CITY OF AUSTIN



Sidewalk Master Plan & ADA Transition Plan Update (Sidewalk Asset Management Plan)





PUD

May 4th, 2015

Pedestrian Advisory Council

OVERVIEW

- Sidewalks Background
- 2009 Sidewalk Master Plan Implementation
- Update Priorities
- Peer Cities Report
- Sidewalk Condition Assessment
- Prioritization Tool Update
- Update Schedule
- Questions & Feedback

CURRENT SIDEWALK STATISTICS

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		#
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		Abs
RAN WUS 200 HWY EB 10	Webs' Wintersubjes	
N		COA Sidewalks DRIVEWAY EXISTING SIDEWALK

IOTALS	
Existing Sidewalk (miles)	2,360
# Driveways	97,000+
Driveway/Sidewalk (miles)	360+
Absent Sidewalk (miles)	2,270

TOTALS

sidewalk master plan

TRANSIT/ SIDEWALK SYSTEM

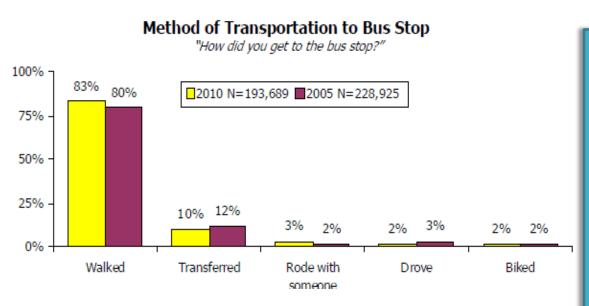
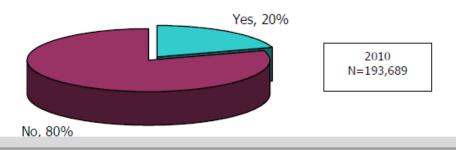


Figure 7 2010 Option to Use Household Vehicle

"Could you have used one of these vehicles to make this trip instead of riding the bus?"



CapMetro

- 34+ million boardings/yr
- 22+ million boardings/yr walked to transit and had no option to use car
- 3+ million mobility impaired pass boardings/yr

A BRIEF HISTORY OF AUSTIN SIDEWALKS

- 1969 Sidewalks Required with Subdivision (Building Permit)
- 1988 Sidewalks Required with Site Plan
- 1991 ADA Adoption
- 1995 (Approx.) Code Changes Eliminate Land Owner Responsibility for Sidewalks
- 1998 Transportation Bond \$152M
- 2000 Pedestrian Plan Adopted
- 2000 transportation Bond \$150M
- 2002 Complete Street resolution (20% Rule)
- 2006 Subchapter E Standards Adopted
- 2006 Transportation Bond \$103.1M with approximately \$10.6 M for sidewalks
- 2006 City of Austin Sidewalk
 Maintenance Program initiated
 (driveways still landowner responsibility)

- 2008 Sidewalks Required with Building Permit including infill and remodel projects (Fee-in-lieu initiated)
- 2009 Sidewalk Master Plan Adopted (Update)
 - Absent Sidewalk Prioritization
 - Maintenance Prioritization Included but not Endorsed
- 2010 Transportation Bond included \$4.5M for sidewalk repair
- 2012 Imagine Austin Adopted (Compact and Connected)
- 2012 Transportation and Mobility Bond \$143.3M total with \$25M for sidewalks
- 2013 Updated Complete Streets Resolution

• 2014 Pedestrian Advisory Council formed

2014/2015 Sidewalk Master Plan Update

OTHER RELATED PROGRAMS + ACTIVITIES

- Pedestrian Advisory Council
- CIP Street Reconstruction
- Private Development & Redevelopment
- Great Streets
- Parking Benefits Districts
- SubChapter E standards
- CodeNext
- Transportation Criteria Manual (TCM) update

