## Steps Toward Health: Safe Routes to School 101

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## Learning objectives

Overview of the 6 Es with examples of Safe Routes to School activities and other best practices from Indiana and the U.S. H*b*D

□ Know the five elements of a Safe Routes to School Action Plan and why they're critical.

Understand methods of engaging multiple partners, parents, and advocates with diverse backgrounds.

## About Health by Design

Health by Design works at the intersection of the built environment and public health, collaborating across sectors and disciplines to ensure Indiana communities have neighborhoods, public spaces and transportation infrastructure that promote active living for all.













**Policy**: Safe Routes to School

**System:** Changes the everyday decisions that create students' transportation system; biking, walking, and transit are seen as integral parts of the system and necessary to access school sites

**Environment:** An environment is created where kids (and parents) can walk, bike, and/or use transit easily and comfortably





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Image inspired by vitalysthealth.org



## "One number may determine how healthy you are and how long you live. It isn't your weight, cholesterol count, or any of those numbers that doctors look at.

It's your address."

--Policy Link



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## WALKING AND BICYCLING TO SCHOOL

Percentage of children who walked or bicycled to school in 1969.

Estimated percentage of children who walk or bike in 2019.

> 1969 Nationwide Personal Transportation Survey (USDOT, 1972) National Center for Safe Routes to School

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## HOW DID WE GET HERE?

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"When communities organize themselves around the automobile as the primary mode of transportation, they effectively engineer physical activity right out of the equation."

-Neil Caudle

As a result, we get incomplete streets that are not aware of their human context.

Incomplete streets that turn the most vulnerable users into second-class citizens.

Community design that limits mobility options.

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## Infrastructure (or a lack of it) create additional barriers.

NEW AT 6

PARENTS COMPLAIN OF DANGEROUS WALK TO SCHOOL



pedestrians survive

pedestrians survive

pedestrians survive

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## **Complete Streets**



Complete Streets allow for safe, equitable, reliable, and convenient use; and they support mobility for all roadway users.

**ROADWAY:** Designed for speed management,

predictability, and enhanced safety



GREENSPACE: Public spaces encourage community interaction and serve as destinations via placemaking



ADA: Compliant curb ramps, auditory crossing signals, and other measures ensure accessible streets for all users



PLANTING STRIP: Designed for shade, comfort, increased sense of safety, and speed reduction





SAFE CROSSINGS: Clearly marked and designated crossings that increase driver awareness

TRANSIT: Dedicated lanes and spaces for transit access



BIKE LANES: Separate, protected, dedicated lanes for bicycle use

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COMFORT & CONVENIENCE: Pedestrian scale lighting, signage, wayfinding, benches, trash receptacles, etc.



SIDEWALKS: Clear, shaded, smooth with connections to adjacent spaces, transit stops, and other destinations

## YOUR BRAIN ON PHYSICAL ACTIVITY

### Average composite of 20 student brains





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YOUR BRAIN AFTER SITTING YOUR BRAIN AFTER EXERCISE

Chuck Hillman, University of Illinois

## YOUR BRAIN ON PHYSICAL ACTIVITY

Average composite of 20 student brains taking the same test



AFTER 20 MINUTE WALK





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AFTER SITTING QUIETLY



Chuck Hillman, University of Illinois

## YOUTH PHYSICAL INACTIVITY in INDIANA

PERCENTAGE OF HIGH SCHOOL STUDENTS BY DAYS OF PHYSICAL ACTIVITY, INDIANA, 2015



2015 Youth Behavioral Risk Survey

Lowers risk of:

- Early death
- Coronary heart disease, stroke
- High blood pressure, adverse blood lipid profile
- Type 2 diabetes
- Cancers: Recent evidence indicates exercise linked to lower risk of 13 cancers!

- Weight management and maintenance
- Prevention of falls
- Depression, cognitive function (older adults)
- Helps control joint swelling and pain from arthritis

## HEALTH VALUE

Being **physically active** is one of the most important steps that Americans can take to improve their health.

# "If you do only one thing to **keep your brain young**, **EXERCISE**."

-Dr. Art Kramer, Neurologist, Univ. of Illinois



# Walkable Neighborhoods & Communities support SRTS

Safe Useful Comfortable Interesting

Photo credit: Planetizen, Eric Sehr





## History and overview

- Distance to school
- Traffic safety
- Personal safety/crime
- School/district policies



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#### 6 Es

Safe Routes Partnership, a national thought leader, defines a comprehensive, integrated Safe Routes to School program as one with six key components.



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#### Equity

Ensuring that Safe Routes to School initiatives are benefiting all demographic groups, with particular attention to ensuring safe, healthy, and fair outcomes for low-income students, students of color, students of all genders, students with disabilities, and others.



