



What is non-infrastructure?

- Education
- Encouragement
- Enforcement
- Evaluation





Education







Who needs educational messages?

- 1. Children
- 2. Parents
- 3. Neighbors





1. Educating children

- Pedestrian and bicyclist safety
- Personal safety
- Health benefits
- Environment





Strategies for teaching children



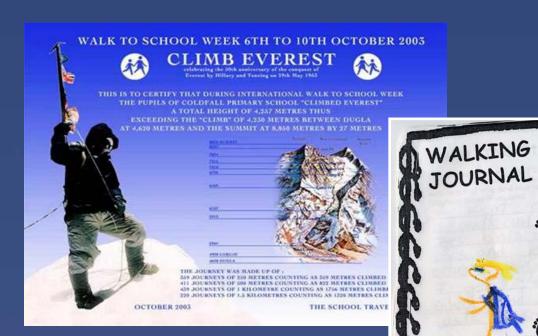




Integrate walking and bicycling education into traditional subjects

Math

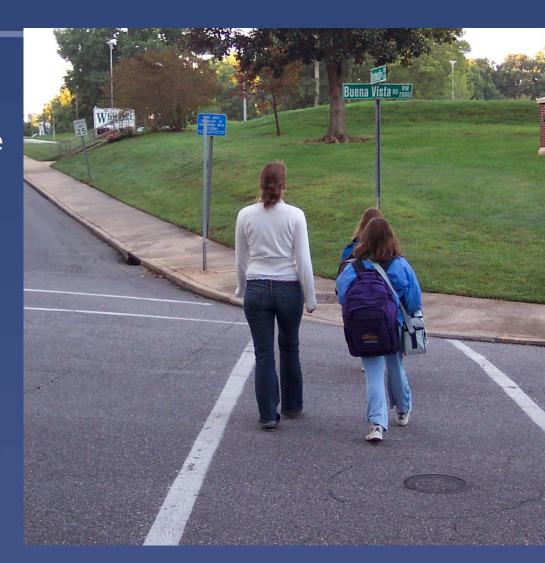
- Biology
- Reading
- Language arts
- Geography



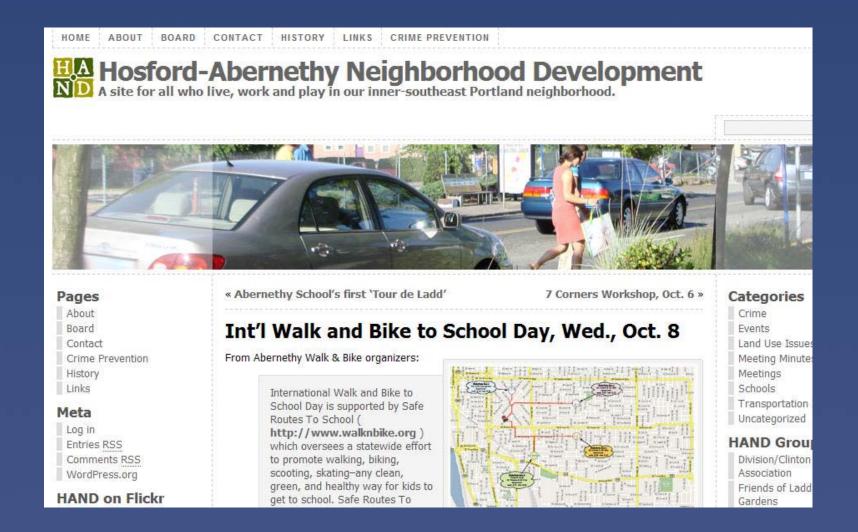


2. Educating parents

- Pedestrian and bicyclist safety guidelines to reinforce with children
- Safe driving near the school
- School pick up and drop off procedures



Strategies for reaching parents



3. Educating neighbors

- Watch for / yield to pedestrians and cyclists
- Drive slowly
- Keep sidewalks clear
- Prune plants



Strategies for reaching neighbors



- Meetings
- Pace Cars



- Signs / Flyers
- Pruning Party



Encouragement







Encouragement programs

- 1. Events
- 2. Walking school buses
- 3. Individual competition
- 4. Contests
- 5. Park and walk sites
- 6. Route map promotion



