City of Dallas Complete Streets

SPROW Education Forum October 30, 2014

Introduction

- Complete Street Evolution
- City of Dallas Presenters
 - Peer Chacko, Assistant Director,
 Planning & Neighborhood Vitality Dept...
 - Mark Brown, Sr. Planner, Planning & Neighborhood Vitality Dept..
 - Evan Sheets, Sr. Planner, Dallas Design Studio

City of Dallas recent Bond Programs

- Recent Bond Programs
 - o2003 Bond Program
 - o2006 Bond Program
 - o2012 Bond Program

- A General Obligation Bond (GO) is a voter approved bond
- Conducted every 3-6 years depending on the needs, economy and urgency
- Bond Programs are used to fund capital projects with useful lives of at least 20 years or the life of the bonds. Examples include:
 - Street & thoroughfare improvements
 - Flood protection & storm drainage improvements
 - Infrastructure to support economic development
 - Public health and safety facilities
 - Park & recreation facilities
 - Library facilities & Cultural Arts facilities

Pre complete street era

Basically built the standard cross

sections

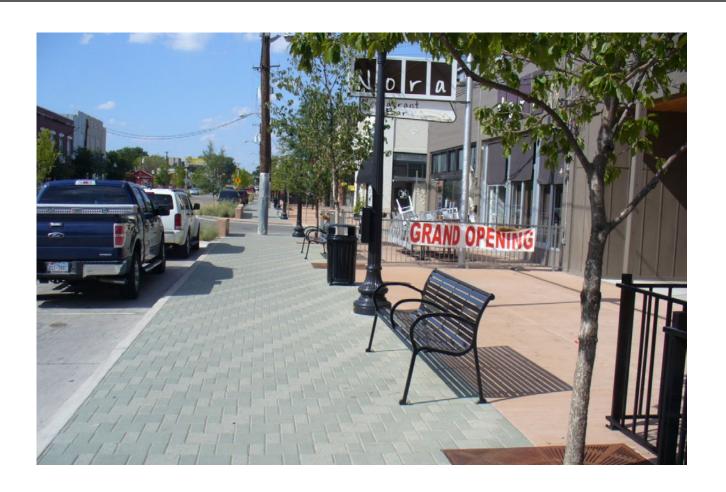




- No complete street project category
- Some project scopes evolved to complete streets with City Planners, Design Studio and Stakeholder input

- 2006 BP Complete Street Convert Projects
 - Greenville Avenue
 - Bishop Street
 - Herbert Street
 - Congo Street
 - Locust Street
 - Elm Street
 - Bexar Street
 - Beckley-Commerce Intersection

Complete Street - Lower Greenville Project, Post-construction



Complete Street - Lower Greenville Project, Post-construction



Complete Street - Bishop Avenue, Post-construction



Complete Street – Congo Street Project, Post-construction







Bioswale and landscaping

Permeable pavement in recessed parking areas

Complete Street- Herbert Street Project, Post-construction



Reduced pavement width to 18', added indented parking, landscaping, increased green space, improved walks

What are we doing different with in the 2012 BP?

- When forming the Bond Program an effort was made to determine what streets are truly candidates for the Urban-Complete Street conversion
- Staff is tasked to work with stakeholder groups and pursue a context and environmental sensitive design
 - Team
 - City Planners
 - Design Studio
 - Transportation planners
 - Stakeholders
 - Public works

Complete Streets funded in 2012 Bond Program

Bishop from Jefferson to 8th	\$3,061,300
Cedar Springs Ave from Douglas to Oak	
Lawn	\$1,304,100
Davis Street from Beckley to Hampton	\$979,600
Grand from R.B. Cullum to Good Latimer	\$2,449,000
Greenville Ave Retail Areas	\$820,400
Greenville from Belmont to Bell and from	
Alta to Ross	\$3,673,500
Henderson St from US 75 to Ross Ave	\$1,312,100
Jefferson Blvd from Crawford to Van Buren	\$1,469,400
Knox from Katy Trail to US 75	\$734,700
Lamar (S) from IH 45 to Hatcher	\$4,898,000
Main St from Good Latimer to Exposition	\$734,700
Meadowcreek Drive Arapaho to Campbell -	
pedestrian and traffic calming improvements	\$271,800
MLK from R.B. Cullum to S.M. Wright	\$468,900
TILIT HOTH KID! Cullulli to Simi Wright	Ψ-00, 200

What are we doing different with in the 2012 BP?

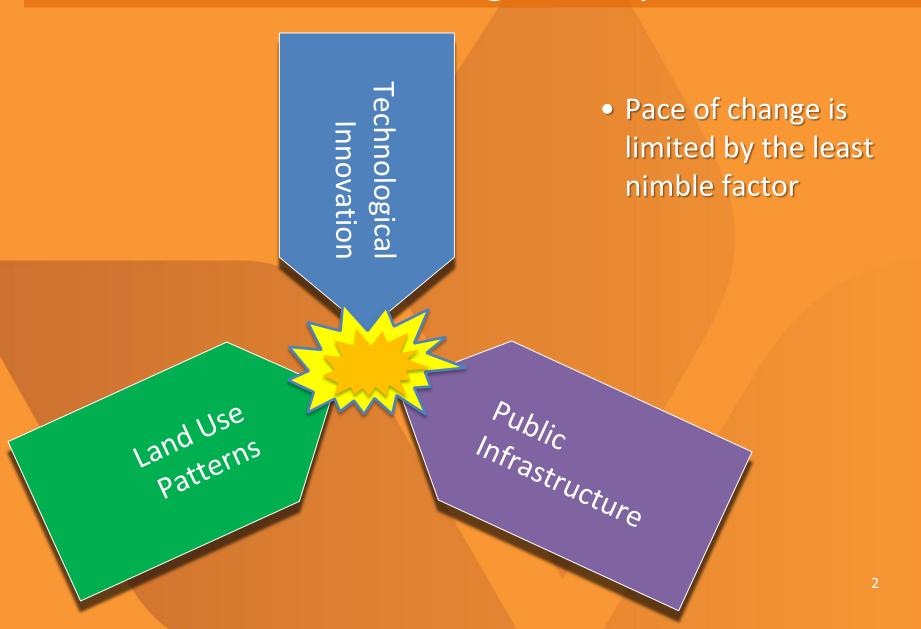
 For the Complete Street projects where there is not a settled project vision, we have the City Planners and Design Studio manage the project thru the conceptual planning phase and then remain on the oversight team thru Design and Construction

