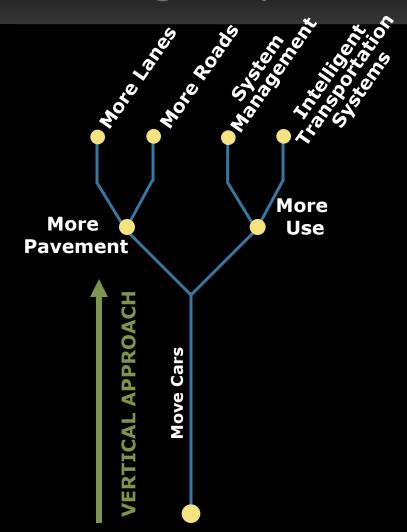
 - To be identified with the process
 As eyes & ears in the community
- Track record of effective outreach
 - ANC & Civic Associations
 - Bloggers & Activists
- Engaged in community projects



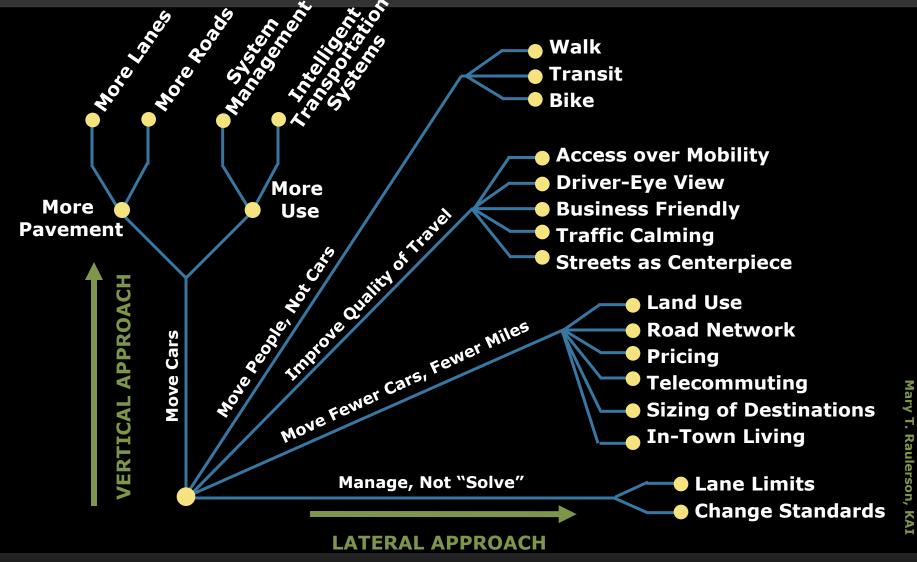




Defining the problem: the tradition approach

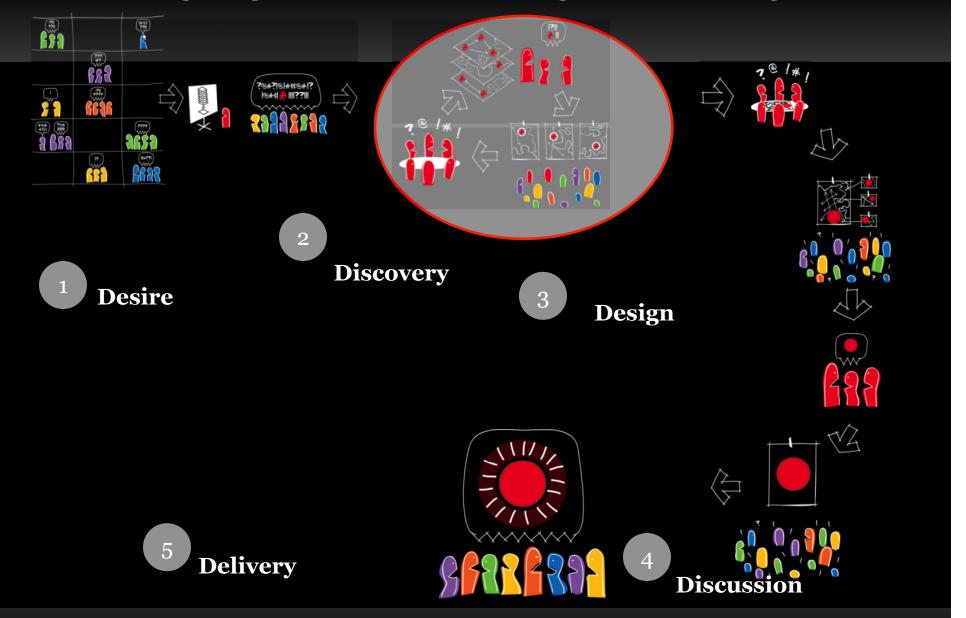


gives way to more comprehensive solutions





Designing & Communicating the Planning Process





Phase 1: Desire

- Establishes Project Focus
- Learn issues
- Identify opportunities
- Confirm project goals and measures of effectiveness.