1. Events



2. Walking school buses and bicycle trains



3. Individual competition



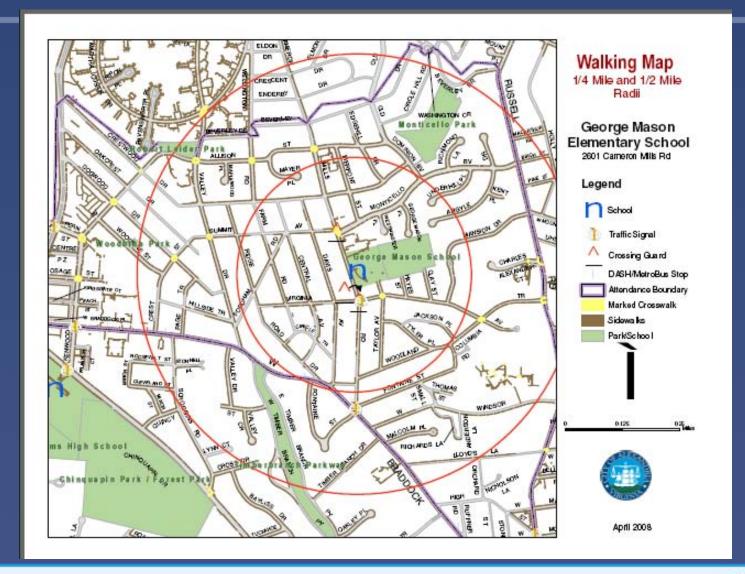
4. Contests



5. Park and walk sites



6. Route map promotion



When it's too far or unsafe

- On-campus options
- Park and walk

Safe Routes to Bus Stops



SRTS in middle schools

Make it relevant

- Encourage students to take ownership
- Hold contests with cool prizes







Enforcement









Role of enforcement

Increase awareness

- Reduce traffic safety problems
- Improve behavior



Unsafe behaviors

- Pedestrian Behavior
- Bicyclist Behavior
- Motorist Behavior

A different way to look at enforcement

- Students
- Parents
- School administration
- Crossing guards
- Law enforcement officers



Enforcement strategies

School and community

Law enforcement



School and community efforts





- Safety patrol
- Driveway monitors
- Crossing guards

Neighborhood speed watch programs

Crossing guard training/equipment



Neighborhood speed watch radar lending programs

Residents use radar units to record speed data in their neighborhood





Role of law enforcement officers

- Teach safety
- Evaluate traffic concerns
- Provide police presence
- Monitor guards and students



Law enforcement methods

- Speed trailers
- Active speed monitors
- Traffic complaint hotline
- Photo enforcement
- Pedestrian 'decoys'
- Progressive ticketing



Active speed monitors

- Permanent vs. Temporary
- Provides feedback and increases awareness





Photo enforcement





Mobile units provide city-wide coverage

Permanent units supplement police efforts



Evaluation







Benefits of Evaluation

- Identify the underlying problem
- Set reasonable expectations
- Identify changes that the public desires
- Determine results

Evaluation Options

- 1. Parent Survey
- 2. Student Talley
- 3. Walk-ability Checklist
- 4. Bike-ability Checklist
- 5. School Site Audit



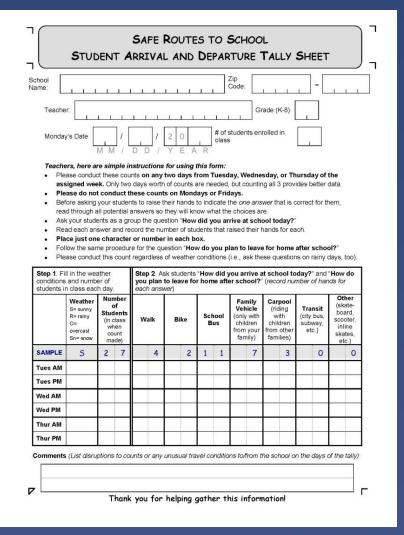
Parent Survey

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- Available in English,
 Spanish, Arabic,
 Chinese, Haitain Creole,
 & Somali
- Completed by parents
- 2-page survey
- Evaluated by National Clearinghouse
- On-line survey option
- www.saferoutesinfo.org

Student Tally

- Multiple Day survey
- 1 page
- Completed by teachers
- Evaluated by National SRTS Clearinghouse
- www.saferoutesinfo.org



