

Pedestrian Safety 20 Years Later

What's Working, What Isn't

Rock Miller, P.E.



Why this Study?

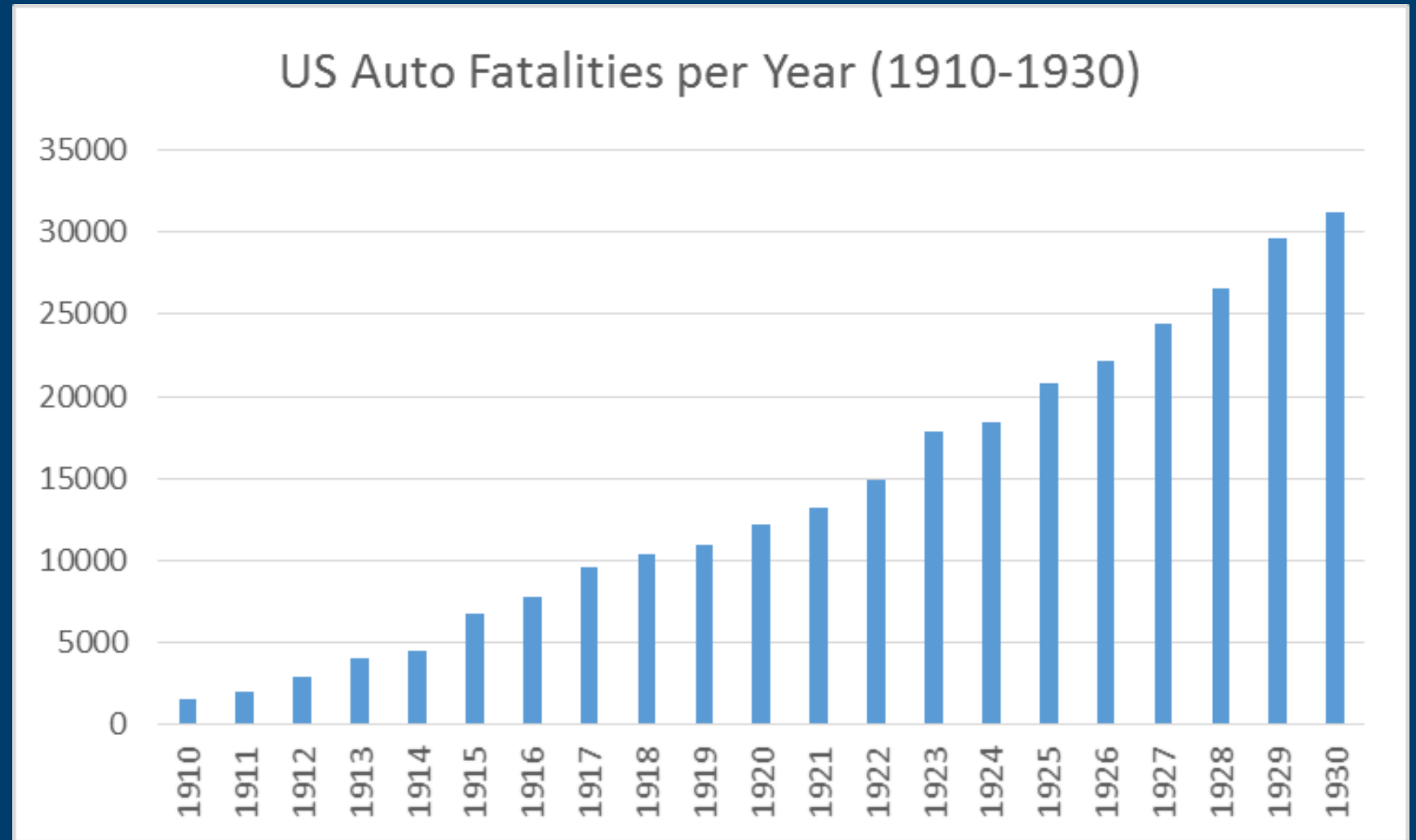


- I became Involved in Pedestrian Safety in the 1990s.
 - Helping Cities in Crosswalk Litigation
 - Increasing Role in Pedestrian Litigation
 - Looking to help document historical trends

