

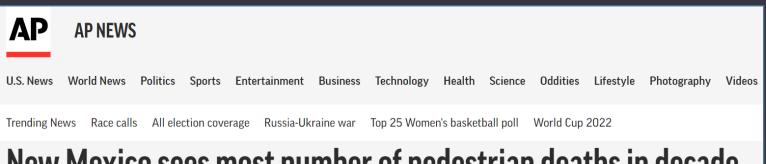
MPOs and GIS

- Metropolitan Planning Organizations (MPOs) program federal funds for transportation projects
- Regional (metro area) collaboration and planning
- Maps and GIS are key to thinking and modeling regionally
 - Roadway inventories (networks)
 - ► Land use and transportation connection
 - ► Forecast future conditions
 - ► Where are transportation improvements (including safety and pedestrian improvements) needed?

Background

Pedestrian deaths are high.

Safety is a priority.



New Mexico sees most number of pedestrian deaths in decade

January 18, 2022



SPORTS

ENTERTAINMENT

NM again deadliest state for pedestrians

BUSINESS



ENVIRONMENT & CLIMATE CHANGE POLICE & PRISON ELECTION 2022 HEALTH

BY MATTHEW REISEN / JOURNAL STAFF WRITER

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Albuquerque ranked second in the nation for pedestrian deaths despite city initiatives

BY: NASH JONES, KUNM NEWS - JULY 28, 2022 4:21 AM











An official website of the United States government Here's how you know



OUT DOT V PRIORITIES V CONNECT







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Safe Streets and Roads for All Grants

About Safe Streets and Roads for All Grants

Announcement

Webinar Series

How to Apply

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Safe Streets and Roads for All (SS4A) Grant Program

The <u>Bipartisan Infrastructure Law</u> (BIL) established the new Safe Streets and Roads for All (SS4A) discretionary program with \$5 billion in appropriated funds over the next 5 years. In fiscal year 2022 (FY22), up to \$1 billion is available. The SS4A program funds regional, local, and Tribal initiatives through grants to prevent roadway deaths and serious injuries.

 $S \mid S$

The SS4A program supports Secretary of Transportation Pete Buttigieg's National Roadway Safety Strategy and the Department's goal of zero deaths and serious injuries on our nation's roadways.





U.S. Department of Transportation



National Roadway Safety Strategy

United States Department of Transportation | January 2022

Vision Zero

Information about how we can all take action to improve traffic safety in Albuquerque.

What is Vision Zero?

What is an acceptable number of traffic deaths for my family? ZERO.

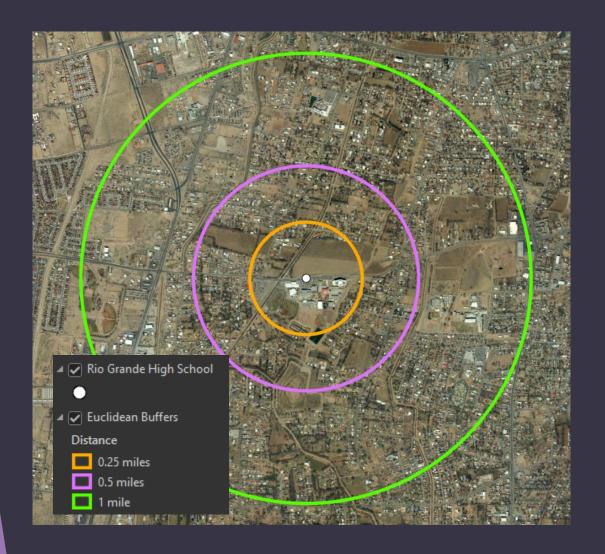
Vision Zero is a data-driven safe systems approach to create safer streets for all, whether walking, biking, driving, or taking transit, and regardless of age or ability. It is used around the world to eliminate all traffic fatalities and severe injuries, while increasing safe, healthy, equitable mobility for all. Read more about Vision Zero.

Traffic safety is an important piece of our overall effort to improve public safety. In 2020, at least 77 people were killed while traveling around our city. That is 77 too many of our family members, children, friends, and neighbors. We can all take steps to improve safety on Albuquerque streets.

Walking in GIS

Walksheds, Walkable Development, Walkability?

