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Creating Safer Systems and Healthier Communities: A Resource Hub

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January 14, 2021

Managing kinetic energy in NC

- Delineator systems in Greenville



Photo credit: Aaron Hines, City of Greenville



Photo credit: Pat Gruner, Daily Reflector

Hamorton Place - Before Conversion

Managing kinetic energy in NC

- Protected bike lanes and road diets in Charlotte



Photo credit: Ely Portillo



Hamorton Place After Conversion



Image source: City of Charlotte

Managing kinetic energy in NC

- UDO update and BRT in Raleigh



Ordinance No. (2021) 291 TC 454 (TC-3-21) Adopted: 10/5/2021 Page 3 Effective: 11/19/2021





Width		
A Right-of-way width	76' 81'	
With center turn lane	80'	
B Back-of-curb to back-of-curb	4 8' <u>38'</u>	
With center turn lane	52'	
Streetscape		
C Utility placement, easement	5′	
DC Maintenance strip (min)	<u>2'1'</u>	
ED Sidewalk (min)	6'	
FE Planting area (min)	6'	
F Bike Lane (min)	<u>5'</u>	
G Buffer (min; planted, paved, or paver)	3.5'	
Travelway		
G Bike lane	7'	
H Travel lane	11'	
I Center median or turn lane	11'	
-Striped turn lane	15′	
-Median		

Image source: City of Raleigh

Resource Hub website



CSCRS Webinar Series

Summer Learnina

PROFESSIONAL DEVELOPMENT

Creating Safer Systems and Healthier Communities: Resource Hub

Transportation practice informs research, and research informs practice. Part of the work of the Collaborative Science Center for Road Safety (CSCRS) is to share and develop a stronger understanding of Safe Systems principles and systems science in order to showcase how these principles can be applied in a variety of real-world scenarios and integrated into injury prevention programs such as Vision Zero. This webpage is intended to serve as a hub for research-to-practice innovation. The list of resources shown here is by no means exhaustive, and CSCRS welcomes suggestions at info@roadsafety.unc.edu for other resources to add

Tools and Applications for Strengthening Safety Systems

For those just getting started

Partnership Identification and Assessment Tool for road safety coalition exploration and development

This resource, adapted from the Center for Health and Healthcare in Schools, provides a template for reflecting on current and potential agencies, organizations, or local groups within a community that should be considered as individuals' form or strengthen road safety-related coalitions. This tool provides prompts to help individuals and coalitions think through the best methods and timing for engaging a wide variety of partners. We recommend starting with identifying six to eight partners to engage or re-engage.

Community Readiness Assessment Guide for Vision Zero work

manual adapted from the Tri Ethnia Contar for Dravantian Desperah, will provide a guide

Tools and Applications: The Community Readiness Assessment

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HOW TO CONDUCT A COMMUNITY READINESS ASSESSMENT

Conducting a Community Readiness Assessment Is the key to determining your community's readiness by dimension (key factos influencing your community's preparedness) and by overall Stage (Figure 1). 1. Identify and clearly define your community. 3. Prepare your interview arcoss the dimensions 4. Choose your key respondents. 5. Conduct and transcribe your interviews 6. Score the interview arcoss the dimensions 7. Take action on readiness-appropriate Vision Zero strategies

Step 1:

Identify and clearly define your issue. Readiness avecements are issue-specific. This manual is written with the issue of eliminating road and traffic deaths and serious injunies in mind. Focus on this issue will not only provide you with valuable insight into your community's perspective on road safety and a Vision Zeroa papenda, but will also provide information on related issues such as transit, community health, and access to all transitor transportation.