Walk-ability Checklist

Take a walk and use this checklist to rate your neighborhood's walkability. How walkable is your community? Location of walk 1. Did you have room to walk? 4. Was it easy to follow safety rules? Could you and your child... ☐ Yes ☐ Some problems: Sidewalks or paths started and stopped Yes No Cross at crosswalks or where you could see Sidewalks were broken or cracked and be seen by drivers? ☐ Sidewalks were blocked with poles, Stop and look left, right and then left signs, shrubbery, dumpsters, etc. again before crossing streets? No sidewalks, paths, or shoulders Walk on sidewalks or shoulders facing Yes No ■ Too much traffic traffic where there were no sidewalks? ☐ Something else ☐ Yes ☐ No Cross with the light? Rating: (circle one) Locations of problems: Rating: (circle one) Locations of problems: 1 2 3 4 5 6 5. Was your walk pleasant? 2. Was it easy to cross streets? ☐ Yes ☐ Some problems: ☐ Yes ☐ Some problems: Road was too wide Needed more grass, flowers, or trees ☐ Traffic signals made us wait too long or did not give us enough time to cross Scarv people ☐ Needed striped crosswalks or traffic signals Not well lighted Parked cars blocked our view of traffic Dirty, lots of litter or trash Trees or plants blocked our view of traffic Dirty air due to automobile exhaust Needed curb ramps or ramps needed repair ■ Something else Something else Rating: (circle one) Locations of problems: Rating: (circle one) Locations of problems: 1 2 3 4 5 6 1 2 3 4 5 6 3. Did drivers behave well? How does your neighborhood stack up? Some problems: Drivers ... Add up your ratings and decide. Backed out of driveways without looking Did not yield to people crossing the street 26-30 Celebrate! You have a great neighborhood for walking ☐ Turned into people crossing the street 21-25 Celebrate a little. Your neighborhood ☐ Drove too fastp is pretty good. Sped up to make it through traffic lights or 16-20 Okay, but it needs work. drove through traffic lights? 11-15 It needs lots of work. You deserve ☐ Something else Rating: (circle one) Locations of problems: 5-10 It's a disaster for walking! 1 2 3 4 5 6 Now that you've identified the problems, go to the next page to find out how to fix them.

- Completed by:
 - Teachers
 - Parents
 - Students
 - Community Members
- 4 page survey
- www.saferoutesinfo.org

Possible Performance Measures

Outcome	Measure Before and After	Direction of Change
Behavior of Children	Number of children walking to and from school Number of children bicycling to and from school Skills for walking and bicycle safety	More Better More
Dobovior of	Number of vehicles arriving and departing school at drop-off and pick-up times	Fewer
Behavior of Drivers	Speed of vehicles in and around school area	Slower
Drivers	Number of driving trips by parents and length of morning and evening commute	Less
Community	Quality of walking environment: number and usefulness of sidewalks and bike lanes	Better
Facilities	Safety oriented intersections	More
Crashes and	Number of traffic crashes involving children walking or biking to and from school	Lower
Injuries	Severity of injuries	Less severe
Community buy-in	Number of different types of people involved in the SRTS effort	More
	Parent enthusiasm about SRTS and allowing their children to walk and bike to school	Higher
Environmental	Level of air and noise pollution in school area	Lower
Quality	Land devoted to parking and drop-off/pick-up areas	Less



Consultant Services





Preliminary Project Considerations

- Identify targetAudience
- Identify Goals
- Identify Resources
 - People
 - Budget
 - Materials



Identify Target

- Parents
- Teachers
- Students
- Community Members



Identify Goals

- Increase
- Decrease
- Educate
- Improve
- Evaluate
- Complete



Remember

S.M.A.R.T.

Goals

Identify Resources

- Educational
- Personnel
- Financial



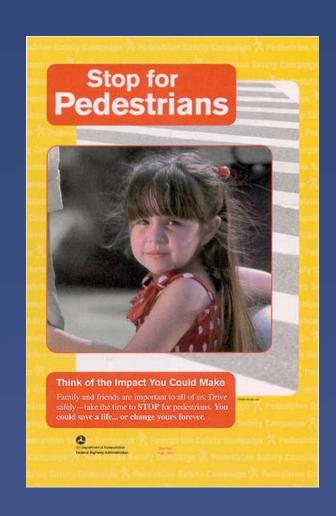
Educational Resources



- Injury Prevention Coalition
- Walk 2 School
- WalkSmart!
- NHTSA Child Pedestrian Safety Curriculum
- Marin CountyBicycle Coalition -SRTS

Free Resources

- www.safety.fhwa.dot.gov
- www.bicyclinginfo.org
- www.walkinginfo.org
- www.saferoutesinfo.org



Reduced Cost

- League of American Bicyclists
- Children-N-Safety Program
- Incentive programs



Personal Resources

- Volunteers
- Other Professionals
- Family Members
- Community Advocates

Volunteer Resources

- Churches
- Civic organizations
 - http://oklahoma.uscity.net/Civic_Organizations/
- Scout Troops
- Local Sports Teams
- Senior Citizen Center





Other Professionals

- Health Educators
- Engineers
- Fire Educators
- Police
 - SRO
 - Crossing Guards