Walksheds

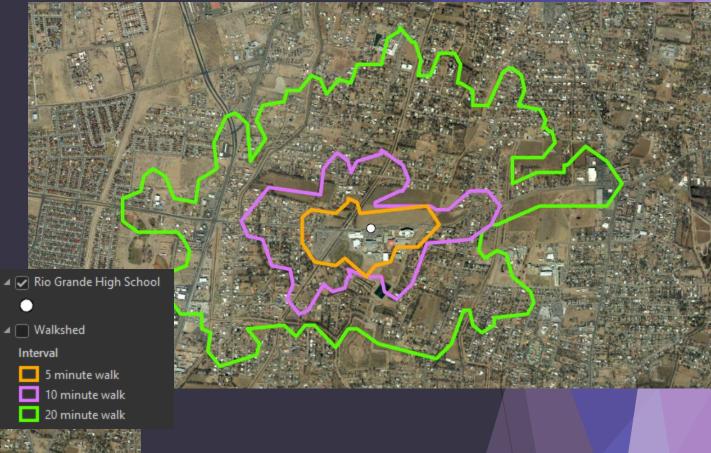






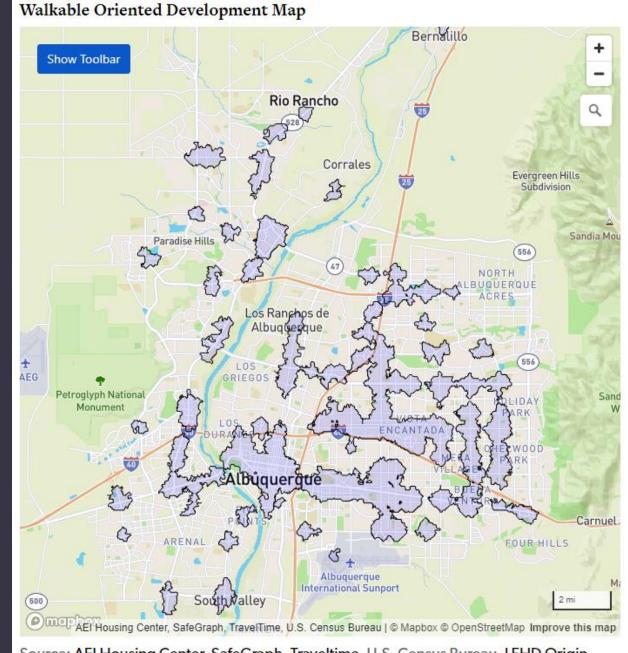
- Accessibility
- Network distances
- ▶ Based on speed, time, and distance





Walkable Oriented Development

- Walkable Oriented Development
 - ▶ Where do people want to walk?
 - Destinations
 - ▶ i.e., attractors, trip generators, etc.
 - One way of thinking about walkability
 - https://www.aei.org/wod/
 - "Walksheds" for clusters of destinations
 - ► Areas defined by walk time
 - ► Network-based (not perimeters)



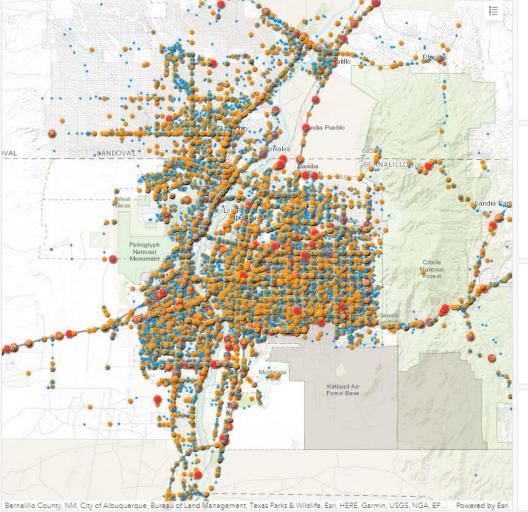
Source: AEI Housing Center, SafeGraph, Traveltime, U.S. Census Bureau, LEHD Origin-Destination Employment Statistics Data, First American

Safety

communities?

https://mrmpo.maps.arcgis.com/apps/MapSeries/index.html? appid=ec395f5587744d778832207af7d86f93

MRCOG Roadway Safety and Crash Report (2015-2019) Use these fields to filter the data in the map and for the modes of travel involved. Overall Crash Statistics By Top Contributing Factor (TCF) Driver Inattention How have crashes changed over time? Failed to Yield Right of Way None Identified Following Too Closely Where are the most dangerous locations? Improper Driving Excessive Speed Disregard Traffic Signal Alcohol Drug Involved What are the Top Contributing Factors? Avoid Contact Mechanical or Road Defect Every time a roadway crash happens the police officers Passed Stop Sign in the field will report what they believe was the Top Contributing Factor (TCF) for the crash. By Mode This interactive Dashboard allows you to look at these TCFs by the severity of the crash, the location, and the Bicyclist Involved modes involved. Motorcyclist Involved Which mode is most at risk? Vehicle Involved By Severity When do crashes happen? Fatal Crash Injury Crash How do crashes impact vulnerable Property Damage Only Crash



