

MANAGING SPEED on Hillsborough's High Injury Network

Presented by:
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GPI

What it is:

- Furtherance of Hillsborough MPO Vision Zero policy
- Furtherance of Hillsborough Complete Streets policy
- Next step toward reducing fatal and serious injury crashes
- Identification of national best practices on speed management
- Update on TOP20 HIN trends and potential solutions

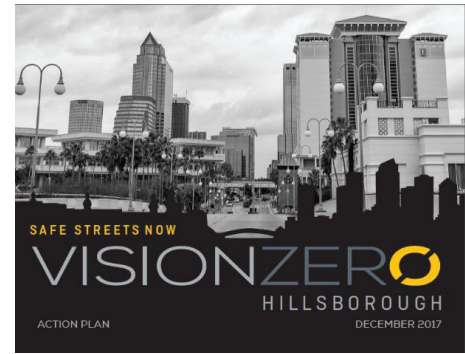
What it is not:

- A new policy statement
- Directive to any agency



Vision Zero Action Plan

- Future is not like the past
- Consistent & Fair
- Paint Saves Lives
- One message, many voices



Future will not be like the past - Goal 1

Short-term action

- Enhance requirements in local land development codes

Mid-term actions

- Enhance requirements in technical manuals
- Revisit and update maintenance of traffic policies
- Provide professional training opportunities

Long-term action

- **Develop context classifications and target speeds within Vision Zero corridors, consistent with FDOT Complete Streets guidelines.**



WHY IS IT IMPORTANT?

- Florida - most dangerous state for pedestrians and bicyclists in recent history
- Nations Top 10 metro areas with highest pedestrian fatalities
 - Cape Coral
 - Palm Bay
 - Orlando
 - Jacksonville
 - Daytona Beach
 - Lakeland
 - Tampa/St. Petersburg
 - Sarasota/Bradenton

The Most Dangerous Place to Bicycle in America

the highest cyclist death rate in the T- rate of any metro re

Dangerous by Design 2016

Smart Growth America

On average, a person is dying on Hillsborough streets every other day!

BABY, 10 MONTHS, DIES IN I-75 CRASH

TBadman | October 6, 2018



1-75 in the outside lane when she veered to the left to avoid debris in the roadway. Sakor lost control of the Hyundai, which traveled to the center median and collided with the guardrail. The car rolled and came to a final rest. As it rolled, the baby and the 3-year-old were thrown from the car and the 3-year-old was injured.

Florida Highway Patrol #187 #75Crash #TampabayNews

Two other children, ages 3 and 8, suffered in the single-vehicle crash. PHF troopers said children were in car seats or wearing seat belts. HILLSBOROUGH COUNTY - A 10-month-old when thrown from a car during a crash on I-75, Highway Patrol said.

Two other children, ages 3 and 8, were taken to hospital with minor injuries. The grandsons of the available PHF troopers said none of the children or otherwise reported.

The crash happened about 3.11 p.m. on northbound Fletcher Avenue at about the 266 mile marker in County. Troopers said Sakor was driving a 2008 Hyundai

BICYCLIST DIES IN HIT AND RUN CRASH

TBadman | September 24, 2018



Alcohol is suspected as a factor in the Hillsborough County - A Riverside (Sept. 23) when the bicyclist he was riding) fled the scene. The Hillsborough County of John Diligent, 73, of Riverside, died at the The crash happened about 9:42 a.m. on Hillsborough County.

Mr. Diligent was riding a yellow Duro motor on Kings Avenue when he was struck from behind by a car. A witness called 911 to report a person down near the intersection of Cape Drive.

Diligent and paramedics from Hillsborough answered the calls and found Mr. Diligent. Alcohol is suspected to have contributed to Diligent's condition.

Diligent sustained a potential skull fracture and other injuries. Hillsborough Sheriff's Office and Hillsborough Sheriff's Office are investigating the crash.

Hillsborough Sheriff's Office and Hillsborough Sheriff's Office are investigating the crash. Hillsborough Sheriff's Office and Hillsborough Sheriff's Office are investigating the crash.

RIVERVIEW MAN DIES IN I-75 CRASH

TBadman | October 9, 2018



The pickup truck he was on PHF troopers. HILLSBOROUGH COUNTY - A Hillsborough County (Oct. 9) in a single-vehicle crash. Thomas Miller IV, 43, of River was driving a 2011 Ford. The crash happened about 1:30 p.m. on northbound Fletcher Avenue at about the 266 mile marker in County. Troopers said Mr. Miller was driving a 2011 Ford. The crash happened about 1:30 p.m. on northbound Fletcher Avenue at about the 266 mile marker in County. Troopers said Mr. Miller was driving a 2011 Ford.

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BRUCE B. DOWNS CRASH KILLS TWO

TBadman | October 11, 2018



The six-vehicle crash closed the northbound lanes for several hours. TAMPA - Two people are dead and one is in a vehicle crash Wednesday (Oct. 10) on Hillsborough County. The Tampa Police Department.

Mohamed Saad Hamdan Su Al Toobi, 41, driving an Infiniti QX57, died at a local hospital after the crash. His front-end passenger's name was withheld pending the back seat passenger was taken to a hospital with injuries and was listed in critical condition.

The driver of one of the other vehicles was not in the crash. Hillsborough Sheriff's Office and Hillsborough Sheriff's Office are investigating the crash.

