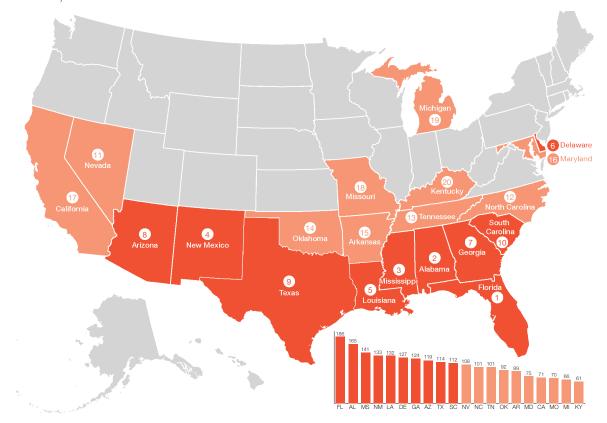
DANGEROUS BY DESIGN

Traffic deaths for people walking, biking, and rolling continue to rise

2018 was the deadliest on record for people walking and riding bicycles in nearly three decades. **In 2018, drivers in the United States struck and killed 6,283 people walking, and another 857 people were struck and killed while riding bicycles.** Deaths among these vulnerable users continue to rise nationwide even as overall deaths stagnate or decline. Between 2009 and 2018, traffic deaths among motor vehicle occupants declined by one percent, but over the same decade traffic deaths among people walking increased by 53 percent. Similarly, traffic deaths among people bicycling increased by 36 percent during this time period.

Every two years, Smart Growth America releases *Dangerous by Design*, a national report that explores the pedestrian safety crisis. In this interim update, we reexamined the top 20 most dangerous states for people walking over the past decade based on our Pedestrian Danger Index, a metric that measures deadliness for people walking, controlling for the size of the population and the share of people who walk to work. Although rankings within the top 20 states shifted slightly, in 2020 the same states comprise the top 10 and top 20 most dangerous places for people walking compared to our *Dangerous by Design 2019* report.

The top 20 most dangerous states for pedestrians (2009-2018)







Most states failed to meet their unambitious "safety" targets

Our federal and state governments are not doing nearly enough to address this safety crisis. Through the **Highway Safety Improvement Program** (HSIP), each state is required to set "safety" targets for the number of deaths and serious injuries on their roadways. In exchange, the federal government provides funding to implement safety projects and programming. Beginning in 2018, states set a target for the number of non-motorized deaths and serious injuries combined, which includes people walking, biking, using wheelchairs, and riding scooters and other non-motorized vehicles. Unfortunately, 18 states set targets for more non-motorized users to be killed and injured compared to the most recent year of data reported at the time.

Smart Growth America assessed how states fared compared to their 2018 HSIP targets for deaths and serious injuries among people walking, biking, and rolling. Although the National Transportation Safety Board issued official recommendations to create a nationwide database of all traffic injuries, these data are not yet available, so SGA projected serious injuries for 2018 based on recent trends in the share of fatalities versus serious injuries over recent years.

The results are uninspiring. A total of ten states aimed for more people to be killed or seriously injured while walking, biking, and rolling, and then exceeded that target. Another eight states set targets to increase deaths and serious injuries but fortunately remained below their goal. Among states that aimed to improve safety for non-motorized users, only eight states successfully achieved their goals while 24 states saw deaths and serious injuries exceed their targets.