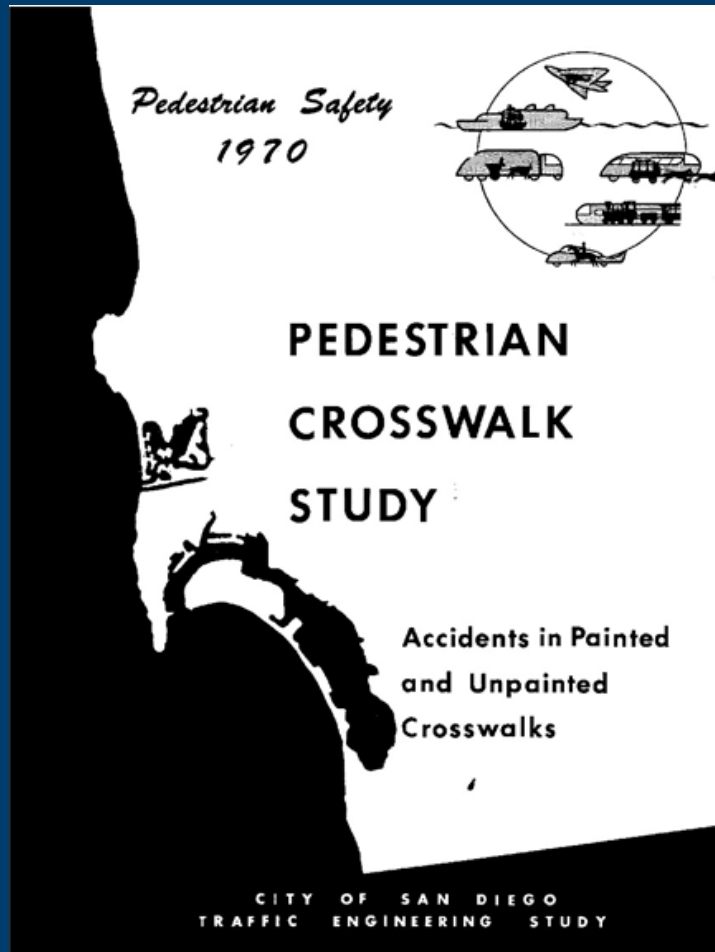
Early Years of Traffic Safety

2/3 to 3/4 Pedestrians

1/3 Children



Pedestrian Low Point?



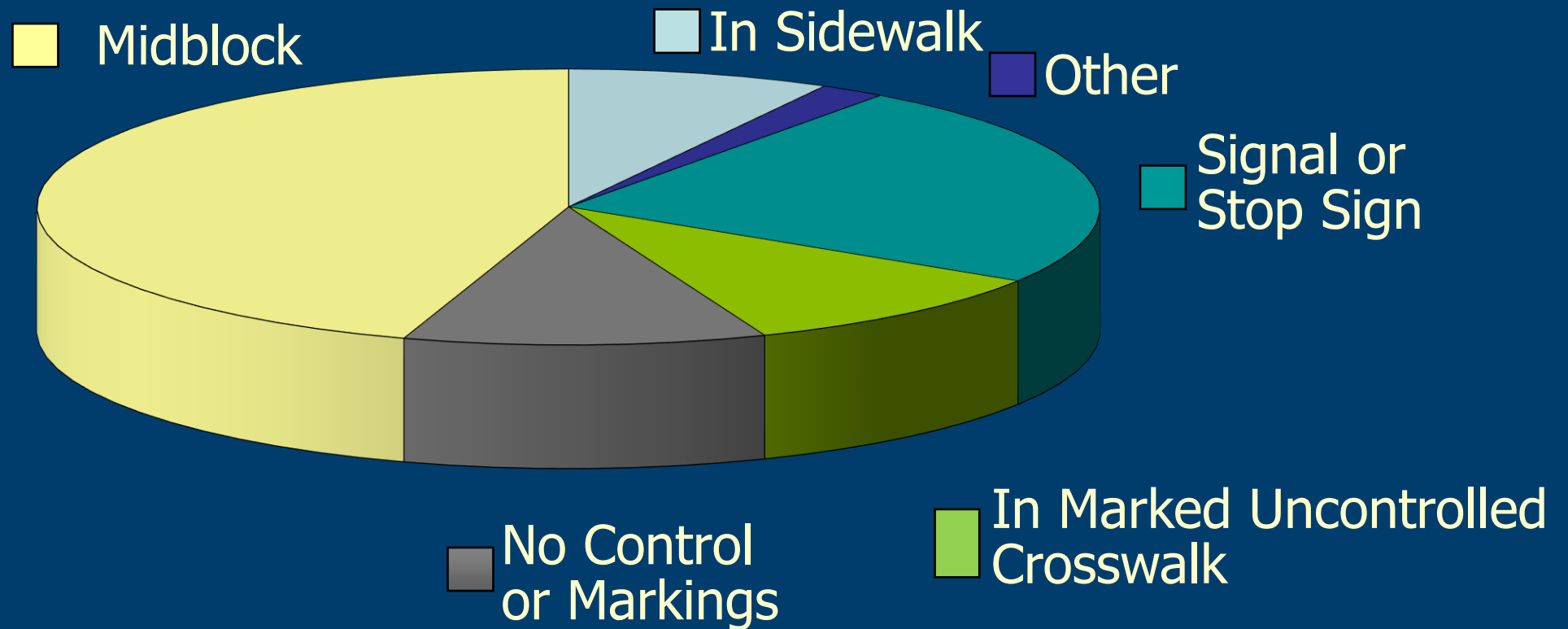
- c. 1970
- San Diego Pedestrian Crosswalk study
- Concludes that marked crosswalks are unsafe and should be avoided where possible
- 1000s of crosswalks removed
- Thoughts prevail until 1990's