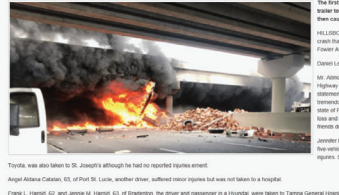
The crash happened about 5:27 p.m. at the intersection of Bruce B. Downs Boulevard and Hillsborough Avenue. Hillsborough Sheriff's Office and Hillsborough Sheriff's Office are investigating the crash.

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ONE DEAD IN FIERY CRASH AT I-75 AND FOWLER AVENUE

TBadman | October 3, 2018

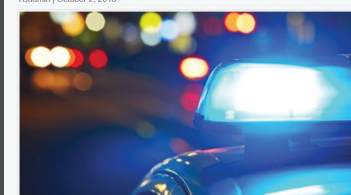


The first crash was on I-75. That collision caused the tractor-trailer to roll over and become airborne. The crash happened about 1:30 p.m. on northbound Fletcher Avenue at about the 266 mile marker in County. Troopers said Mr. Miller was driving a 2011 Ford.

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BRANDON MOTORCYCLIST DIES IN CRASH

TBadman | October 2, 2018



Florida Highway Patrol HILLSBOROUGH COUNTY - A Hillsborough County (Oct. 1) in a crash. Hillsborough County Sheriff's Office.

Ryan James Simpson, 33, of Tampa, died at a local hospital after the crash. His front-end passenger's name was withheld pending the back seat passenger was taken to a hospital with injuries and was listed in critical condition.

Study Objectives

GOAL

- Improve public health and safety by reducing road fatalities and serious injuries.

DESIRED OUTCOMES

- *Improved safety experience* for all road users - pedestrians, bicyclists, and motorists.
- *Increase awareness* of the dangers of speeding.
- *Institutionalize good practices* in road design, traffic operations, engagement, enforcement and safety.
- Identify *supportive policies, programs and infrastructure* improvements to meet safety goal.
- Obtain *cooperation and support* of stakeholders.

SPEED MANAGEMENT ACTION PLAN - Study Scope

- Task 1 - Stakeholder Involvement
- Task 2 - Speed Management Practices
- Task 3 - Corridor Prioritization
- Task 4 – Next30 High Injury Corridors
- Task 5 - Speed Management Action Plan



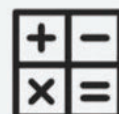
STEP 1



STEP 2



STEP 3



STEP 4



STEP 5

Task 1 - STAKEHOLDER ENGAGEMENT

Partners & Stakeholders

- Hillsborough County MPO
- Hillsborough County
- Hillsborough County School District
- City of Tampa
- City of Temple Terrace
- Plant City
- Law Enforcement
- FDOT
- HART
- THEA
- Florida Health Department



TASK 2 - SPEED MANAGEMENT PRACTICES

- Existing Speed Management Practices
- Industry Best Practices
 - Statewide & National



Education



Engineering



Enforcement



Equity



Evaluation

ROAD TO ZERO



“...incremental progress is no longer acceptable given the increasingly rapid advances in technology and the wealth of knowledge about how to prevent crashes...”

with the right *policies*, *technologies*, and *strategy*, we could *prevent all roadway deaths*”

USDOT, National Safety Council

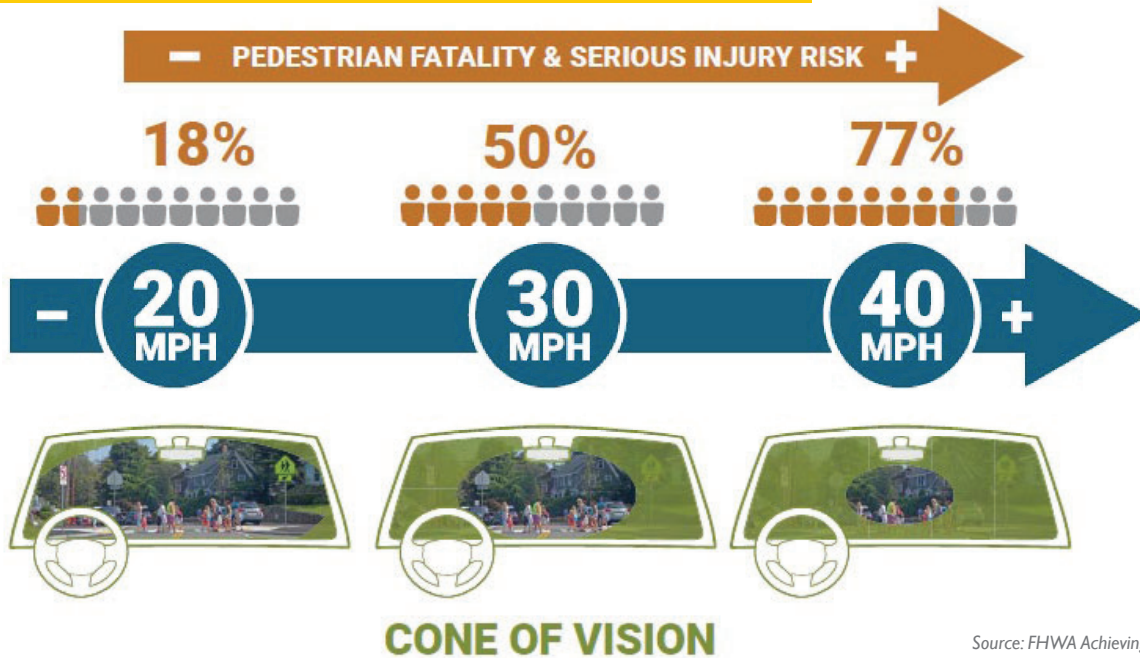
MANAGING SPEED

- Speeding kills more than 10,000/year
- On par with drunk driving
- Doesn't carry the same social consequences
- 30% of all fatal crashes nationwide
- Societal cost = \$40 Billion annually
- National problem, effective solutions must be applied locally