- Active Transportation
- Complete Streets
- Pedestrian Hybrid Beacons (PHB's)
- Ped signal upgrades
- CapMetro bus stop
 improvements
- TXDOT sidewalk upgrades
- Local Area Traffic Management
- Urban trails
- Corridor studies

2009 SIDEWALK MASTER PLAN

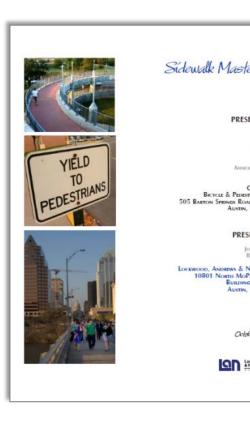
Absent Sidewalk Prioritization

- GIS database of existing and absent pedestrian infrastructure
 - \$>\$824M to build new sidewalks

ADA Transition Plan

- Improve existing sidewalks to meet **ADA** standards
 - \$ 120M estimate of total cost
 - **Recommended Spending Strategy**
 - \$5M in spending in 2009 2014
 - \$9M in spending from FY 2015 forward





Sidewalk Master Plan





CITY OF AUSTIN BICYCLE & PEDESTRIAN PROGRAM 505 BARTON SPRINGS ROAD, SUITE 1300 AUSTIN, TEXAS 78701

PRESENTED BY:

JURIE HASTINGS, PE RICHARD MCENTE

LOCKWOOD, ANDREWS & NEWNMAN, IN 10801 NORTH MOPAC EXPRESSIVAY BUILDING 1, SUITE 120 AUSTIN TEXAS 78759

October 9, 2008



SIDEWALK MASTER PLAN IMPLEMENTATION

Improvements Program

- Includes new sidewalks and improvements to meet ADA standards
- Prioritization from Sidewalk Master Plan
- \$5M \$9M annually (primarily bond funded)
- Some funding from Feein-lieu, grants, and other sources

Rehabilitation Program

- Sidewalk repairs (311 based)
- Primarily bond funded with some Transportation User Fee (TUF) funding (\$250k in FY 2015)

(Street Reconstruction & other Capital Improvement Projects also include sidewalk improvements)

INNOVATIVE PROJECT DELIVERY

- Contracts issued using a unit cost Indefinite Delivery Indefinite Quantity (IDIQ) methodology.
- Uses a set of standard details that are adapted in the field under the direct supervision of a professional engineer.
- IDIQ process has saved 25% in design costs and reduced delivery time by 75%.
- Flexible scheduling and accelerated delivery has resulted in numerous inter-agency partnerships which have improved coordination of pedestrian accessibility improvements.
- Model is being adapted by other governmental entities.





AFTER

WHAT WORKED WELL?

- Objective data driven prioritization process developed by stakeholders
- Absent sidewalk prioritization map
- Citywide gap and rehabilitation cost estimates
- ADA Transition Plan Funding Target

WHAT NEEDS IMPROVEMENT?

- Maintenance/rehabilitation assessment and prioritization
- Pedestrian Infrastructure Management System (PIMS) – too complex
- Stable funding source(s) particularly for maintenance

AUSTIN: PROACTIVELY ADDESSING SIDEWALK MAINTENANCE



Why L.A.'s \$1.4 Billion Sidewalk Repair Case Is Such a Big Deal

Los Angeles isn't the only jurisdiction that's been forced to confront its sidewalk problems by disability-rights advocates, and it won't be the last.

SARAH GOODYEAR | 💆 @buttermilk1 | Apr 7, 2015 | 🗭 33 Comments



UPDATE PRIORITIES

Build on Success

- Update & simplify GIS Absent Sidewalk Prioritization
- Incorporate latest ADA legal rulings and guidance

Incorporate Best Practices

- Peer Cities report
- Imagine Austin & Complete Streets Resolution

Improvements based on lessons learned

- Develop condition assessment rating and prioritization system
- Review funding alternatives and goals







