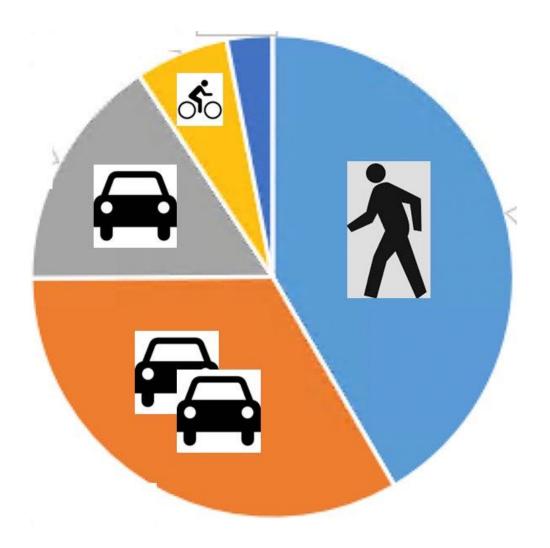
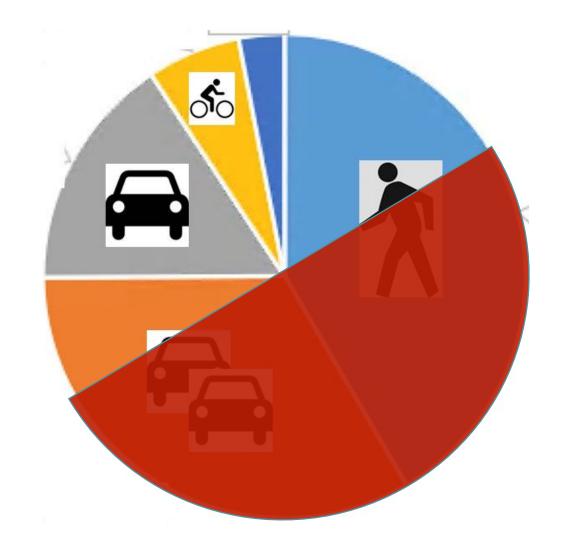


Where to start Vision Zero?

Pedestrians, Vehicles



Urban Intersections (4x2 signals)



3 Bold Claims:

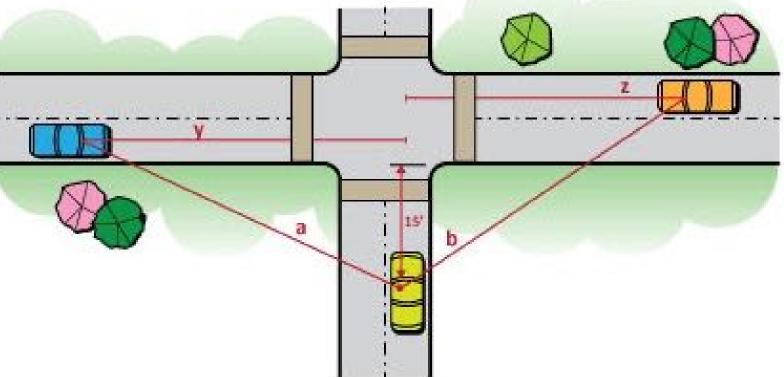
1. Traffic signals can't be a safe system.

People Make Mistakes. Spot it. Compensate.



Look opposite ways at the same time

Pedestrians: one is always behind



Redundancy.

X-walk

Enter

Direct and in front.

One decision at a time.

Circle



Test: Can I compensate for their mistake?

x fail

✓ pass





Test: Low energy?

x fail (high speed, right angle)







What is the traffic signal's track record?



ZERO fatal crashes in crosswalks

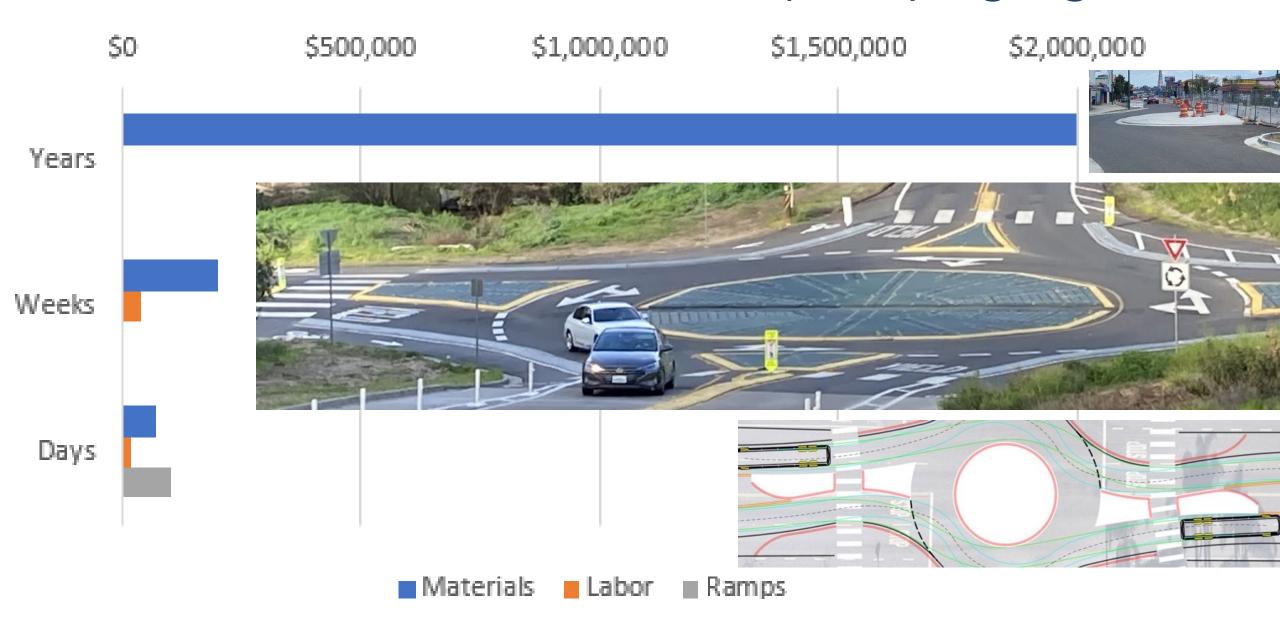
https://usa.streetsblog.org/2022/09/21/study-some-roundabout-designs-slash-crash-injuries-up-to-85 KSU listserv

