



**Pedestrian and Bicycle  
Information Center**

# Youth-Engaged Design and Quick Build Installation

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**Lauren Marchetti** National Center for Safe Routes to School / PBIC

**Melody Gibson** Civic Design Center

**Cydney Thompson** Civic Design Center

**Renee Espiau** City and County of Honolulu Transportation Department

# Housekeeping

- ⇒ **Submit your questions**
- ⇒ **Webinar archive: [www.pedbikeinfo.org/webinars](http://www.pedbikeinfo.org/webinars)**
- ⇒ **Certificates and professional development hours**
- ⇒ **Follow-up email later today**
- ⇒ **Review previous episodes and sign up for upcoming sessions**



Washington, DC  
Source: [www.walkbiketoschool.org](http://www.walkbiketoschool.org)

## Vision Zero for Youth

Children deserve safe places to walk and bike, starting with the trip to school.

By starting with children and the trip to school, communities become safe places for everyone to walk and bike.



# Vision Zero for Youth Advocacy

Build a bridge between youth and city leaders/staff for policy change

- Technical assistance to two youth-led groups
- Case study on youth-led road safety efforts informed by 14 interviews

*Engaging youth to advance safer streets for all*

- Guide and recommendations



Jacob Smith presenting at UN Meeting on Global Road Safety



Alison Collard de Beaufort as high school student advocating for slower speeds in New York City.

# Engaging youth to advance safer streets for all

Guide and inspiration for partnership between youth and adults



## Engaging youth to advance safer streets for all

Recommendations for meaningful youth engagement

The following recommendations are meant to maximize successful partnerships with youth. They address challenges and barriers to this success based on the real-life experience of young people. A companion publication, *Engaging Youth to Advance Safer Streets for All: Guide and Inspiration for Partnership Between Youth and Adults*, provides the background for these recommendations.

### ◀ Set the stage for success ▶

#### Expect good intentions.

- Start with a positive outlook.
- Everyone wants the best for their communities.

#### Create a welcoming environment.

- Create a safe space where everyone feels welcome and comfortable.
- Be willing to listen or shift your mindset.
- Ask questions, especially to get clarification.
- Be patient. Understanding each other takes time and some stumbling around.

#### Respect each other's time.

- Everyone's time is important and needs to be valued. Communicate if you need to bow out of a commitment.
- Youth, if you are asked to present at an event and you don't show up, that adult may be hesitant to ask another youth in the future. Don't hurt opportunities for your peers.

#### Respect each other's knowledge.

- Often each person has a piece of knowledge or perspective that contributes to the solution.
- Youth, you have the lived experience and the direct connections to understand how youth in your community feel and what they would like to see changed. This is your



Nashville students engaged in designing their community.  
Source: Civic Design Center.

### Partnership ideas

Youth groups are using the following activities in partnership with adults to change their communities.

- Helping the city develop transportation plans
- Collecting street and community assessment data
- Developing street designs

[www.visionzeroforyouth.org/take-action/engaging-youth](http://www.visionzeroforyouth.org/take-action/engaging-youth)

# Meaningful Youth Engagement



SFMTA Youth Transportation  
Advisory Board



Atlanta Students Advocating for  
Pedestrians

- Helping the city develop transportation plans
- Collecting street and community assessment data
- Developing street designs
- Constructing quick build projects
- Advocating for reduced transit fares for students
- Bringing youth across the country together to advocate for bicycling
- Generating community support for slowing traffic especially around schools.

# WALK BIKE & ROLL TO SCHOOL

Walk & Roll to School Day 2023 – October 4, 2023

Bike & Roll to School Day 2024 – May 8, 2024



Orlando, FL used Bike & Roll to School Day to test out a bike lane. This one-day project informed a Quick Build guide for the City of Orlando.

Photo: Bike/Walk Central Florida

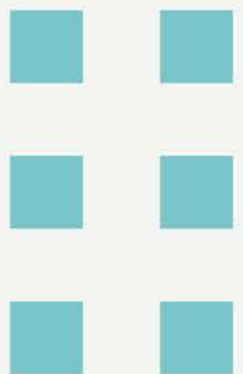






# CIVIC DESIGN CENTER

It's all about the urban planning ecosystem





# MISSION

To advocate for civic design visions and actionable change in communities  
to improve quality of life for all