Dallas Complete Streets



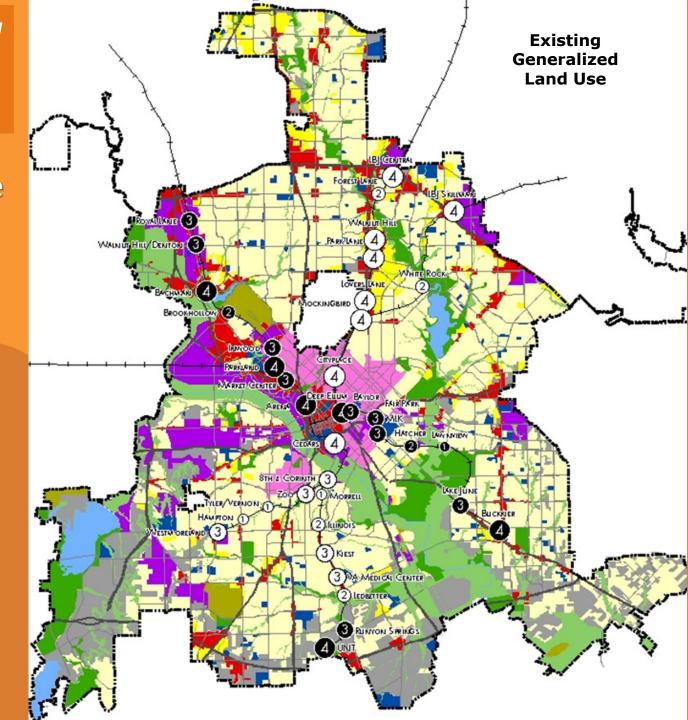
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What Drives Change in Trip Choices?



Dallas Land Use

- 1.2 million people sprawled over
 380 square miles
- 1 million jobs concentrated at key nodes and corridors