3 Bold Claims:

1. Traffic signals can't be a safe system.

2. Roundabouts are free.

Want a free roundabout? Stop buying signals!





3 Bold Claims:

1. Traffic signals can't be a safe system.

2. Roundabouts are free.

3. Roundabouts *can* fit.

Today's traffic (removable)

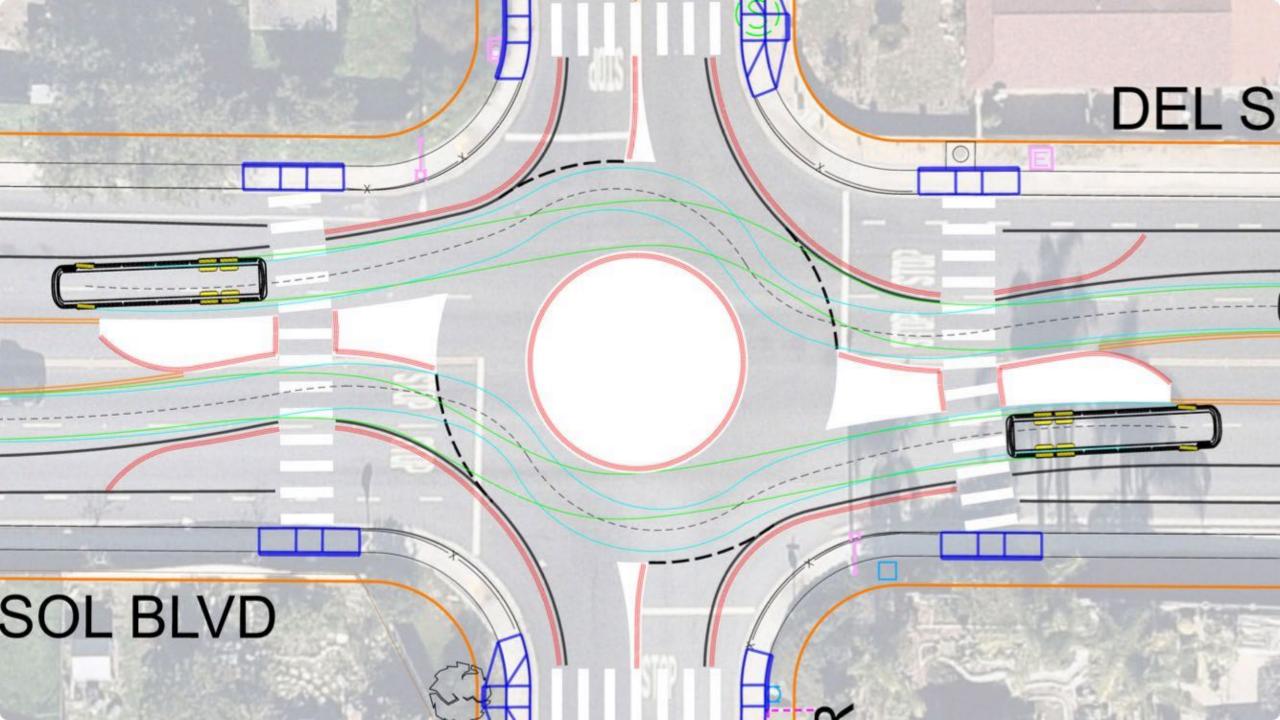
- Replaced 3 signals on 4-lane streets so far (traditional)
- All-way stop removed 2 bypass lanes (1st modular)
- All-way stop removing 2 through lanes (2nd modular)
- With same lanes: roundabouts handle more traffic than signals
- Initial screening: signals on 4 lane streets where a one-lane roundabout works (low cost / high benefit)
- Calibrated capacity https://rosap.ntl.bts.gov/view/dot/27665
 Page vii (pdf page 10) $Single-lane: c = 1440 \cdot exp(-0.0010 \cdot v_{\star})$





Today's trucks (mountable)

- If there are bike lanes, we leave room for right-only bike lanes
- Higher speed approaches get longer, wider splitter islands
- If it is on a bus route, we design it to keep busses off the islands
- All large trucks that can go through today can use it





- San Francisco
- North Carolina
- Nebraska
- Maryland
- Georgia
- Florida
- Virginia
- Canada