Santa Ana Crosswalk Study (1997)

- 150 Marked Crosswalks
- 100% Sample
- Vehicle and Pedestrian Counts
- Correlation with Accidents



Pedestrian Collisions



Pedestrian Deaths in 2019 Were Highest in 30 Years, Report Says

The Governors Highway Safety Association calculates that there were 6590 pedestrian deaths in 2019, a 5 percent increase from 2018.

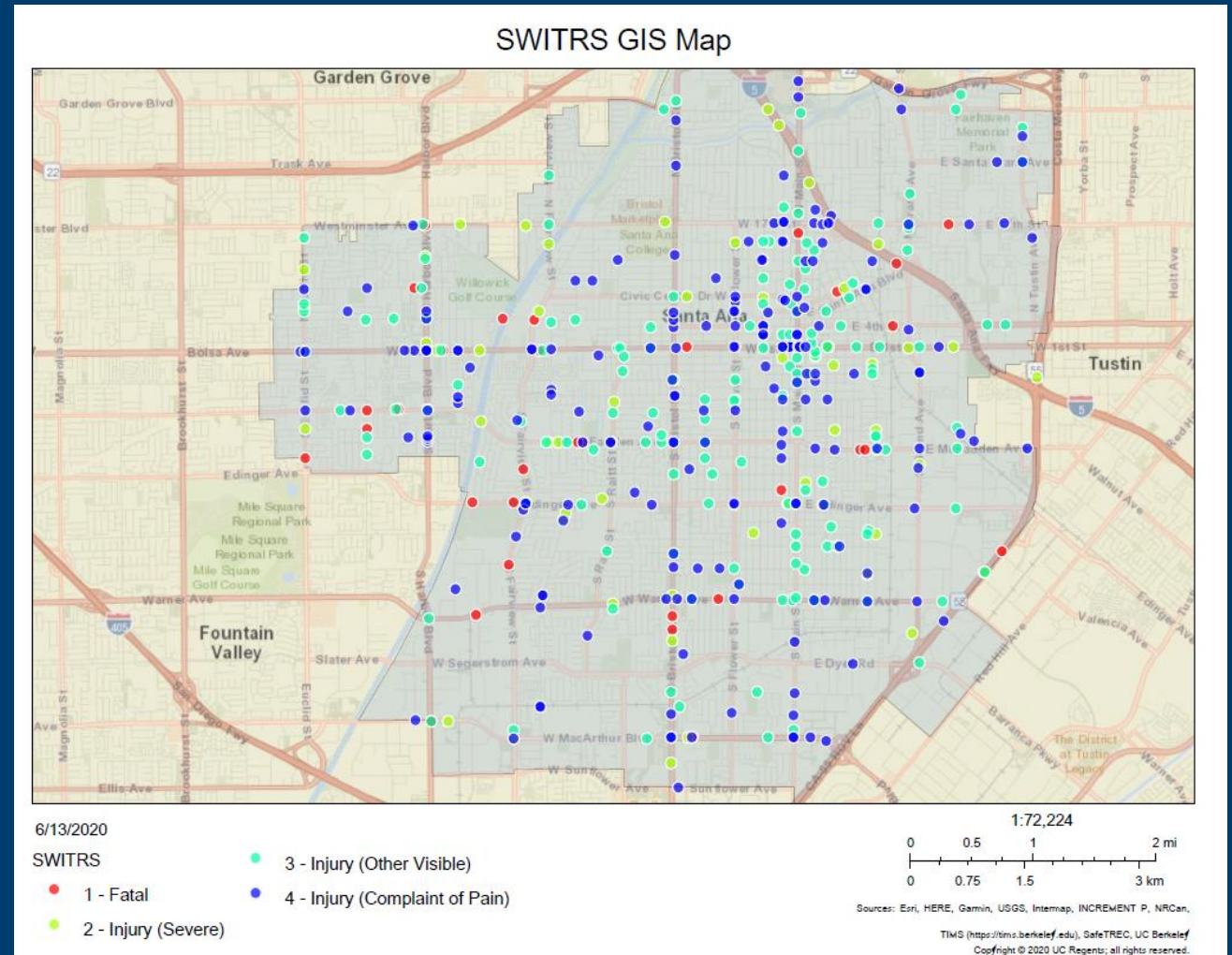
BY COLIN BERESFORD FEB 27, 2020

