

# HIGH INJURY NETWORK

## Where crashes happen

The most serious crashes are concentrated along certain corridors. The Vision Zero approach is to focus safety efforts on these corridors to make the greatest possible impact on serious crash rates. To identify the High Injury Network (HIN), a crash severity score was calculated for each functionally classified intersection and corridor based on the Highway Safety Manual's Equivalent Property Damage Only (EPDO) Average Crash Frequency method. This method considers the FDOT crash costs for each severity level (i.e., property damage, possible injury, non-incapacitating injury, incapacitating injury, and fatal crash) with a focus on serious injury and fatal crashes only.

Locations with a higher severity score are experiencing more serious crashes, based on the FDOT crash costs. In considering all modes, the High Injury Network spans across 11-16% of the network, accounting for 63% of all fatal crashes and 23% of all serious injury crashes. From 2018 to 2022, 2,303 fatal and serious injury crashes occurred on these roads and intersections.

### How has a serious vehicle crash impacted your life?



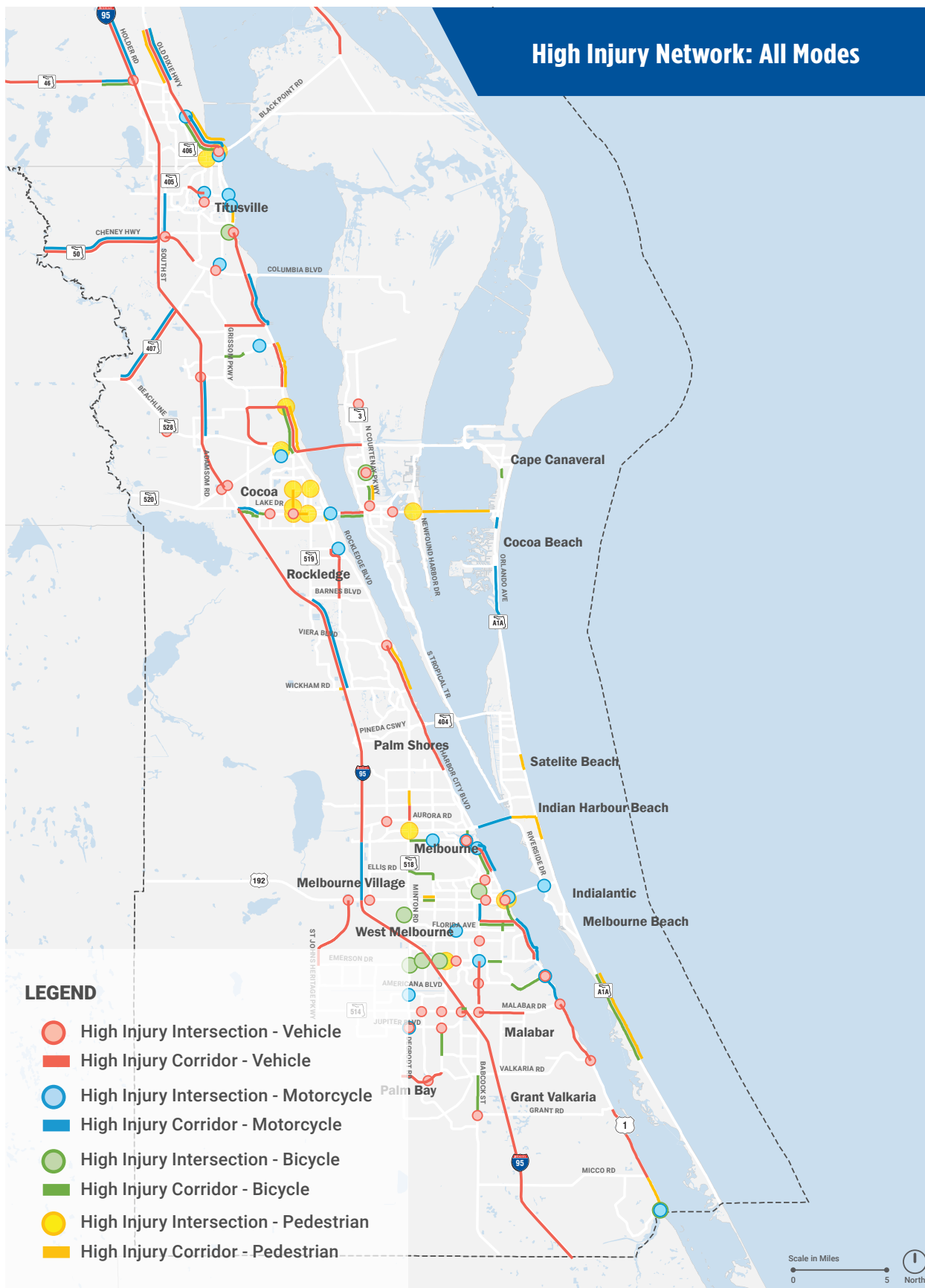
“There is nothing worse for a parent than THAT phone call. There is nothing worse for family members to watch a niece or sister be taken from a vibrant happy life while holding her hand at her bedside for the day, endless prayers going up for a miracle and incessant tears shed over the loss of a future of loves, laughter, children, grandchildren, well..... life really, waiting for her. There is nothing worse than asking the angel nurse to please keep her on the machine and clean that child up before you bring her parents back from the airport. There truly can be nothing worse than being the friends/family members who have to pick up her parents from the airport and tell them their child is gone. I'm not certain, but the only thing that may be worse is if it is your own, but probably not. It is our hope that no one has to experience this, so in our family, the only acceptable number can be '0'.