Vehicle Involved

A MRMPO Story Map 🖪 💆 🔗

₱ 109.9k

Motorcyclist Involved



Bicyclist Involved

் 1.1k

Pedestrian Involved

௺ 1.8k

High Fatal and Injury Network (HFIN)

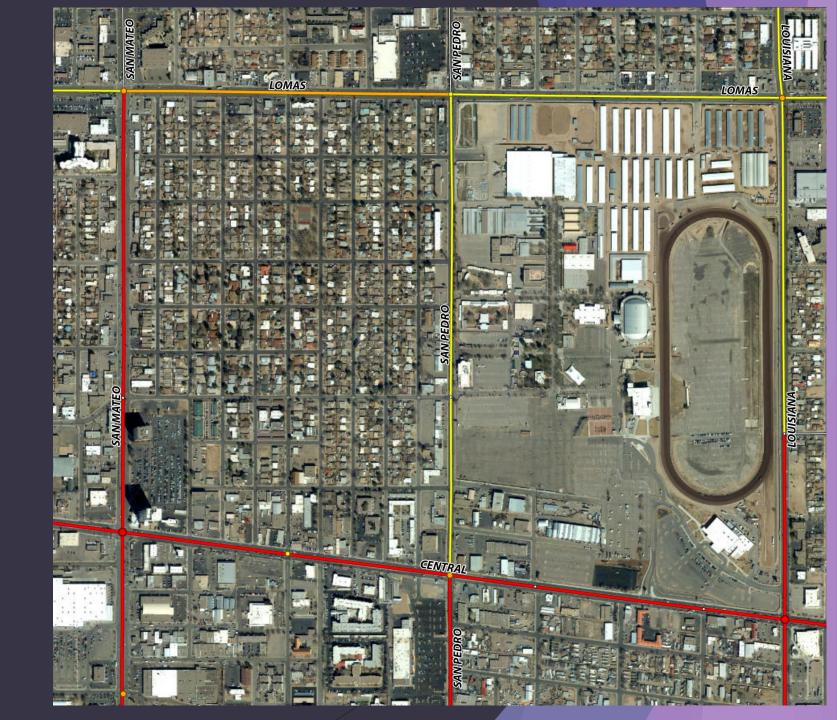
▲ ✓ Pedestrian Involved Intersection Crashes

Pedestrian Crashes

- 1 2
- 3 4
- 5 9
- 0 10 24
- Pedestrian HFIN Score

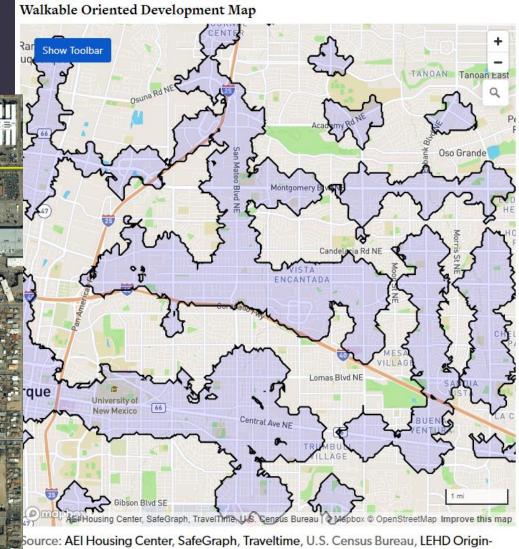
Mean Pedestrian HFIN Score: 15.9

- Below Mean
- ___ 1 to 1.5x Mean
- 1.5 to 2x Mean
- Above 2x Mean



Safety & Walkability





Safety Data Gaps

- Non-motorized traffic counts
 - ► Where are people walking?
 - ► Where are people biking?
- Sidewalk inventory
 - **▶** Condition

- Obstacles
 - ▶ Cost
 - ▶ Creation
 - ▶ Acquisition
 - Scale
 - Privacy

Thanks!

Sagert Sheets

GIS Manager

Mid-Region Metropolitan Transportation Planning Organization (MRMPO)

Mid-Region Council of Governments (MRCOG)

- ► ssheets@mrcog-nm.gov
- ▶ gis@mrcog-nm.gov
- ► https://mrmpo.maps.arcgis.com/