



Strengthening Existing and Facilitating New Vision Zero Plans

CSCRS Project #17

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Overview

- **Key Research Methods**

1. Complete an inventory of existing Vision Zero plans
2. Develop a list of high quality Vision Zero plan components
3. Abstract and describe Vision Zero plan components
4. Dissemination
 - “Guide to Developing a Vision Zero Plan”
 - Vision Zero plan library

What is 'Vision Zero?'

- “Vision Zero is a strategy to eliminate all traffic fatalities and severe injuries, while increasing safe, healthy, equitable mobility for all. First implemented in Sweden in the 1990s, Vision Zero has proved successful across Europe — and now it’s gaining momentum in major American cities.”

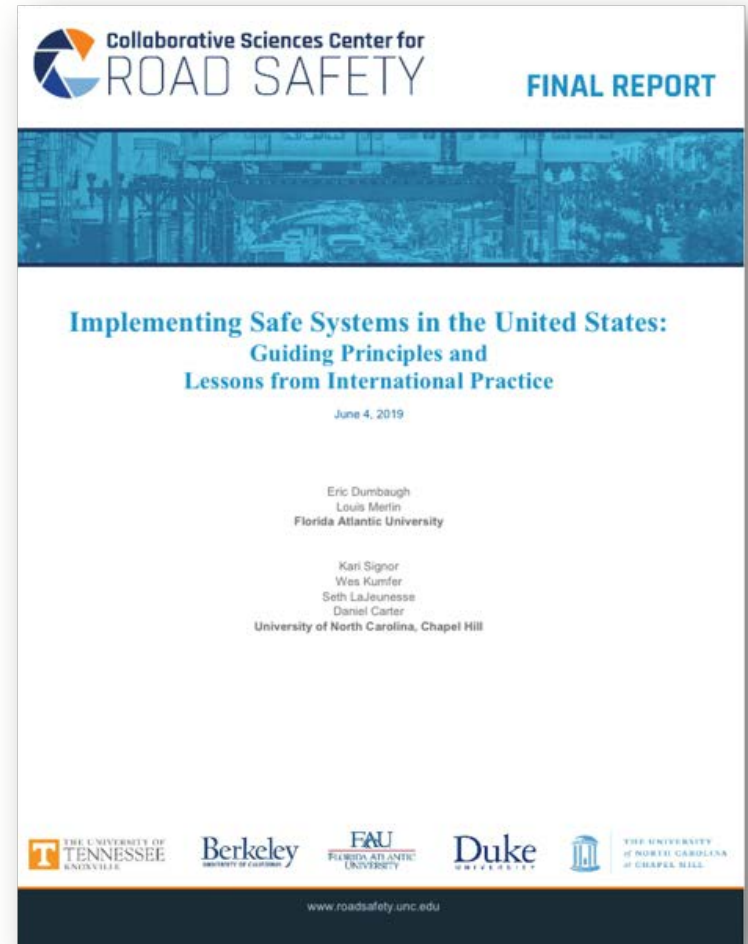
– *Vision Zero Network*

The logo for the Vision Zero Network, featuring the words "VISION ZERO NETWORK" in a bold, sans-serif font. The word "ZERO" is stylized with a large, white, outlined number zero that has a horizontal line through it, resembling a road sign or a speed limit sign.

<https://visionzeronetwork.org/about/what-is-vision-zero/>

Guiding Principles from International Practice

1. The human body has a known and limited ability to tolerate crash forces.
2. People make mistakes that lead to road crashes.
3. System designers share responsibility with road users for crash prevention.
4. All elements of the system should be strengthened to multiply their effects.



Access: https://www.roadsafety.unc.edu/wp-content/uploads/2019/07/CSCRS_R3_Final-Report.pdf

Plans

- Plans are documents tailored to local needs and aspirations.
- Most people could probably identify good plans from poor ones, but general characteristics of good plans are not often abstracted.
- Identifying features of good plans is important because future plans could benefit greatly from this information.
- Higher quality plans are more likely to favorably influence outcomes.