Source: USDOT, NHTSA 2016 Traffic Safety Facts

SPEED TAKES THE BACK SEAT



SPEED MATTERS MOST

FOR A SAFER NYC
SPEED LIMIT 25
VISION ZERO

VISION ZERO NETWORK
@Visionzeronet

As traffic deaths soar, #VisionZero cities pursue lower speed limits & new road design. Learn why Portland leads the movement in our upcoming webinar: bit.ly/2yNeq0B

20 MPH NEIGHBORHOOD GREENWAYS

SPEED LIMIT REDUCTION RESULTS

Seattle

- 40% in crashes
- 30% in injury crashes

NYC

- 14% in crashes
- 49% in pedestrian crashes
- 42% in bicyclist crashes

Mexico City

- 18% in crashes

Boston

- 30% in speeds over 35 MPH

Other Cities

- Washington, DC
- Portland, OR
- Cambridge, MA
- Albuquerque, NM
- Nashville, TN
- Minneapolis
- St. Paul
- Boulder, CO

SEATTLE

SPEED LIMITS
ARTERIAL 25
NON-ARTERIAL 20
 UNLESS OTHERWISE POSTED

FOR A SAFER BOSTON

SPEED LIMIT 25

Boston has a new default speed limit.

IF YOU DON'T SEE A SIGN, THE SPEED LIMIT IS 25 MPH.

HELP SPREAD THE WORD. Talk with your family, neighbors, and friends about the speed limit change.

SHOW YOUR SUPPORT. Visit boston.gov/25mph to learn how to show your support for the change.

BE AWARE OF YOUR SPEED. Exceeding the speed limit is a traffic violation. You can help save lives if you crash. Please take responsibility to avoid serious injury or death.

WHY THE CHANGE? Reducing driving speeds from 30 mph to 25 mph will help reduce the risk for people of all ages and reduce walking, driving, and bicycling over streets.

17% 0.5% 47%
 LIKELIHOOD OF SEVERE OR FATAL INJURY

WHICH STREETS ARE AFFECTED? The default speed limit applies to all streets without speed limit signs. Some streets will have signs with higher or lower speed limits.

EFFECTIVE 01.09.17

BOSTON.GOV/25MPH #VISIONZEROBOSTON.ORG

Task 2 - WHAT IS SPEED MANAGEMENT?

SPEED MANAGEMENT PLAN ATTRIBUTES:

- Data-driven - crash, roadway, user, landuse data
- Applying road design, traffic operations, & safety measures
- Setting “appropriate/rational/desirable/safe” speed limits
- Institutionalize good practices
- Supportive enforcement efforts
- Effective outreach & public engagement
- Cooperation by traffic safety stakeholders



Task 2 - WHAT IS SPEED MANAGEMENT?

FLETCHER AVENUE COMPLETE STREETS PROJECT BEFORE / AFTER Analysis

- Fatal crashes reduced by ~60%
- Serious injury crashes reduced by ~46%
- Average vehicle speeds reduced
- Over 83% of compliance by pedestrians and over 97% compliance by motorists at midblock crossings
- Traffic volumes increased
- Depending on direction of travel, average travel times either decreased, remained the same, or increased at the most by 87 seconds



Notable improvements:

- Speed limit reduced from 45mph to 35mph
- 5 mid-block crossings with RRFB's
- 1 mid-block crossing with full signal
- LED lighting as pedestrian crossings
- Landscaped refuge islands, medians, and raised separators

TASK 3 - CORRIDOR PRIORITIZATION

- Evaluate Top 20 HIN Corridors
- Develop Metrics for Prioritization
 - Severity
 - Equity
 - Focus on Pedestrian Crashes
 - Proximity to Schools
 - Ease of Implementation

**PROTECT
#EVERYSCHOOL
WITH SPEED SAFETY
CAMERAS**



Education



Engineering



Enforcement



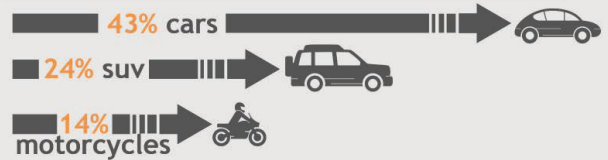
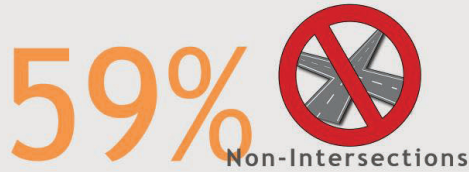
Equity



Evaluation

HIN Crash Statistics (2014-2018)