Family Members

- Parents
 - PTA/PTO
 - D.O.G.S
- Grandparents
 - Bring A Grandparent to School
- Older Siblings
 - Walking Buddies



Community Advocates

- League of American Bicyclist
- CherokeeChallenge
- MS 150
- Nat'l MultipleSclerosis
- Bicycle Clubs





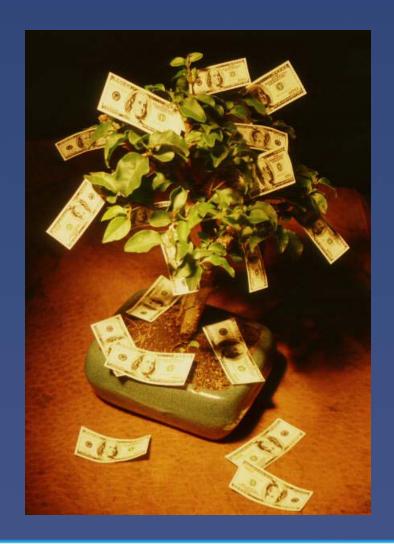






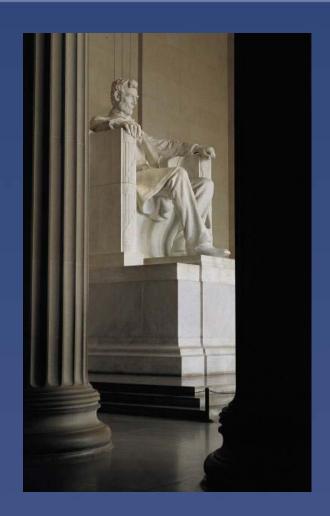
Financial Resources

- Federal
- State Funding
- Local Funding
- Private Funding



Federal Funding

- SRTS National Clearinghouse
- Federal HighwayAdministration



State Funding

- Community Developmen Safe Routes
 Block Grants (CDBG)
 - REAP Grants
- Department of Health
- SPR Grant
- DARS
- Safe Cyclist
- Oklahoma DOT





Local Funding

- Capital Improvement Projects (CIP)
- Unified Work Plan (UWP)
- Transportation Improvement Plan (TIP)
- Intelligent Transportation System (ITS)
- Special Traffic Enforcement Program (STEP)
- Congestion Mitigation and Air Quality Improvement (CMAC)
- Surface Transportation Program (STP)
- Existing Operating Budgets

Private Funding

- Corporations and businesses
- Foundations
- Individuals
- Chamber of Commerce
- EDC
- Hospitals







Best practices

Because the prescriptions of most success studies lack an empirical foundation, they should not be treated as how-to manuals, but as a source of inspiration and fuel for introspection. In short, their value is not what you read in them, but what you read into them.

Michael E. Raynor, Mumtaz Ahmed and Andrew D. Henderson

Enforcement

- Community
 - Parents
 - Crossing Guard
 - School Personnel

- Passive control
- Positive Rewards
- Provide Training



Safety patrol



Pedestrian 'decoys'



Caught Being Good



Wilmette, IL

Progressive ticketing

- First: educate
- Second: warn
- Third: ticket

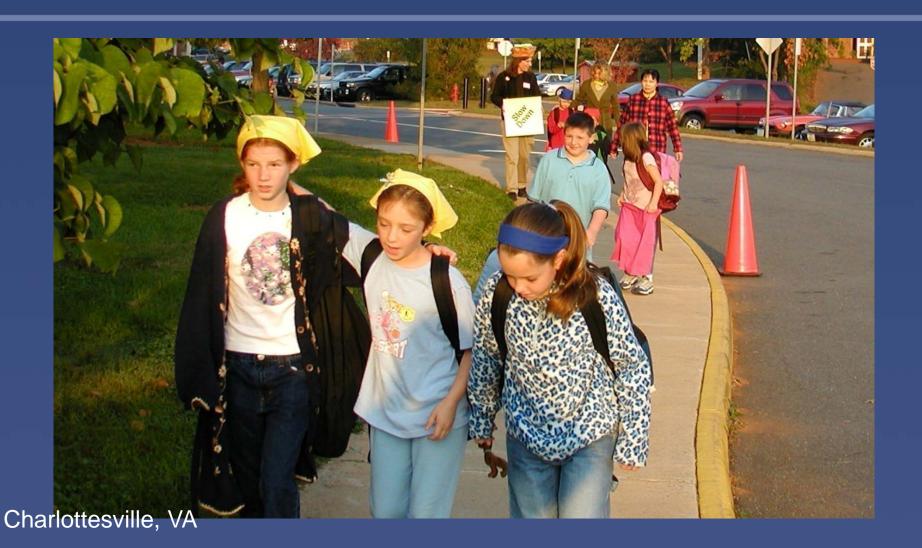


Encouragement

- Low hanging fruit
- The more, the merrier
- Repetitive
- Focus on "Fun"
- Teachable Moments