Vision Zero Plans

- They are **comprehensive** public documents that provides the **vision** for future efforts to reduce traffic fatalities and serious injuries to zero.
- They are distinct from **Vision Zero action plans**, which may only focus on the goals and objectives of the program.
- They are **unique and tailored** to the community. The development should **involve** the community.
- They often include the following components:
 - Reviews crash data and existing policies, plans, and programs around road safety
 - Creates goals, objectives, agency actions, and performance measures to reach the vision
 - Implementation, including a timeline and evaluation

(1) Inventory of Vision Zero Plans

- Collected all US plans through mid-2020
- Summary:
 - 40 municipal plans, 1 update (Portland)
 - 3 county plans, 1 update (Montgomery County)
 - 2 regional plans
 - 3 metropolitan planning organization (MPO)/ transportation planning organization (TPO) plans
 - 1 district plan

US Municipal Vision Zero Plans through mid-2020

- Alexandria, VA
- Anchorage, AK
- Austin, TX
- Berkeley, CA
- Boston, MA
- Boulder, CO
- Cambridge, MA
- Charlotte, NC
- Chicago, IL
- Cincinnati, OH
- Columbia, MO
- Daly City, CA
- Denver, CO
- Durham, NC
- Eugene, OR
- Fremont, CA
- Fort Lauderdale, FL
- Greensboro, NC
- Harrisburg, PA
- Jersey City, NJ
- Long Beach, CA
- Los Angeles, CA
- Minneapolis, MN
- Monterey, CA
- New York City, NY
- Philadelphia, PA
- Portland, OR
- Richmond, VA
- Rockville, MD
- Sacramento, CA
- San Antonio, TX
- San Diego, CA
- San Francisco, CA
- San Jose, CA
- Santa Barbara, CA
- Seattle, WA
- Somerville, MA
- Sunnyvale, CA
- Tempe, AZ
- Watsonville, CA

US Regional Vision Zero Plans through mid-2020

- District
 - Washington DC
- Regional
 - Denver, CO
 - Truckee Meadows, NV
- County
 - Los Angeles
 - Montgomery County, MD
 - Prince George's County, MD
- MPO/TPO
 - Hillsborough County, FL
 - Miami-Dade, FL
 - Space Coast (Brevard County), FL

(2) Identify High Quality Vision Zero Plan Elements

Why? High quality VZ plans are hypothesized to be associated with better progress towards VZ than lower quality plans.

Important Elements of High Quality Vision Zero Plans (1)

- (1) Includes a vision and a mission.
- (2) Includes goals/objectives to accomplish the vision with a specific time horizon and assigns responsibility for the tasks.
- (3) Takes a systems-based approach.
- (4) Includes a commitment to an equitable approach to Vision Zero.
- (5) Demonstrates political commitment.
- (6) A multi-disciplinary task force or committee is in place, working towards the vision where collaboration is emphasized.

Important Elements of High Quality Vision Zero Plans (2)

- (7) Involves public participation in the development of the plan and describes this effort, along with stakeholder involvement, in the plan.
- (8) Documents the history that led to plan creation.
- (9) Documents traffic-related injuries and deaths in the community.
- (10) Uses a data driven approach to communicate, using maps, tables, and figures that are clear, accurate, and readable.
- (11) Inventories and reviews other relevant plans and programs in the community that might have overlapping or complementary objectives.

Important Elements of High Quality Vision Zero Plans (3)

- (12) Proposes ways to involve the community to reach its goals and objectives.
- (13) Finds ways to update the community on progress to maintain transparency.
- (14) Identifies both existing funding and new funding streams to support Vision Zero efforts.
- (15) Includes management of speed limits at a safe level.
- (16) Recognizes that mistakes can happen and that the infrastructure should be able to support those errors.
- (17) Integrates ways to sustain the Vision Zero program, even in the midst of changing leadership and funding.