In honor of Melissa Gail Houser. May her memory always be a blessing. Lived 29 years. Died October 22, 2016 at Strawbridge Avenue and Waverly Place, Melbourne, Florida.”

**Rochelle W. Lawandales, FAICP**  
Former SCTPO Technical Advisory  
Committee Member



High Injury Network: All Modes





## High Injury Network: Vehicles

**53** segments

**33%** of serious injury and fatal vehicle crashes

**38** intersections

**20%** of all serious injury and fatal crashes

### top 5 crash locations: corridors

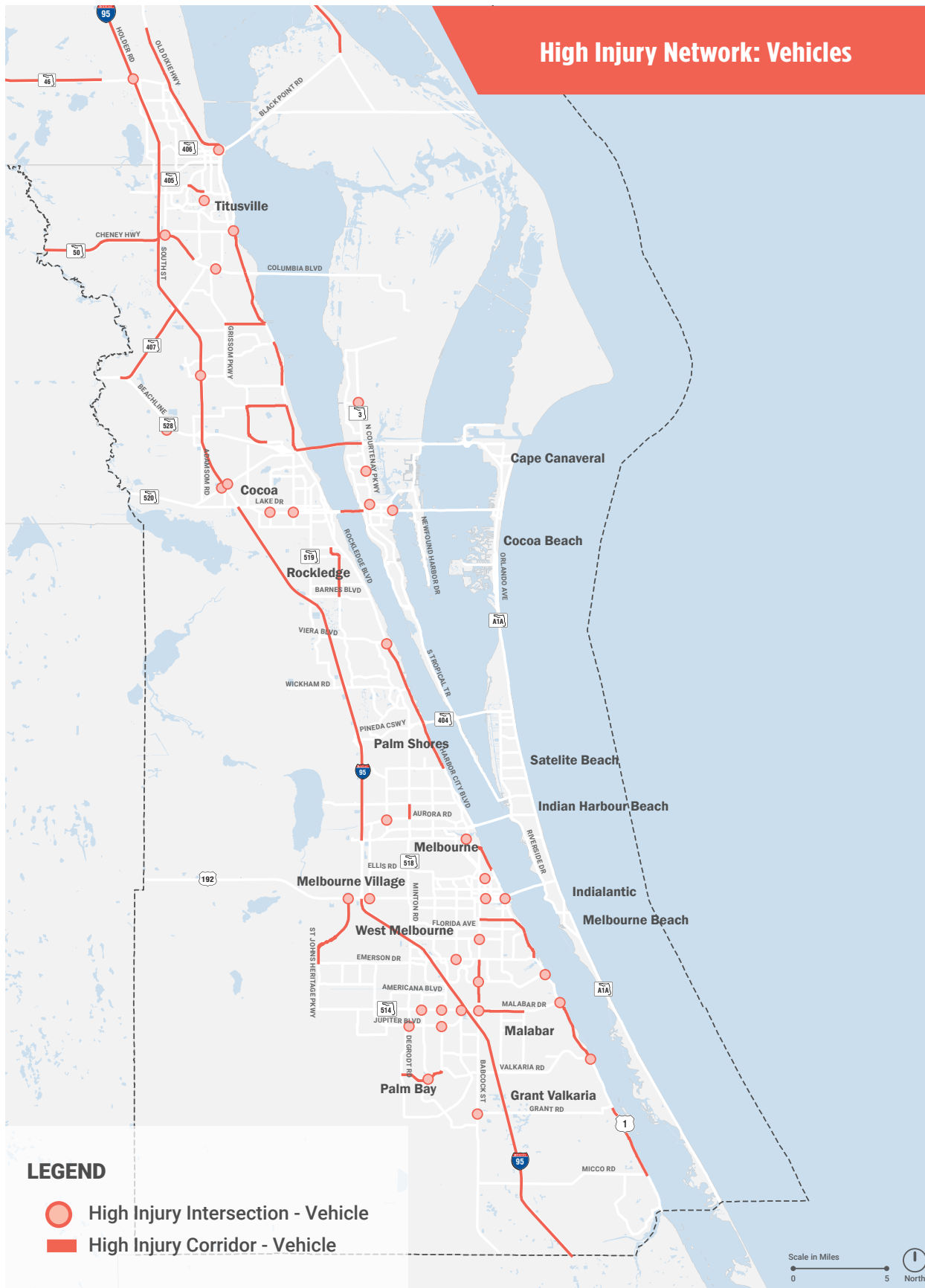
Corridor	From	To	Jurisdiction	Crash Severity Score
SR 407	SR 528	I-95	UNINCORPORATED COUNTY	1335
US 1	SR 528	CANAVERAL GROVES BLVD.	UNINCORPORATED COUNTY	1222
US 1	MICCO RD.	FIRST ST.	MALABAR	1222
SR 528	US 1	N COURTENAY PKWY. (SR 3)	UNINCORPORATED COUNTY	736
SR 50	ORANGE CO.	I-95	UNINCORPORATED COUNTY	713

\*I-95 made up 4 of the top 5 corridors, but were excluded to focus on the arterials

### top 5 crash locations: intersections

Intersection	Jurisdiction	Crash Severity Score
N. COURTENAY PKWY. (SR 3) @ MERRITT AVE.	UNINCORPORATED COUNTY	849
US 1 @ VALKARIA RD.	GRANT VALKARIA	566
SR 520 @ CLEARLAKE RD. (SR 501)	UNINCORPORATED COUNTY	375
MALABAR RD. @ EMERSON DR.	PALM BAY	352
ELDRON BLVD. @ MALABAR RD.	PALM BAY	352