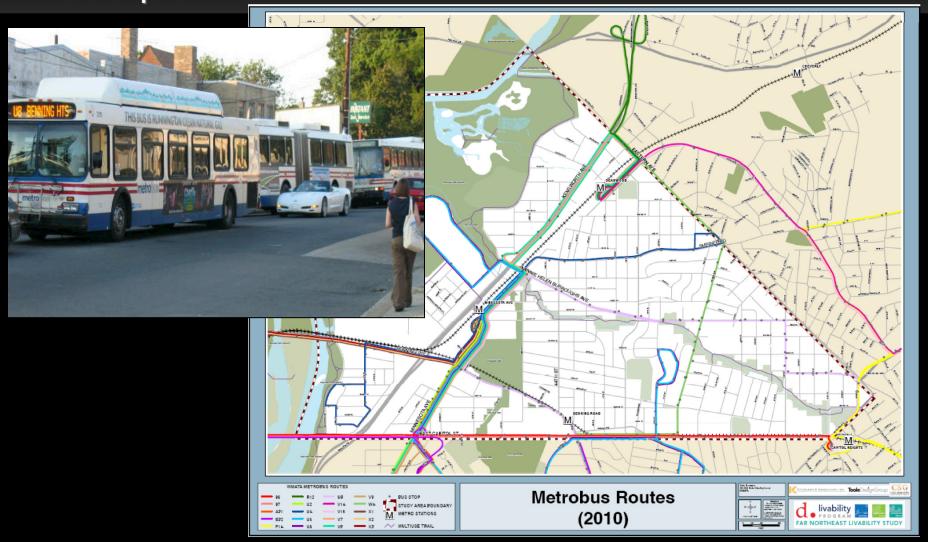




Important destinations nearby and beyond

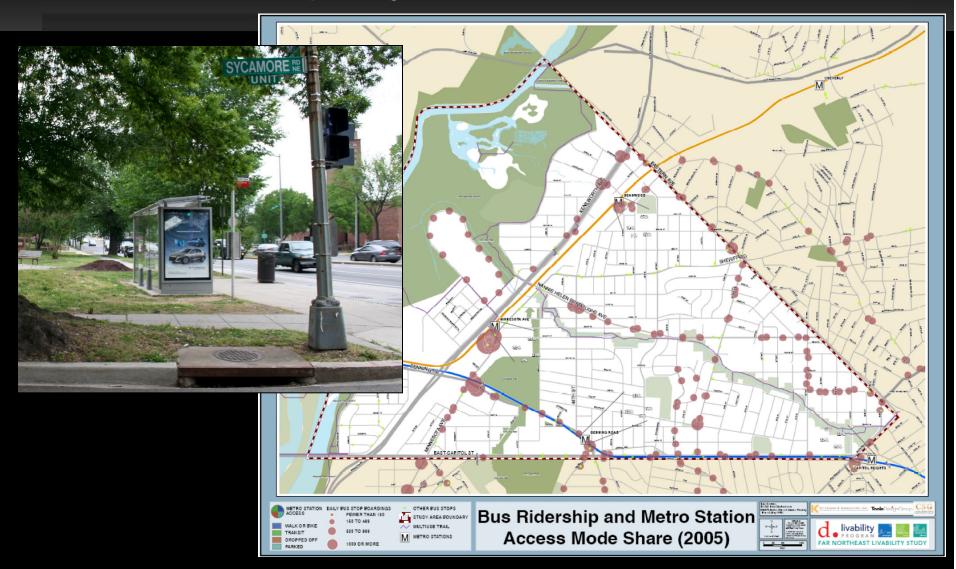


Transit connections: What's available now and what's planned