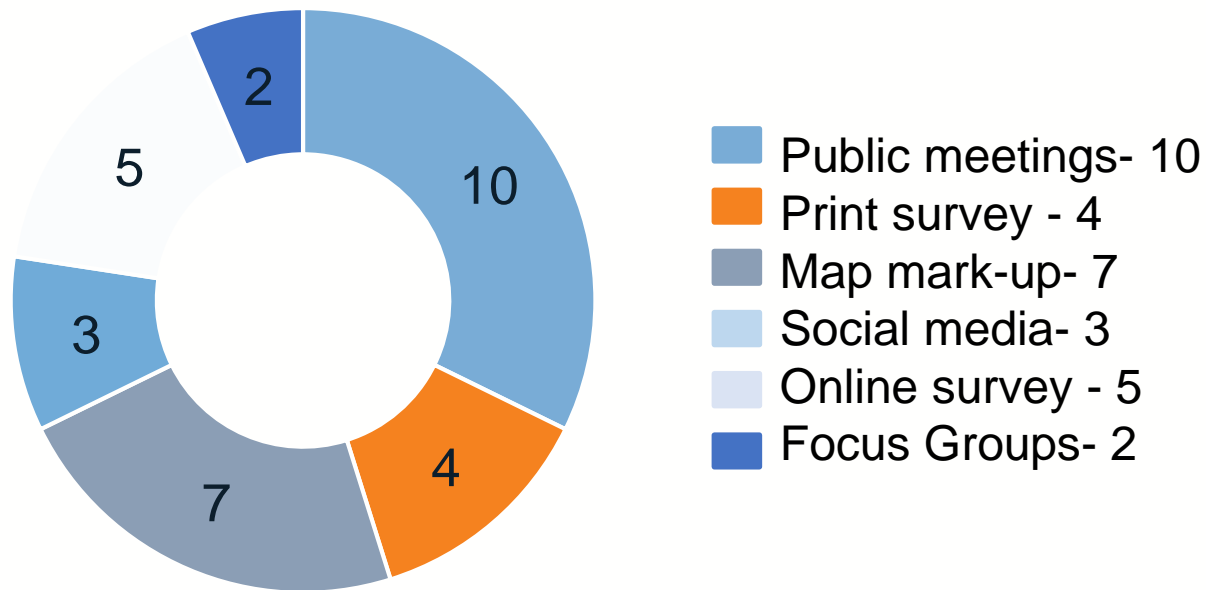
(3) Developed a Plan Abstraction Tool from the High Quality Components

- Coding process:
 - Training on several plans to gain consistency
 - Plan was coded
 - Second reviewer checked all coding
 - Differences resolved by consensus
 - Team meetings to discuss any issues
 - Input results into Qualtrics
 - Analysis

Results from first 25 Vision Zero Plans

- Year of publication
 - 1 2014
 - 4 2015
 - 5 2016
 - 14 2017
 - 1 2018
- Maps of severe/fatal crashes
 - 19 yes
 - 6 no
- Describes history of stakeholder involvement
 - 7 yes
 - 18 no
- Describes public participation process
 - 4 present and detailed
 - 11 present not detailed
 - 10 not present

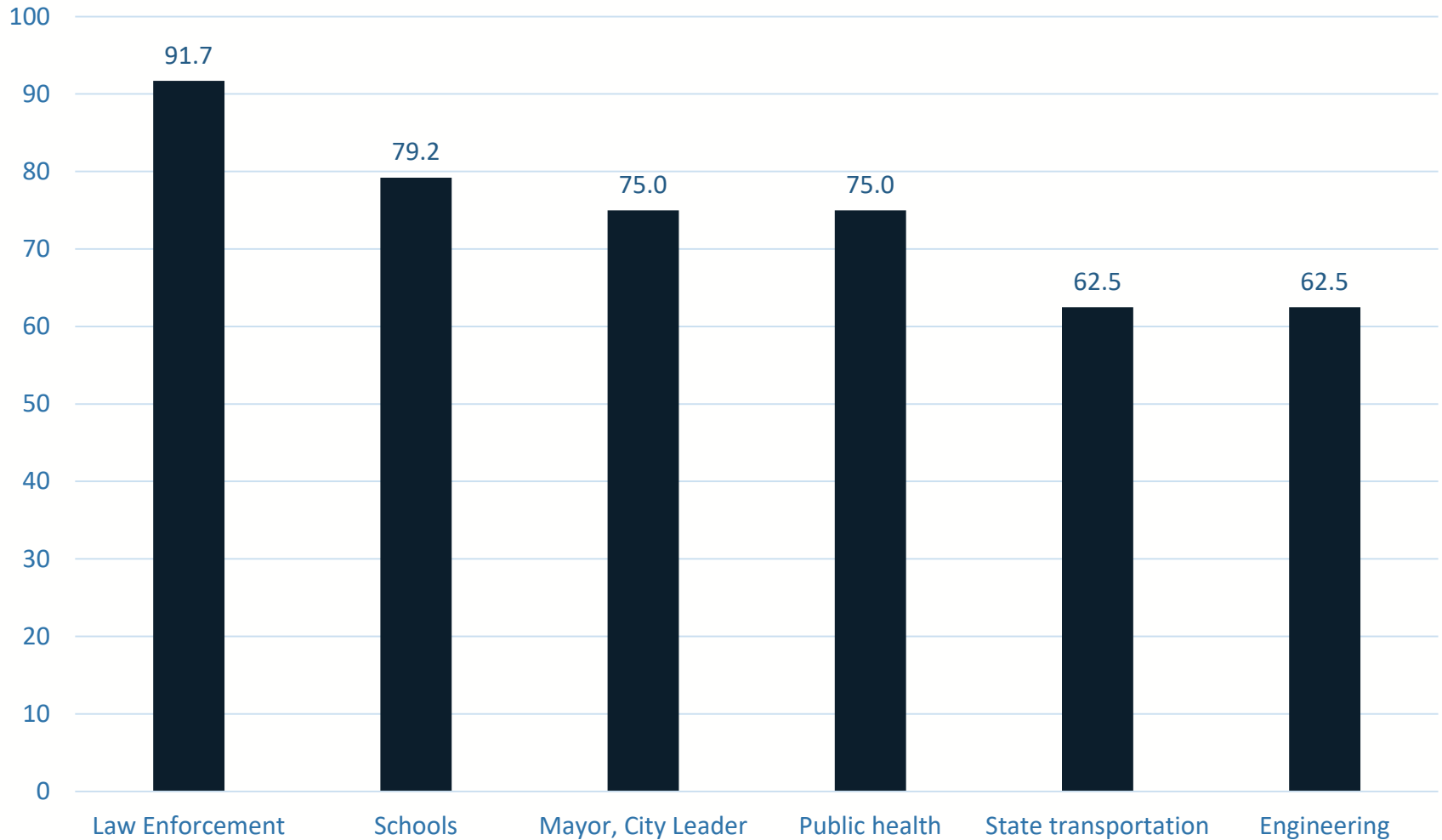
Public Engagement Strategies of n=15 plans that described the public participation process