August

01

# WHAT WE TEACH

**Knowledge** of built  
environment design

**Awareness** of  
community issues

**Civic Action** strategies  
for change

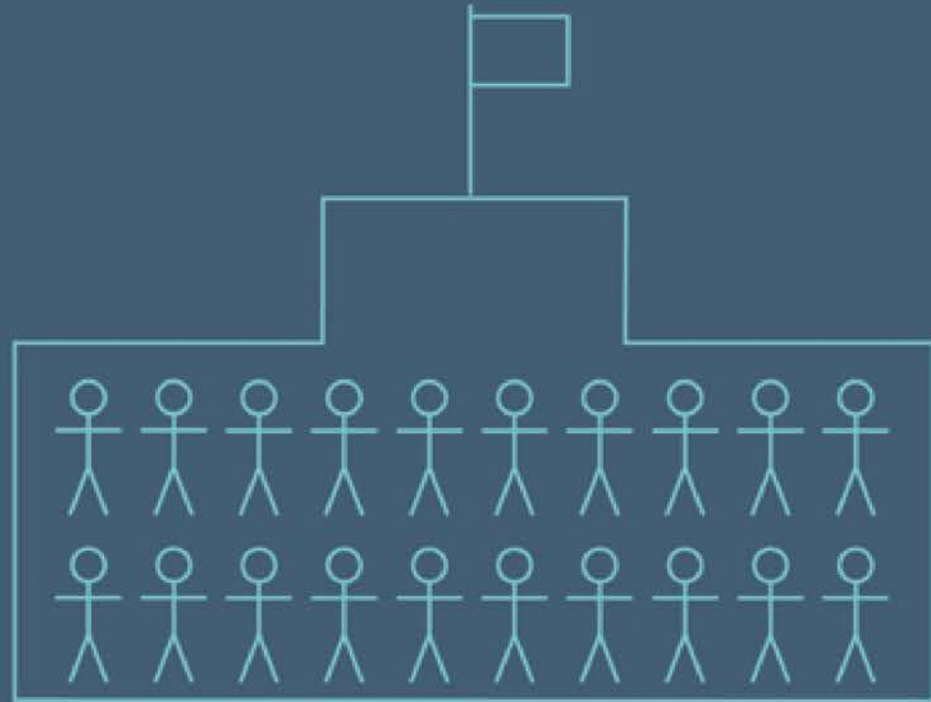




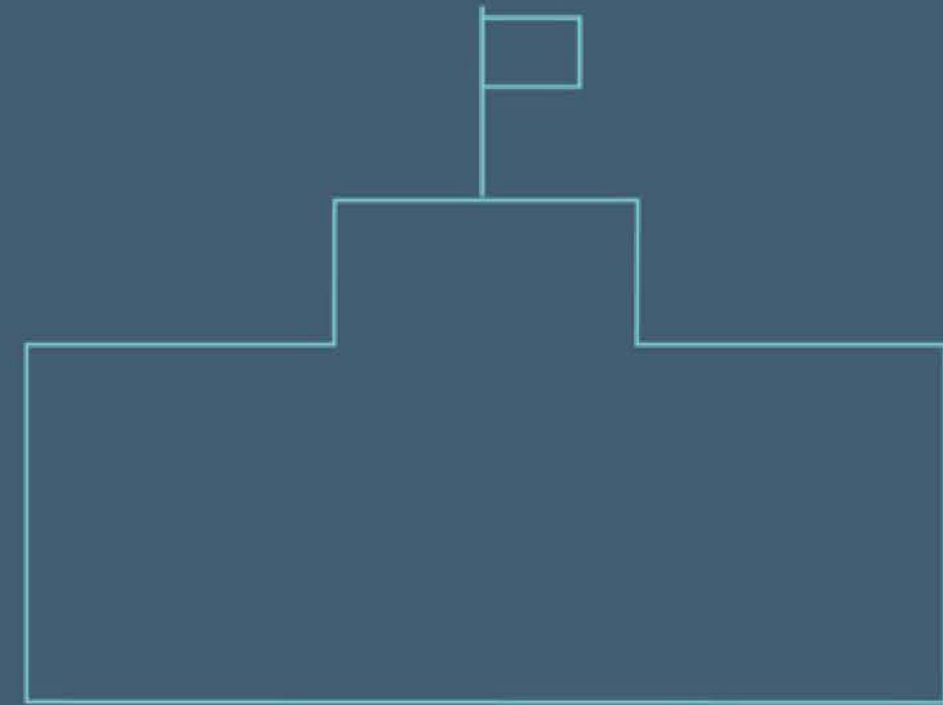
DESIGN *your*  
NEIGHBORHOOD®



NASHVILLE YOUTH DESIGN TEAM



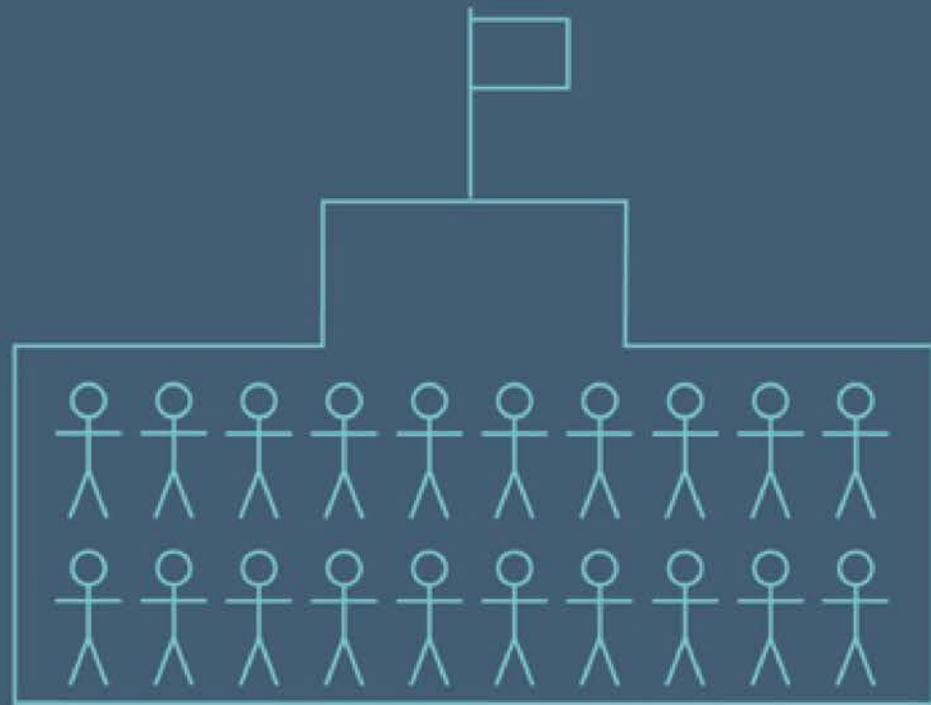
MIDDLE SCHOOL  
STEAM CURRICULUM