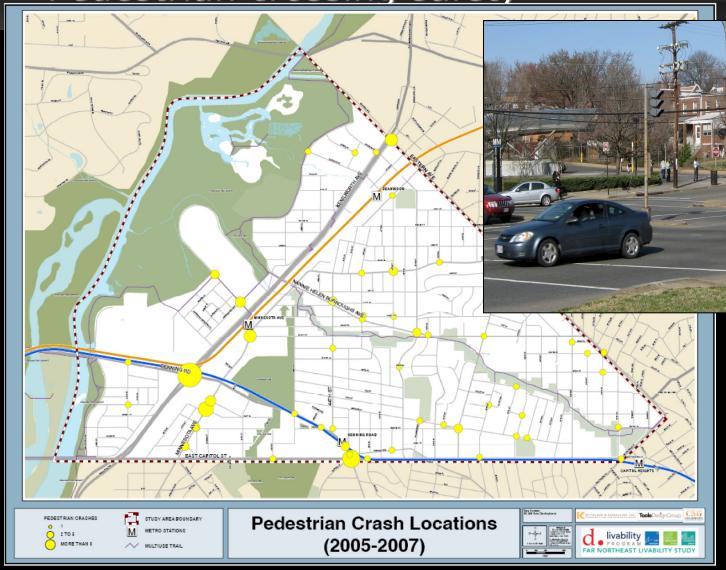
Transit access, stops conditions & demand



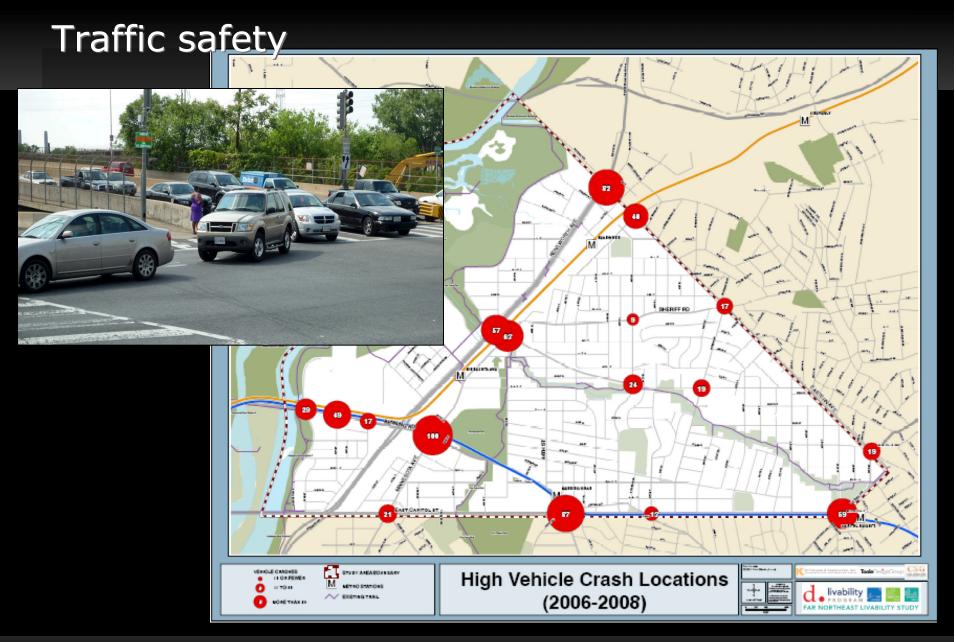
Sidewalks, crosswalks & other pedestrian accommodation