Walking Wednesdays



Golden Sneaker Award

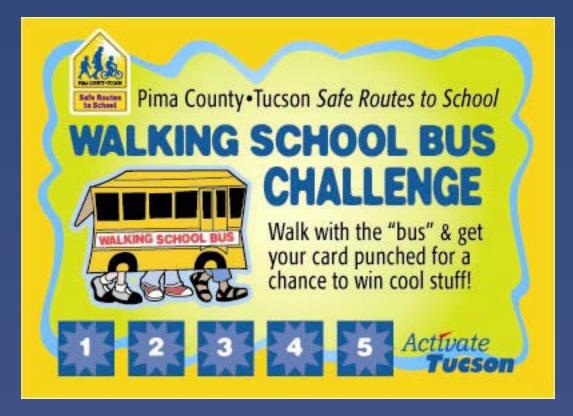


Larkspur, CA

Principals Leading the Way



Punch cards



Tucson, AZ

Go for Gold program

- Buckinghamshire County, UK
- Gold card, stamped when walk
- Car use reduced from 62% to 26% in ONE YEAR
- Still low (13%) in 2007





iWalk 2011

Blanchard Elementary



Elgin Schools



Choctaw Elementary

Education



- Who?
- When?
- Where?
- What?
- Why?

After School Bike Club



Institutionalized Safety Education



Bicycle Rodeos



Junior Ambassadors



Alexandria, VA

Chicago, IL

Evaluation

- Useful
- Feasible
- Accurate
- Fair

Ask t	he district transportation office for the following information. In	most district	s, this will not b	be readi
	able and will require some investigation or computation.		-,	
D	What number of the students live:	With	in the walk bou	ındarv
			in 1 mile of the	
			in 1.5 miles of	
E	Does the map designate walking routes to the school from		No (If no, skip t	
	the surrounding area?			,
F	If so, count lines leading to school at a one-block radius	walkı	outes at 1-bloc	k radius
	away from the school.			
G	How far is the farthest distance routes extend away from the	(ci	rcle: miles fee	t meter
	school grounds?			
H	What is the shortest distance to the walk boundary?	(ci	rcle: miles fee	t meter
I	If the walk boundary is less than one mile in any direction,	North_		
	what defines the boundary? (e.g., natural barrier such as	East		
	river or lake; built barrier such as divided highway or train	South		
	tracks; hazard such as busy street)	West		
	on 3 – Programs			
A	Is there a walk to school program at this school?	☐ Yes, staf		
			A or parent volu	ınteer
ъ.		□ No	m and m	
В	Is pedestrian safety education incorporated into the school	☐ Teachers	s □ 3 rd Party	□ No
	curriculum (by teachers) or provided by third party (e.g.,			
_	police, public health, non-profit)?			
C	Is bicycle safety education incorporated into the school	☐ Yes	□ No	
	curriculum? (e.g., in PE class, after school programs, etc.)			
D	Does the police department conduct a program of targeted	☐ Yes	□ No	
	traffic enforcement around the school? (related to speeding,			
Е	motorists violating the crosswalk law, etc.)	□ Yes	□ No	
E	Does the school have an program that encourages families or children to walk to school (e.g., Walking School Bus,	□ res	□ No	
F	parents stationed along the walk routes)	□ Yes	□ No	
G	Is there a school safety patrol program?	□ Yes	□ No	
H	Are there paid school crossing guards at any crossings? Are there unpaid/volunteer school crossing guards at any	□ Yes	□ No	
n	Are there unpaid/volunteer school crossing guards at any crossings?	□ Ies	□ 140	
Section	on 4 – Policy & Planning			
A	Is there a plan for drop off and pick up that separates cars	□ Yes	□ No	
	and buses from arriving foot traffic?	_ 103	L 110	
В	Does the school discourage parents from driving their	□ Yes	□ No	
D	children to school?	_ 103	□ 110	
C	Does the school have any policies to minimize driving to	□ No idii	ng campaign	
_	school among parents and/or staff?	☐ Limits	parkine	
	senoor among parents and/or starr.		lity promotion	
			with arranging	carnool
			ot provide free	
			s parents to par	
			om school	
			se describe)	

Frequent walker/bicyclist program