Fatal Crash Characteristics



Example Assessment -Posted Speed & Context Class

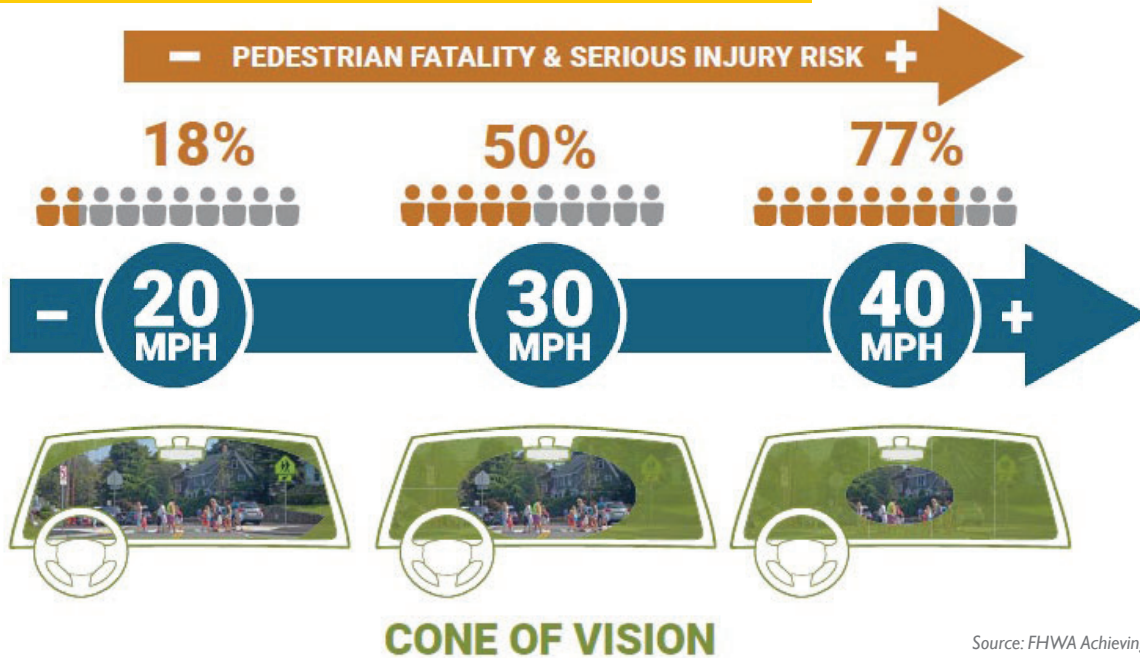
Overall

- 70% are 5-10MPH over National Practice
- 15% are 15-20MPH over National Practice

Corridor	Road Classification	Context Classification	ITE/CNU Class Speed Range*	Posted Speed (MPH)	Conflict Range (MPH)
Brandon Blvd from Falkenburg Rd to Dover Rd	Principal Arterial	C3 (35-55)	25-35 Max	45,50, 55	10-20
Gibsonton Dr/Boyette Rd from I-75 to Balm Riverview Rd	Arterial	C3 (35-55)	25-35 Max	45	10
Hillsborough Ave from Longboat Blvd to Florida Ave	Principal Arterial	C3 (35-55)	25-35 Max	45, 50	10-15
Fletcher Ave from Armenia Ave to 50th St	Principal Arterial	C3 (35-55)	25-35 Max	35, 40, 45	5-10
Dale Mabry from Hillsborough Ave to Bearss Ave	Principal Arterial	C3-C4 (30-45)	25-35 Max	45	10
Lynn Turner from Gunn Hwy to Ehrlich Rd	Arterial	C3 (35-55)	25-35 Max	45	10
Meridian Ave from Channelside Dr to Twiggs St	Arterial	C6 (25-30)	25-30 Max	40	10
Bruce B Downs from Fowler Ave to Bearss Ave	Arterial	C3 (35-55)	25-35 Max	45	10
50th/56th St from MLK Blvd to Hillsborough Ave	Principal Arterial	C3 (35-55)	25-35 Max	45	10
15th St from Fowler Ave to Fletcher Ave	Collector	C4 (30-45)	25-35 Max	30	0
Big Bend Road from US41 to I75	Arterial	C3 (35-55)	25-35 Max	45	10
US301 from I75 to Adamo Dr	Principal Arterial	C3 (35-55)	25-35 Max	50	15
Sheldon Rd from Hillsborough Ave to Water Ave	Arterial	C3 (35-55)	25-35 Max	45	10
I4 from I275 to 22nd St	Freeway	Urban (50-70)	50-70	55	0
56th St from Sligh Ave to Busch Blvd	Principal Arterial	C4 (30-45)	25-35 Max	35, 45	10
I275 from Howard Frankland Bridge to Busch Blvd	Freeway	Urban (50-70)	50-70	55, 60	0
Kennedy Blvd from Dale Mabry to Ashley Dr	Principal Arterial	C4 (30-45)	25-35 Max	40, 45	5-10
78th St from Causeway Blvd to Palm River Rd	Arterial	C4 (30-45)	25-35 Max	45	10
CR579/Mango Rd from MLK Blvd to US92	Arterial	C4 (30-45)	25-35 Max	45	10
Florida Ave from Waters Ave to Linebaugh Ave	Arterial	C4 (30-45)	25-35 Max	40, 45	5-10

*Designing Walkable Urban Thoroughfares: A Context Sensitive Approach- An ITE Recommended Practice, ITE, CNU, 2010

SPEED TAKES THE BACK SEAT



Prioritization Factors

Identified-
Risk Performance Level

Performance Level	
	High
	Medium
	Low

- Posted speed vs. context Class
- Regional equity (low income, Commissioner districts)
- Crash history
- Proximity to schools
- Ped/bike injuries
- Transit service route
- Geometric features (volumes, lanes, intersection spacing)