Pedestrian crossing safety



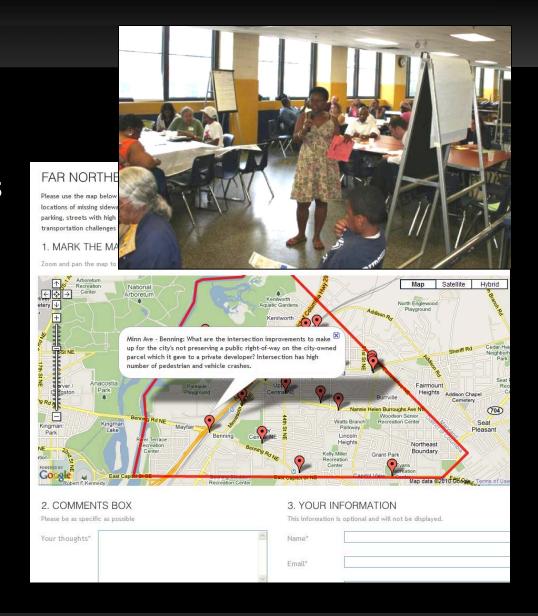






Expressed concerns

- Inadequate Bus stops
- Late & crowded buses
- Needed bus connections within the Ward
- High speeds on major neighborhood corridors
- Cut through traffic local streets
- Many intersections unsafe for pedestrians
- Lack of bicycle facilities





Phase 2: Discovery

- Do Our Homework
 - Review previous plans
- Develop an accurate picture of the area's existing conditions
 - physical
 - transportation
 - land use









What we found

- Limited connections across the river funnel traffic onto a few primary streets
- Key pinch points filter problems back through neighborhood streets
- Intersection & street design prioritizes auto rather than walking, bicycling & transit

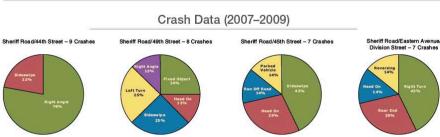




CORRIDOR LOCATIONS

Sheriff Road/Lee Street/Jay Street - 44th Street/45th Street/46th Street















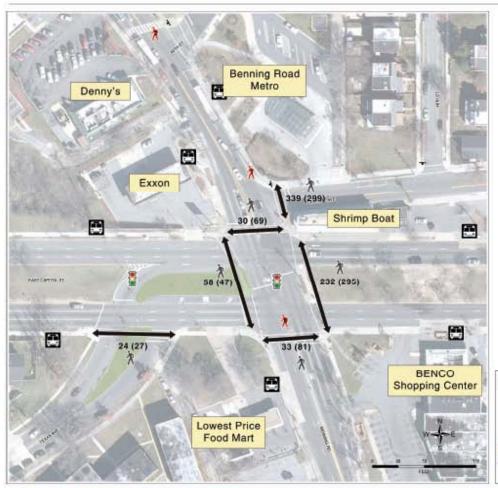




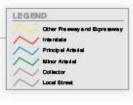


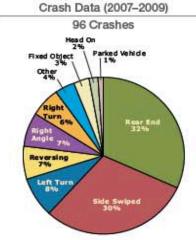
Intersection Locations

Benning Road/E. Capitol Street/Central Avenue/Texas Avenue



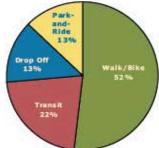
























Phase 3: Design

- Develop the Plan Together
- Informed by multiple disciplines & experiences
 - DOT Staff present
- An open public format
 - Community leaders host
- Education tools & techniques



Solutions Toolbox: Crossing Treatments



In-Street "Yield for Pedestrians" Signs Signs placed in the middle of crosseals to increase driver awareness to yield right-of-way to pedestrians in crosseals.

ADVANTAGES

CHALLENGES

LOCATION TYP

**Lined to other, notificate, not given in the crosswift high residences the right and to pendentries in the crosswift flexible sizes to the sizes to the consent flexible sizes to the consent flexible sizes to the consent flexible sizes to the sizes to the consent flexible sizes to the sizes



High Visibility Crosswalks

Clear, reflective roadway markings and accompanying devices at intersections and priority pedestrian lin

ADVANTAGES	CHALLENGES	LOCATION TYPE
Warra motorists of potential for podestrians Designates a preferred location for podestrians DC Law requires motorists to stop for podestrians in crosswalks	 Most effective with other traffic control (signals, stop signs) or physical treatments (bulb outs) that help to reinfonce crosswalss and support reduced vehicle speeds. Motorists may ignore 	 All intersections and preferred mid-block crossing locations



Raised Crosswalk

A pedestrian crossing area raised higher to give motorists and pedestrians a better view of the crossing