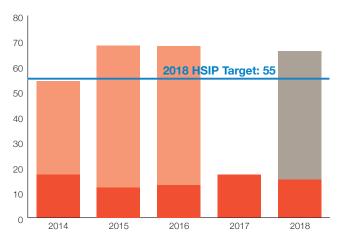
	States that set targets to improve safety				States that set targets to increase deaths and serious injuries		
States that achieved their safety targets	Delaw Iowa Kansa Maine	Mi s Ve	Michigan Minnesota Vermont Wyoming		Alabama Massachusetts New Mexico New York	North Dakota Oklahoma Rhode Island Utah	
States that exceeded their safety targets	Alaska Arizona DC Hawai'i Idaho Illinois Kentucky Louisiana	Maryland Mississippi Missouri Montana New Hampshire New Jersey North Carolina Ohio	Oregon Pennsylvania South Carolina Tennessee Texas Virginia Washington West Virginia		Arkansas California Colorado Connecticut Florida	Georgia Indiana Nebraska Nevada South Dakota	

Note: Injury data not reported in Wisconsin

The ensuing pages of this interim report explore the number of deaths and serious injuries among people walking, biking, and rolling state by state over the past five years.

Alaska

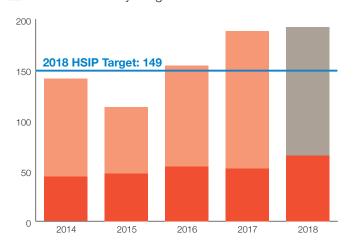
✓ Aimed to **reduce** non-motorized deaths and injuries✓ **Exceeded** safety target for non-motorized users



Note: Injury data not reported for 2017

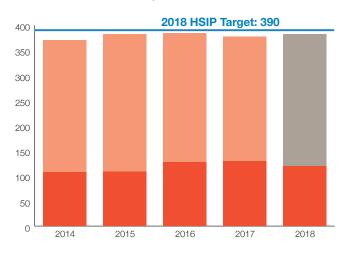
Arkansas

☒ Aimed to increase non-motorized deaths and injuries
 ☒ Exceeded "safety" target for non-motorized users



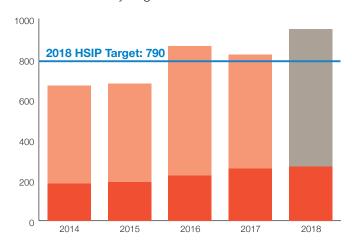
Alabama

✓ Aimed to increase non-motorized deaths and injuries✓ Achieved "safety" target for non-motorized users



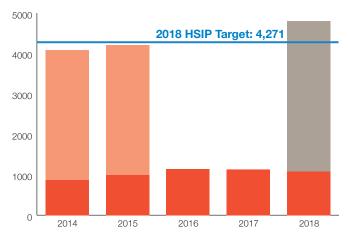
Arizona

✓ Aimed to **reduce** non-motorized deaths and injuries
 ✓ **Exceeded** safety target for non-motorized users



California

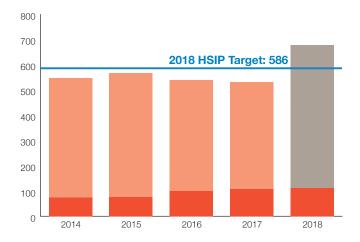
✓ Aimed to increase non-motorized deaths and injuries
 ✓ Exceeded "safety" target for non-motorized users



Note: Injury data not reported for 2016-2017

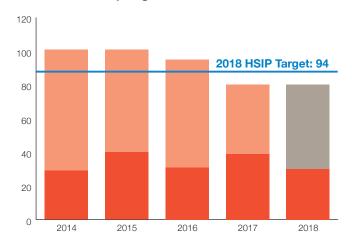
Colorado

☒ Aimed to increase non-motorized deaths and injuries
 ☒ Exceeded "safety" target for non-motorized users



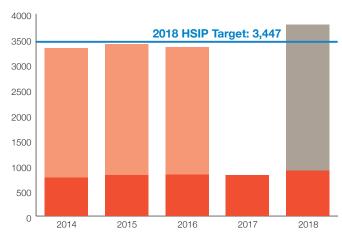
Delaware

Aimed to reduce non-motorized deaths and injuriesAchieved safety target for non-motorized users