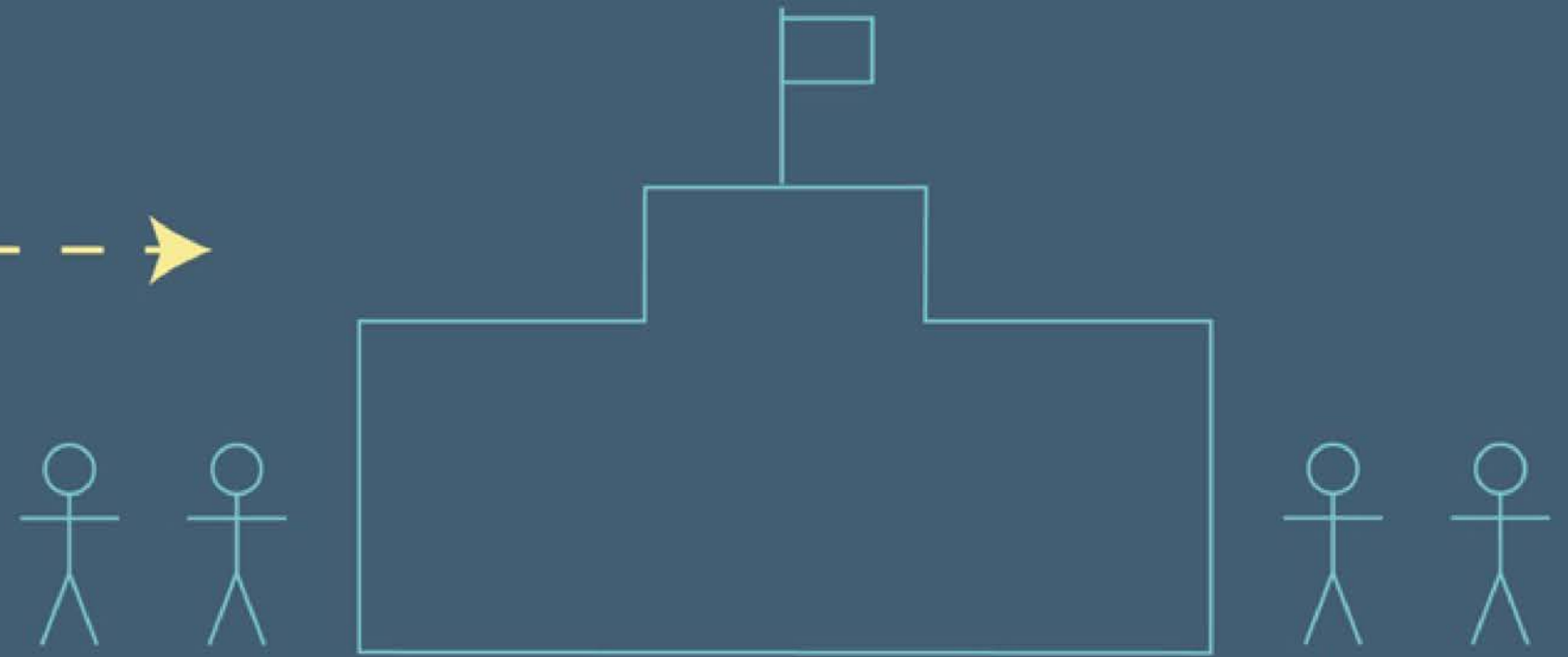
HIGH SCHOOL  
INTERNSHIP



DESIGN *your*  
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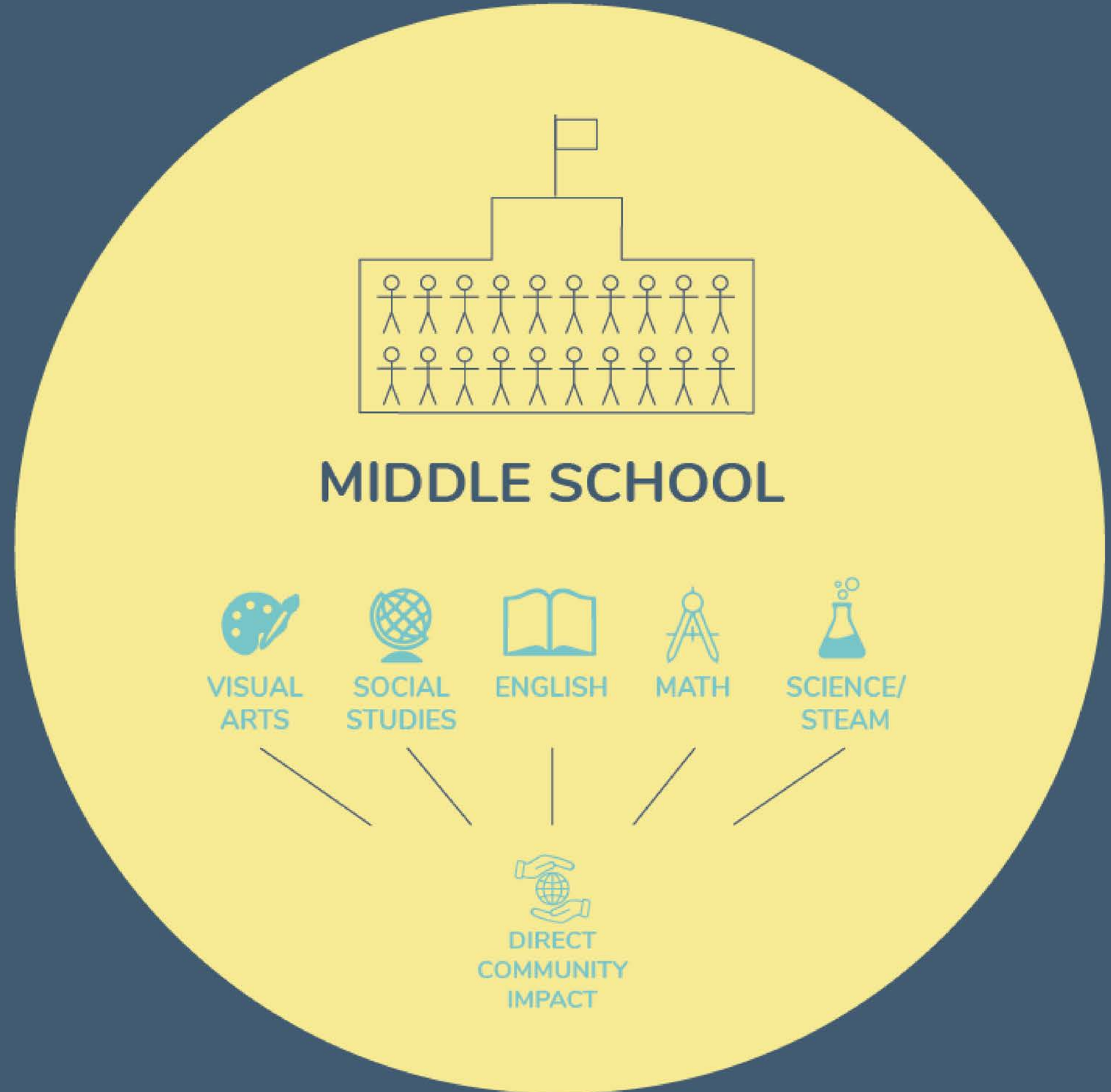
MIDDLE SCHOOL  
STEAM CURRICULUM



HIGH SCHOOL  
INTERNSHIP

# HOW IT WORKS

- 3 Week long Project-based learning curriculum in schools
- Community action component
- Early exposure to design + civically-oriented Careers