SELECTION PROCESS

Design Group

top 3 ranking texas cities

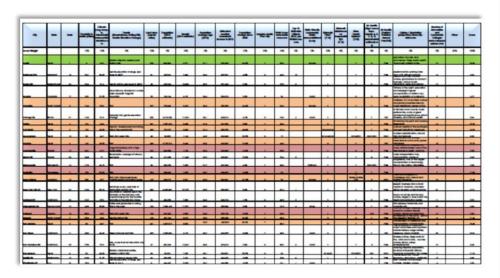
- San Antonio
- Fort Worth
- Dallas
- Houston

top 2 ranking non-texas cities

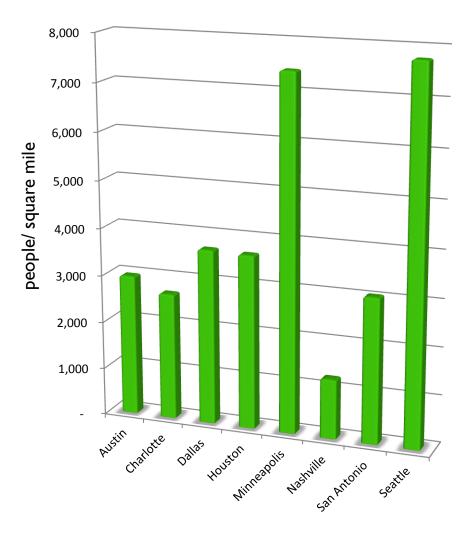
- Charlotte, NC
- Raleigh, NC
- Nashville, TN

top 2 imagine austin peer cities ranked per walkscore.com

- Seattle, WA
- Minneapolis, MN



PEER CITY POPULATION DENSITY





mwm Design

Group

eer city report

PEDESTRIAN ADVISORY COUNCILS





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QUESTIONNAIRE RESPONSES		1.5. Amount spending in lawsuit settlements o sidewalk infrastructure: <u>\$15,761 in the la</u>		_
RESPONSES		 Sidewalk Maintenance: 1. Maintenance responsibility for sidewalks: 2.1.1.1f City, department responsible: Ch 2.3. Sidewalk maintenance Budget? YES 	City Property Owner	
Desigr Group	3. N 3.1.	2.2.1.8udget for tidewalk maintenance in 2.2.1.1. Number of miles to be ma 2.2.2.8udget for tast 5 years: 2.2.2.1. Number of miles maintain 2.3.5ource(3) of funding and percentag 2.2.4 tow are sidewalk maintenance are	intained: ad: ees:	
City of Austin Citywide Sidewalk Master Plan Update Peer City Interview Questionnaire City of <u>Charlotte, NC</u>	32	2.2.5.Incentives or any other cost sharing maintain sidewaks? For example: a equity based assistance programs?	alternatives offered for property owners to cost <u>sharing prog</u> rams, low interest loans or	
 Sidewalk Inventory and Planning Miles of existing sidewalk: 2,094 mi Miles of existing sidewalk: GIS / Aerial review (field verification where needed) Miles of absent sidewalk: 2,114 mi Miles of absent sidewalk: 2,114 mi Miles of absent sidewalk: 2,114 mi Miles of absent sidewalk: A sidewalk, but needs and requests are tracked via Does your city have a Sidewalk Master Plan, Asset Management Plan or similar document? YES NO 		2.3. Condition assessment of the tidewark ne 2.3.1.Update frequency: 2.3.2.Condition assessment used to prior Sdewalk Master Plan Update - Per Cites Interview Questions		2 of 10
 1.3.1.Date of plan: 2011 1.3.2. Update/revision frequency: Sum (747-sm blink) 1.3.3.7. Describe: The City's Transportation Action Plan (TAP) sets a target of 10 miles of new sidewalk construers, This is not a sidewalk-specific plan, though there is a pedestrian element within it. An initiative called Charlotte WALKS will address pedestrian issues (see 7.3). 	The prioritizat	evail Master Plan Update - Peer Cities Interview Questionnaire for processe is based on specific criteria including various lan er roadway conditions. I'll include a copy of the Sidewalk Re	Page 3 of 10 d usee, Iransit, safety, rofit Policy in my email	
While we don't have a sidewalk master plan, we have a process through which we are able t program and construct sidewalk projects each year. This process is guided by the Sidewalk F 1.3.4. Website link to copy of the most recent plan:		- Peer Cities Interview Questionnaire	Page 4 of 10	
http://charmeck.org/city/charlotte/Transportation/PlansProjects/Pages/Transportation%20Action%20P	efficient/faster impl Charlotte addresses issues i addressed through the main	with capital projects and via land development projects. Con	nplaints are	
1.3.4.1. Parts of the plan that have been particularly effective or noteworthy: The TAP is Charlotte's first comprehensive transportation plan. It sets transportation goals and helped to define the City's complete streets approach to the transportation system.	Sidewalk Master Plan Update - Peer Cities Inte	page 6 of 10	ge 5 of 10 nd public's demand ned by City is involvement s, bicycles, and	
 1.4. Value assigned to the sidewalk network? YES NO 1.4.1.Basis of value (examples: intensity of pedestrian activity, connectivity, property values or family incomes, etc): 		ng non-complian un Page 7 d Invites Constitutionale Page 7 Destionale	10 Age 6 of 10 Page 9 of 10	
1.4.2.Value in 2015:	sidewalk Master Plan Update - Peer Okies In Sidewalk Master Plan Update - Peer C	ntes Interview	page 10 of	f 10