Florida

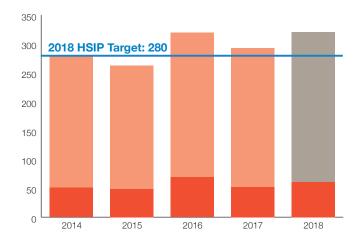
☒ Aimed to increase non-motorized deaths and injuries
 ☒ Exceeded "safety" target for non-motorized users



Note: Injury data not reported for 2017

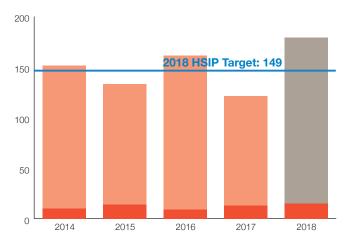
Connecticut

✓ Aimed to increase non-motorized deaths and injuries
 ✓ Exceeded "safety" target for non-motorized users



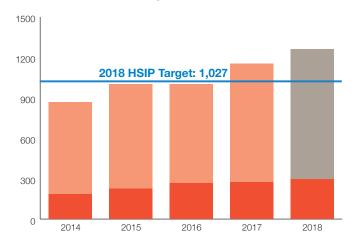
District of Columbia

✓ Aimed to **reduce** non-motorized deaths and injuries✓ **Exceeded** safety target for non-motorized users



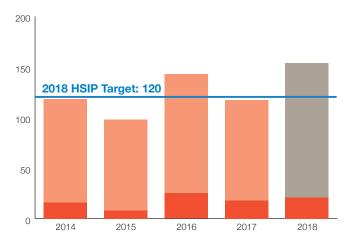
Georgia

✓ Aimed to increase non-motorized deaths and injuries
 ✓ Exceeded "safety" target for non-motorized users



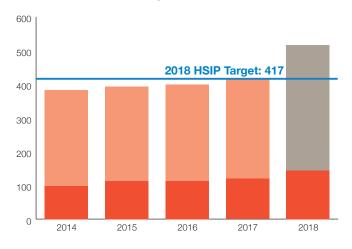
Idaho

✓ Aimed to **reduce** non-motorized deaths and injuries✓ **Exceeded** safety target for non-motorized users



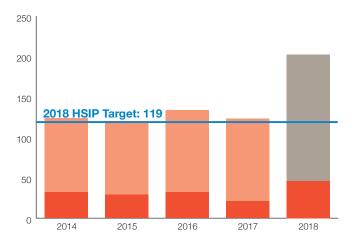
Indiana

☒ Aimed to increase non-motorized deaths and injuries☒ Exceeded "safety" target for non-motorized users



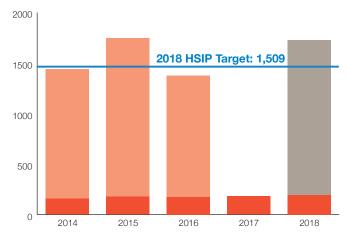
Hawai'i

✓ Aimed to **reduce** non-motorized deaths and injuries✓ **Exceeded** safety target for non-motorized users



Illinois

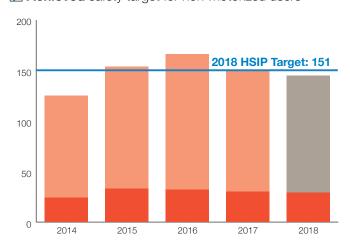
✓ Aimed to **reduce** non-motorized deaths and injuries✓ **Exceeded** safety target for non-motorized users



Note: Injury data not reported for 2017

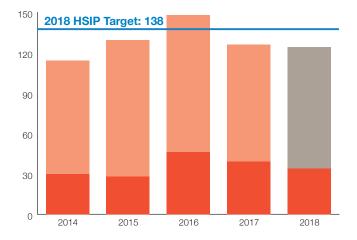
lowa

✓ Aimed to **reduce** non-motorized deaths and injuries✓ **Achieved** safety target for non-motorized users