ADVANTAGES	CHALLENGES	LOCATION TYPE		
 Provides better view for pedestrians and motorists 	 Can be difficult to navigate for large trucks, buses, and 	Areas with high speeds and or difficulty crossing street		
 Slows motorists travel speeds 	snow plows	San Carlotte Charles Constitution of the		
Broad application on both arterial & collector streets				

CORRIDOR TREATMENTS

- 1. Select your top five (5) focus locations in order of your preference.
- 2. Check the type of treatment that you prefer and note any specific treatments.
- 3. Add any locations that are missing in the blank rows. Your Solutions Toolbox can help to clarify

			Crossing Treatment uncontrolled cross	rts sings)	High Yehida Speed Treatments			High Traffic Volume Treatments	
Priority Location	Focus Locations: Corridors	Paint/Favement Markings: In-Street "Held" for Pedeshion Spon, High Vishility Crosswells, Painted Median, etc.	Raised Street Elements: Raised Cressumlis, Curb Extension, Raised Median Islands/ Pudaction Raised Area	Padestrian Activated Restring Lights: Expid Flesh Besteams, Folianthian Hybrid Signal (HAWK)	Travel Lanes: Reduce # of Travel Lanes, Reduce Size of Travel Lanes, Mode Parking Personner!	Raised Pavarrant Rumble Strips, Speed Humps, Speed Bumps, Speed Tables	Street Name usings: Chicone, Orcher, Bullo Out, Traffic Circle, Raised Intersection, Reduced Outb Radio (i.e., sharper curves)	Road Clasures: Half Clasure, Diagonal Diverte Fasced Tum, Median Berter, full Clasure	
	Example Corridor #1			Pedestrion Hybrid Signal (HAWK)	Reduce # of Travel Lanes	Speed Tble		Forced Turn	
	Example Corridor #2	In-Street "Tield" for Ped Signs	Rosed Medion/Ped Refuge Area				Choker, Troffic Circle		
	Sheriff Road								
	49th Street								
	Division Avenue								
	Jay Street								
	Lee Street								
	Hunt PI/Hayes St/Gault PI/Grant Street								
	44th St/45th St/46th Street								
	42nd Street								
	Ames Street								
	E. Copital Street								
			Progran	med DDO	T Design P	rojects			
	Minnesofa Avenue	High Visibility Crosswolks	Raised Median Islands/ Pedestrian Refuge Areas, Curb Extensions		Reduce Travel larner (routh of Benning Rd)			Reduced Curb Radii	
	Nannie Helen Burroughs Avenus	High Visibility Crossworks	Roised Medion Islands/ Pedestrion Refuge Areas, Curb Extensions		Reduce # of Travel Lanes			Reduced Curb Radii	
	Benning Road	High Visibility Crosswolks	Roled Medion Islands/ Pedestrian Refuge A reas, Curb					Reduced Curb	

rm of a bulb), usually at an intersection, that ssing distance for pedestrians.

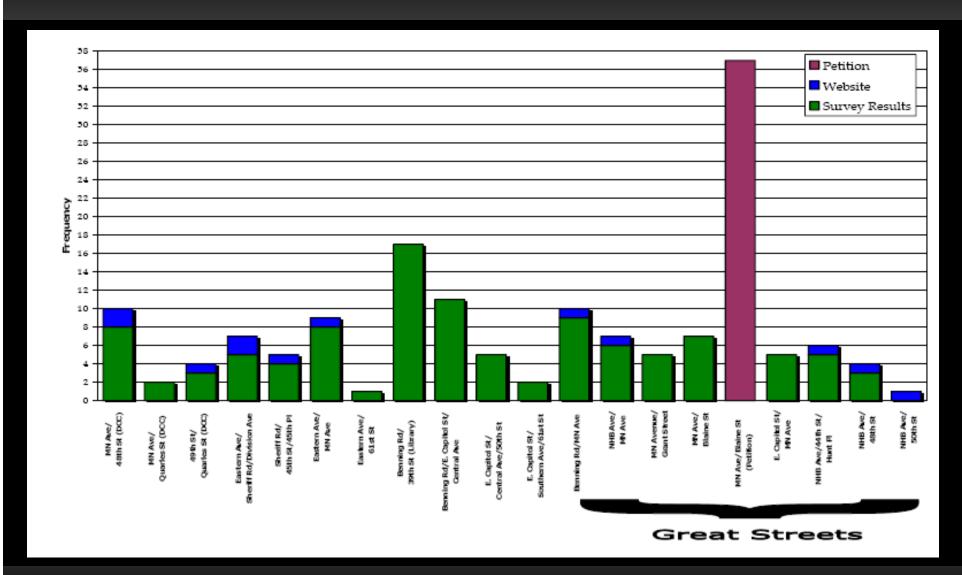
ES LOCATION TYPE

* Streets with on street parking parking to install smalls.





