

IMPLEMENTING SAFE AND EQUITABLE PEDESTRIAN INFRASTRUCTURE



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Geoff Carleton, AICP

geoff.carleton@teiconnects.com

[@CarletonGeoff](https://twitter.com/CarletonGeoff)



TEI Planning + Design | 1

VALUES IN STREET DESIGN



Every Street is an Expression of a Set of Values

VALUES IN STREET DESIGN



WHAT ARE YOUR VALUES?

Common

- Vehicle Capacity
(Existing or Future)
- Speed/Delay
- Safety
- Multimodal
- Universal Access
- Resilience
(Drainage)

Less Common

- Equity
- Economic Vitality
- Resilience
- People Capacity
- Landscape
- Climate
- Health + Activity
- Aesthetics + Beauty
- Maintenance

Least Common

- Innovation
- Interaction
- Freedom
- History
- Nature
- Leisure
- Fun

CONSIDER VALUE JUDGEMENTS IN LANGUAGE

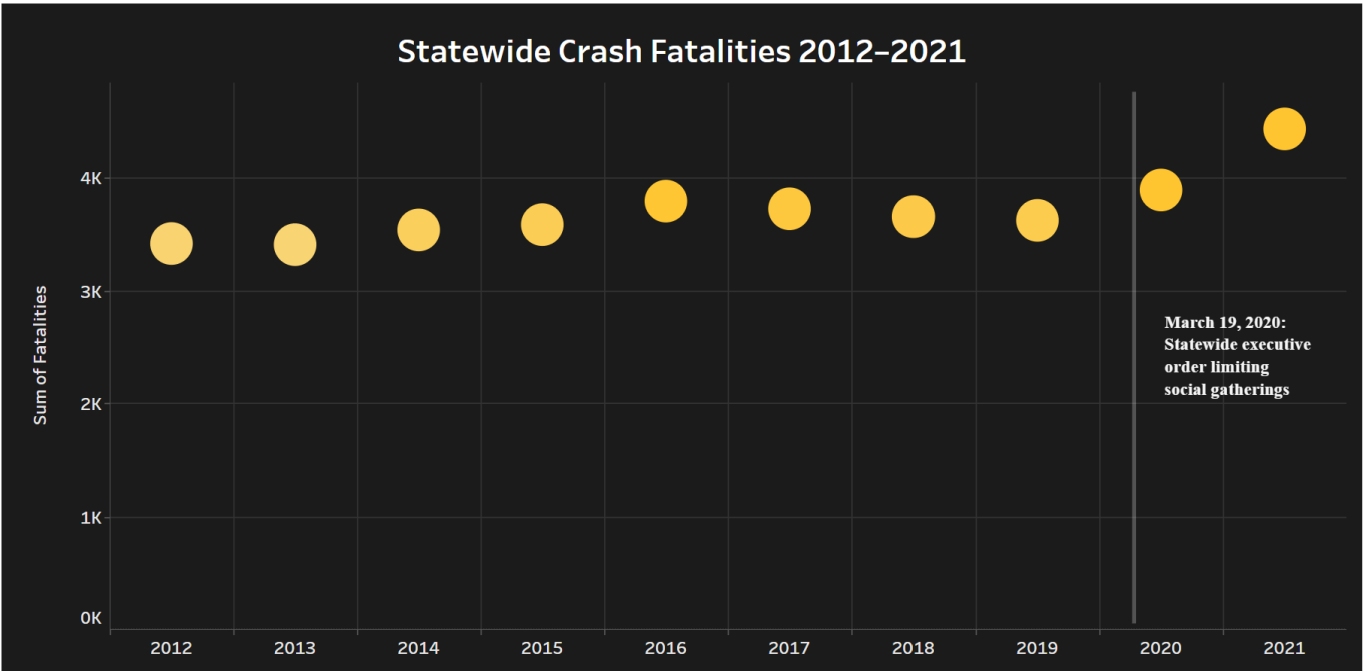
Measuring Delay - Vehicle Level of Service

Table 1. Level of Service Criteria for Signalized Intersections		
Level of Service	Average Control Delay (sec/veh)	General Description (Signalized Intersections)
A	≤10	Free Flow
B	>10 - 20	Stable Flow (slight delays)
C	>20 - 35	Stable flow (acceptable delays)
D	>35 - 55	Approaching unstable flow (tolerable delay, occasionally wait through more than one signal cycle before proceeding)
E	>55 - 80	Unstable flow (intolerable delay)
F	>80	Forced flow (jammed)

Harris County Fatalities
People Walking: 2019-Present
Total: 771
On System: 399
Off System: 372
 Source TxDOT CRIS Query

HOW ARE WE DOING?