#### SF BIKE & ROLL WEEK • 5/10 - 5/14/2021

Semana para ir en bicicleta o rodando أسبوع بايك آند رول 騎自行車和踏滑板周 Linggo ng pagbibisikleta

sfbike.org/bikeandrollsf #bikeandrollsf





HBC

#### Applying Equity to Your Safe Routes to School Program



- Ensure promotional and/or safety materials are multilingual, reflecting the diversity of students and their families
- Host a walk audit with neighborhood families to identify safe, preferred walking, biking, and rolling routes to school
- Provide district-wide or individual school maps of preferred routes that account for students of all physical abilities
- Safe Routes to School programs serving sizeable populations of students qualifying for free or reduced lunch and/or minority populations should consult families on local walking, biking, and rolling routes
- Arrival and dismissal plans should incorporate all modes of transportation to ensure safe travel for all students



H<sub>b</sub>D

Photo credit: Seattle Dept. of Transportation

#### Engineering

Creating physical improvements to streets and neighborhoods that make walking and bicycling safer, more comfortable, and more convenient.



#### Applying Engineering to Your Safe Routes to School Program

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IPS Butler Lab School 55, Indianapolis

HbD

#### Engagement

All Safe Routes to School initiatives should begin by listening to students, families, teachers, and school leaders and working with existing community organizations, and build intentional, ongoing engagement opportunities into the program structure.



#### Applying Engagement to Your Safe Routes to School Program



- Starts with authentic community engagement
- Outreach should engage parents / guardians at varying times and places (e.g., virtual, in-person, written survey, etc.) to ensure maximum participation
- Share resources for parents/guardians looking to become actively involved (e.g., Indiana Safe Routes to School Guidebook, Safe Routes Partnership website, etc.)
- Be honest with capacity limitations
- Develop or strengthen relationships between school district and local government (planners, engineers, law enforcement, etc.



#### Encouragement

Generating enthusiasm and increased walking and bicycling for students through events, activities, and programs.





#### Applying Encouragement to Your Safe Routes to School Program



#### H*b*D

#### Education

Providing students and the community with the skills to walk and bicycle safely, educating them about benefits of walking and bicycling, and teaching them about the broad range of transportation choices.



#### Applying Education to Your Safe Routes to School Program



#### Evaluation

Assessing which approaches are more or less successful, ensuring that programs and initiatives are supporting equitable outcomes, and identifying unintended consequences or opportunities to improve the effectiveness of each approach.



#### Applying Evaluation to Your Safe Routes to School Program







**PARENTS**,

**ARE YOUR** 

**CHILDREN** 

WALKING

If you're a parent or caregiver in Virginia, we want to hear from you! **Take our Fall 2020 Parent** and Caregiver Survey to help us understand how the pandemic has influenced walking and bicycling.

https://www.surveygizmo.com/s3/ 5831518/VA-SRTS-Parent-Survey

#### **Cupertino High School** Safe Routes to School Improvement Plan



Photo credit: City of Cupertino



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High-Visibilit

Recomment Raised Walk

## Creating a SRTS plan in 5 steps

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Form a SRTS Committee

Hold a kick-off meeting

Analyze existing conditions, identify issues

Identify solutions (prioritize improvements)

Make a Plan!

## What's in a SRTS Plan?



### List of projects: safety/education/encouragement

Long and short-term priorities & goals

**Partnerships & funding** 

**Take Action!** 

**Evaluate, assess, adjust, and repeat!** 

## SRTS Guidebook



#### **Did you Know?**

- In Indiana, 1,705 pedestrians and 820 bicyclists were involved in collisions in 2017; 114 of these were killed (104 pedestrians, 10 bicyclists).
- In 2017, there were 238 children ages 15 and younger involved in traffic crashes as pedestrians, of which, almost half (42.9%) experienced fatal or incapacitating injuries. An estimated 20 – 25% of rush hour traffic on local roadways is school traffic.
- Nationally, 85% of children's trips to school are made by car or school bus; only 13% of school trips are made by walking or bicycling.
- Approximately 16% of children and adolescents in the United States are now seriously
  overweight—more than twice the number of children considered obese in the early
  1980s. Overweight children are more likely to develop cardiovascular disease, diabetes
  and other health-related problems.
- Asthma is on the rise among children. Vehicle emissions, especially diesel exhaust, are a known contributor to this disease.

SOURCES, NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION, INDIANA STATE POLICE, SURFACE TRANSPORTATION POLICY PROJECT, U.S. DEPARTMENT OF HEALTH AND HEMAN SERVICES, CENTERS FOR DISEASE CONTROL AND PREVENTION, AMERICAN HEART ASSOCIATION, AMERICAN LUNG ASSOCIATION, AMERICAN JOURNAL OF PUBLIC HEALTH



Your Safe Routes to School Plan: Steps for Success H<sub>b</sub>D

## Glossary of Terms











## Questions?

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