A note on terms: Community members may or may not be aware of branded initiatives like Vision Zero. Allow respondents to describe what efforts they are familiar with in their own concrete tensites (e.g., red light cameras). At the conclusion of the interview, you can offer to share more about the Vision Zero project in your community. You might want to practice describing it to someone outside your field, such as a firend. Here is one possible definition:

Vision Zero is based on the belief that people have the right to move through their communities without the risk of death or serious injury. It's an approach that accounts for the fact that humans make mitakes, transferring more of the responsibility of safety onto noad designers and policy makers than has been done in the past. Vision Zero strategies include designing roads and transportation systems in a way that prevents human error from resulting in death or serious injury. Strategies include systems level change and collaboration between diverse takeholders, using data to inform interventions, prioritizing equity and community involvement, managing speed, and promoting alternative transportation

"The problem" you want to find out about in interviews refers to deaths and serious injuries on roads. However, there are many other social costs of road detats and disabling injury you can emphasize. This includes, for example, the estimated 5 people per individual directly affected in some substantive way by the detath/injury, FISO among crash survivos and witnesse of severe crashes. Thus, you can make it clear that "the problem" includes proximal detath and injury, intermediate financial and emotional damage to families/close friends, as well as more distal mental health inmast of severe crashe verts.

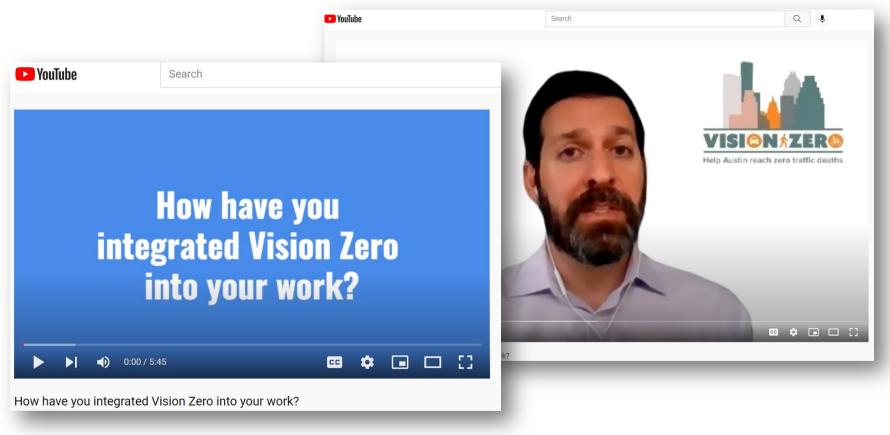
Step 2: Identify and clearly define your community.

Identify the community whose readiness you are assessing. Many Vision Zero initiatives are specific to a defined geographical area, such as a town, city, region or transportation network. However, Vision Zero readiness can also be assessed for a smaller subset of a community including:

- Geographic community a city, a county, an area enclosed by certain boundaries, etc.
- Subgroup of a geographical community defined by ethnicity, age, etc.
- Occupation group such as law enforcement,
- engineers, medical/emergency professionals, etc. • Organizations or departments of organizations
- (e.g., a university, a school district).

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Tools and Applications: Voices of Vision Zero across the U.S.



Tools and Applications: Guide to Developing a Vision Zero Plan



TENNESSEE

Berkeley

Guide to Developing a Vision Zero Plan

August, 2020

Seth LaJeunesse Rebecca B. Naumann Laura Sandt Camden Spade Kelly R. Evenson University of North Carolina, Chapel Hill