What matters to participating residents?





Establishing Priority Corridors

	Corridor	Safety/ Crashes	Pedestrian Generators	Traffic Calming	Pedestrian Facilities	Bicycle Facilities	Speeds	Volume	Community Comments	
		Score								
1	Sheriff Road				0		1	0		
2	49th Street	1				1	1	0		
3	Grant Street	1		0	1	1	-	1	1	
4	Division Avenue	1	•		0		1	0	1	
5	Hunt Place	1	0	0			0	1	1	
6	42nd Street	-	•		1	1	-		0	
7	44th Street	1	0		0			1	0	
8	Gault Place	-		0		0	-	1	1	
9	Hayes Street	-		0		0	-	1	1	
10	Jay Street	-	0	0			-	1	-	
11	Lee Street	-	0	0	1	0	0	1	-	
Great Str	Great Streets/DDOT Project Corridors									
1	Minnesota Avenue							1		
2	E. Capitol Street							0		
3	Benning Road						0	0	0	
4	Nannie Helen Burroughs Ave	0						0	0	

No Priority

OLow

Medium

Hiah

Safety/Crashes – total pedestrian crashes relative to corridor length

Pedestrian Generators – estimated pedestrian activity from transit stops, schools, churches, retail, etc.

Traffic Calming - presence of existing traffic calming (lower priority) or lack of calming features (high priority)

Pedestrian Facilities - missing sidewalks and/or infrequent crossing opportunities

Bicycle Facilities – level of service for bicycles (based on vehicle speeds, traffic volume, and width of outside travel lane)

Speeds – 85th percentile vehicle speeds along the corridor relative to posted speed limit

Volume – daily traffic volumes relative to roadway's functional classification

Community Comments - number of comments received at public meetings and on project website



Example: Sheriff Road

- Community Concerns (High)
 - 16 (survey and website) comments
- Safety/Crashes (Medium)
 - 5 pedestrian crashes 2007-2009
- Pedestrian Generators (High)
 - 1,835 estimated pedestrians per day
- Traffic Speeds (Med)
 - 6 mph over posted speed (85%ile)
- Traffic Volumes (Med)
 - Within minor arterial threshold; limited cut-through traffic
- Bicycle Facilities (High)
 - High speeds with limited outside lane width
- Traffic Calming (High)
 - No existing traffic calming





Establishing Priority Intersections

	Intersection	Safety/ Crashes	Pedestrian Generators	Geometry	Pedestrian Facilities	Operations	Community Comments	
		Score						
1	Benning Rd/E. Capitol St/Central Ave				0			
2	Benning Rd/39th St (Benning Branch Library)					-		
3	Minnesota Ave/48th St (Deanwood Community Center/Metro)	-				-		
4	E. Capitol St/Central Ave/50th St			1	1	-	1	
5	Eastern Ave/Minnesota Ave				0	-		
6	Eastern Ave/Sheriff Rd/Division Ave				0	0		
7	Sheriff Rd/45th St/45th Pl	0		0		0		
8	49th St/Quarles St (Deanwood Community Center)	-		0		-	0	
9	Minnesota Ave/Quarles St (Deanwood Community Center)			1	0	-	0	
10	E. Capitol St/Southern Ave/61st St		0		0	-	0	
11	Eastern Ave/61st St/Eads St		0			-	0	
Great Sti	reets/DDOT Project Intersections							
1	Benning Rd/Minnesota Ave				0			
2	Nannie Helen Burroughs Ave/Minnesota Ave					1		
3	Minnesota Ave/Grant St	0						
4	Minnesota Ave/Blaine St					-		
5	Nannie Helen Burroughs Ave/44th St				0			
6	Nannie Helen Burroughs Ave/50th St			0		-	0	
7	Nannie Helen Burroughs Ave/48th St		0	1	0	-	0	
8	E. Capitol St/Minnesota Ave	0		=.	-	-		

No Priority

OLow

Medium

High

Safety/Crashes - total pedestrian crashes at intersection

Pedestrian Generators – estimated pedestrian activity from transit stops, schools, churches, retail, etc.