### High Injury Network: Vehicles





## High Injury Network: Motorcycles

**21** segments

**21%** of serious injury and fatal motorcycle crashes

**21** intersections

**5%** of all serious injury and fatal crashes

### top 5 crash locations: corridors

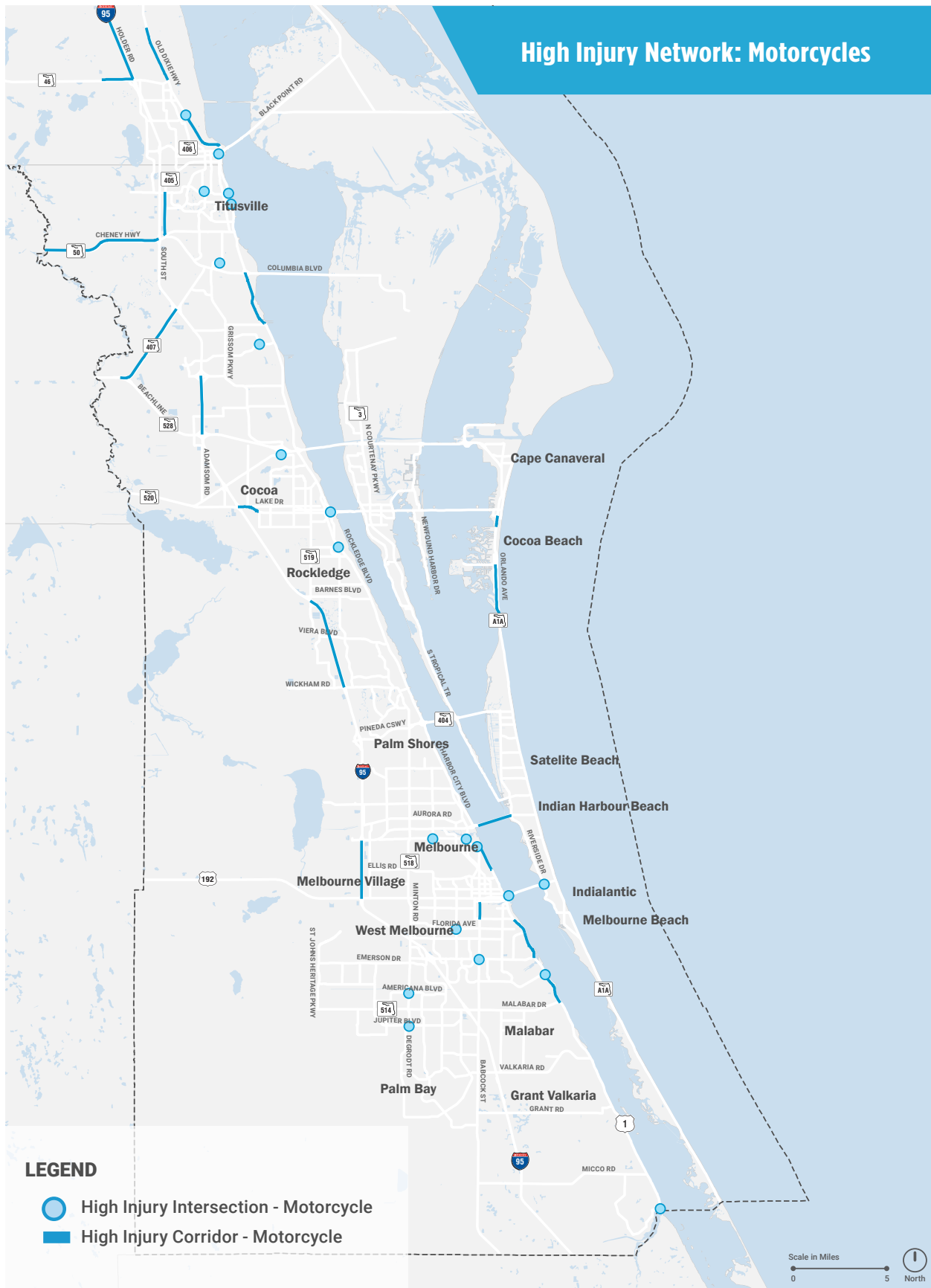
Corridor	From	To	Jurisdiction	Crash Severity Score
US 1	RJ CONLAN BLVD.	UNIVERSITY BLVD.	PALM BAY	877
US 1	KINGS HWY.	SR 405	TITUSVILLE	854
SR 407	SR 528	I-95	UNINCORPORATED COUNTY	831
SR 46	FAWN LAKE BLVD.	I-95	UNINCORPORATED COUNTY	600
SR 520	I-95	BURNETT RD.	COCOA	577