Top 20 - Priority Matrix

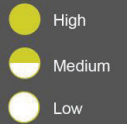
Corridor and Extent

		Crash Severity / Mile	Ped/Bike Crash Rate / Mile	Schools / Mile	Equity CoC Coverage	Posted Speed - Context Class Conflict	Transit Routes	High Volumes	
Brandon Blvd	Falkenburg Rd to Dover Rd	High	Medium	High	Low	High	Medium	Medium	5.3
Gibsonton Dr/Boyette Rd	I-75 to Balm Riverview Rd	High	Low	High	Low	High	Low	Low	4.7
Hillsborough Ave	Longboat Blvd to Florida Ave	Medium	High	High	Low	High	Medium	Medium	5.7
Fletcher Ave	Armenia Ave to 50th St	Medium	High	Low	High	High	Medium	Medium	5.3
Dale Mabry	Hillsborough Ave to Bearss Ave	Medium	Medium	Low	High	High	Medium	Medium	5.7
Lynn Turner	Gunn Hwy to Ehrlich Rd	Medium	Low	Low	High	High	Low	Low	3.3
Meridian Ave	Channelside Dr to Twiggs St	High	Low	Medium	High	High	Medium	Medium	4.7
Bruce B Downs	Fowler Ave to Bearss Ave	Medium	High	Medium	High	High	Medium	Medium	6.0
50th/56th St	MLK Blvd to Hillsborough Ave	Medium	Low	Medium	High	High	High	Low	5.0
15th St	Fowler Ave to Fletcher Ave	High	High	Low	High	High	Low	Low	4.3
Big Bend Road	US41 to I75	Medium	Low	High	High	High	Low	Low	4.0
US301	I75 to Adamo Dr	Medium	Low	Low	High	High	Low	Low	3.7
Sheldon Rd	Hillsborough Ave to Water Ave	Medium	High	High	High	High	Medium	Low	5.3
I4	I275 to 22nd St	High	Low	Low	High	High	High	High	3.7
56th St	Sligh Ave to Busch Blvd	Medium	High	Medium	High	High	Medium	Medium	5.0
I275	Howard Frankland Bridge to Busch Blvd	Low	Low	Medium	High	High	High	High	4.0
Kennedy Blvd	Dale Mabry to Ashley Dr	High	Medium	Medium	High	High	Medium	Medium	5.3
78th St	Causeway Blvd to Palm River Rd	High	Medium	Low	High	High	Low	Low	4.3
CR579/Mango Rd	from MLK Blvd to US92	Medium	Low	High	High	High	Low	Low	4.0
Florida Ave	Waters Ave to Linebaugh Ave	High	High	Low	High	High	High	High	5.7