# FEATURE PROJECT: SUSTAINABLE TRANSPORTATION PAINT CHALLENGE



Science/  
STEAM



Trans-  
portation






Sustainable Transportation Middle School Project



Share



Watch on  YouTube









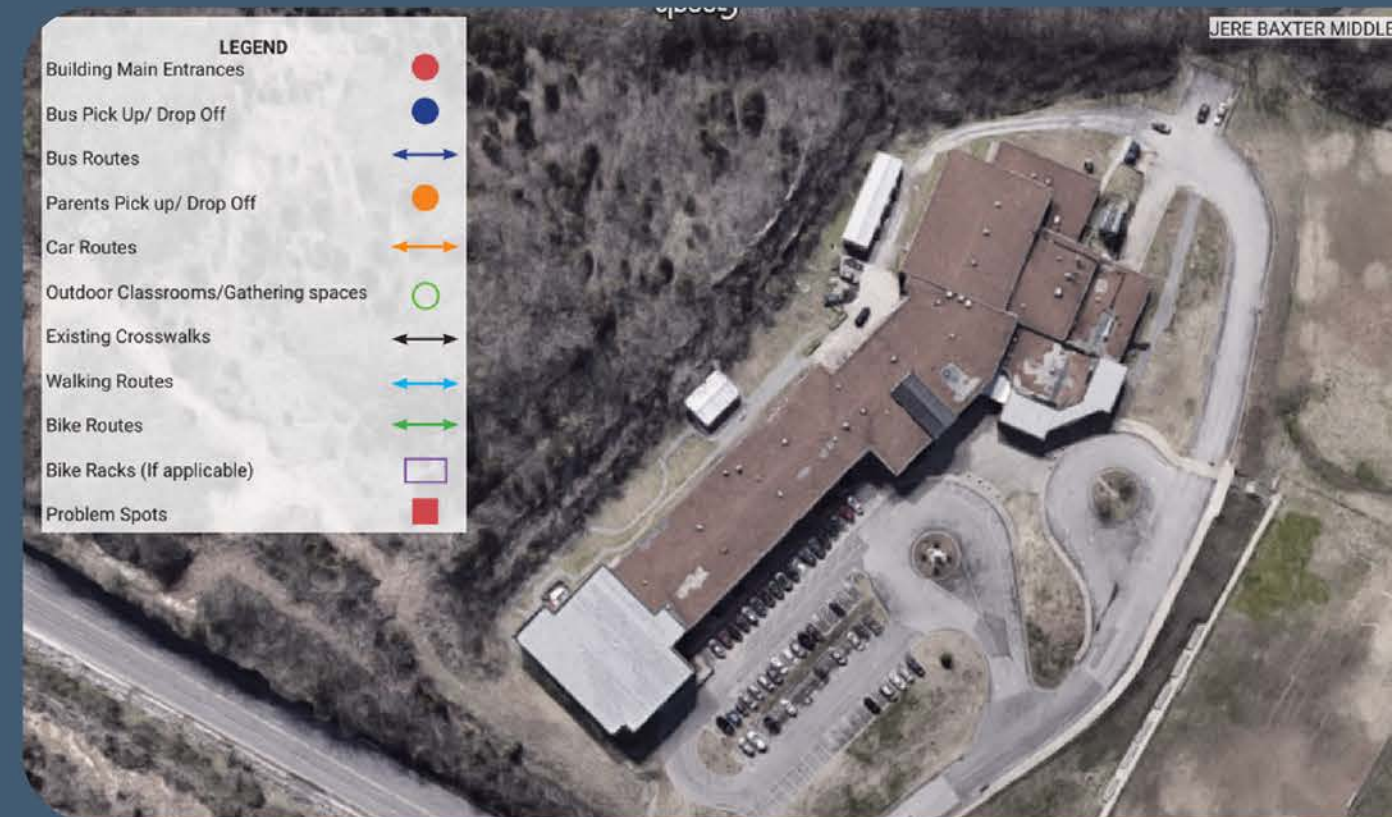


# COMMUNITY CONTRIBUTION



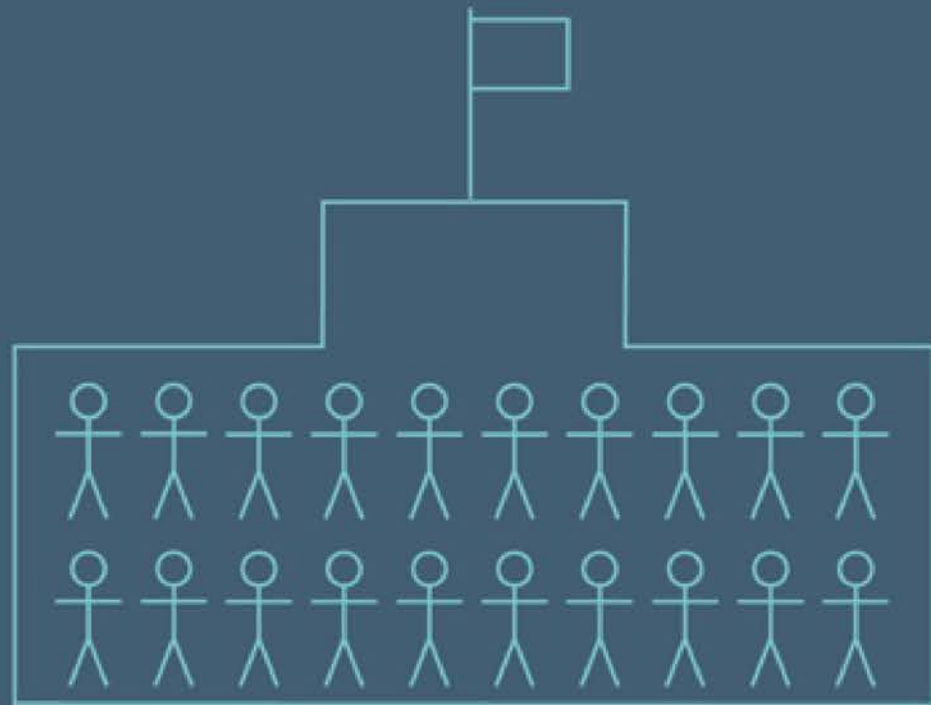
“Adults be talking about how we acting too grown for our age. And they ignoring us sometimes, or saying our phones are taking over, but when things happening that are bad we spread the word online, and we creative and we have ideas about how to make the schools better if they listen.”

LEGEND	
Building Main Entrances	●
Bus Pick Up/ Drop Off	●
Bus Routes	↔
Parents Pick up/ Drop Off	●
Car Routes	↔
Outdoor Classrooms/Gathering spaces	○
Existing Crosswalks	↔
Walking Routes	↔
Bike Routes	↔
Bike Racks (If applicable)	□
Problem Spots	■