\*I-95 made up 1 of the top 5 corridors, but were excluded to focus on the arterials

### top 5 crash locations: intersections

Intersection	Jurisdiction	Crash Severity Score
US 1 @ HARRISON ST.	TITUSVILLE	306
SR 524 @ CLEARLAKE RD. (SR 501)	COCOA	283
US 1 @ DAIRY RD.	TITUSVILLE	283
SARNO RD. @ CROTON RD.	MELBOURNE	283
US 1 @ PORT MALABAR BLVD.	PALM BAY	283

**High Injury Network: Motorcycles**





## High Injury Network: Bicycles

**23** segments

**31%** of serious injury and fatal bicycle crashes

**8** intersections

**2%** of all serious injury and fatal crashes

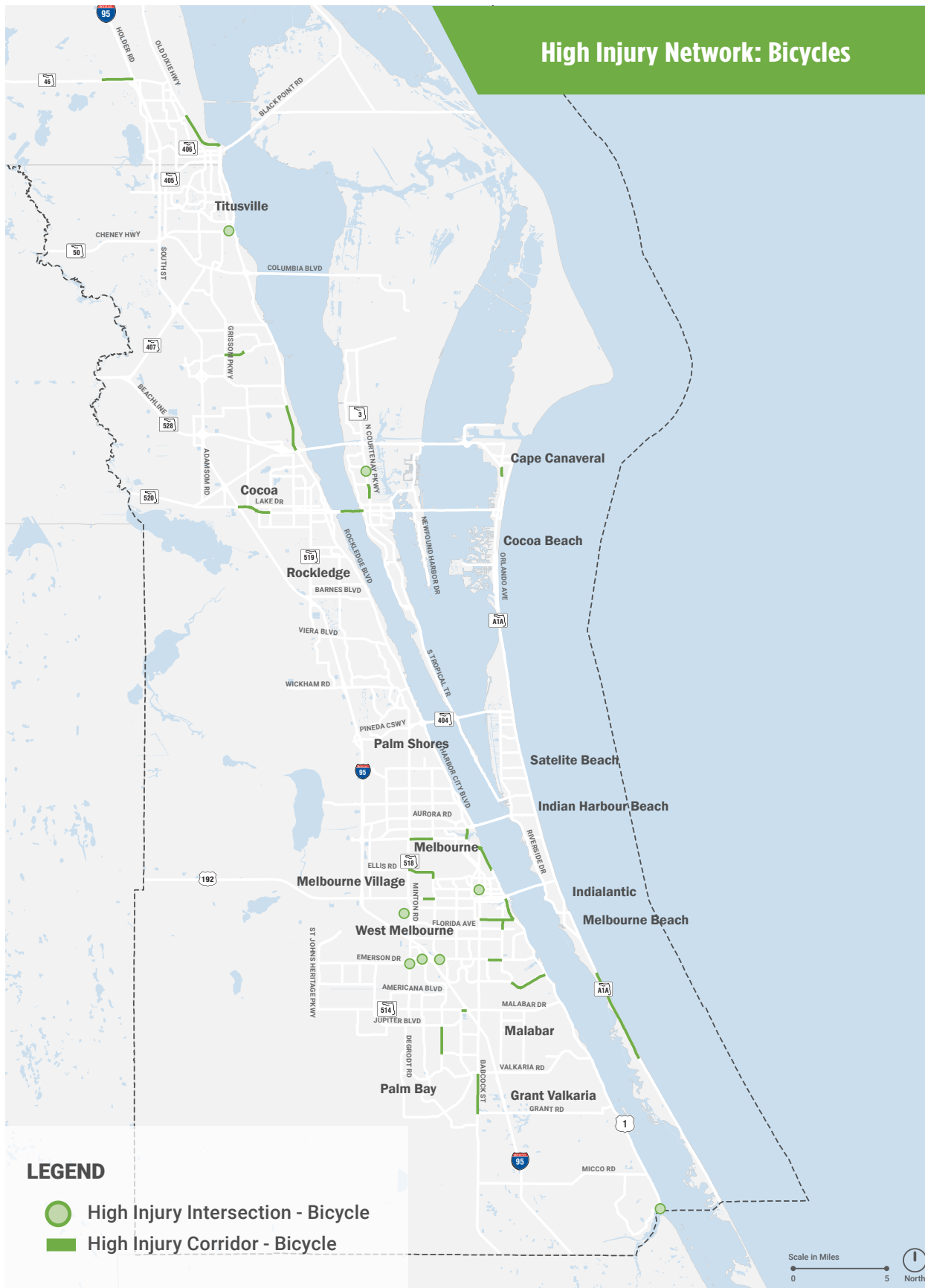
### top 5 crash locations: corridors

Corridor	From	To	Jurisdiction	Crash Severity Score
US 1	SR 528	CANAVERAL GROVES BLVD.	UNINCORPORATED COUNTY	566
SR A1A	HERON DR.	MARLEN DR.	MELBOURNE BEACH	566
SR 520	HUMPHREY BRIDGE	N.TROPICAL TR.	UNINCORPORATED COUNTY	306
N. COURTENAY PKWY. (SR 3)	NEEDLE BLVD.	LUCAS RD.	UNINCORPORATED COUNTY	306
UNIVERSITY BLVD.	BABCOCK ST.	US 1	MELBOURNE	306

### top 4 crash locations: intersections

Intersection*	Jurisdiction	Crash Severity Score
PALM BAY RD. @ HOLLYWOOD BLVD.	PALM BAY	283
US 1 @ MAIN ST.	UNINCORPORATED COUNTY	283
MINTON RD. @ EMERSON DR.	PALM BAY	283
NORFOLK PKWY. @ PALM BAY RD.	WEST MELBOURNE	283
LA VETA DR. @ MILWAUKEE AVE.	UNINCORPORATED COUNTY	283