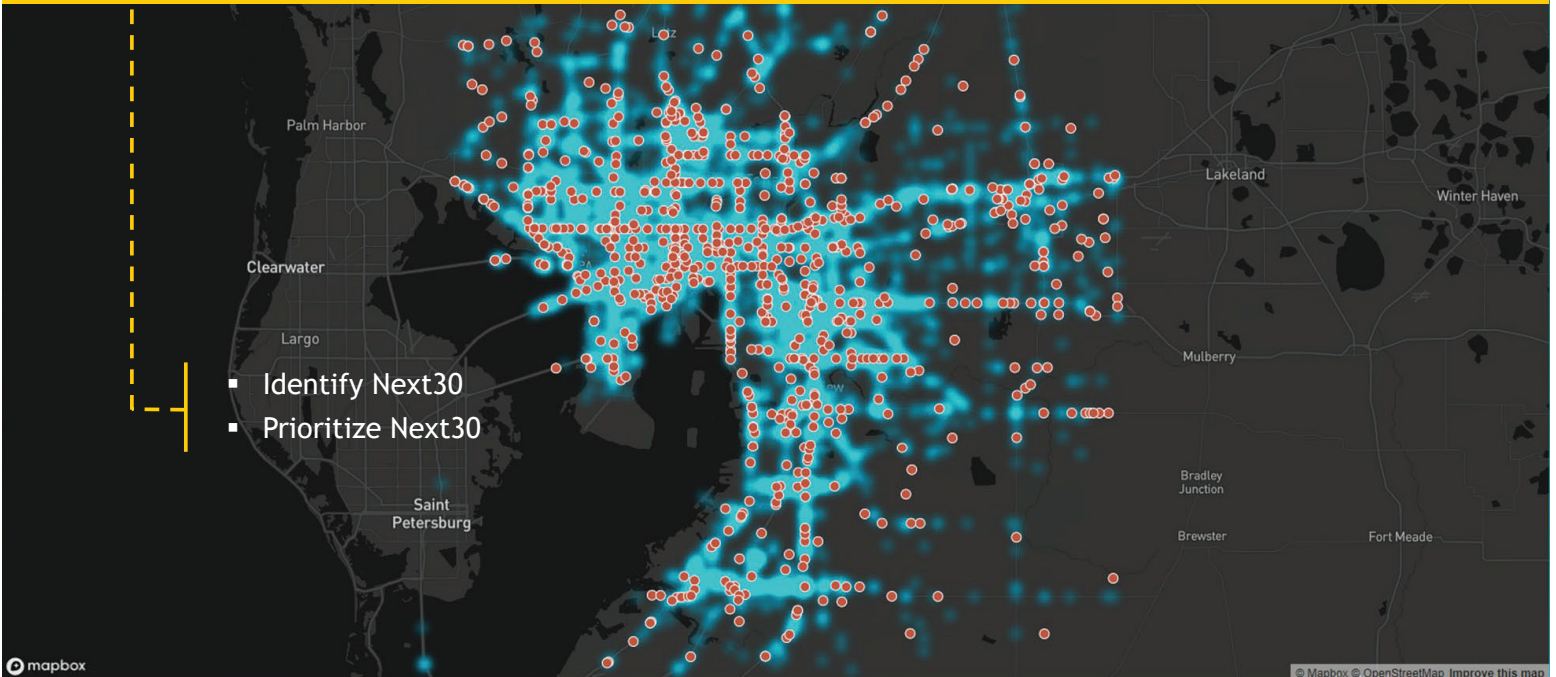
Priority Scoring



Performance Level



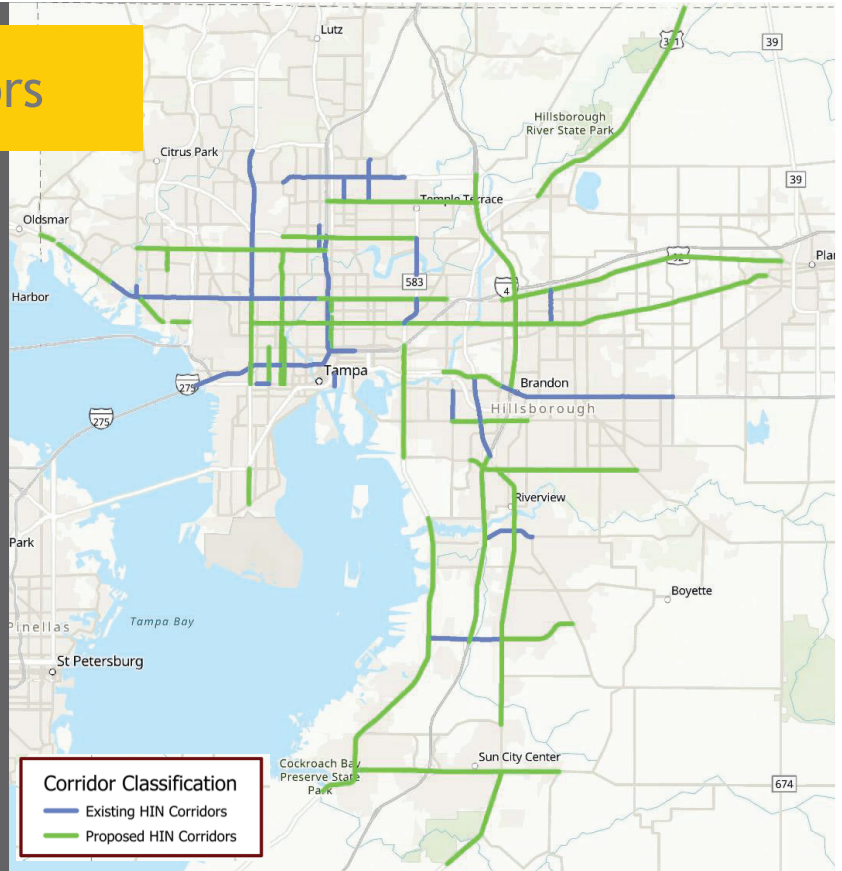
TASK 4 - Next Top 30 HIN Corridors



- Identify Next30
- Prioritize Next30

Next30 High Injury Corridors

- Bloomington Ave - US Hwy 301 to Lithia Pinecrest Rd
- US Hwy 41 - Gulf City Rd to Riverview Dr
- US Hwy 301 - 19th Ave to Bloomington Ave
- M L King Blvd - Dale Mabry Hwy to Parson Ave
- US Hwy 41 - Madison Ave to I4
- Big Bend Rd - I75 to Balm Riverview Rd
- Busch Blvd - Armenia Ave to 56th Street
- SR 674 (Sun City Ctr Blvd) - US Hwy 41 to CR579
- I-75 - SR 60 to Fletcher Ave
- Hillsborough Ave - Florida Ave to Orient Rd
- Waters Ave - Sheldon Road to Dale Mabry Hwy
- Fowler Ave - I275 to I75
- US Hwy 301 - SR 674 to Lightfoot Rd
- I-75 - Big Bend Rd to US Hwy 301
- SR 60 /Adamo Dr - Orient Rd to Falkenburg Rd
- Causeway Blvd - 78th St to Providence Rd
- Waters Ave - Dale Mabry Hwy to Nebraska Ave
- Progress Blvd - Falkenburg Rd to US Hwy 301
- Hillsborough Ave - Race Track Rd to Longboat Blvd
- Memorial Hwy - Hillsborough Ave to Veterans Expwy
- Hanley Rd - Woodbridge Blvd to Waters Ave
- Dale Mabry Hwy - Interbay Blvd to Gandy Blvd
- Howard Ave - Kennedy Blvd to Tampa Bay Blvd
- Dale Mabry Hwy - Kennedy Blvd to Hillsborough Ave
- US Hwy 92 - Falkenburg Rd to Thonotosassa Rd
- Nebraska Ave - Columbus Ave to Hillsborough Ave
- US Hwy 301 - Stacy Rd to County Line
- Armenia Ave - Tampa Bay Blvd to Waters Ave
- MacDill Ave - Kennedy Blvd to Columbus Dr
- M L King Blvd - McIntosh Rd to Sammonds Rd