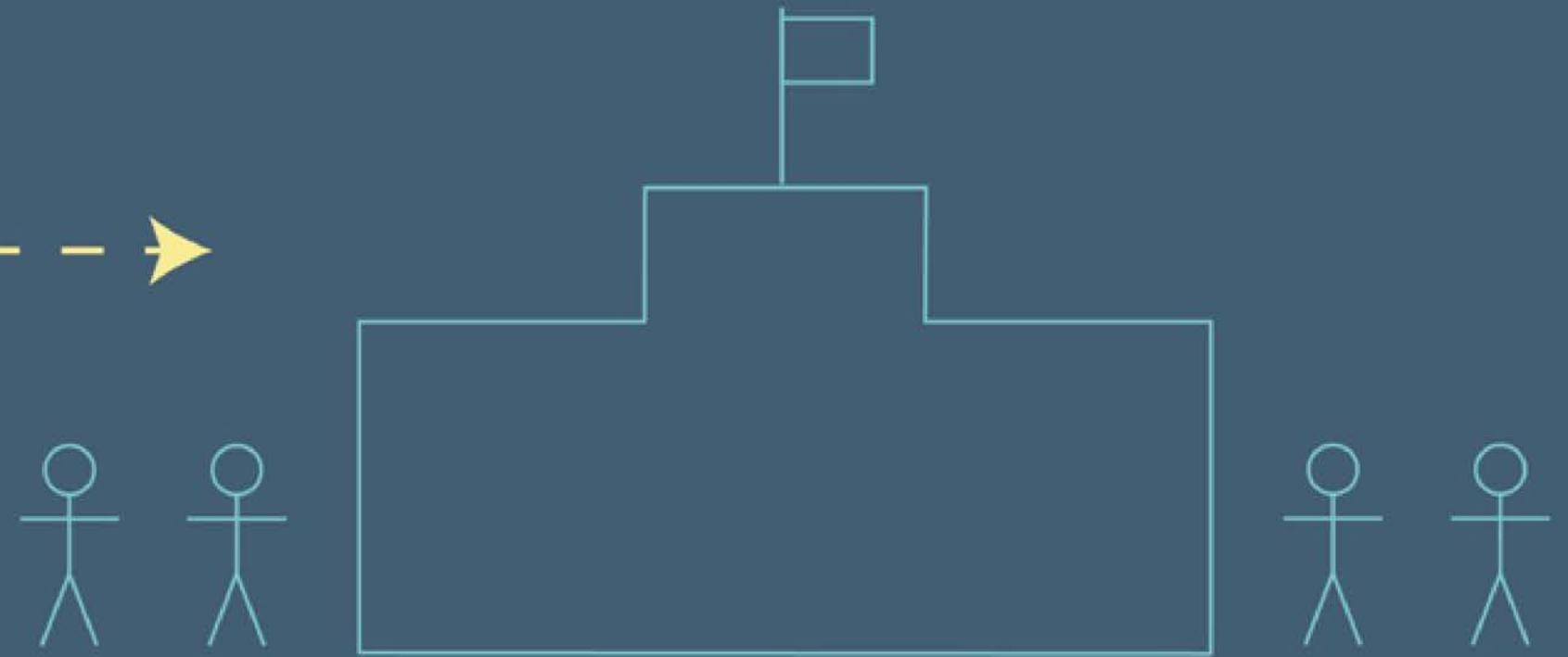




DESIGN *your*  
NEIGHBORHOOD<sup>®</sup>



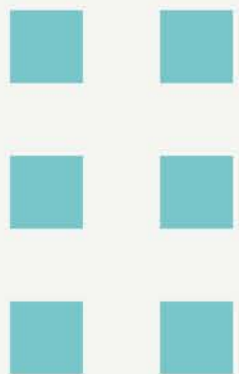
MIDDLE SCHOOL  
STEAM CURRICULUM



HIGH SCHOOL  
INTERNSHIP



The Nashville Youth Design Team is a diverse group of high school interns who work year-round to make Nashville's neighborhoods more supportive of youth wellbeing







# GOALS OF THE NYDT

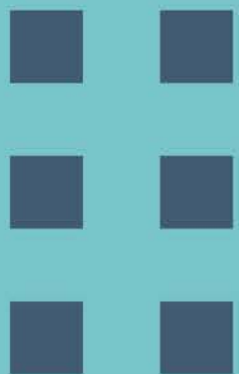


- **Understand** how local built environment factors impact youth wellness
- **Engage** in community-based research to understand the current state of the built environment
- **Implement** design interventions to address built environment challenges
- **Advocate** for long-term sustainable change





