

February 6, 2012

THE SIDEWALK SYSTEM: *PLANNING, FUNDING, AND IMPLEMENTATION*

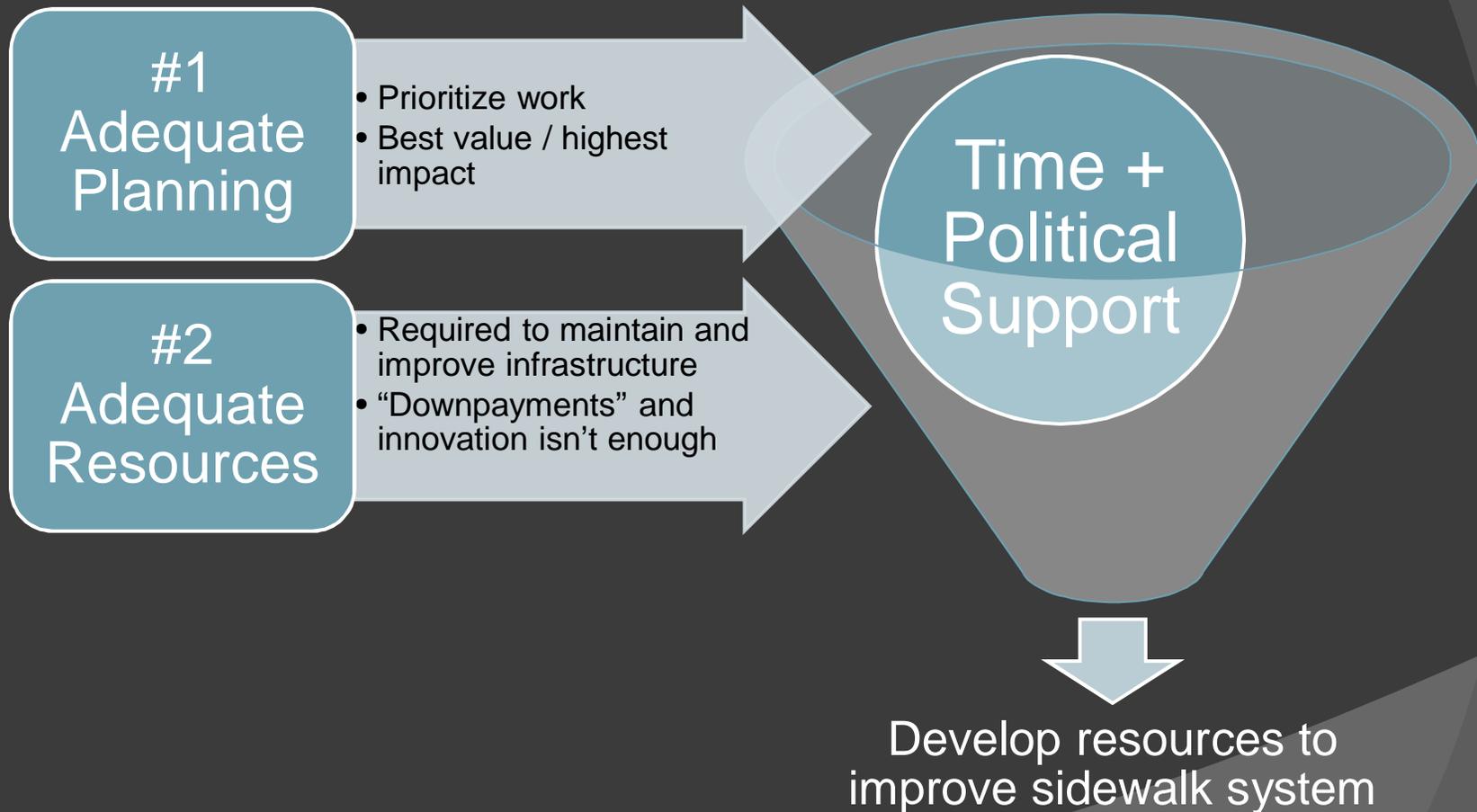


Baseline: street system



- 3-year accelerated paving plan 2008-2011
- Pavement Condition Index (PCI) = 72
- Off-the-shelf assessment system
- Multi-year process to increase funding