peer city report

QUESTIONNAIRE DATA TABLE

	Design Group
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-		P	c			-	0			1	T.
	A.	11 Miles of Existing Sidewalk	111 Inventory Method	12 Miles of Absent Sidewalk	121 Inventory Method	131 Date of Plan	132 Update Revision Frequency	1331 Performance Measures of Walkability	134 Website Link	1341 Parts of Plan Noteworthy	141 Fan Ince
1	Charlotte, NC	2,094 mi	GIS / Aerial review (field verification where needed)	2,114 mi	GIS (not an 'inventory' o missing sidewalk, but needs and requests are tracked via GIS)	2011	5 years (TAP - see below)	The City's Transportation Action Plan (TAP) sets a target of 10 miles of new sidewalk construction per year. This is not a sidewalk-specific plan, though there is a pedestrian element within it. An upcoming initiative called Charlotte WALKS will address pedestrian issues (see 7.3). While we don't have a sidewalk master plan, we have a process through which we are able to program and construct sidewalk projects each year. This process is guided by the Sidewalk Retroft Policy.	/Transportation/PlansProjects/P	The TAP is Charlotte's first comprehensive transportation plan. It sets transportation goals and and helped to define the City's complete streets approach to the transportation system.	
	Houston, TX	approx. 4,400	Asset Management	approx. 3,200	Asset Management	N/A	N/A	Specific requests are made through Safe Sidewalk Program (SSP), with timeliness and backlog routinely measured. Requests are evaluated based on City criteria.	Website link exists for sidewalk requests, http://www.publicworks.houstontx .gov/notices/safe_sidewalk_prog ram.html		Pedes valued
3	Minneapolis, MN	1845	city ordinance	108	Access Minneapolis	10/16/2009			http://www.minneapolismn.gov/pu blioworks?transplan?		
4	San Antonio, TX	4761 miles	Sidewalk GIS dataset	2484 miles	Sidewalk GIS dataset	N/A.	N/A	N/A	N/A	₩A	N/A
5	Seattle, WA	2000	Manual; physical observation	500	Manuai; physical observation	2009	2015	Safety Performance Measures - Rate of crackies involving pedestrians - Vehicle speeds along identified corridors - School participation in pedestrian safety, education, and encouragement programs - Driver and pedestrian behaviors and awareness of pedestrian laws Equity Performance Measures - City investments toward Top Tier projects in High Priority Areas - Public communication about pedestrian issues - Transit ridership - Mode share (more people walking) Vibranog Performance Measures - Streetscape vibranog - Pedestrian activity Health Performance Measures - Self-reported Perjoriana toxivity - Children walking or biking to		Prioritization for construction of new sidewalks and crossing improvement locations	