# FEATURE: DIKERSON PIKE PEDESTRIAN SAFETY



**WALK BIKE  
NASHVILLE**



Department of  
**Health**



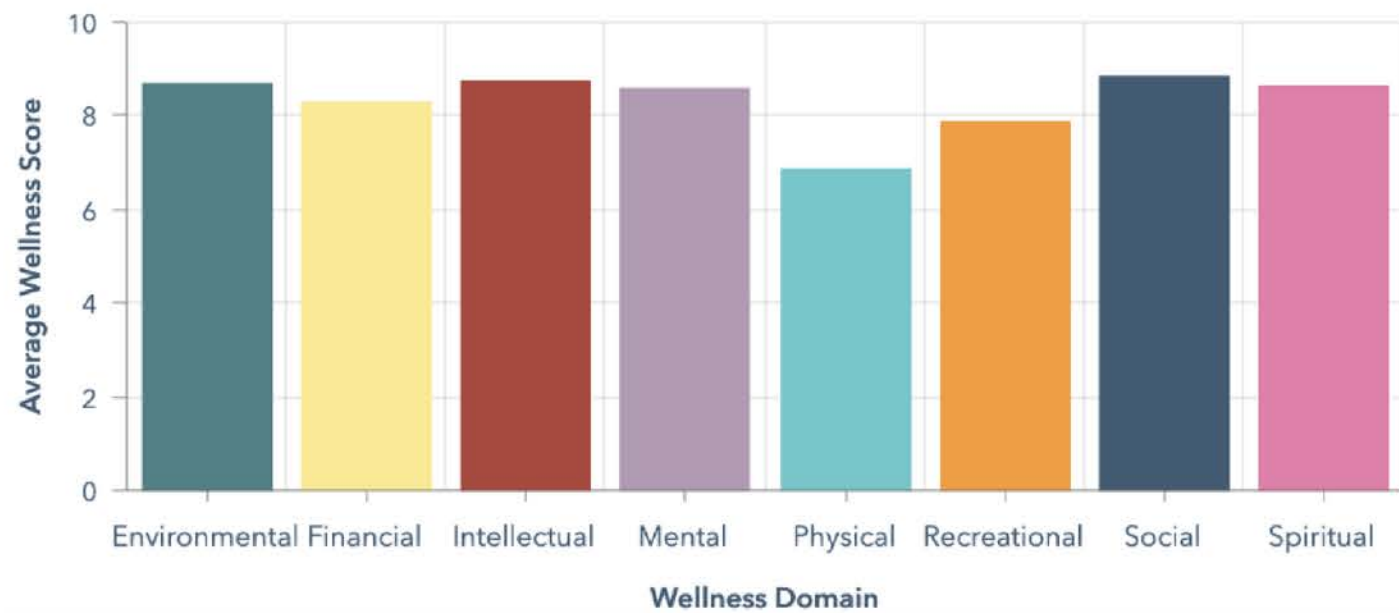
# YOUTH WELLNESS MAP

NYDT Youth Wellness in Nashville, TN

Number of Youth  
Interviewed by NYDT

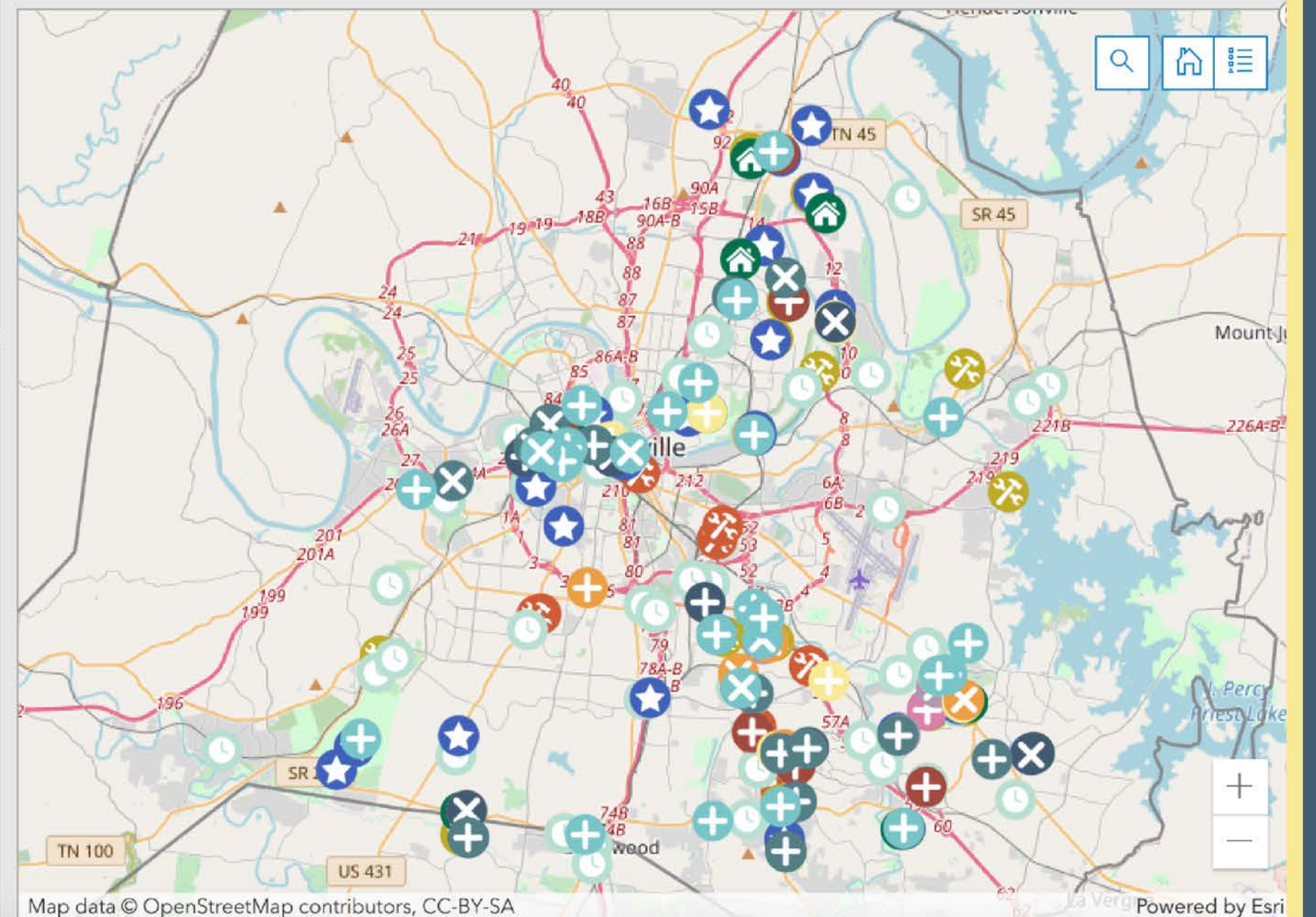
193

Average Youth Wellness Scores



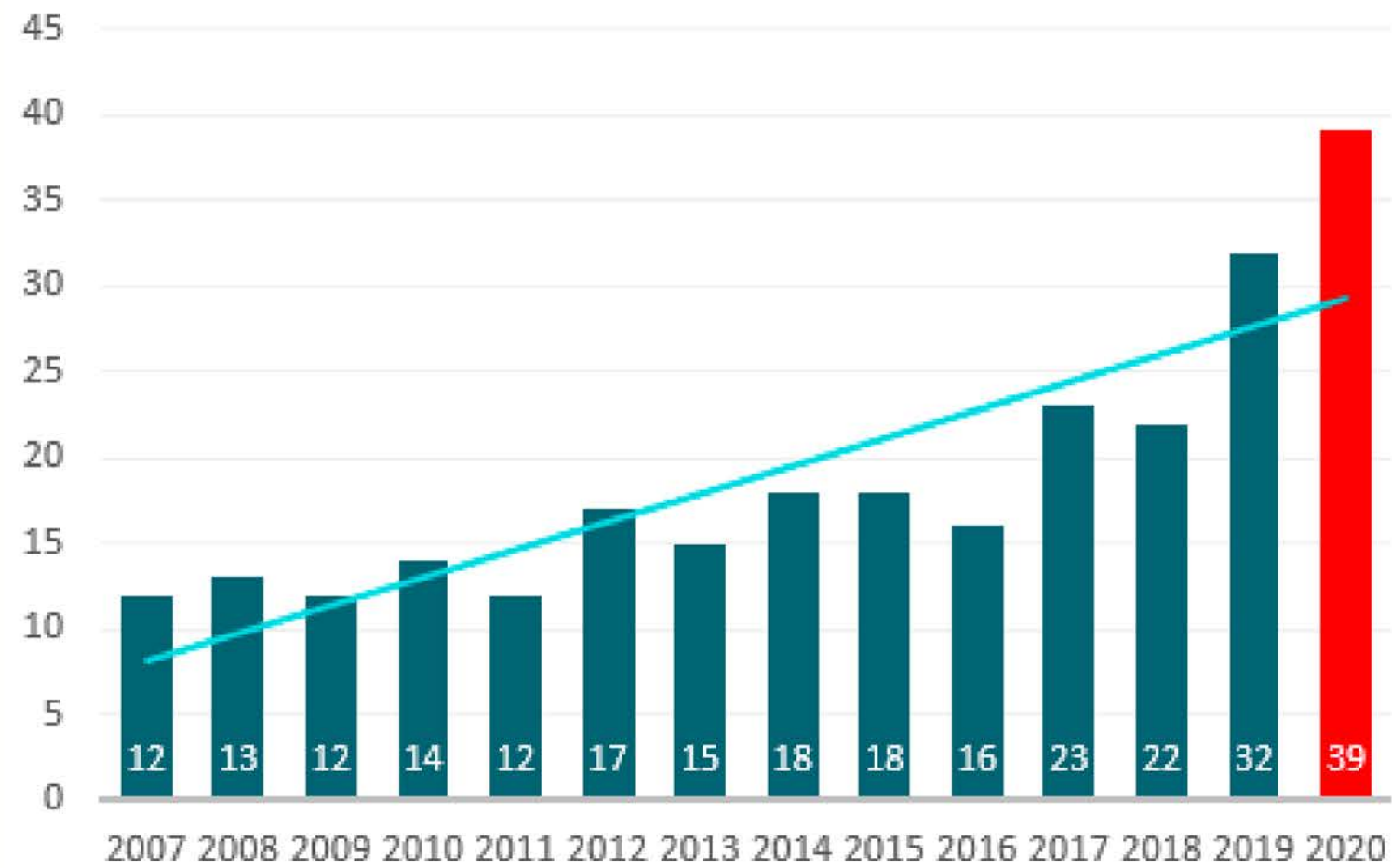