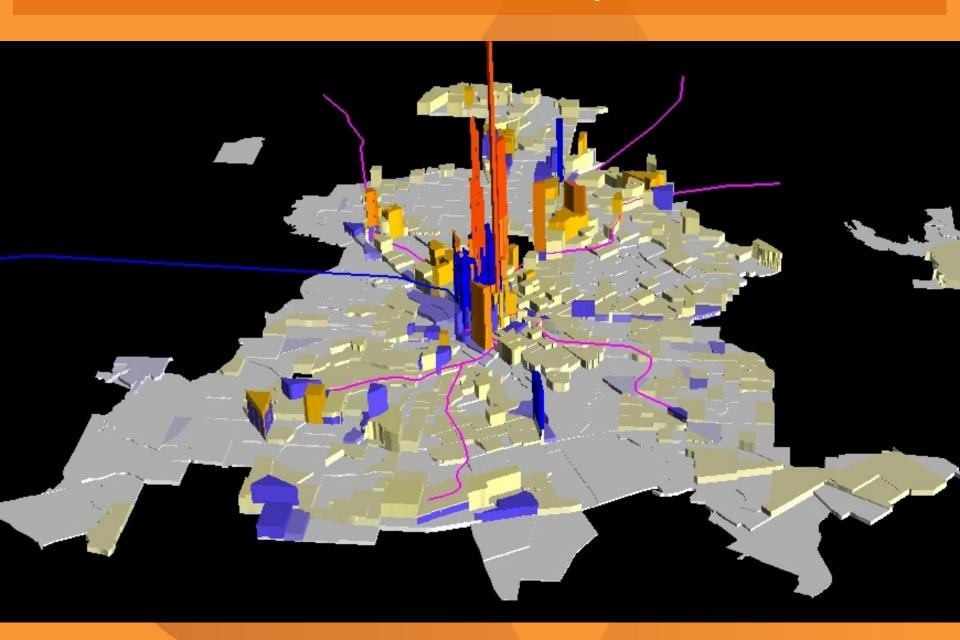


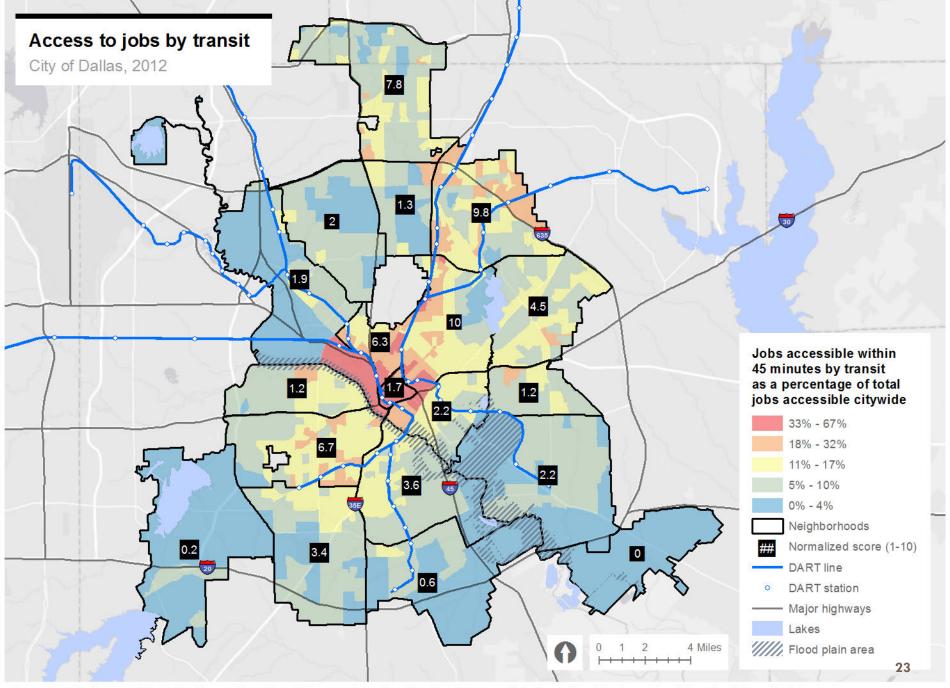




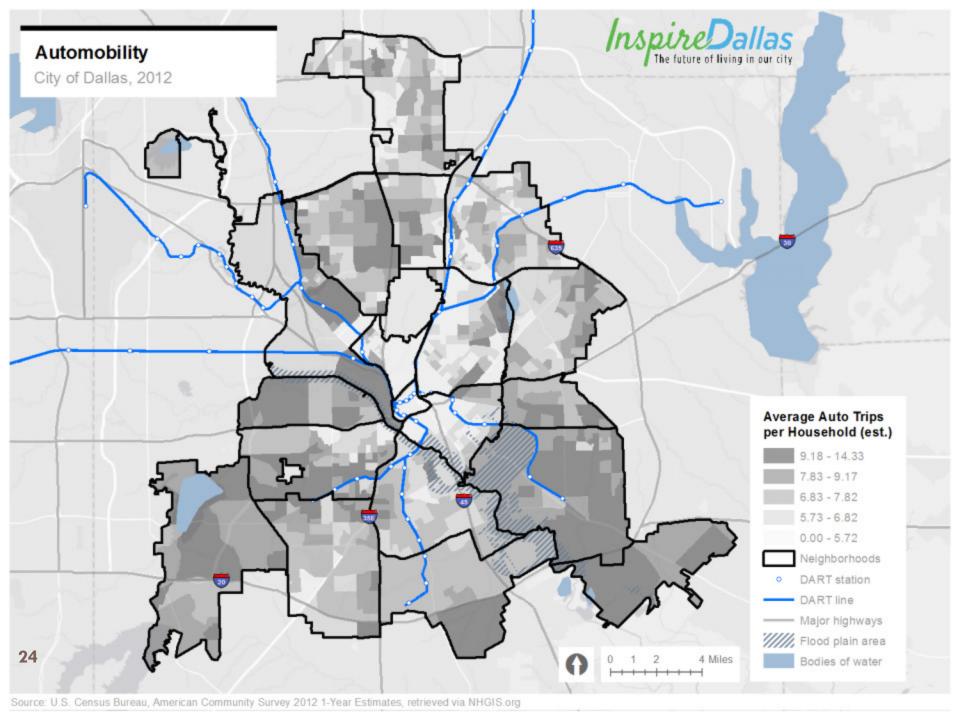


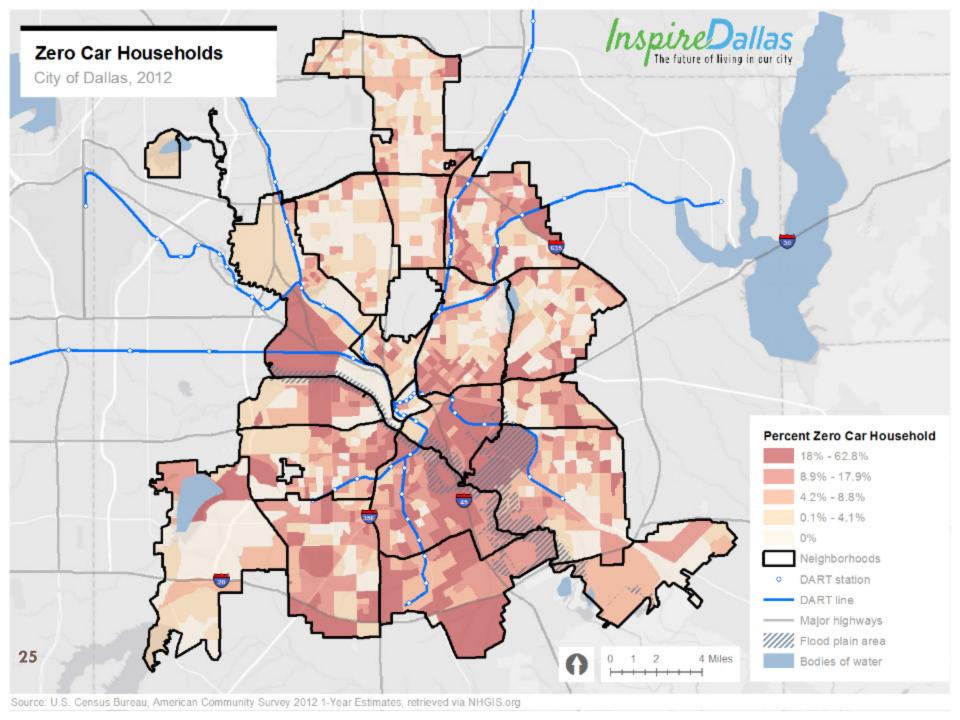
Transit Accessibility Varies

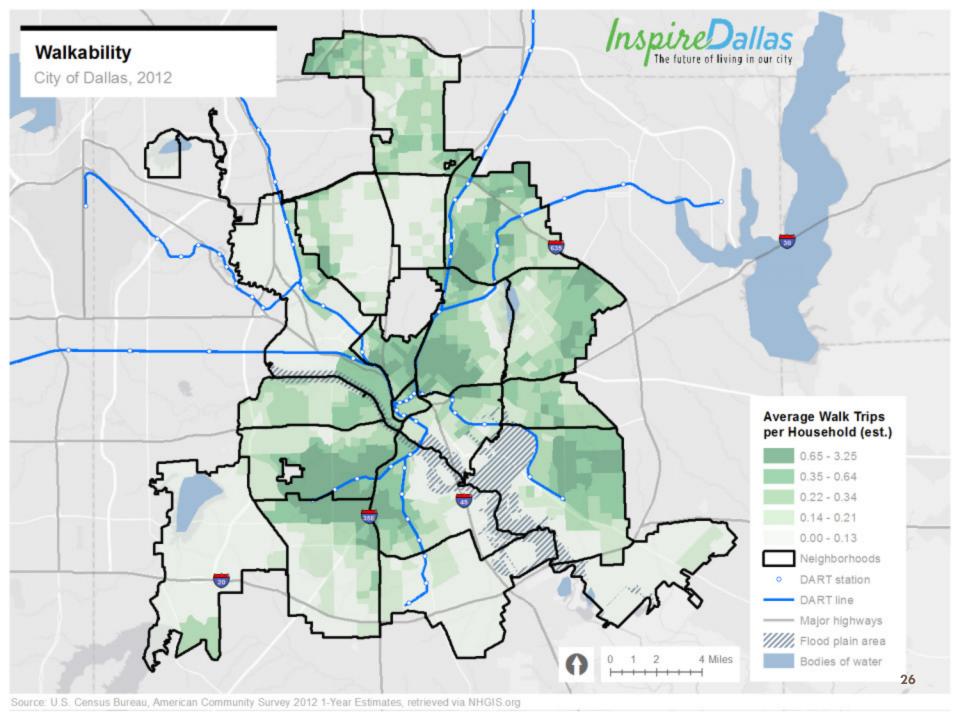




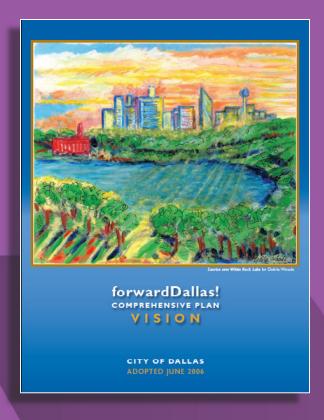
Source: U.S. Environmental Protection Agency, Smart Growth Program, Smart Locations Database, uses U.S. Census Local Employment and Household Dynamics data.