QUESTIONNAIRE DATA CONFIRMATION + INTERVIEW

















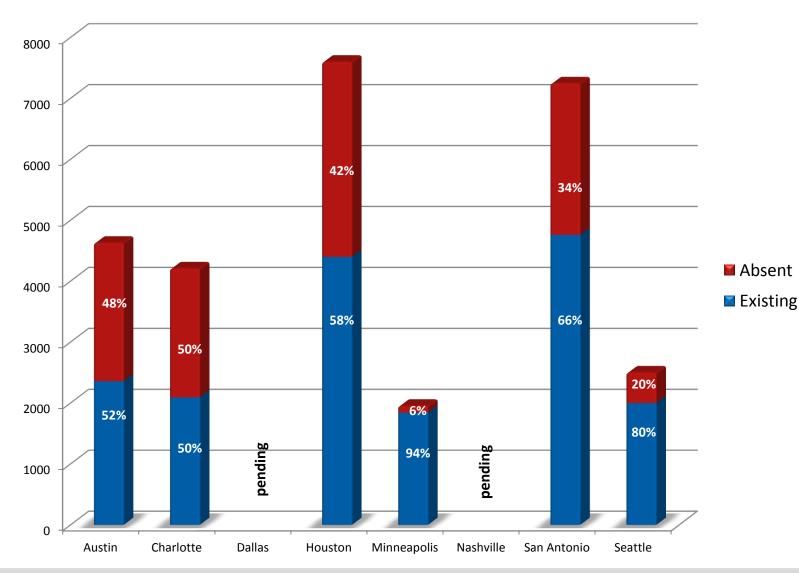








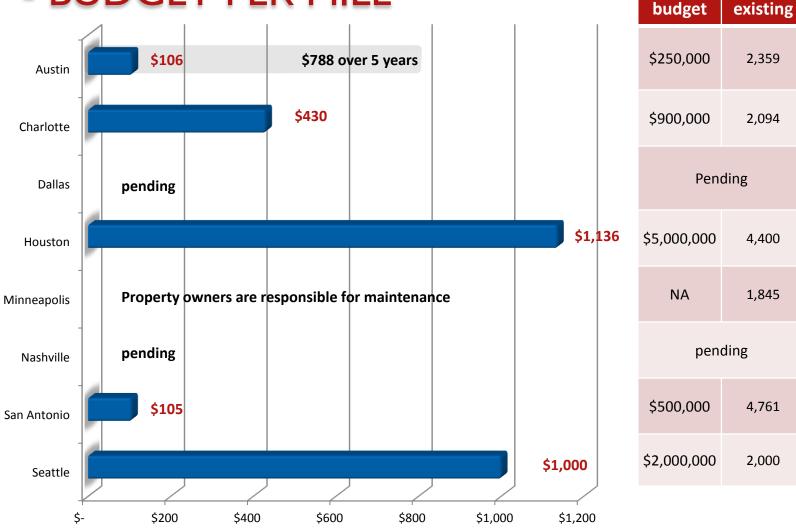
CURRENT INVENTORY - MILES OF SIDEWALK





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EXISTING SIDEWALK MAINTENANCE - BUDGET PER MILE



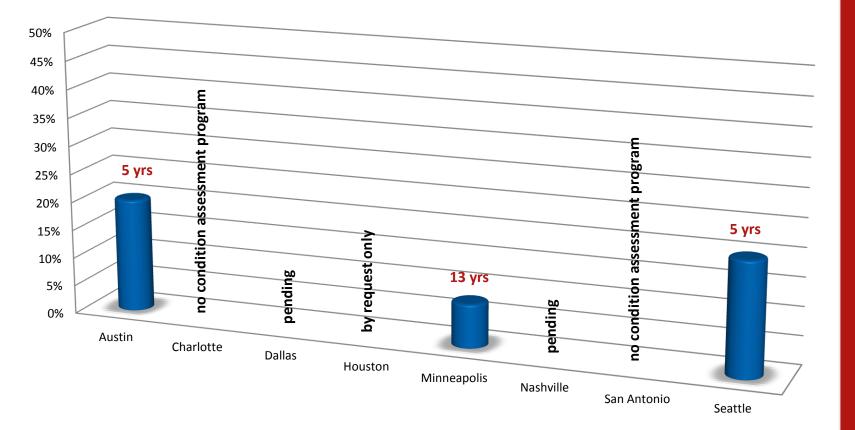


annual

miles

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EXISTING SIDEWALK ASSESSMENT - PERCENT ASSESSED PER YEAR



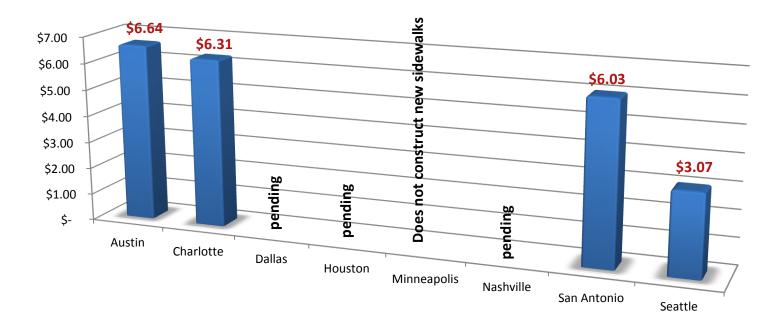


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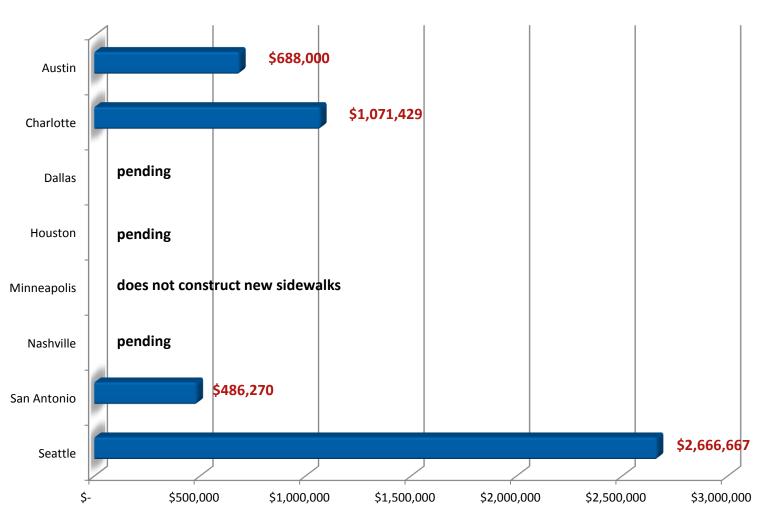
NEW SIDEWALK BUDGET PER CAPITA

average budget 2010-2015



ABSENT SIDEWALK - CONSTRUCTION COST PER MILE





STAFF POSITIONS PER CAPITA



	Austin	Charlotte	Dallas	Houston	Minneapolis	Nashville	San Antonio	Seattle
Population	885,400	792,862	1,257,676	2,195,914	400,700	658,602	1,409,019	652,405
Residents /Staff	88,540	264,287	pending	731,971	80,140	pending	216,772	26,096
	10 staff	3 staff		3 staff	5 staff		6.5 staff	25 sta

peer city re \bigcirc <u>O</u>r

CONDITION RATING SYSTEM



- GOOD condition / Minor levels of ADA Noncompliance
- Functional for all users
- MARGINAL condition / Intermediate level of ADA noncompliance
 May not be functional for some users
- D
- POOR condition / Severe level of ADA noncompliance
 Not functional for many / May present hazards for all users
- FAILED condition / Extreme level of ADA noncompliance
- Essentially nonexistent as a developed pedestrian route