Next 30 - High Injury Corridors Priority Matrix

Corridor and Extent		Crash Severity / Mile	Schools / Mile	Equity CoC Coverage	Posted Speed - Context Class Conflict	High Volumes	
Bloomington Ave	US Hwy 301 to Lithia Pinecrest Rd	High	High	Low	High	High	4.0
US Hwy 41	Gulf City Rd to Riverview Dr	High	Medium	Low	High	Low	2.0
US Hwy 301	19th Ave to Bloomington Ave	High	High	Low	High	High	4.0
M L King Blvd	Dale Mabry Hwy to Parson Ave	High	High	High	High	Low	3.3
US Hwy 41	Madison Ave to I4	High	Low	Low	High	High	3.3
Big Bend Rd	I75 to Balm Riverview Rd	High	High	Low	High	Low	3.7
Busch Blvd	Armenia Ave to 56th Street	High	High	High	High	Low	4.7
SR 674 (Sun City Ctr Blvd)	US Hwy 41 to CR579	High	Medium	Low	High	Low	3.7
I-75	SR 60 to Fletcher Ave	High	Low	Low	High	High	3.0
Hillsborough Ave	Florida Ave to Orient Rd	High	Medium	Low	High	High	3.0
Waters Ave	Sheldon Road to Dale Mabry Hwy	High	Medium	High	High	High	4.3
Fowler Ave	I275 to I75	High	High	High	High	High	4.7
US Hwy 301	SR 674 to Lightfoot Rd	High	Medium	Low	High	Low	3.3
I-75	Big Bend Rd to US Hwy 301	Medium	Medium	Low	High	High	2.0
SR 60 / Adamo Dr	Orient Rd to Falkenburg Rd	Medium	Low	Low	High	High	3.0
Causeway Blvd	78th St to Providence Rd	Medium	Medium	Low	High	High	3.7
Waters Ave	Dale Mabry Hwy to Nebraska Ave	Medium	Medium	Low	High	Low	3.3
Progress Blvd	Falkenburg Rd to US Hwy 301	Medium	High	Low	High	Low	3.3
Hillsborough Ave	Race Track Rd to Longboat Blvd	Medium	High	Low	High	High	3.3
Memorial Hwy	Hillsborough Ave to Veterans Expwy	Medium	High	Low	High	High	3.7
Hanley Rd	Woodbridge Blvd to Waters Ave	Medium	High	Low	High	Low	3.0
Dale Mabry Hwy	Interbay Blvd to Gandy Blvd	Medium	High	Low	High	High	3.7
Howard Ave	Kennedy Blvd to Tampa Bay Blvd	Medium	High	Low	High	Low	3.7
Dale Mabry Hwy	Kennedy Blvd to Hillsborough Ave	Medium	High	Low	High	High	3.7
US Hwy 92	Falkenburg Rd to Thonotosassa Rd	Medium	High	Low	High	Low	2.7
Nebraska Ave	Columbus Ave to Hillsborough Ave	Medium	High	Low	High	Low	3.7
US Hwy 301	Stacy Rd to County Line	Medium	Low	Low	High	High	2.7
Armenia Ave	Tampa Bay Blvd to Waters Ave	Medium	High	Low	High	Low	3.7
MacDill Ave	Kennedy Blvd to Columbus Dr	Medium	High	Low	High	Low	3.0
M L King Blvd	McIntosh Rd to Sammonds Rd	Medium	Low	Low	High	Low	2.3

Priority Scoring

- High
- Medium
- Low

Performance Level

- High
- Medium
- Low

TASK 5 - Speed Management Action Plan

- Strategies and Countermeasures
- Actions and Implementation Strategy



Education



Engineering



Enforcement



Equity



Evaluation

Vision Zero Principles



Aggressive Driving Crash Countermeasures (cont.)

Countermeasure	Area Type			Location Type			Effects		
	Urban (C4,C5,C6)	Suburban (C3)	Rural (C1-C2)	Intersection	Slow Street	Arterial / Corridor	Crash Reducing	Speed Reducing	Severity Reducing
Safe Streets:									
Chicanes / Lateral Shifts	✓	✓		✓	✓	✓		✓	✓
Full / Half Closure	✓			✓	✓	✓	✓	✓	✓
Lane Width (10 foot standard)	✓	✓		✓	✓	✓	✓	✓	✓
Road Diet (repurpose space)	✓	✓	✓	✓	✓	✓	✓	✓	✓
Gateway Treatment	✓	✓	✓	✓	✓	✓	✓	✓	✓
Roundabout	✓	✓	✓	✓	✓	✓	✓	✓	✓
Mini Traffic Circle	✓	✓	✓	✓	✓		✓	✓	✓
Speed Tables/Raised Intersections	✓	✓		✓	✓	✓		✓	✓
Bulb Outs	✓	✓	✓	✓	✓	✓	✓	✓	✓
Corner Radii / Radius Reduction	✓	✓	✓	✓	✓	✓		✓	✓
Centerline Hardening	✓	✓		✓	✓	✓	✓	✓	✓
Eliminate Acceleration Lanes	✓	✓		✓	✓	✓	✓	✓	✓
Eliminate Deceleration Lanes	✓	✓		✓	✓	✓		✓	✓
Eliminate Right Turn Channelization	✓	✓		✓	✓	✓	✓	✓	✓
On-Street Parking	✓	✓			✓	✓		✓	✓
Tactical Urbanism-Quick Fixes	✓	✓	✓	✓	✓	✓	✓	✓	✓
Provide Street / Pedestrian Lighting	✓	✓		✓	✓	✓	✓	✓	✓
Convert to Two-Way Streets	✓	✓	✓		✓	✓		✓	✓
Enhanced Curve Delineation	✓	✓	✓		✓	✓	✓	✓	✓
Optical Speed Bars/ Converging Chevrons	✓	✓	✓			✓	✓	✓	✓
Re-evaluate Context Class	✓	✓	✓	✓	✓	✓	✓	✓	✓
Re-evaluate Target Speed Limit	✓	✓	✓		✓	✓	✓	✓	✓

Aggressive Driving Crash Countermeasures (cont.)