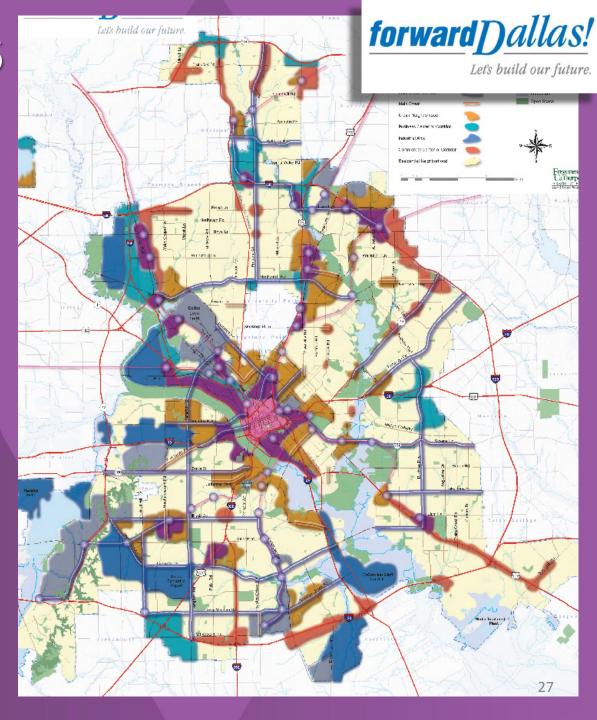




Policy Shift - 2006



 Policy foundation for walkable mixed use development patterns and complete streets



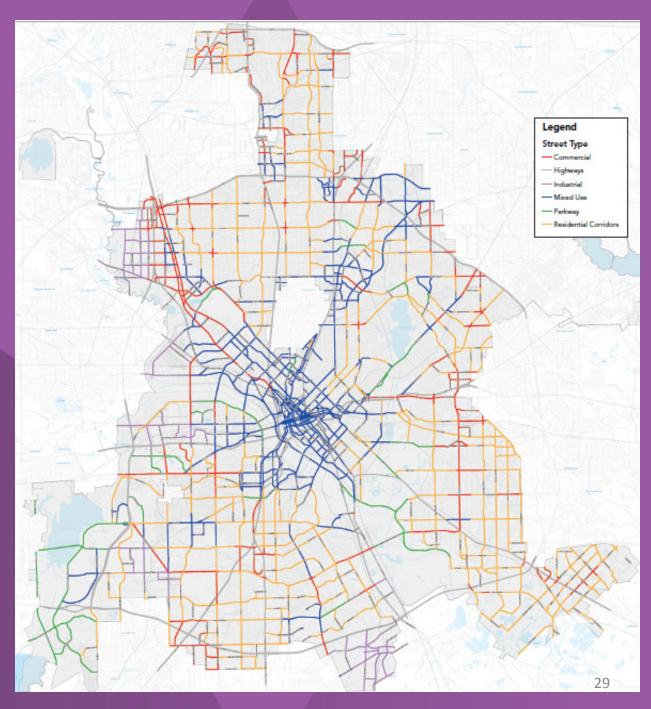


- Pending adoption
- To be incorporated into forwardDallas! Transportation Element
- To be incorporated into the Thoroughfare Plan