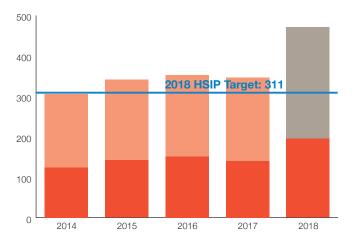
Kansas

Aimed to reduce non-motorized deaths and injuriesAchieved safety target for non-motorized users



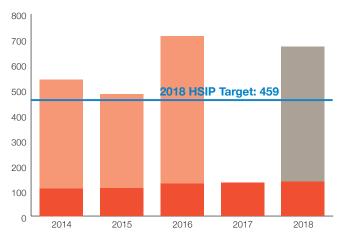
Louisiana

✓ Aimed to **reduce** non-motorized deaths and injuries✓ **Exceeded** safety target for non-motorized users



Maryland

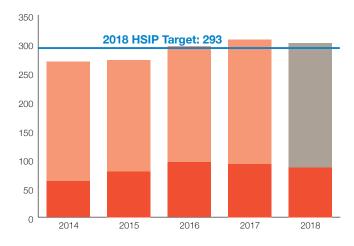
✓ Aimed to **reduce** non-motorized deaths and injuries✓ **Exceeded** safety target for non-motorized users



Note: Injury data not reported for 2017

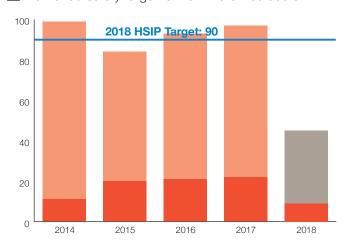
Kentucky

✓ Aimed to **reduce** non-motorized deaths and injuries✓ **Exceeded** safety target for non-motorized users



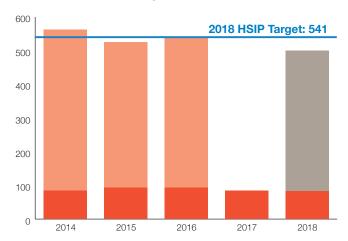
Maine

Aimed to reduce non-motorized deaths and injuries
 Achieved safety target for non-motorized users



Massachusetts

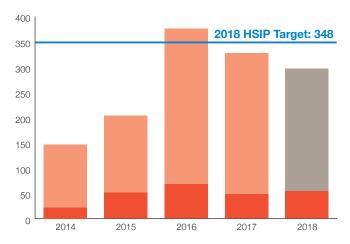
✓ Aimed to increase non-motorized deaths and injuries✓ Achieved "safety" target for non-motorized users



Note: Injury data not reported for 2017

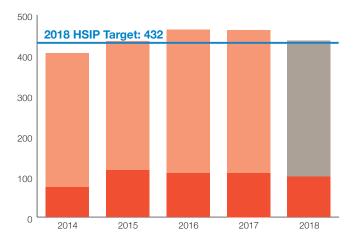
Minnesota

Aimed to reduce non-motorized deaths and injuriesAchieved safety target for non-motorized users



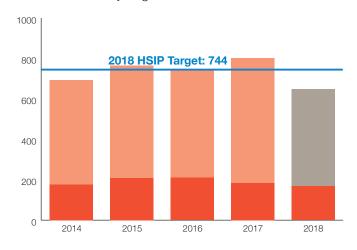
Missouri

✓ Aimed to **reduce** non-motorized deaths and injuries✓ **Exceeded** safety target for non-motorized users



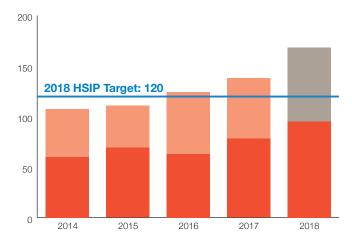
Michigan

Aimed to reduce non-motorized deaths and injuriesAchieved safety target for non-motorized users