Geometry - long pedestrian crossing distances at intersection

Pedestrian Facilities - missing crosswalks on one or more legs of intersection

Operations - inadequate pedestrian crossing time, long vehicle queues, or congested traffic conditions

Community Comments - number of comments received at public meetings and on project website



Example - E. Capitol St/Benning Rd

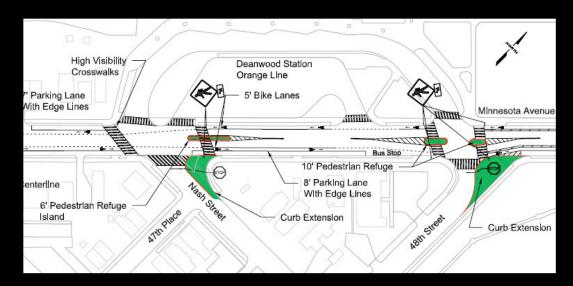
- Community Concerns (High)
 - 11 survey and website comments
- Safety/Crashes (High)
 - 62 total crashes from 2007-2009
- Pedestrian Generators (High)
 - 2,358 estimated pedestrians per day
- Intersection Geometry (High)
 - Average of 75 feet to cross the street
- Pedestrian Facilities (Low)
 - Marked crossings on each leg with pedestrian refuge
- Intersection Operations (High)
 - Capacity and queuing issues; limited pedestrian crossing time



Phase 4: Discussion

- Test and refine solutions that are
 - buildable
 - fundable
 - consent-driven.



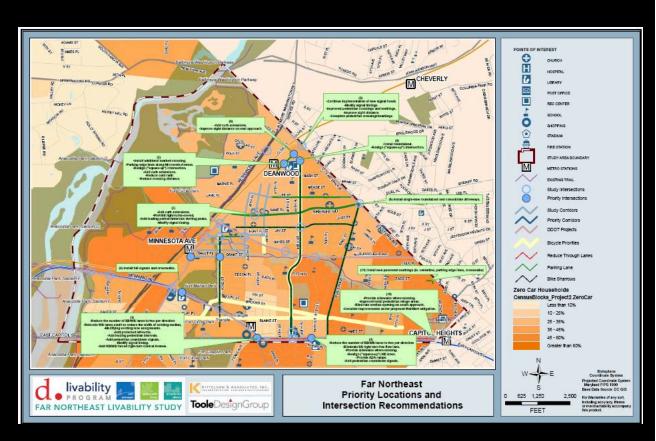




Phase 5: Documentation

Blueprint for action

- Projects
- Performance measures
- For both sides of the partnership
 - Agency leads
 - LivabilityCommunity OutreachAdvisor Partners





Postscript



Thank You

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Department of Transportation The Evolution of Planning through the Decades



1916 - US Bureau of Public Roads

1956 - Federal-Aid Highway Act

1962 - Federal Highway Act Amendments

 Mandate for Long Range Transportation Planning: 3 C's of Planning: Cooperative, Continuing and Comprehensive

1964 – Urban Mass Transportation Act & Housing Act

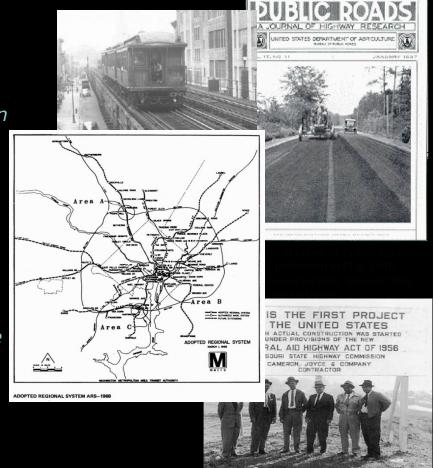
1966 – US Department of Transportation

1970 – Urban Mass Transportation Assistance Act

> Requirement for public hearings on the economic, social and environmental impacts of proposed projects