FICHINA ATLAND

Table 3.1. Examples of how Vision Zero Plans framed their goals

uide to Developing a Vision Zero Plan

Examples of Goal Themes	Example Plans (page number, reference)
Accountability, leadership	Cambridge (page 41-42) (15) Richmond (page 19) (18)
Advocacy	Montgomery County (page 28-31) (19)
Culture of safety	<u>Alexandria (page 54-57)</u> (20) <u>Hillsborough County (page 64)</u> (21)
Dangerous behaviors	Eugene (page 35-36) (22) Washington D.C. (page 47-56) (23)
Data	Los Angeles (page 38) (7) Philadelphia (page 20-23) (24)
Emergency response and services	Greensboro (page 47-48) (25) Montgomery County (page 26-27) (19)
Encouragement	Fort Lauderdale (page 37-38) (26) Miami-Dade County (page 41) (27)
Engagement with the public	Hillsborough County (page 52) (21) New York City (page 33-37) (28)
Equity	Cambridge (page 36-40) (15) Chicago (page 23) (29)
Evaluation	Austin (page 29-32) (17) San Jose (page 18, 26) (30)
Fleet management	Philadelphia (page 36-39) (24)
Impairment	Portland (page 23) (31) Tempe (page 21-23) (32)
Improve large and for-hire vehicle safety	Cambridge (page 32-35) (15)
Partnerships, external	Cambridge (page 47-48) (15) San Jose (page 25, 27) (30)
Partnerships, internal	<u>Alexandria (page 46-48)</u> (20) <u>Denver (page 14-15)</u> (33)
Policy, law	Cambridge (page 41-42) (15) Charlotte (page 36) (13)
Practices	Jersey City (page 45-47) (8) New York City (page 32) (28)

Examples of Goal Themes	Example Plans (page number, reference)
Promotion of Vision Zero	Hillsborough County (page 46) (21) Sacramento (page 46-47) (34)
Safe streets	Fremont (page 18) (35) San Francisco (page 11) (36)
Safer drivers and people	<u>Chicago (page 23)</u> (29) <u>Tempe (page 21-23)</u> (32)
Safer vehicle technology	<u>Chicago (page 23) (29)</u> <u>San Jose (page 23, 27)</u> (30)
Speed	Denver (page 18-19) (33) Portland (page 24) (31)
Street design	Boston (page 16-17) (37) Monterey (page 17-18) (38)

Prioritizing Goals

Using an organized and collaborative process, the Vision Zero task force should prioritiz community concerns toward creating a community-driven Vision Zero Plan. Both quantitative and qualitative information should be discussed. Through group discussion, multi-voting, a prioritization matrix, or other decision-making techniques (see this fails for more information), the task force can build consensus around transportation-related concerns and develop justified reasons for each selection. The prioritized community concerns will be the central focus of the Vision Zero Plan.

- Prioritization criteria may include:
- magnitude of the problem
- severity of the problem
- need among vulnerable populations
- availability of community resources
 importance of each concern to the community

Writing and Connecting Goals,

Objectives, Agency Actions, and Performance Measures The goals, objectives, agency actions, and performance

The goars, objectives, agency actions, and performance measures are informed by Safe Systems principles and a community's vision for the transportation system as one designed for and protective of all road users. To ensure that the community develops a set of goals that provides the transmission of the set of goals that provides the transmission of the set of the se a pathway to realize zero serious and fatal traffic injuries, we now define and provide examples of these terms.

Goals offer the desired end states or outcomes of the community's transportation system. That is, goals describe what a city's transportation future will look and feel like once the city has fully implemented its Vision Zero initiative.

Example goal:

Motor vehicles travel at safe speeds along all roadways in our city's network.

Objectives provide the standards to determine the extent to which each of the Vision Zero goals is achieved. Objectives should be SMART:

- Specific Details on the approach that will be used to achieve the objective;
- Measurable Can evaluate and track progress toward achieving the objective using quantitative data;
- Agreed-Upon Consensus among planners, operators, and other key stakeholders;
- Realistic Address what can be reasonably accomplished, given resource constraints and other cultural and political factors; and
- Time-bound Establish a specific timeframe for achieving the objective.

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Guide to Developing a Vision Zero Plan

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Duke

A SORTH CAROLE

Tools and Applications: Media Framing Guide





Shaping the narrative around traffic injury:

A media framing guide for transportation and public health professionals

> November 2020 Seth LaJeunesse

Stephen Heiny

Wes Kumfer

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Duke

ANDRIN CAROLINA

Who tends to tell the story?