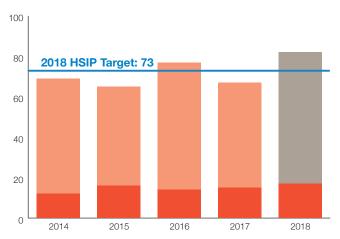
Mississippi

Aimed to reduce non-motorized deaths and injuriesExceeded safety target for non-motorized users



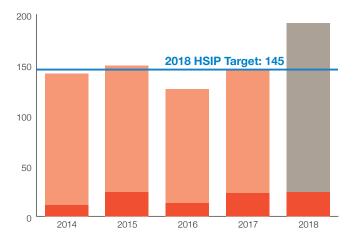
Montana

✓ Aimed to **reduce** non-motorized deaths and injuries✓ **Exceeded** safety target for non-motorized users



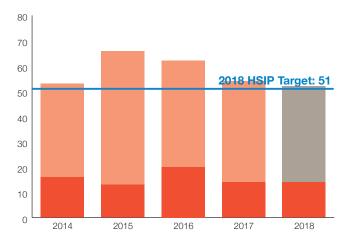
Nebraska

- Aimed to **increase** non-motorized deaths and injuries
- Exceeded "safety" target for non-motorized users



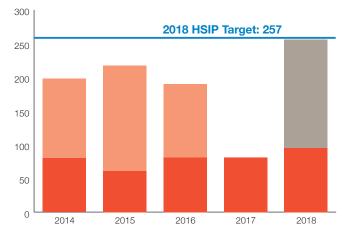
New Hampshire

✓ Aimed to **reduce** non-motorized deaths and injuries **Exceeded** safety target for non-motorized users



New Mexico

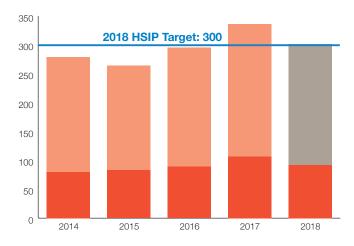
 ★ Aimed to increase non-motorized deaths and injuries Achieved "safety" target for non-motorized users



Note: Injury data not reported for 2017

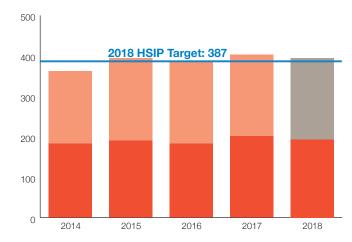
Nevada

X Aimed to increase non-motorized deaths and injuries Exceeded "safety" target for non-motorized users



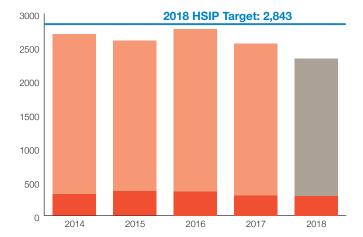
New Jersey

Aimed to **reduce** non-motorized deaths and injuries Exceeded safety target for non-motorized users



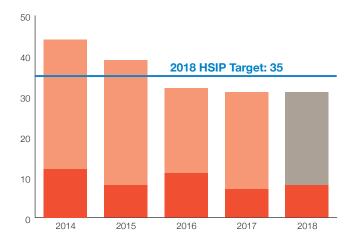
New York

X Aimed to increase non-motorized deaths and injuries Achieved "safety" target for non-motorized users



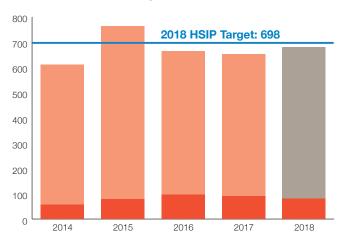
North Dakota

✓ Aimed to increase non-motorized deaths and injuries
 ✓ Achieved "safety" target for non-motorized users



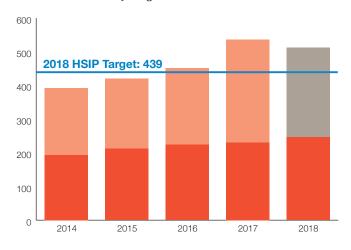
Oklahoma

☒ Aimed to increase non-motorized deaths and injuries☒ Achieved "safety" target for non-motorized users