1973 - Federal -Aid Highway Act

Required MPO's is all urban areas





Department of Transportation The Evolution of Planning through the Decades



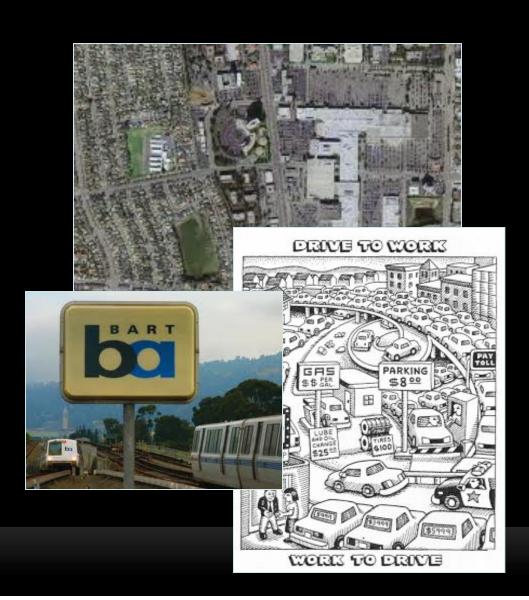
1970's – New Rail Systems

- Washington, DC
- > Atlanta, Georgia
- Cleveland, Ohio
- San Francisco, California

1980's - Suburban Economy

- > Traffic
- Congestion
- > Shopping Malls
- > Suburban Job Growth
- > Sprawl





Department of Transportation 20 Years of Livability Initiatives





al Surface Transportation Efficiency Act (ISTEA)

- Surface Transportation Program (STP)
- Congestion Mitigation and Air Quality (CMAQ)
- Federal Highway Administration (FHWA)
 Transportation Enhancements
 (TE)Program
- Federal Transit Administration's (FTA) Livable Communities Initiative

1998 - TEA-21



2005 - SAFETEA-LU





Department of Transportation 20 Years of Livability Initiatives



2009 - American Recovery & Reinvestment Act

- > Transit Investment Generating Economic Recovery (TIGER I)
- Over \$48 Billion in Transportation Recovery Act Funds
 - √ \$27.5 billion for highway and bridge construction projects;
 - √ \$8 billion for intercity passenger rail projects and rail congestion grants;
 - √ \$6.9 billion for new equipment for public transit projects;
 - √ \$1.5 billion for surface transportation discretionary grant projects;
 - √ \$750 million for new public rail and fixed guideway transportation systems.

2010 - TIGER II

- \$600 million surface transportation discretionary grant projects
 - \$35 million for Planning & Preparation

2011 – TIGER III

- \$526.955 million surface transportation discretionary grant projects
 - National Infrastructure Investments



USDOT



Department of Transportation 20 Years of Livability Initiatives







U.S. DEPARTMENT OF TRANSPORTATION

2011 – Livability Expansion Initiative under the Sustainable Communities Partnership

 \blacktriangleright \$175 million from DOT

2010 - FTA Sustainability Initiative

- > \$81 million Clean Fuels Grant Program
- \$75 million Transit Investment in Greenhouse Gas and Energy Reduction (TIGGER) III Program

2011 - FTA Sustainability Initiative

- > \$51.5 million Clean Fuels Grant Program
- \$49.9 million Transit Investment in Greenhouse Gas and Energy Reduction (TIGGER) III Program
- > \$750 million State of Good Repair Initiative



What we'll cover

- The value of meaningful public engagement in transportation
- Its history: the role of NEPA
- Current trends & techniques
- Livability Planning Approach
- DC's Far Northeast Livability Study
 - Organizing outreach & communications
 - Identifying concerns, issues & opportunities
 - Designing solutions & selecting priorities



Federal Funding Is Linked to Meeting NEPA Requirements

- FTA cannot release funding for final design and construction until the environmental review process under NEPA is complete
- Prior to completion of NEPA environmental review, no federal action is permitted that would:
 - Have an adverse environmental impact
 - Limit choice of reasonable alternatives
- NEPA process concludes by one of three environmental findings:
 - Categorical Exclusion (CE) or
 - Record of Decision (ROD) on an EIS or
 - Finding of No Significant Impact (FONSI) on an EA
- Project sponsors seeking federal funding should coordinate with FTA early