High Injury Network: Bicycles







## High Injury Network: Pedestrians

**21** segments

**31%** of serious injury and fatal pedestrian crashes

**14** intersections

**4%** of all serious injury and fatal crashes

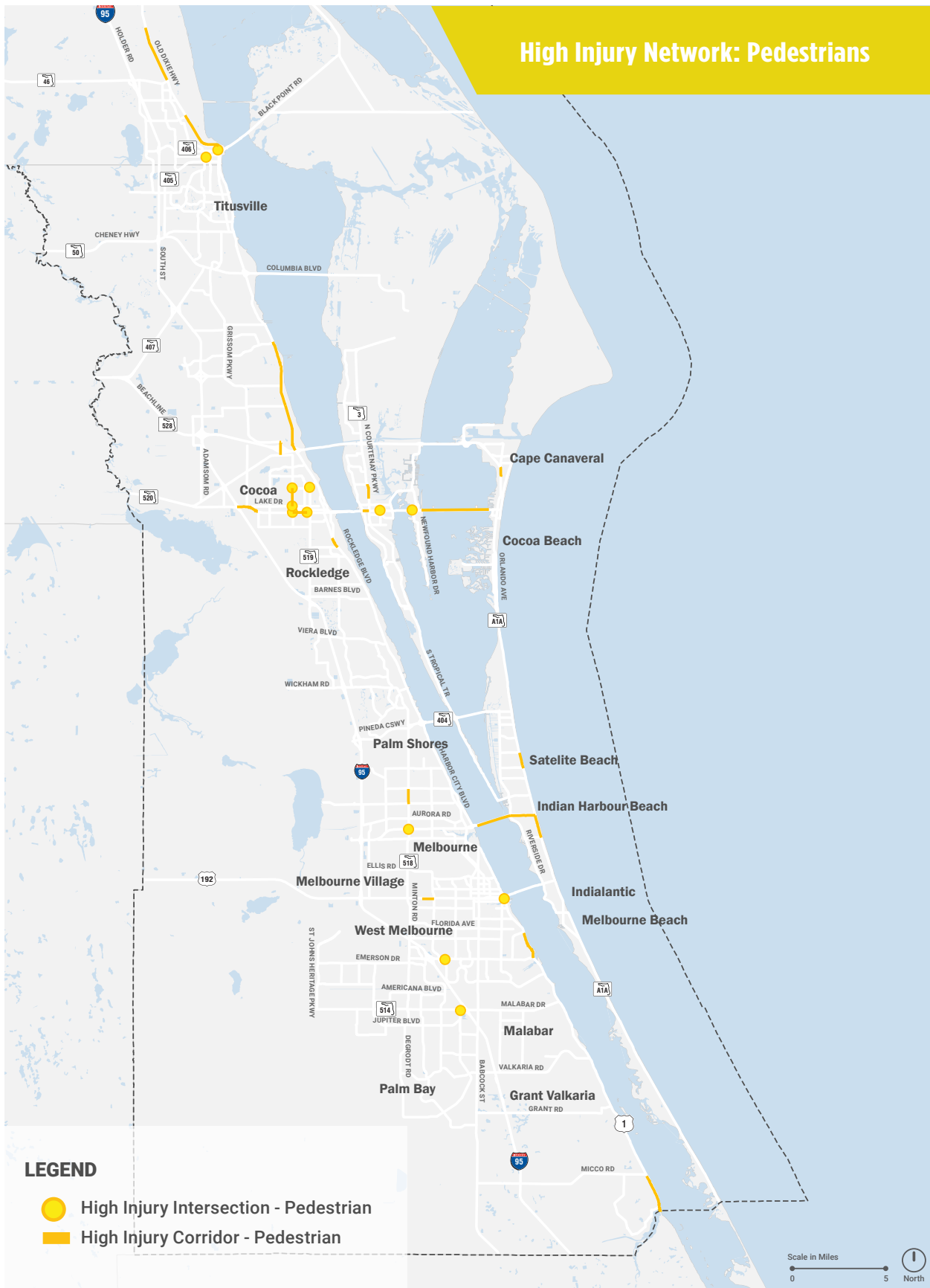
### top 5 crash locations: corridors

Corridor	From	To	Jurisdiction	Crash Severity Score
US 1	GARDEN ST.	DAIRY RD.	TITUSVILLE	1131
N. COURTENAY PKWY. (SR 3)	NEEDLE BLVD.	LUCAS RD.	UNINCORPORATED COUNTY	895
SR AIA	PARADISE BLVD.	EAU GALLIE BLVD. (SR 518)	INDIAN HARBOUR BEACH	872
WICKHAM RD.	LAKE WASHINGTON RD.	PARKWAY DR.	MELBOURNE	849
US 1	SR 528	CANAVERAL GROVES BLVD.	UNINCORPORATED COUNTY	635

### top 5 crash locations: intersections

Intersection	Jurisdiction	Crash Severity Score
CLEARLAKE RD. (SR 501) @ LAKE DR.	UNINCORPORATED COUNTY	306
US 1 @ CANAVERAL GROVES BLVD.	UNINCORPORATED COUNTY	306
US 1 (SB HOPKINS AVE.) @ SR 406 (GARDEN ST.)	TITUSVILLE	306
EAU GALLIE BLVD. (SR 518) @ WICKHAM RD.	MELBOURNE	306
SR 520 @ CLEARLAKE RD. (SR 501)	UNINCORPORATED COUNTY	283

High Injury Network: Pedestrians



LEGEND

- High Injury Intersection - Pedestrian
- High Injury Corridor - Pedestrian

Scale in Miles  
0 5 North