So Where
are we
Now?



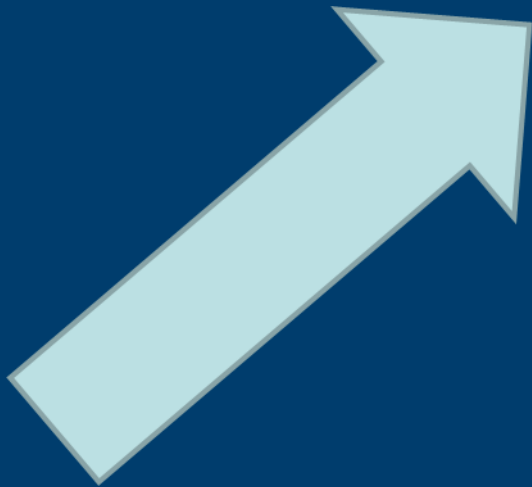
Shout Out to U.C. TIMS Site

- Geolocate Fatal and Injury Crashes
- Create Spreadsheet for Rough Analysis
- Find a Large Dataset for a Place I know
 - Perhaps a City of 2-3 Million?



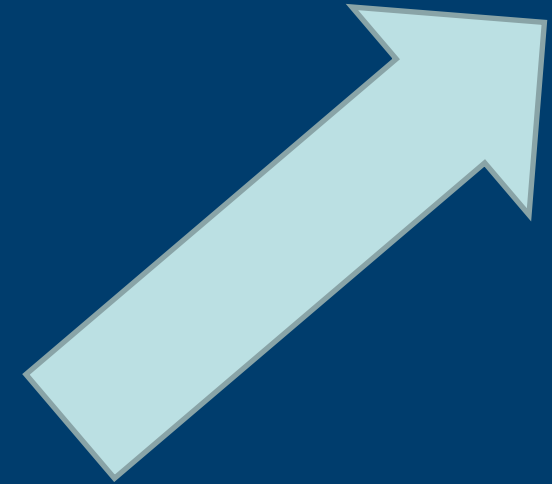
2008

- 2569 Reported Incidents
- 82 Fatalities



2017

- 3030 Reported Incidents (+18%)
- 117 Fatalities (+42%)