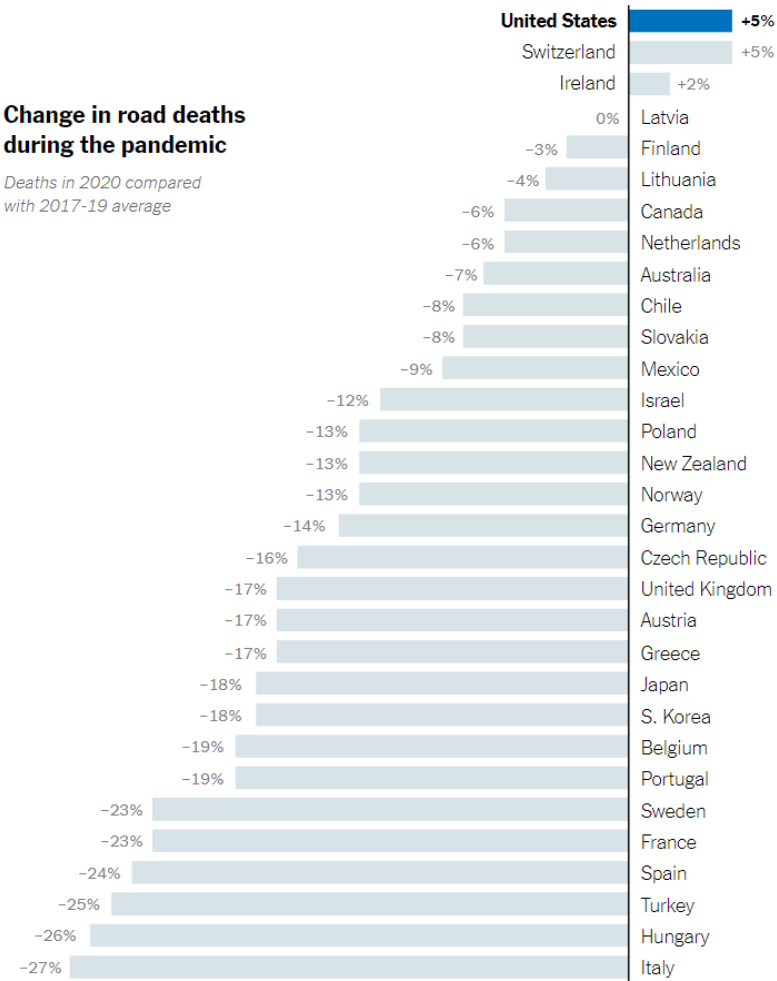
A Need to Act with Urgency



Texas has lost at least one person every day on Texas roads since Nov. 7, 2000 **8,575 days!**
Equivalent of the loss of 25+ 737-700s per year

Change in road deaths during the pandemic

Deaths in 2020 compared with 2017-19 average



Source: Organization for Economic Cooperation and Development • The New York Times

US is an Outlier

BETTER DATA FOR BETTER PROJECTS



figure 3.3 Sidewalk Condition Assessment by Parcel

SIDEWALK CONDITION ASSESSMENT By Parcel

Sidewalk Condition by Parcel

- A | Flat - 5'+
- B | Flat - Less than 5'
- C | Poor Condition - 5'+
- D | Poor Condition - Less than 5'
- E | No Sidewalk Present
- Under Construction

- Highway
- Study Area
- School
- Park

Source: Team Analysis 2019

SIDEWALK CONDITION

BY PARCEL, 69% IN
GOOD CONDITION

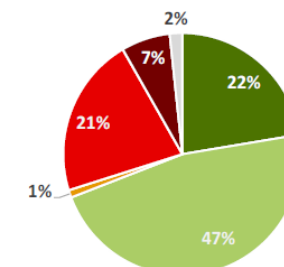
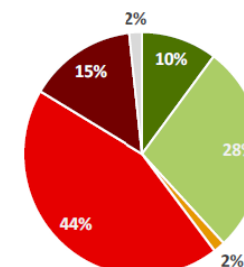