Countermeasure	Area Type			Location Type			Effects		
	Urban (C4,C5,C6)	Suburban (C3)	Rural (C1-C2)	Intersection	Slow Street	Arterial / Corridor	Crash Reducing	Speed Reducing	Severity Reducing
Safe Freeway Interchanges:									
Eliminate Acceleration Lanes	✓	✓	✓		✓	✓	✓	✓	✓
Redesign High Speed Exit Ramps	✓	✓	✓		✓	✓	✓	✓	✓
Redesign High Speed On-Ramps	✓	✓	✓		✓	✓	✓	✓	✓
Transverse(in lane) Rumble Strips	✓	✓	✓		✓	✓	✓	✓	✓
Provide Safe Continuous Bike Lanes	✓	✓			✓	✓	✓	✓	✓
Provide Safe Pedestrian Crossings	✓	✓			✓	✓	✓	✓	✓
Re-evaluate Context Class	✓	✓	✓	✓	✓	✓	✓	✓	✓
Re-evaluate Target Speed Limit	✓	✓	✓		✓	✓	✓	✓	✓
Safe Traffic Operations:									
Lower Speed Limits	✓	✓	✓		✓	✓	✓	✓	✓
Add New Signals / Improve Connectivity	✓	✓	✓	✓		✓		✓	✓
Protected-only Left Turn Signal Phasing	✓	✓	✓	✓	✓	✓	✓	✓	✓
Signal Coordination-Target Speed	✓	✓		✓	✓	✓	✓	✓	✓
Variable Speed Limits (Expressways)	✓	✓						✓	✓
Driver Feedback Signs - Speed	✓	✓	✓		✓	✓	✓	✓	✓
Leading Pedestrian Interval	✓			✓		✓	✓	✓	✓
Rectangular Rapid Flashing Beacon	✓	✓		✓	✓	✓	✓	✓	✓
Hybrid Ped Beacon / HAWK	✓	✓		✓	✓	✓	✓	✓	✓
Rest in Red Signal Operation	✓	✓	✓	✓	✓	✓	✓	✓	✓
Advanced Speed Detection Signals	✓	✓	✓	✓	✓	✓	✓	✓	✓
Shorter Signal Cycle Lengths	✓	✓	✓	✓	✓	✓	✓	✓	✓
Traffic Signal- Demand Responsive off-peak	✓	✓	✓	✓	✓	✓	✓	✓	✓
Street Lighting / Pedestrian Level Lighting	✓	✓	✓	✓	✓	✓	✓	✓	✓
Update Pedestrian Countdown Timers	✓	✓	✓	✓	✓	✓	✓	✓	✓
Re-evaluate Context Class	✓	✓	✓	✓	✓	✓	✓	✓	✓
Re-evaluate Target Speed Limit	✓	✓	✓		✓	✓	✓	✓	✓

Actions and Implementation Strategy



Actions and Implementation Strategy - Speed Setting



Action 1 - Regional Context Classification

Action 2 - Evaluate All Projects

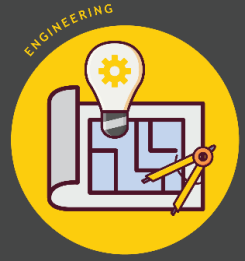
Action 3 - Initiate a HC safety task force to engage on speed limit setting, improve consistency of outcomes, and restore credibility of speed limits.

Short Term (1-2 Years)

Mid Term (3-5 years)

Long Term (5+ years)

Actions and Implementation Strategy - Engineering & Operations



- Action 1 - Develop preliminary recommendations for Top50 High Injury Network corridors.
- Action 2 - Update Design Manuals and Design Standards for roadway construction, operations and maintenance.
- Action 3 - Incorporate design flexibility to reflect national best practices.
- Action 4 - Establish Local Street Design Guidelines
- Action 5 - Traffic Operations Recommendations
- Action 6 - Professional Development and Training
- Action 7 - Fund Improvements to Achieve Speed Management Goals
- Action 8 - Collaborate with law enforcement, firefighting and other emergency response professionals.

Short Term (1-2 Years)
Mid Term (3-5 years)
Long Term (5+ years)

Actions and Implementation Strategy - Education



- Action 1 - Educate Public and Elected Officials
- Action 2 - Encourage Adoption of Speed Management Policy
- Action 3 - Develop Education / PSA Messages

Short Term (1-2 Years)
Mid Term (3-5 years)
Long Term (5+ years)

Actions and Implementation Strategy - Policy / Legislation



Action 1 - Support Changes to Laws and Regulations as necessary to ensure people are protected to the greatest extent possible.

Action 2 - Set a firm Vision Zero crash reduction Goal.

Action 3 - Develop an inter-agency speed and safety review process to assess land use and transportation plans, designs, and implemented projects.

Action 4 - Review and update Land Use Policies to ensure walkable, safe, and healthy communities.

Action 5 - Review and Initiate New Traffic Safety Legislation Measures.

Short Term (1-2 Years)
Mid Term (3-5 years)
Long Term (5+ years)

Actions and Implementation Strategy - Plan Evaluation



Action 1 - Develop evaluation metrics and timeframes for plan updates.

- ✓ Establish quarterly updates of the Speed Management Action Plan.
- ✓ Establish post-project evaluation measures with qualitative and quantitative approaches, including:
 - ✓ Quantitative measures: speed reduction, crash reduction, serious injury/fatality reduction, impact on travel time, and number of corridors (proactive and reactive) addressed.
 - ✓ Qualitative measures: user observations, surveys

Short Term (1-2 Years)
Mid Term (3-5 years)
Long Term (5+ years)

Recommendation

Approve the Speed Management Action Plan

