





Alternative Bicycle Safety Signage:

An Overview

Agenda

Research Overview

Peer Cities

Promising Practices Nationwide Research Findings

Next Steps

Summary



Sharrow



W11-1 Sign



W16-1 Sign



R4-11 Sign

Research Overview

Peer Cities

Not Used Used

Peer City	☆	Ø₹8>	SHARE THE ROAD	Regulatory Signage
Boulder, CO		·		
Gainesville, FL				
City of Grand Rapids, MI				
Gresham, OR				
Madison, WI				
Portland, OR				
Metro, OR				
District of Colombia				
San Francisco, CA				
West Palm Beach, FL				

Promising Practices Nationwide

- National Association of City Transportation Officials (NACTO)
- National Center for Transit Research
- California Department of Transportation (Caltrans)
- Most recent version of Michigan Manual of Uniform Traffic Control Devices (MMUTCD)
- League of American Bicyclists

Research Findings

Not much impact-focused research

Need more universally comprehended signage

Behavioral study of "Share the Road" comprehension

 Federal HighWay Administration (FHWA), National Academics of Sciences Engineering and Medicine (NASEM), and City of San Francisco sharrow studies

Next Steps

Next Steps – Transportation Team

- Consider Ann Arbor's current signage techniques
 - Discuss with stakeholders
- Super-sharrow experimentation
 - FHWA request
- Identify areas for [bike] May Use Full Lane (R4-11)
- Gather input from Michigan professionals

Next Steps – Pending Project Approval

- Technical documentation
- Installation examples
- Public education
- Implementation

Summary

Alternative signs may improve biking

Review of current signage guidelines

Incorporate supersharrow & [bikes] May Use Full Lane







Thank You!

References

- NACTO design guide for bicycle boulevards
- Michigan Manual of Univ orm Traffic Control Devices
- Peer Cities
 - Smart Cities Collaborative
 - 2017 Boulder
 - Gainesville, FL
 - Grand Rapids, MI
 - <u>Driving Change Education Program</u>
 - Madison, WI
 - Portland, OR and Gresham, OR
 - Phasing Out "Share the Road" Plaque
 - Metro, OR
 - District of Columbia
 - Oregon Bicycle and Pedestrian Design Guide
 - California Manual of Uniform Traffic Control Devices
 - <u>San Francisco Municipal Transportation Agency</u>
 - <u>Bicycling.com</u>
 - <u>City of West Sacramento</u>

References

- FHWA Study evaluating sharrows and how they improve safety
- National Academics of Sciences Engineering and Medicine 2016 study
- San Francisco Report on Shared Lane Markings
- League of American Bicyclists
- North Carolina State University behavioral study of comprehension of road signs
- <u>League of Michigan Bicyclists 'Bikes May Use Full Lane' Law Change</u>
- National Association of City Transportation Officials Transit Street Design Guide
- National Association of City Transportation Officials Urban Bikeway Design Guide
- National Center for Transit Research: Shared Bicycle/Bus Lanes
- California Department of Transportation Bike-in-Lane Sign Use and Comprehension
- Californial Manual on Uniform Traffic Control Devices