SAMPLE CRITERIA

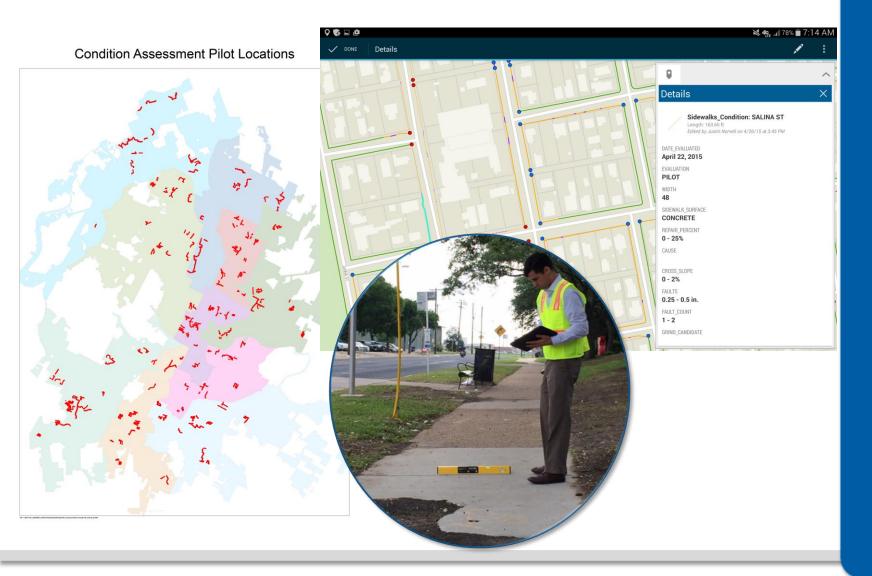


Sidewalk Condition	А	В	С	D	F
Width	> 48 in.	36 in 48 in.	32 in 36 in.		< 32 in.
Passing Space Interval	< 200 ft		> 200 ft		
Grade	0 - 5%	6 - 8%	9 - 12%	> 12%	
Cross-Slope	0 - 2%	3 - 5%	6 - 8%	9 - 12%	> 12%
Faults	< 0.25 in.	0.25 - 0.5 in.	0.5 - 2 in.	2 - 4 in.	> 4 in.
Faults (Count)	None	1 - 20 / 100 ft	> 20 / 100 ft		
Cracks	None/Minor	Moderate	Severe		
Roughness	< 0.25 in.	0.25 - 0.5 in.	0.5 - 1 in.	1 - 2 in.	> 2 in.
Vertical Clearance	> 80 in.			< 80 in.	
Obstruction Height	< 0.25 in.	0.25 - 0.5 in.	0.5 - 2 in.	2 - 4 in.	> 4 in.
Perpendicular Grate	< 0.5 in.				
Opening	< 0.5 m.		> 0.5 in.		
Parallel Grate Opening	None		Opening Exists		
Driveway Interruption	< 0.25 in.	0.25 - 0.5 in.	0.5 - 2 in.	2 - 4 in.	> 4 in.

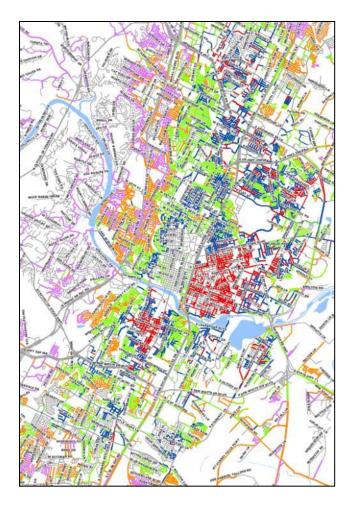
*blanks identify ratings not applicable to condition