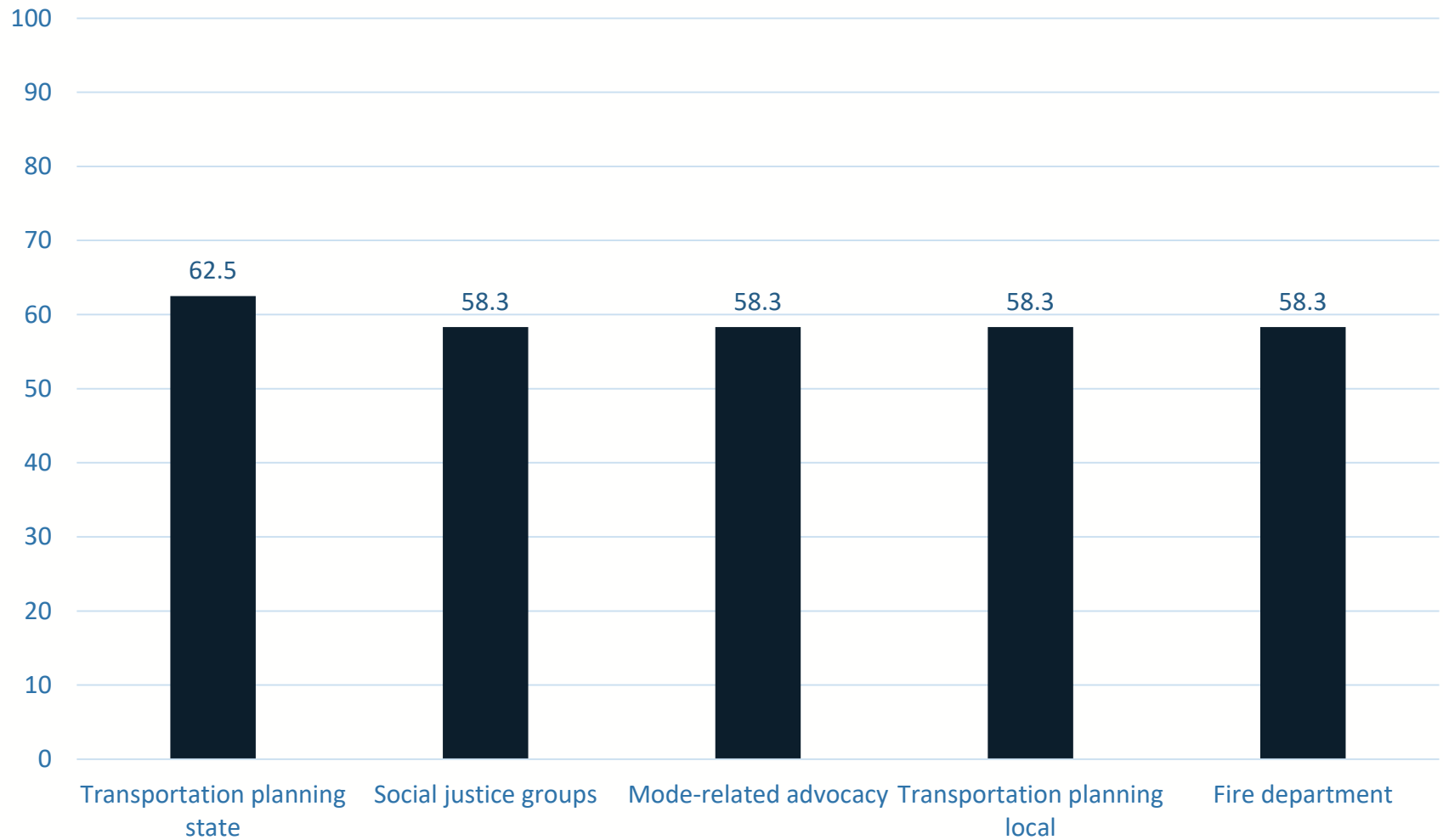
Vision and Goals from first 25 Vision Zero Plans

- Vision statement
 - 22 yes
 - 3 no
- Year to accomplish vision
 - 17 yes
 - 5 no
 - 3 no vision stated
- Year to accomplish vision
 - 3 2020-2024
 - 6 2025-2029
 - 8 2030-2035
- Clear statement of goals
 - 12 goals linked to measurable outcomes
 - 9 goals provided but not linked to measurable outcomes
 - 4 no goals specified

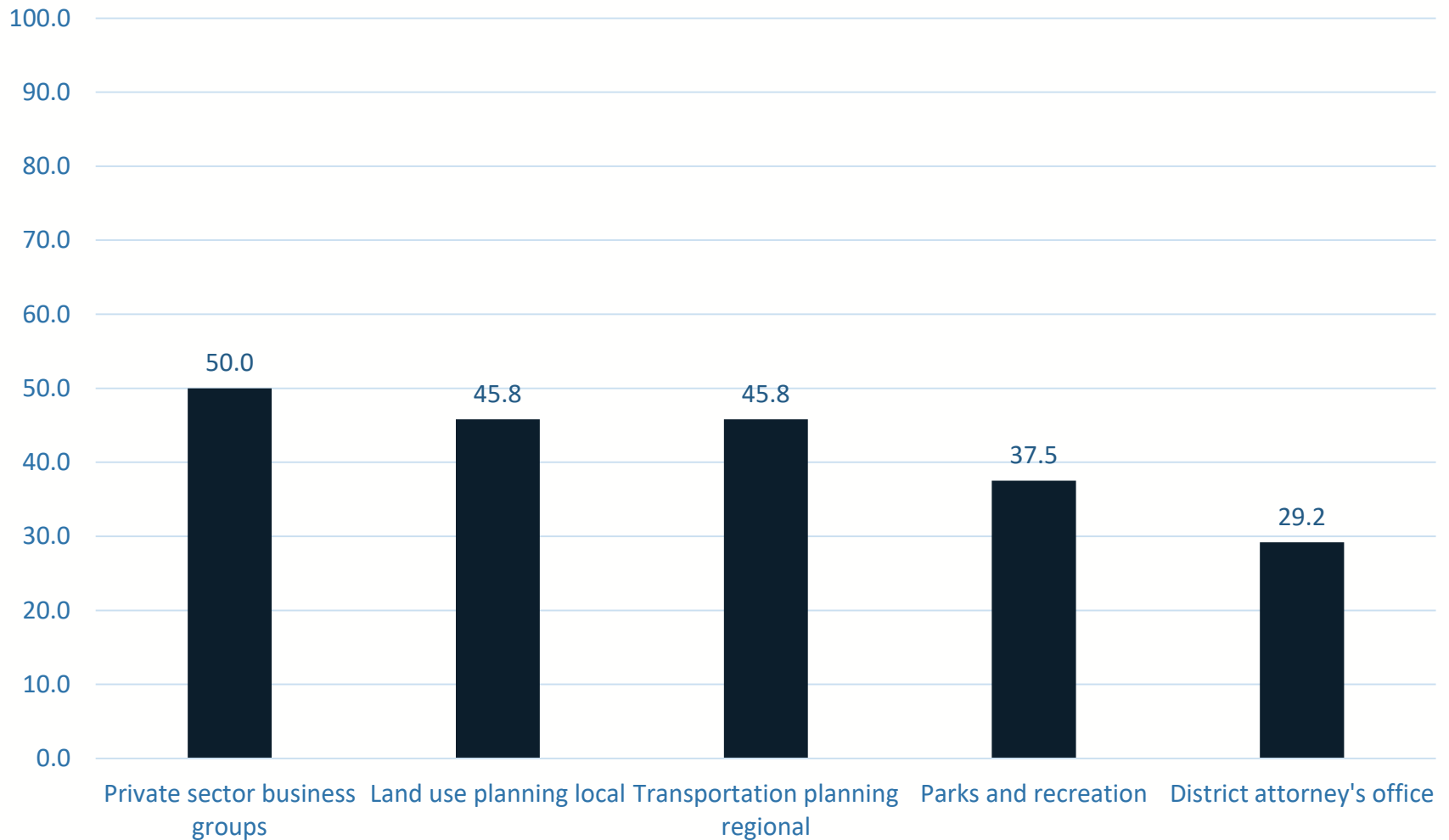
Percent of Stakeholders Mentioned in the Vision Zero Plan-1



Percent of Stakeholders Mentioned in the Vision Zero Plan-2



Percent of Stakeholders Mentioned in the Vision Zero Plan-3



(4) Dissemination



- A guide to help communities
 - Work on a new plans or
 - Revise an existing plan
- Incorporates good examples from existing plans



Guide to Developing a Vision Zero Plan

August, 2020

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https://www.roadsafety.unc.edu/wp-content/uploads/2020/08/CSCRS_VZGuide_FINAL.pdf

Guide to Developing a Vision Zero Plan

Section 1: Involving the Community.....

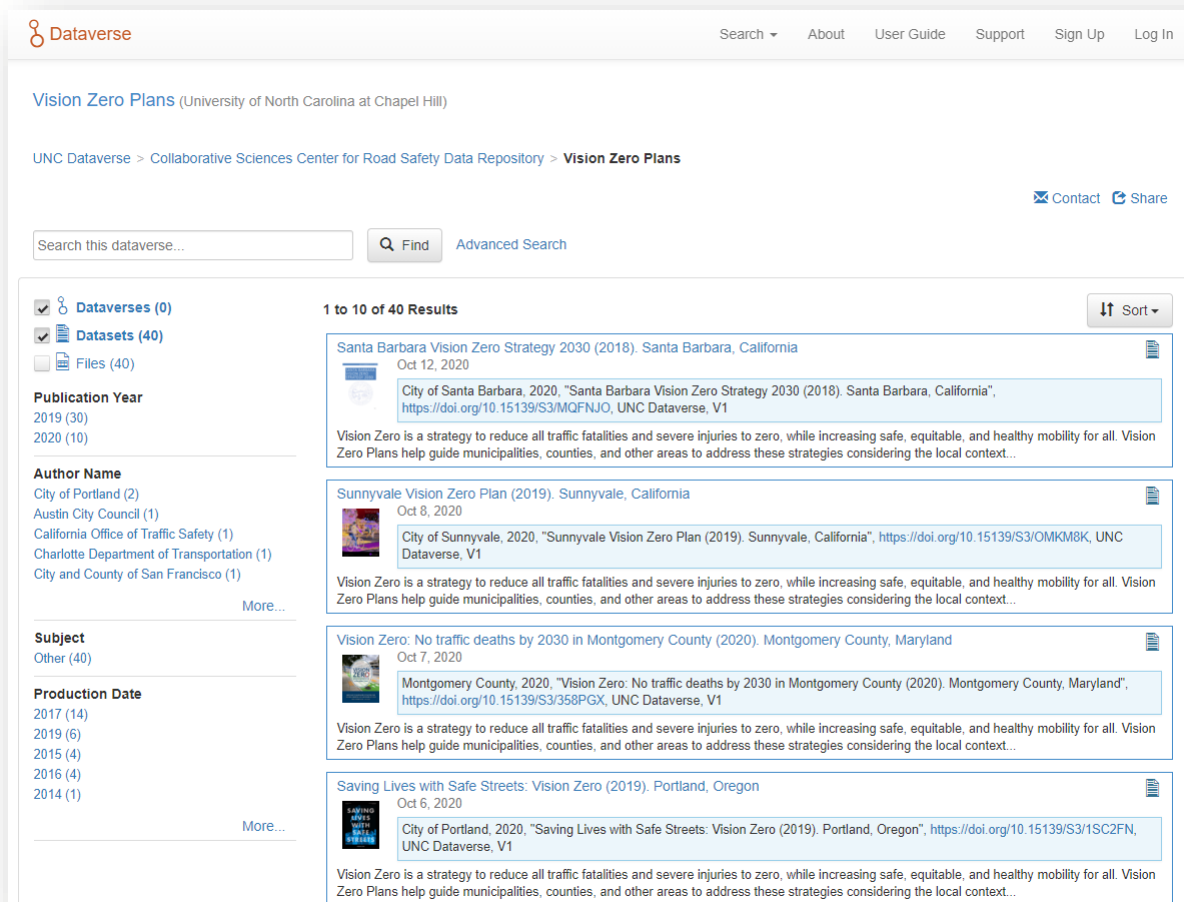
Section 2: Analyzing Current Conditions and Opportunities for Change . . .

Section 3: Developing Evidence-based Metrics and Planning Action

Section 4: Evaluating Implementation Progress.....

UNC Dataverse hosts a library of Vision Zero Plans

- <https://dataverse.unc.edu/dataverse/VZPlans>



Dataverse Search About User Guide Support Sign Up Log In

Vision Zero Plans (University of North Carolina at Chapel Hill)

UNC Dataverse > Collaborative Sciences Center for Road Safety Data Repository > **Vision Zero Plans**

Contact Share

Search this dataverse... Find Advanced Search

Datasets (0)
 Datasets (40)
 Files (40)

Publication Year
2019 (30)
2020 (10)

Author Name
City of Portland (2)
Austin City Council (1)
California Office of Traffic Safety (1)
Charlotte Department of Transportation (1)
City and County of San Francisco (1)
More...

Subject
Other (40)

Production Date
2017 (14)
2019 (6)
2015 (4)
2016 (4)
2014 (1)
More...

1 to 10 of 40 Results Sort

Santa Barbara Vision Zero Strategy 2030 (2018). Santa Barbara, California
Oct 12, 2020
City of Santa Barbara, 2020, "Santa Barbara Vision Zero Strategy 2030 (2018). Santa Barbara, California", <https://doi.org/10.15139/S3/MQFNJD>, UNC Dataverse, V1
Vision Zero is a strategy to reduce all traffic fatalities and severe injuries to zero, while increasing safe, equitable, and healthy mobility for all. Vision Zero Plans help guide municipalities, counties, and other areas to address these strategies considering the local context...

Sunnyvale Vision Zero Plan (2019). Sunnyvale, California
Oct 8, 2020
City of Sunnyvale, 2020, "Sunnyvale Vision Zero Plan (2019). Sunnyvale, California", <https://doi.org/10.15139/S3/OMKM8K>, UNC Dataverse, V1
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Vision Zero: No traffic deaths by 2030 in Montgomery County (2020). Montgomery County, Maryland
Oct 7, 2020
Montgomery County, 2020, "Vision Zero: No traffic deaths by 2030 in Montgomery County (2020). Montgomery County, Maryland", <https://doi.org/10.15139/S3/358PGX>, UNC Dataverse, V1
Vision Zero is a strategy to reduce all traffic fatalities and severe injuries to zero, while increasing safe, equitable, and healthy mobility for all. Vision Zero Plans help guide municipalities, counties, and other areas to address these strategies considering the local context...

Saving Lives with Safe Streets: Vision Zero (2019). Portland, Oregon
Oct 6, 2020
City of Portland, 2020, "Saving Lives with Safe Streets: Vision Zero (2019). Portland, Oregon", <https://doi.org/10.15139/S3/1SC2FN>, UNC Dataverse, V1
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Funding Acknowledgment

This project was supported by the Collaborative Sciences Center for Road Safety (www.roadsafety.unc.edu), a United States Department of Transportation National University Transportation Center (award # 69A3551747113).