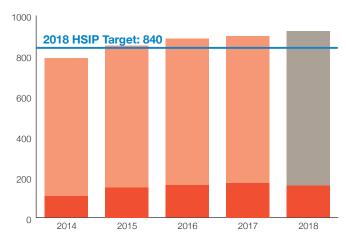
North Carolina

✓ Aimed to **reduce** non-motorized deaths and injuries✓ **Exceeded** safety target for non-motorized users



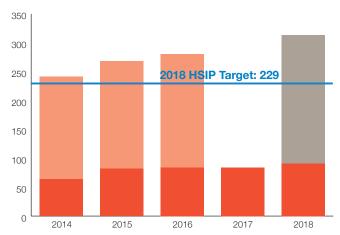
Ohio

✓ Aimed to **reduce** non-motorized deaths and injuries✓ **Exceeded** safety target for non-motorized users



Oregon

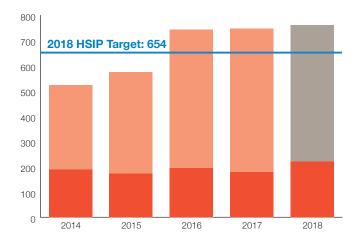
✓ Aimed to **reduce** non-motorized deaths and injuries✓ **Exceeded** safety target for non-motorized users



Note: Injury data not reported for 2017

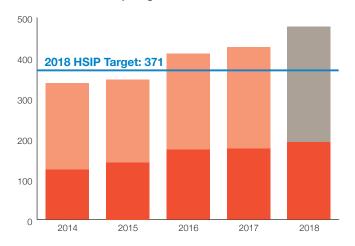
Pennsylvania

✓ Aimed to **reduce** non-motorized deaths and injuries✓ **Exceeded** safety target for non-motorized users



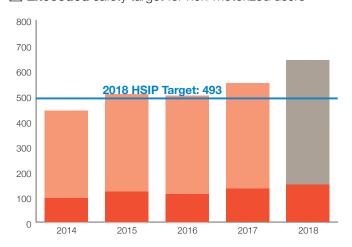
South Carolina

✓ Aimed to **reduce** non-motorized deaths and injuries
 ✓ **Exceeded** safety target for non-motorized users



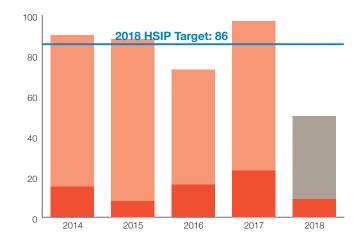
Tennessee

✓ Aimed to **reduce** non-motorized deaths and injuries
 ✓ **Exceeded** safety target for non-motorized users



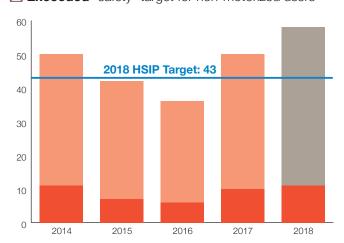
Rhode Island

✓ Aimed to increase non-motorized deaths and injuries
 ✓ Achieved "safety" target for non-motorized users



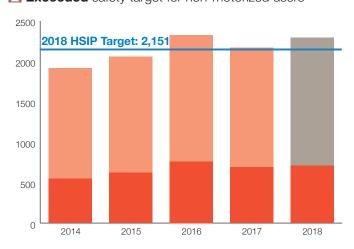
South Dakota

✓ Aimed to increase non-motorized deaths and injuries
 ✓ Exceeded "safety" target for non-motorized users



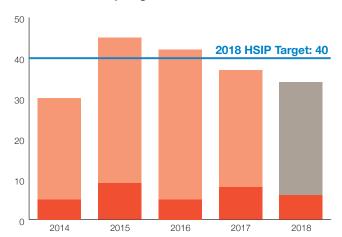
Texas

✓ Aimed to reduce non-motorized deaths and injuries
 ✓ Exceeded safety target for non-motorized users



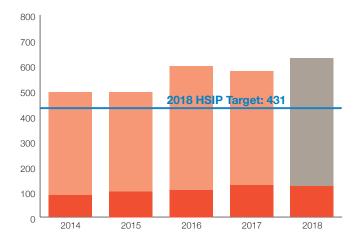
Vermont

Aimed to reduce non-motorized deaths and injuriesAchieved safety target for non-motorized users



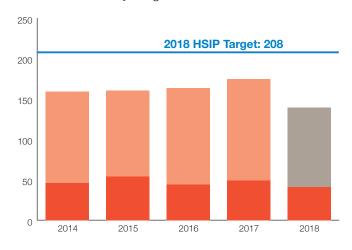
Washington

✓ Aimed to **reduce** non-motorized deaths and injuries
 ✓ **Exceeded** safety target for non-motorized users



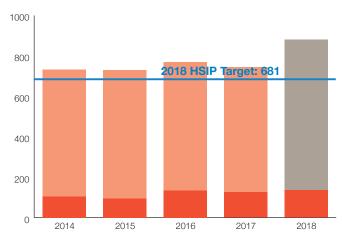
Utah

✓ Aimed to increase non-motorized deaths and injuries
 ✓ Achieved "safety" target for non-motorized users



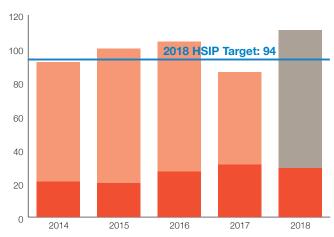
Virginia

Aimed to reduce non-motorized deaths and injuriesExceeded safety target for non-motorized users



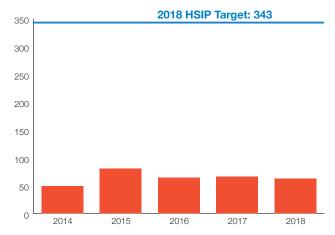
West Virginia

✓ Aimed to **reduce** non-motorized deaths and injuries✓ **Exceeded** safety target for non-motorized users



Wisconsin

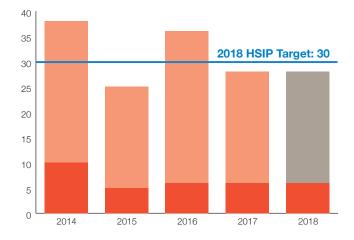
- Cannot compare target to recent trends
- Cannot assess achievement of target



Note: Injury data not reported for 2014-2017

Wyoming

✓ Aimed to reduce non-motorized deaths and injuries✓ Achieved safety target for non-motorized users



Methodology

To calculate the Pedestrian Danger Index (PDI), Smart Growth America first determined the average annual pedestrian fatalities per 100,000 population using fatality data from the Fatality Analysis Reporting System (FARS) between 2009 and 2018 and population data from the American Community Survey's (ACS) 2017 5-year estimates, which was the most recent year of data available at the time of this report. These data were then normalized by walking rate by dividing the average annual fatality rate by the percentage of the population in each state that walks to work, also from the ACS 2017 5-year estimates.

The 2018 Highway Safety Improvement Program (HSIP) targets were recorded in each state's 2017 HSIP report. Injury data between 2014 and 2017 were similarly reported in each state's 2018 HSIP report. To project the number of serious injuries among non-motorized users in 2018, Smart Growth America calculated the average share of fatalities as a percentage of all serious injuries between 2014 and 2017, excluding years where states failed to report injury data. The number of non-motorized serious injuries in each state was then extrapolated based on this percentage and 2018 fatality data from FARS.

Each state's 2018 HSIP target was then compared to the projected number of deaths and serious injuries combined in 2018, as well as to the most recent year of complete data reported at the time the target was adopted in 2017.