DATA COLLECTION PROCESS





SIDEWALK PRIORITIZATION





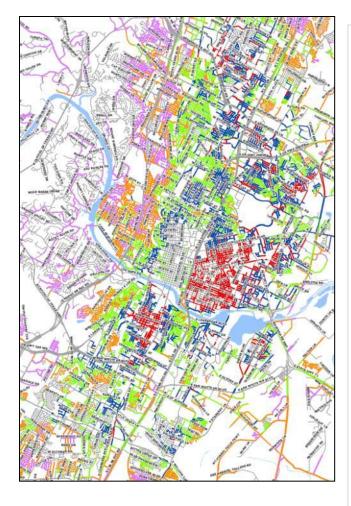
- pedestrian attractor score (50%)
- pedestrian safety score (40%)
- fiscal availability score (10%)

PIMS ABSENT SIDEWALK SCORE	ABSENT SIDEWALK SEGMENT COUNT
< 30.00 (Very Low)	15,072
30.01 - 40.00 (Low)	5,869
40.01 - 50.00 (Medium)	5,669
50.01 - 59.00 (High)	4,091
> 59.01 (Very High)	2,039
s Waterbodies	SCORING DISTRIBUTION
~~~ RIVERS	Minimum: 0.00 Maximum: 81 43
Roads	Mean: 40.01 Median: 39.26

# GIS PRIORITIZATION TOOL



#### Prioritization Tool Analysis Elements (cont.)



### Prioritization Tool Analysis Elements

- Proximity to Atractors
  - State or Local Government Offices
  - Commuter Rail Stations
  - Transit Stop
  - Major Grocery Stores
  - Places of Public Accommodations
    - Convention Center
    - Health Clinic
    - Hospitals
    - Library
    - Museum
    - Nursing Home
    - Post Office
    - Recreation-Outdoors
    - Recreation Centers
    - Police Stations
    - Fire Stations
    - Parks
  - Public or Private Schools
  - Employers with > 500
     Employees
  - Public Housing
  - Public Parking Facilities
  - Religious Institutions

ehold Income opulation ties on Street

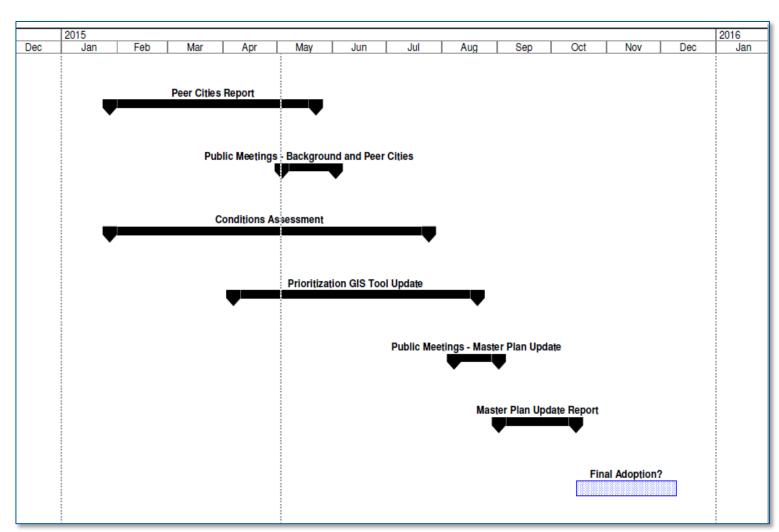
sk Force

orhood Corridor

cation alth Status utomobile Incidents Availability

### MASTER PLAN UPDATE SCHEDULE





sidewalk master plan

### COMMENTS + FEEDBACK



- Peer Cities Best Practices
- Sidewalk Condition rating system (draft)
- Funding Ideas
- Alternative approaches



https://austintexas.gov/department/pedestrian-program

### QUESTIONS



# with more foot traffic than rush hour traffic.



### Brian Wells (MWM DesignGroup) brianw@mwmdesigngroup.com

### John Eastman (City of Austin)

john.eastman@austintexas.gov



https://austintexas.gov/department/pedestrian-program

http://www.austintexas.gov/sites/default/files/files/Public Works/Sidewalk Master Plan.pdf