figure E.3 Comparing Parcel and Block Condition by Linear Feet

- A: Flat - 5'+
- B: Flat - Less than 5'
- C: Poor Condition - 5'+

Source: Team Analysis, 2019

BY BLOCK, 38% IN
GOOD CONDITION



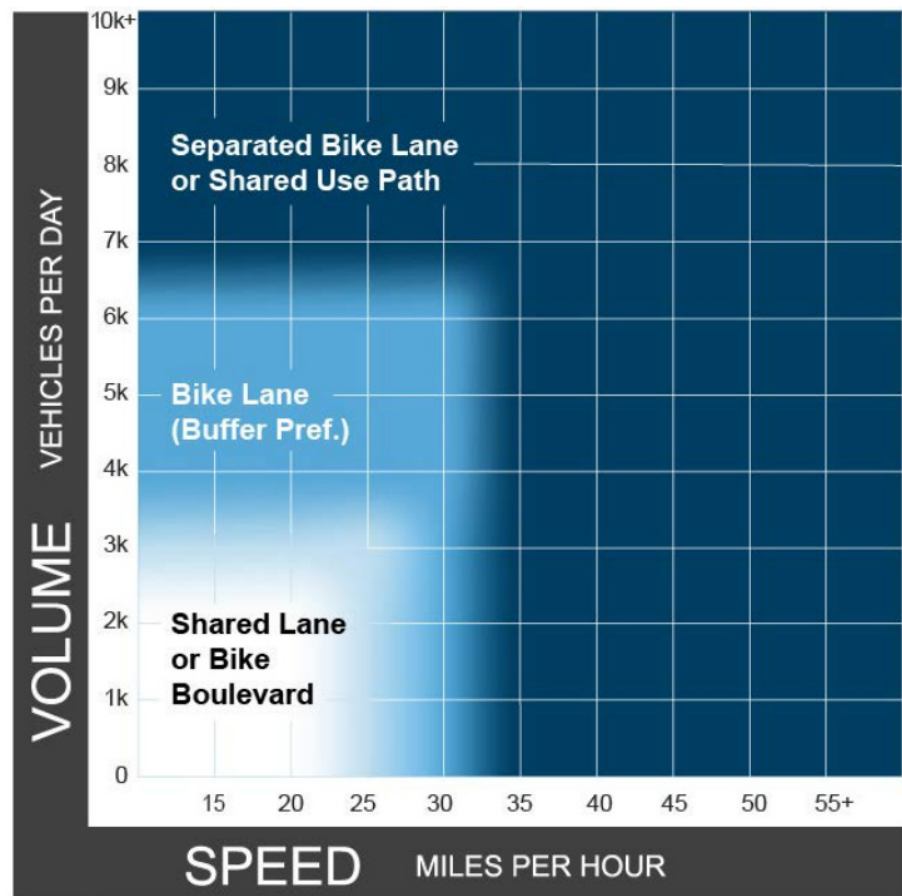
- D: Poor Condition - Less than 5'
- E: No Sidewalk Present
- Under Construction



HANG OUT WITH PEOPLE WHERE THEY ARE



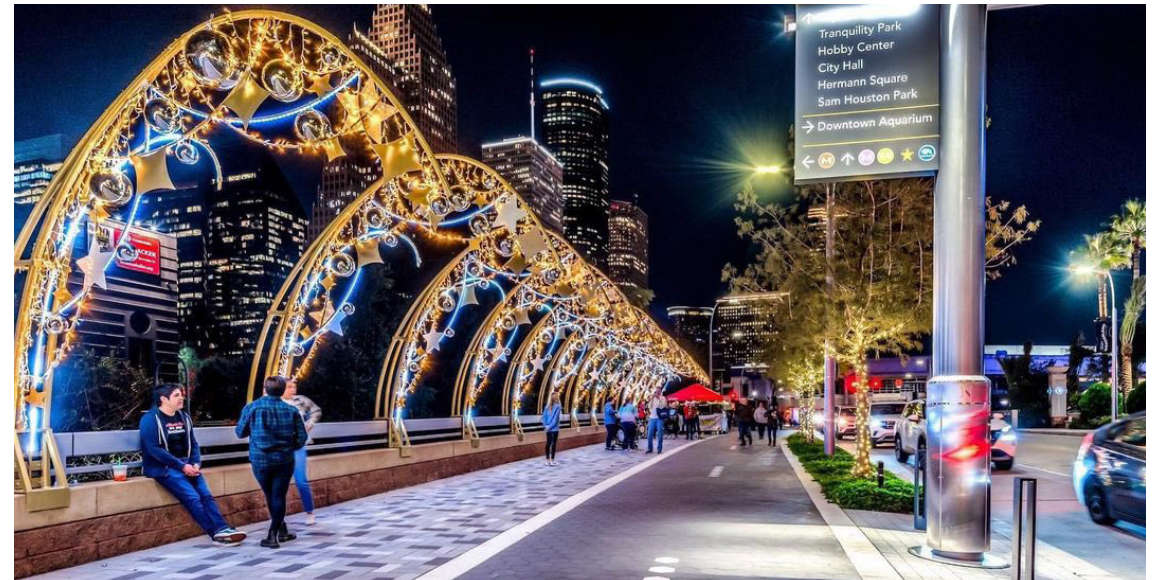
LEARN FROM OTHERS/BEST PRACTICES



FHWA Bikeway Selection Guide/ TxDOT



DESIGN PLACES FOR THE OUTCOMES YOU WANT



WORK TOGETHER TO EXPAND SAFETY FOR EVERYONE



Source: Houston Chronicle

Define your values
Act with urgency
Use data
Hang out with people
Learn from others
Design for outcomes
Work together

Thank you!

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