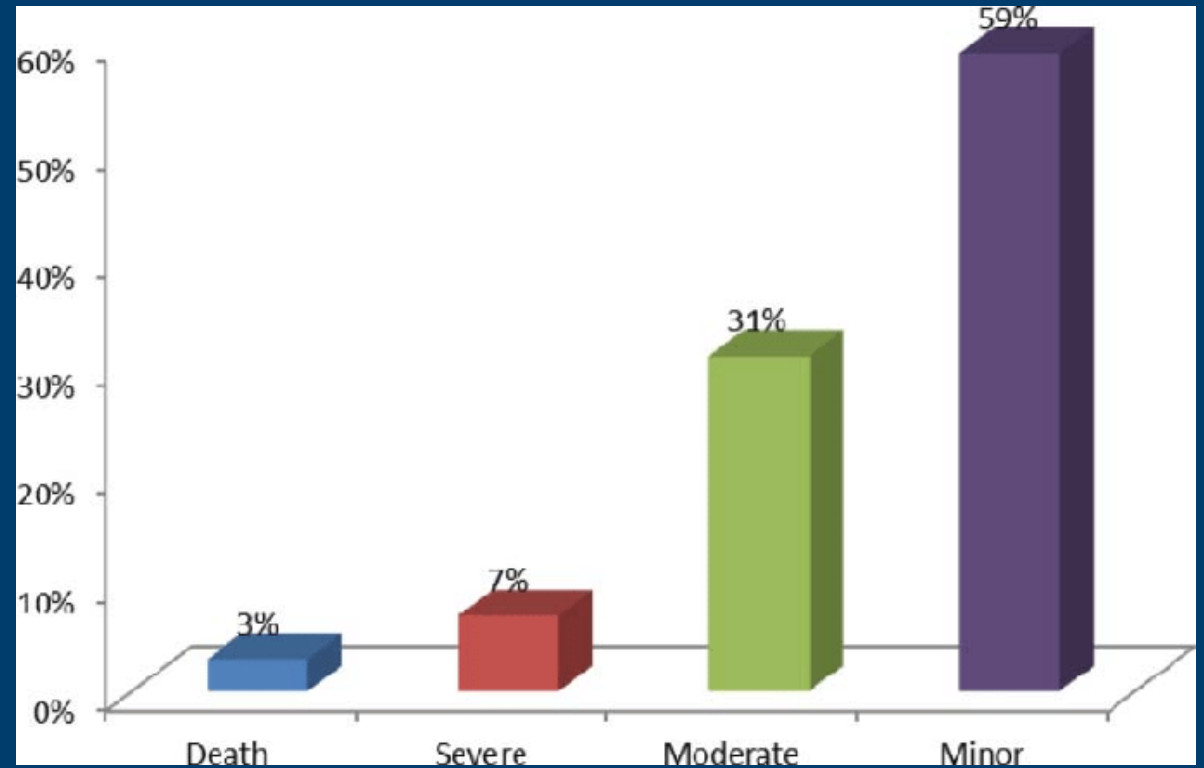
Location Types in 2017

- Within Intersection 37%
- Within 0-15 feet of Intersection 20%
- 15-100 Feet from Intersection 22%
- More than 100 feet from Intersection 21%



Severity

- Fatal 4%
- Severe 14%
- Visible Injury 37%
- Complaint of Pain 45%



Fatal Crashes: Code Violations

- DUI 3
- J Walk 10
- No Yield to Ped 25
- Ped Immed Hazard 50
- Ped on Sidewalk 1
- TS Don't Walk Violation 6
- TS Ped Violation 3



Fatal Pedestrian Collisions

2008 2017

• All-way Stop	0	• 2	1.7%
• Freeway	9	• 10	8.5%
• Mid Block (> 50')	31	• 46	39%
• Mkd UnC XW	4	• 8	7%
• Unmarked UnC	14	• 25	21%
• Traffic Signal	24	• 26	22%
• All Uncontrolled	49	• 79	67%

Focus Areas

- Locations without Controls
- Important Busy Streets
 - Lots of Pedestrian Activity?
 - Equity / Income



Areas Needing Research

- Marked Uncontrolled Crosswalks
 - Why is it increasing?
 - Are Interventions Working
- Why So Many Near But Not At Intersection



Problems Large but not Increasing

- Traffic Signals
- Pedestrians on Freeways
 - New Systemic Approaches Needed for Improvement



We Still Have a Lot of Work to Do

Questions??

And MAHALO