Last update: a few seconds ago

Nashville Youth Wellness Map

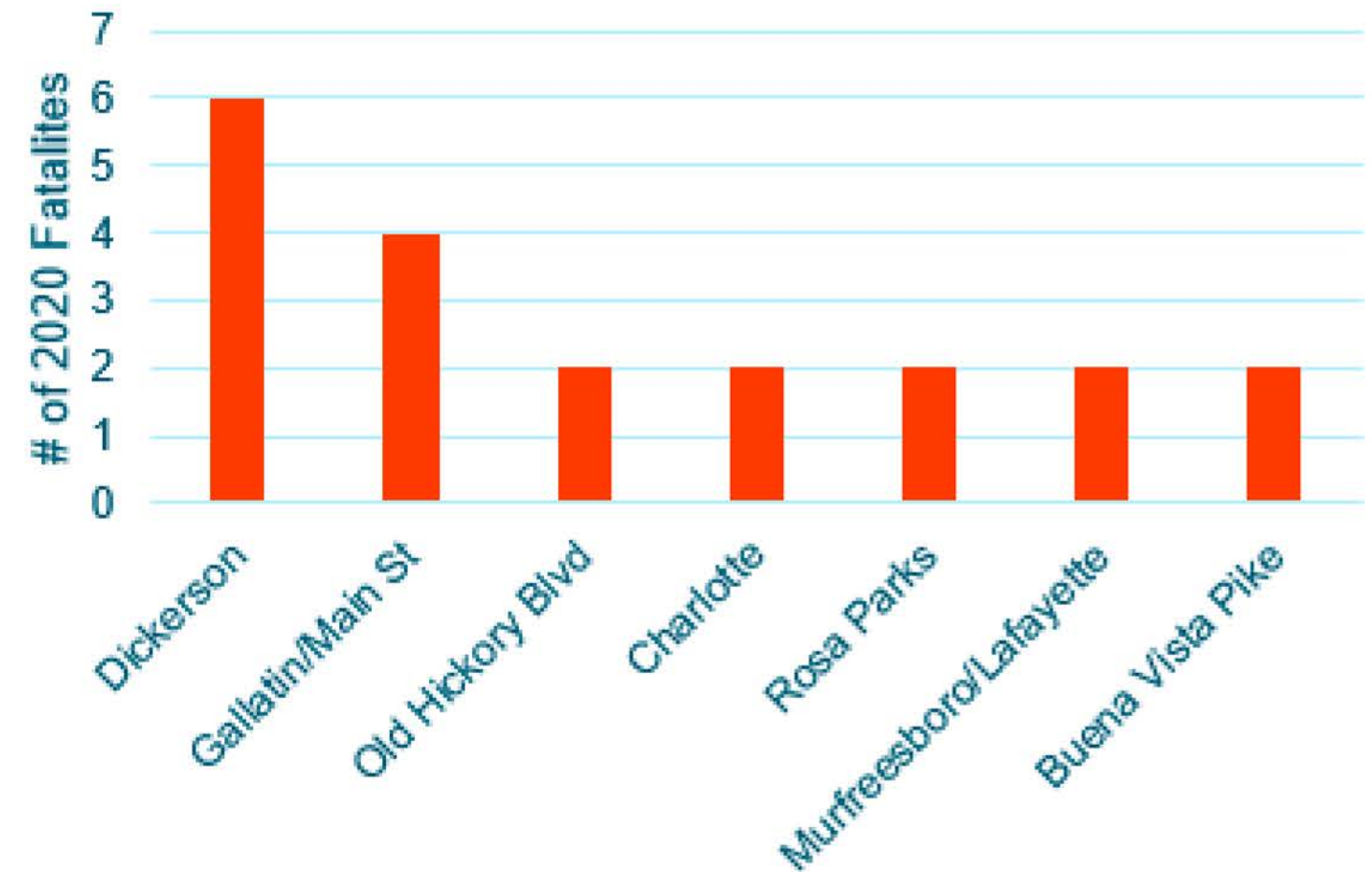




## Pedestrians Killed in Nashville

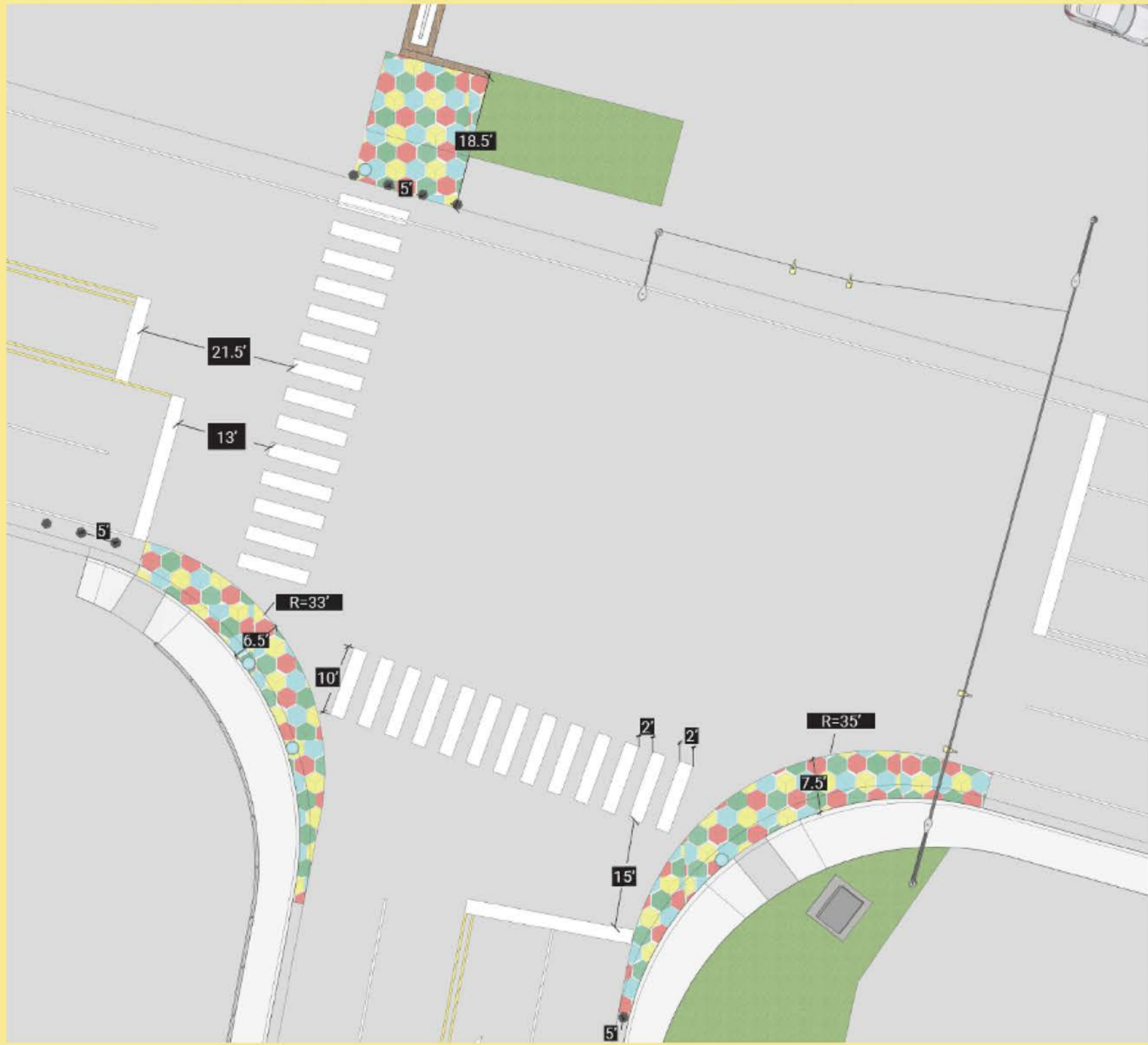


## Common High Crash Corridors



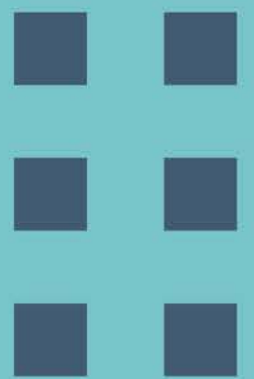


# TACTICAL URBANISM DESIGN



- \$2,000 Materials Budget
- Able to be installed by the NYDT over a weekend.