Paving Program Lessons Learned



#1: adequate planning

- ◎ 2008/2009 Sidewalk Strategic Plan
 - Defined program goals
 - Comprehensive system inventory with volunteers + staff
 - Developed prioritization methodology

#1: planning – inventory & methodology

- 150 sidewalk miles
- 2/3 deficient
- 72 years worth of work

- Identify an acceptable sidewalk condition
- Increase quantity and quality of repair
- Utilize alternative funding for new sidewalk
- Pro-active planning
- Repair curb and greenbelt
- Meet ADA and walkability goals

Identify and prioritize sidewalks in the worst condition in the most heavily traveled areas.

Prioritization Methodology, part 1



○ Sidewalk Deficiency Index (DI)

Possible hazards & deficiencies:

- Vertical displacement across >50% sidewalk or >2" in height
- Horizontal displacement greater than 2% slope
- Drainage problem
- Surface deterioration or material inconsistency
- Surface spalling or cracking
- Obstruction (hydrant, utility pole or cabinet, light pole, signal pole, parking meter, bike rack, tree, sign, structure)

ADA ramp requirements:

- Detectable warning
- Ramp slope < 8.33%
- Ramp > 4'x4'
- Ramp flares' slope < 10%
- Landing slope < 2%
- Landing > 4'x4'
- Ramp lip < 1/4"

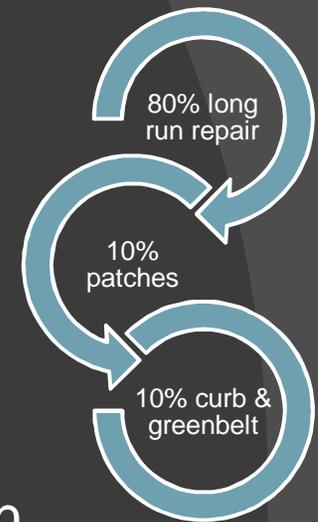
Prioritization Methodology, part 2

○ Pedestrian Potential Index (PPI)

Variable	Code	Description	Assigned Value
Type of Road	ART	Arterial	5
	COL	Collector	3
	LCL	Local	1
Major Pedestrian Generators	ASL	W/in 0.25 mi of retirement community, assisted living, or senior center	5
	CC	W/in 0.25 mi of library, community center, places of worship, etc	3
	WK	W/in 1 mile of employment center for > 200 employees	3
	SOC	W/in 0.25 mi of community medical & social services	1
School Zones	ES	W/in 0.25 mi of elementary school	5
	MHS	W/in 0.5 mi of middle or high school	3
	UNV	W/in 1 mi of college or university	3
Transit Routes	TRN	Roads that are transit routes	5
Commercial Areas	DD	W/in Designated Downtown	5
	NAC	W/in 0.25 mi of Neighborhood Activity Center	4
Paths, Trails, & Parks	PK	W/in 0.25 mi	3
No Sidewalks on Either Side	SIDE	City policy for at least one sidewalk on every street	5

#2: adequate resources

- \$2.3 million invested FY2007 – FY2012
 - \$460k - \$500k / annual budget
 - Downtown side street investments
 - \$200k grant awards for new sidewalks
 - Work to begin following side street completion
 - Small projects constructed by city forces: Flynn Avenue, Willard Street, Staniford Road
- \$33 million - \$45 million / 72 years to repair all damaged sidewalks
 - = 20 year street paving investment



next steps

- ◎ Evaluating the plan
 - Long-run work is much more efficient than estimated (from 0.82 to 2.29 miles repaired)
 - Rank deficiencies
- ◎ Future planning
 - New inventory
 - Identify target sidewalk condition
 - Fund additional repairs