CITY OF COMPLETE STREETS DESIGN MANUAL



Complete Street
 Typology
 overlaid on
 thoroughfare
 functional class
 system





Design Policy Guide



Pedestrian Zone and Street Zone



Intersection Zone



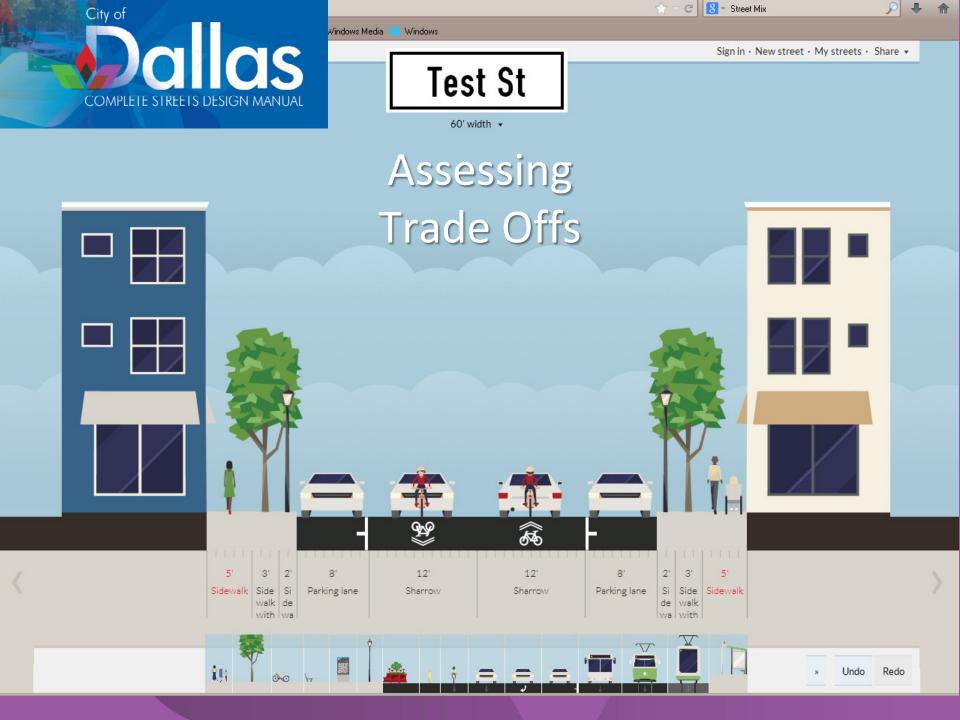
Green street Elements



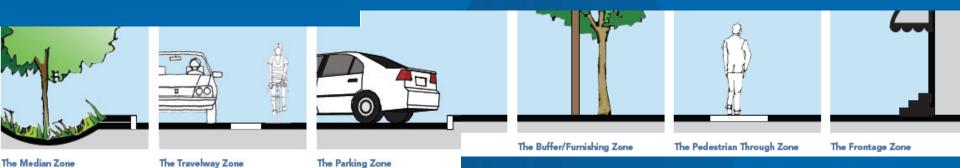
Guide for Assessing Trade-Offs

DESIGN ELEMENT PRIORITIES CHART

	Pe	edestrian Zone St														Street Zone										Intersection Zone									
				Stre	eet F	urn	ture							Wa	yfino	ing									7.S							es S			
Primary Consideration Secondary Consideration Optional Consideration Not Desirable NR Not Relevant	Wide Sidewalks	Shared Use Paths	_	Seating	Bicycle Parking Facilities	Bollards	Newspaper Racks	Recycling/Garbage Cans	Transit Stops	Limited Curb Cuts and Driveways	Plazas/PocketParks/Parklets	Sidewalk Cafes	Pedestrian Lighting	Information Kiosks	Pedestrian Signage	Bicycle Signage	Slip Streets	Couplets	Shared Streets (Woonerfs)*	Trees and Greenscape (Median)	On-street Parking	Road/Lane Diet ⁶	Chicanes	Midblock Pedestrian Crossings	Special Pavement Treatment/Speed Tables	Street Lighting	Multimodal Intersection Design	Curb Extensions/Bulbouts	Modern Roundabouts	Traffic Circles	Crossing Islands ²	Special Pavement Treatment/Speed Tables	Special Pedestrian Signals	Special Bicycle Treatments ³	Special Transit Treatments
Contextual Street Type (Over	lays																																	
Mixed-Use Streets																Ш													L						
Commercial Streets								Ш										Ш																	
Residential Streets																																			
Industrial Streets																																			
Parkways																																			
Bike and Transit Network	(Ov	erla	/S																																
Bike Network Overlay									N/R																								19		N/R
Transit Network Overlay ¹		N/R														N/R																		N/R	



Dallas Complete Streets



Public Projects

Private Projects

MAKING COMPLETE STREETS A REALITY

Private Development Projects

- O Opportunity for incremental improvement of street frontages
- O Code amendments necessary to facilitate implementation through private development
 - Regulations for City ROW use
 - Zoning and subdivision regulations

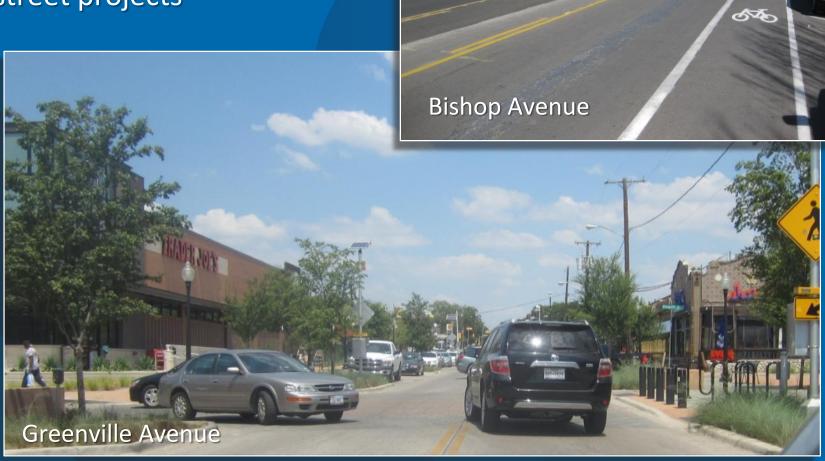


Public Projects

- O Two key types of street projects with different opportunities and challenges:
 - Street Reconstruction or New Construction Projects
 - Street Resurfacing or Restriping Projects

Pilot Projects

Dallas has been gaining experience from implementing pilot complete street projects

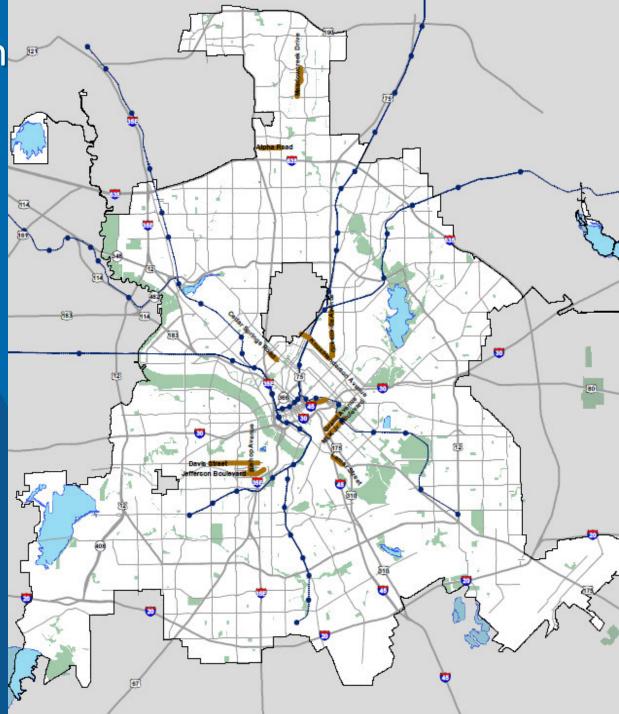




2012 Bond Program

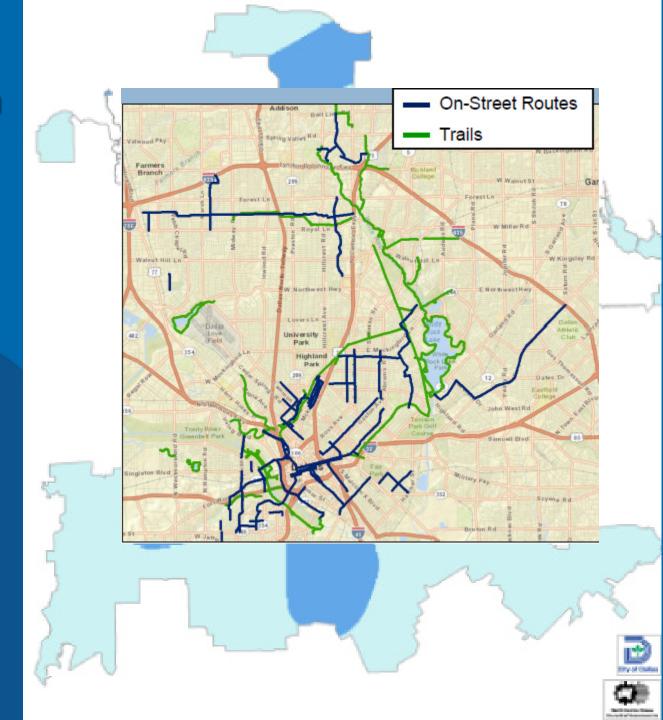
Complete Street Projects

	<u>Project</u>	<u>District</u>
0	Bishop Avenue	1
0	Cedar Springs	14
0	Davis Street	1
0	Grand Avenue	7
0	Greenville	14
0	Henderson Avenue	2
0	Jefferson	1
0	Knox Street	14
0	Lamar Street	7
0	Main Street	2
0	Meadowcreek Drive	12
0	MLK Boulevard	7
0	Alpha Road	11



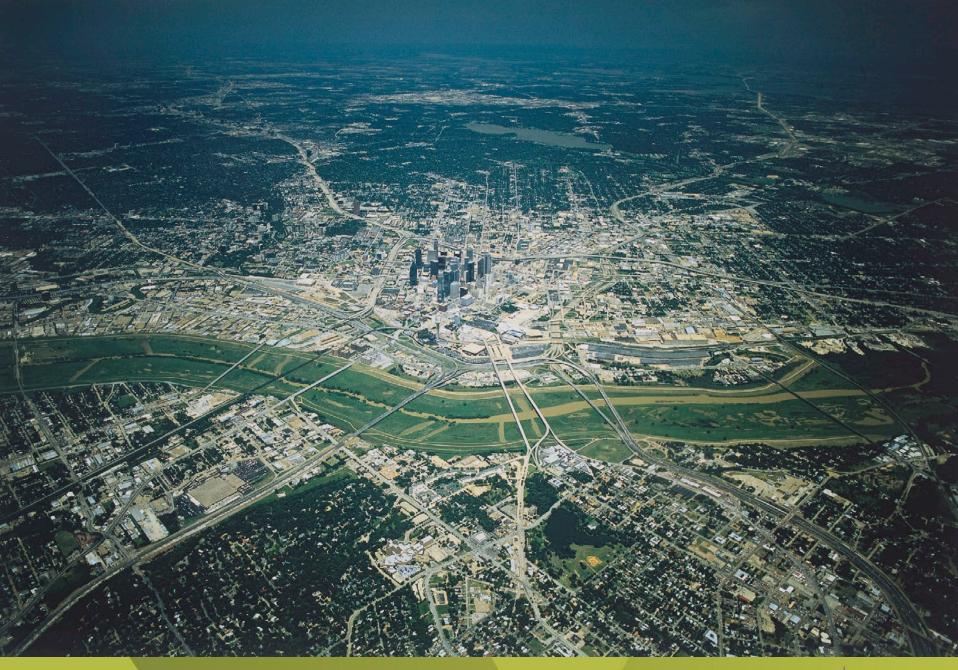
Bike Plan Implementation

- Bike Plan established priority areas for implementation
- Streets Department
 operating budget
 includes \$500,000 per
 year for on-street bike
 facilities

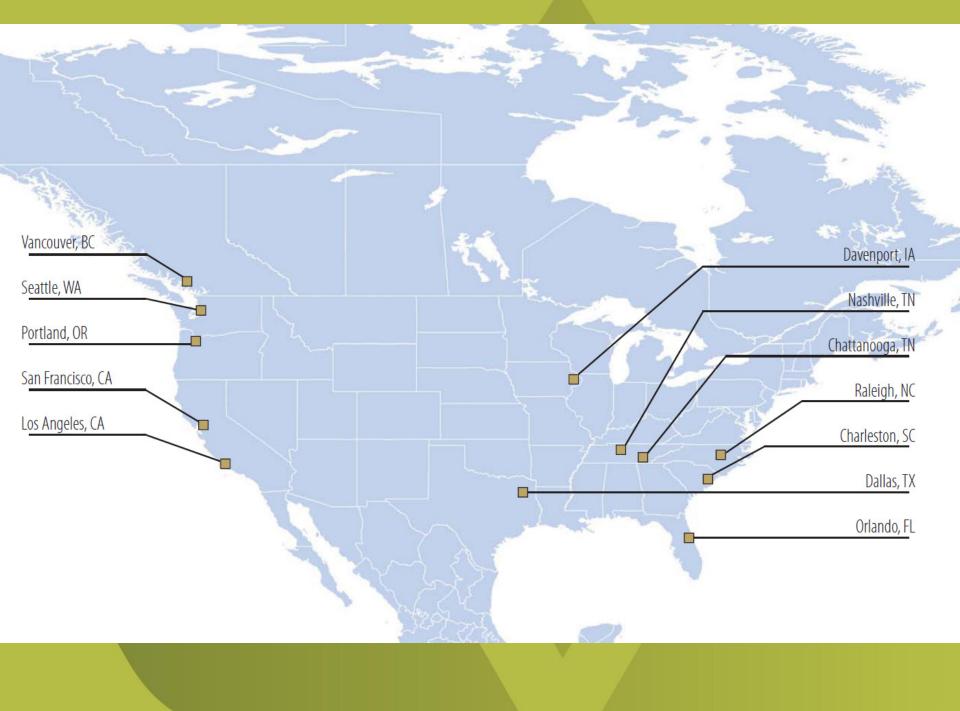


Dallas Complete Streets

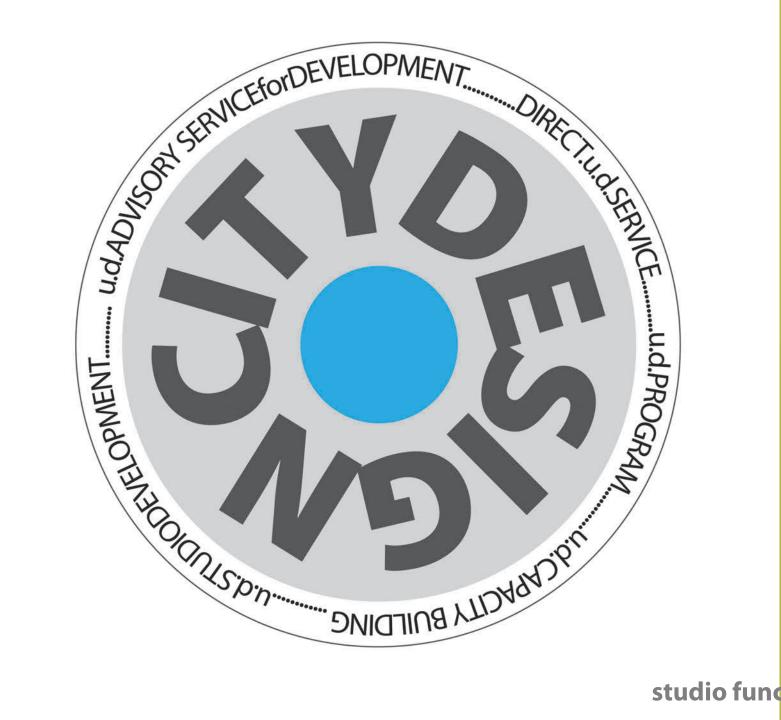
THE NEW DESIGN APPROACH



















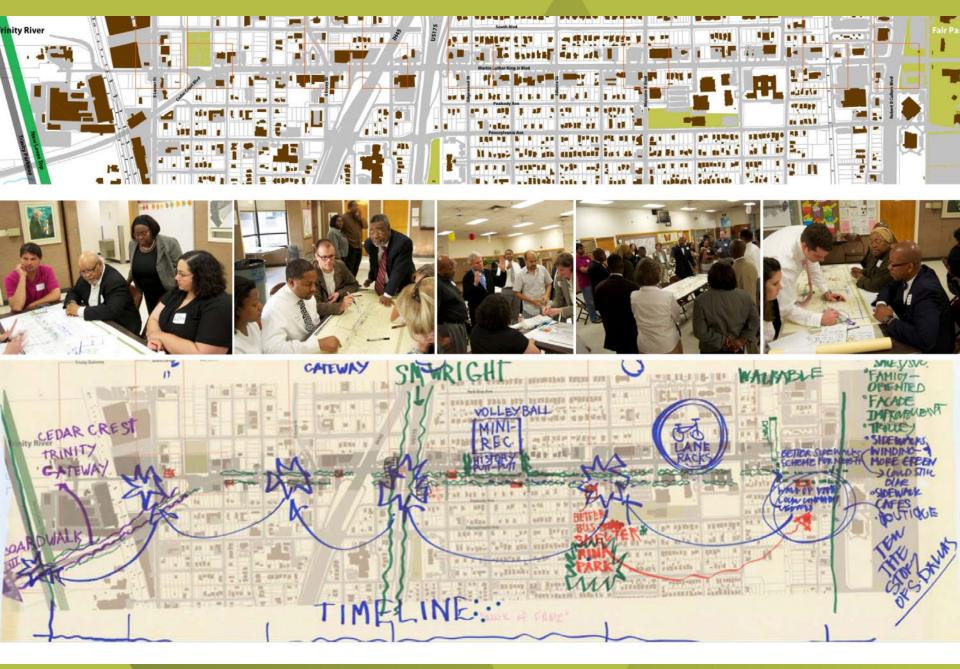




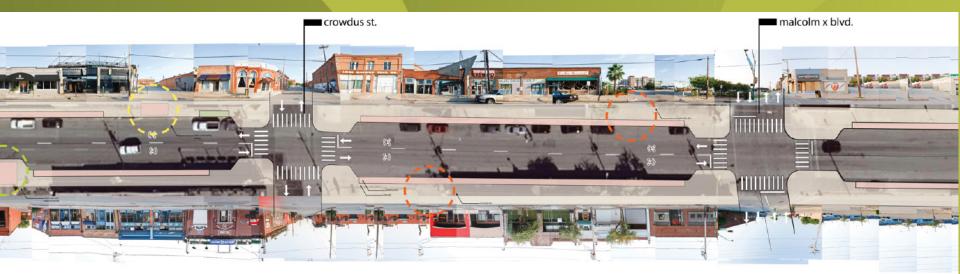














PRIORITIES CHART FOR TRADE OFFS IN LIMITED RIGHT-OF-WAY

	Pedestrian Zone		Street Zone			
Contextual Street Types and Functional Classifications	Frontage Zone (private)	Sidewalk Clear Zone	Buffer/Furnishing/Curb Zone	Parking Zone	Iravelway Zone	Median Zone
Mixed Use Streets						
Principal Arterial		1	2	5	4	3
Minor Arterial		1	2	3	4	5
Collector		1	2	3	4	5 5 5
Minor/Local		1	2	3	4	5
Commercial Streets						
Principal Arterial			3	5		4
Minor Arterial				5	2	3
Collector			3		2	3 5 5
Minor/Local				3	2	5
Residential Streets						
Principal Arterial		1	2	5	3	4
Minor Arterial					5	3 5
Collector				2	3	5
Minor/Local				2	3	5
Industrial Streets						
Principal Arterial		2	3	4		5
Minor Arterial		2	3	4	1	5
Collector		2	3	4		5
Minor/Local		2	3	4		5
Parkways						
Principal Arterial		2	4	5	3	1
Minor Arterial		2		5	3	1
Collector		2 5	4	5	3 3	1
Minor/Local		5			3	2

General Notes:

- The numbers rank various zones between 1 and 5, with one being the highest priority and 5 being the lowest. The priority level is intended to guide width choices (low priority means minimum width, high priority means desired width).
- Refer to the On-Street Bike and Transit Facility Priorities Chart later in this chapter for additional guidance on the travelway zone.
- The Parking and Median Zones are not essential on all streets. A low priority ranking for these zones implies that they may be eliminated. A high priority implies that it is desirable to include them even if minimum dimensions are used.
- 4. The Frontage Zone priorities shown in this chart reflect the importance of using the public right-of-way for this zone. A low priority implies that the Frontage Zone should be incorporated on private property. A high priority implies that allowing this zone to expand into the right-of-way is an important consideration.
- For streets within a 1/4 mile radius of train stations as shown on the Vision Maps, the Sidewalk Clear Zone and the Buffer/Furnishing Zone should be given a High Priority.
- This chart is intended to be used as a starting point for engaging the community in setting design priorities during the corridor planning stage of the Complete Streets process.

High Priority

Medium Priority

Low Priority









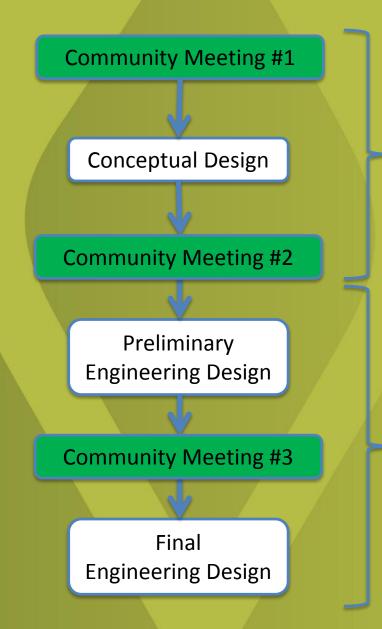
Dallas Complete Streets

THE NEW DESIGN PROCESS

New Design Process

 Engage the community from the outset and be responsive to feedback

 Establish design priorities and scope internally before handing off to consultants



City Inter-Departmental Team

Consultant Team

Community Workshops

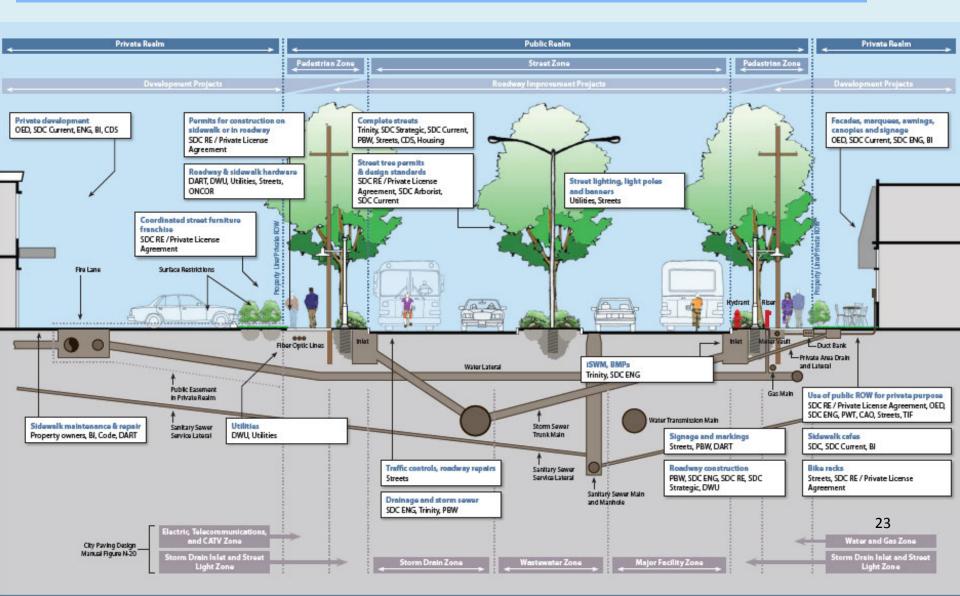
- Community Workshop #1
 - Introduce project goal and context
 - Identify corridor issues and priorities
- Community Workshop #2
 - Review at least two design alternatives with cost considerations
 - Identify preferences
- Community Workshop #3
 - Note any design modifications due to engineering considerations
 - Obtain buy-off on final design

Community Engagement



- Workshops with interactive break-out groups to encourage conversation, creative thinking and consensus building
- Project blogs to
 encourage
 continuous feedback
 through the process

Inter-Agency Coordination



Inter-Departmental City Team

- Land Use and N'hood Vitality
- City Design Studio
- Transportation Planning
- Economic Development
- Traffic Operations
- Trinity Watershed Management
- Public Works

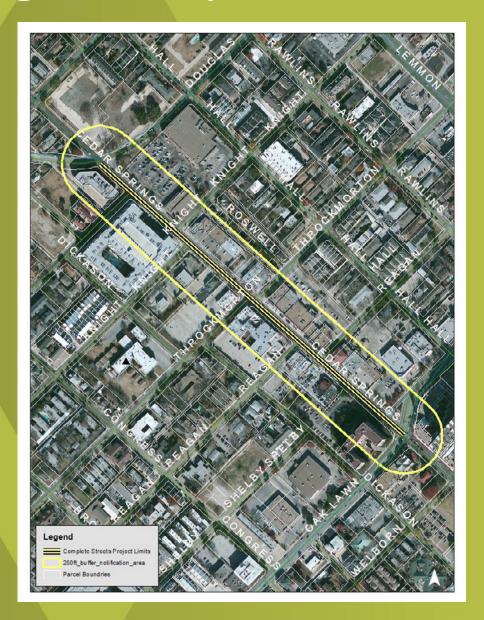
Now integrated into Planning and N'hood Vitality Department

Inter-Departmental Coordination

- Future corridor vision
- Ongoing zoning and development projects
- Thoroughfare Plan amendments
- TIF or PID Boards
- Traffic operational issues
- Storm water management

Cedar Springs Example

- Budget: ~\$1.3 million
- 4 block (2000 ft)
 commercial /
 entertainment corridor
 with new multi-family
 apartments
- 4 traffic lanes, high traffic speeds
- Narrow sidewalks, little to encourage pedestrian activity/street life
- Pedestrian safety issues



4 Lane Option

- Gateway Treatment at Oak Lawn and Douglas
- Restriped Crosswalks
- Limited Pedestrian Lighting
- ADA compliant crosswalks
- Decorative pavement and bump-outs at Throckmorton, Knight, Reagan
- Closure of redundant curb cut
- Strategic Landscaping, seating installations
- Oak Lawn Median Widening/Ped Refuge Islands (Optional)
- HAWK Pedestrian Signal (Optional)

3 Lane Road Diet Option

- 4 to 3 lane conversion with full curb, sidewalk rebuild between Knight and Reagan
- Widened Sidewalks (within Road Diet Area)
- Continuous Landscaping (within Road Diet Area)
- Small Public Plazas (within Road Diet Area)
- Pedestrian Lighting (within Road Diet Area)
- HAWK Pedestrian Signal (Optional)

Cedar Springs Road Diet Option



Conceptual Design

Landscaping, \$60,000,5% Library Plaza, \$31,000,3% Bumpouts, Treatment at Douglas,

\$150,000, 13%

Decorative Paving, \$200,000, 17%

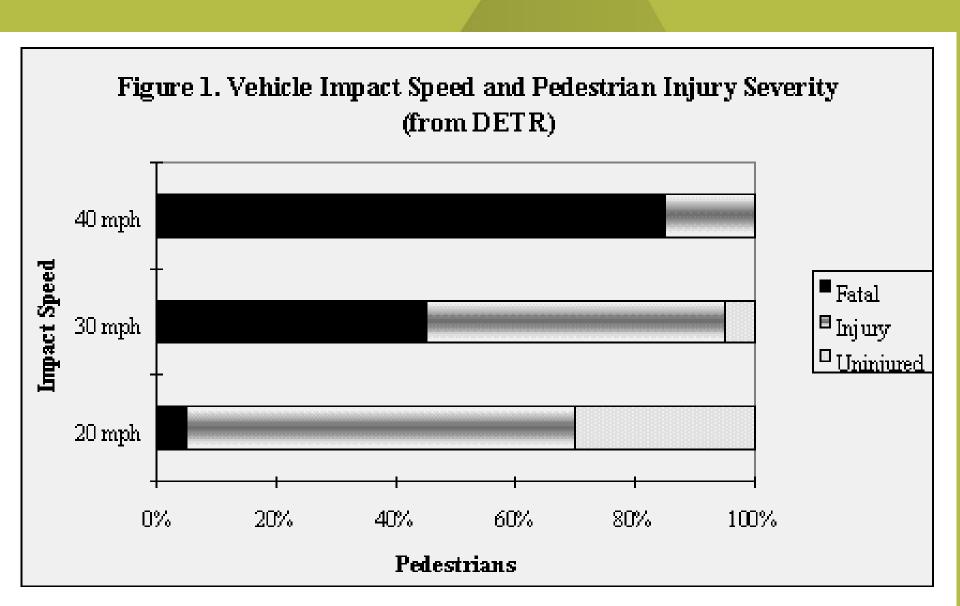
Furnishings, \$40,000,3%

Lighting, \$150,000, 13% Sidewalk repair, \$200,000, 17%

Underground Infrastructure, \$160,000, 14%

Road Safety (Crosswalks, ADA ramps), \$120,000, 10%

Not Just Aesthetics





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