- Approved by Tennessee Department of Transportation (first time ever in TN!).
- Advocate for a long-term solution.







# COMMUNITY ADVOCACY



NEWS

**Youth design team installing glow-in-the-dark crosswalks on Dickerson Pike after multiple pedestrian fatalities**

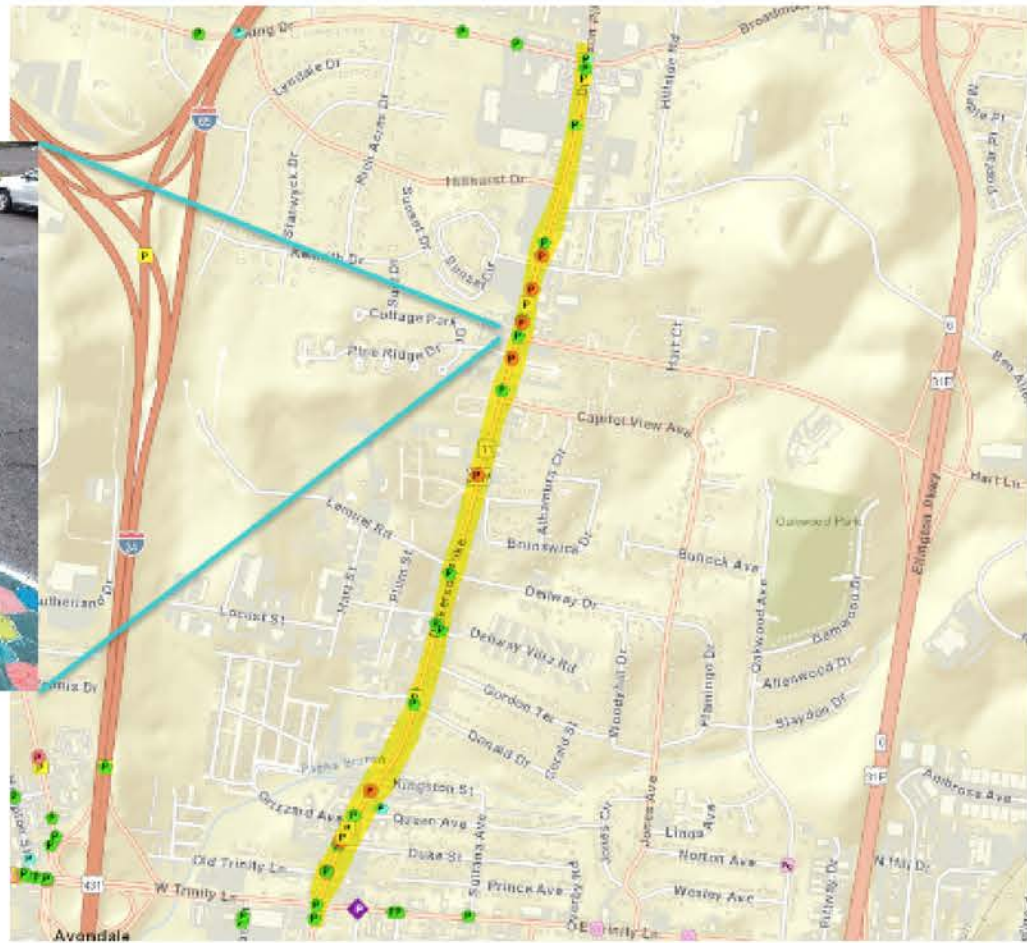




# TDOT ANNOUNCEMENT

## Complete Streets Pilot Project

### