

Zero is our goal. A Safe System is how we get there.

Palm Beach TPA Vision Zero Workshop Chimai N. Ngo, FHWA Office of Safety – May 2022





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- Overview of Safe System Approach
- Implementation Opportunities
- Resources



HOW DOES THE U.S. REACH ZERO DEATHS?



APPROACH

Zero is our goal. A Safe System is how we get there.

A NEW DIRECTION

- Human Centered
- Eliminates Fatal And Serious Injuries by:

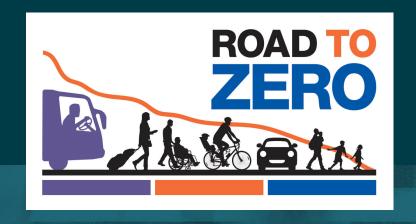


Accommodating human mistakes



Keeping impacts on the human body at tolerable levels

SAFE SYSTEM IN THE UNITED STATES



Source: National Safety Council

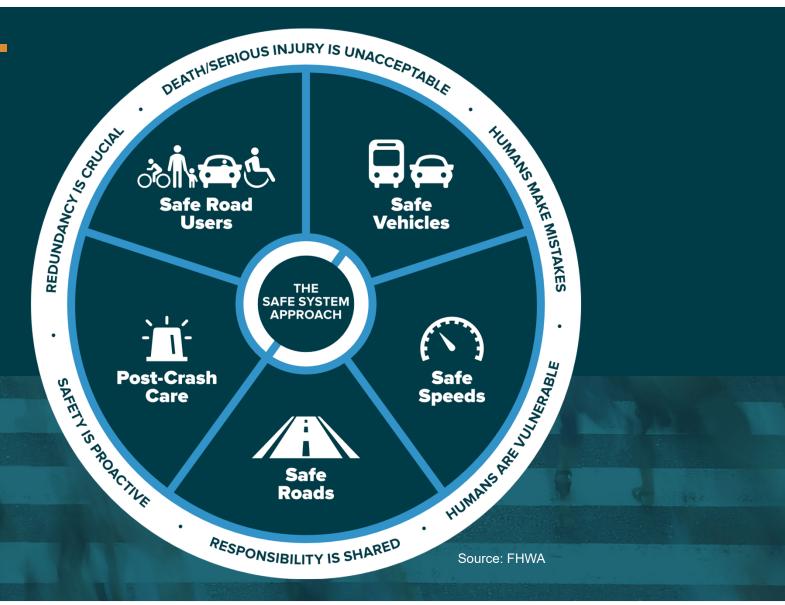


Source: AASHTO



Source: Vision Zero Network

THE SAFE SYSTEM APPROACH



THE 6 SAFE SYSTEM PRINCIPLES



Death/serious injury is unacceptable



Humans make mistakes



Humans are vulnerable



Responsibility is shared



Safety is proactive



Redundancy is crucial

THE 5 SAFE SYSTEM ELEMENTS



Safe road users



Safe vehicles



Safe speeds



Safe roads



Post-crash care

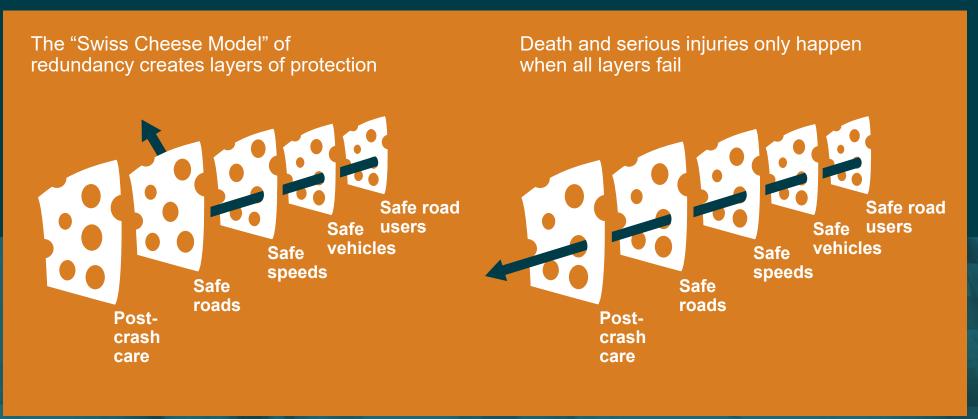
OTHER CONSIDERATIONS IN THE SAFE SYSTEM APPROACH



Source: Source: FHWA, modification with permission of © 2017 Robert Wood Johnson Foundation.



THE 5 SAFE SYSTEM ELEMENTS CREATE REDUNDANCY



WHERE ARE YOU ON THE SAFE SYSTEM JOURNEY?

Traditional approach

Prevent crashes

Prevent death and serious injuries

Improve human behavior

Design for human mistakes/limitations

Control speeding

Reduce system kinetic energy

Individuals are responsible

Share responsibility

React based on crash history

Proactively identify and address risks

IMPLEMENTATION OPPORTUNITIES

- Policies
 - Land use, housing, equity, safety (e.g., speed limits), etc.
- Planning
 - Transportation plans and programs, Vision Zero action plans, local road safety plans, etc.
- Design
 - Context-sensitive solutions
 - Geometric design separation of modes in time and space, self-enforcing, etc.

NATIONAL ROADWAY SAFETY STRATEGY



National Roadway Safety Strategy

United States Department of Transportation | January 2022

"The Department will work to ensure the goal of reaching zero roadway fatalities and the principles of an integrated Safe System Approach are part of the implementation of all U.S. DOT program activities that affect the Nation's roadways."

National Roadway Safety Strategy

Source: US DOT

SAFE STREETS AND ROADS FOR ALL (SS4A)

Funding: \$5 billion available for competitive grants over 5 years

Focus: preventing roadway deaths and serious injuries

Eligible Entities: MPOs, counties, cities, towns, and Tribes

Grant types:

- Planning (comprehensive safety action plans); and
- Implementation grants

Notice of Funding Opportunity: coming soon

For more information: https://www.transportation.gov/SS4A



FHWA RESOURCES



Safe System Materials

Find more resources at:

https://safety.fhwa.dot.gov/zerodeaths/resources.cfm



APPROACH

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Source: FHWA

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