Who is behind media framing of traffic crashes? In our recent examination of 1.156 broadcast TV news articles covering traffic crashes, journalists most often guoted a law enforcement officer or agency (18.4% of all articles). followed by crash witnesses (11.9%) and crash-involved parties (6.1%). Media coverage centered around a law enforcement perspective tended to involve identifying crash-involved parties, detailing circumstances that led to the crash, assigning "fault", and documenting any legal consequences crash-involved parties face. Previous studies have found similar trends in media framing of traffic injury, suggesting that such "villainizing" coverage might contribute to the perceived inevitability of crashes by signaling that bad driving behavior is unavoidable (Smith and Martin, 2007; Classen, Eby, Molnar, Dobbs, and Winter 2011)

Professionals and stakeholders who can and should get involved

The inevitability of traffic injury is a common public misconception. Though the Wold Health Organization considers traffic deaths a "preventable health exidenci" (Wold Health Organization, 2009), the episodie nature of most traffic injury framing neglects the broader social and environmental contexts in which crashes occur (Rajph, lacobucc, Thighen, & Goddard, 2019). In our review of 1.156 TV news articles covering traffic crashes, we found that journalists often omitted important crash details such as roadway characteristics (e.g., what is the posted speel tim?), how many lance does the road have?) or consumer tends that favor larger, higher horsepover whicks (Insurance Institute for Handway Safet; 2016). As mentioned, law enforcement, bystanders and witnesses, and carbi-moved parties were quoted most often in coverage of traffic crashes. On the other hand, transportation planners and engineers, roadway safety advocates, and public health professionals were quoted in only 1.1, 0.4, and 0.1 percent of the 1,156 covered crash events, respectively.

To help shape public perception of traffic injury as a preventable public health issue, journalists, professionals who work in injury prevention and design of roadways, and community advocates should work together to speak to common traffic injury themes beyond assigning blame and putting all of the responsibility to be safe on individual rada users.

Figure 1 displays the current and potential flow of information related to a crash, organized according to levels of knowledge about traffic collisions. As shown in Figure 1, members of the public, including decision makers, receive news of traffic crashes from their local news media. Journalists, in turn, receive content for stories about crash events from local police or the court system. Those involved in crashes sometimes engage with police officers and the court system, but nearly always connect with insurance companies. The top tier represents the professional groups that are rarely included in traffic crash narratives, but have influence on the safety of roadways, the prevention of injury, and can speak to how communities are affected by road trauma. In the next section, we will focus on how these professionals' voices and more contextual frames can lead to better understanding of traffic injury, its causes, and possible solutions.

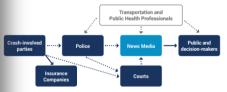


Figure 1. A depiction of the role of news media amidst the interactions that unclud in the alternath of a crash. (Solid arrows denote interactions that commonly occur: dashed denote interactions that commonly occur: dashed that occur less frequently. and grey-outlined while baces and anows denote featured communication channels to present traffic injury as a preventable public heaht issue).

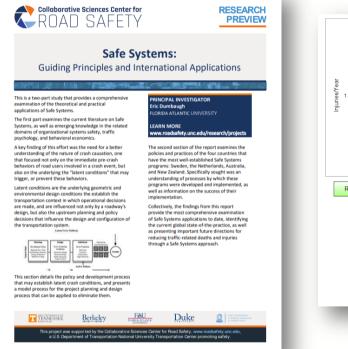
Shaping the narrative around traffic injury: A media framing guide for transportation and public health professionals

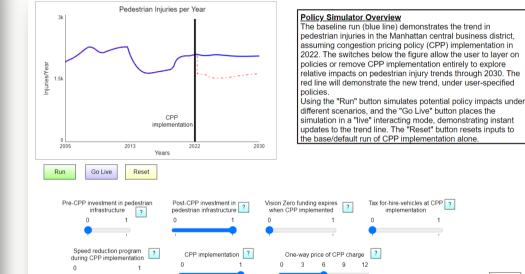
TENNESSEE

Teaching, Training, and Talks



CSCRS Research on Vision Zero and Safe Systems





Home

Other Favorite Resources



Thank you!

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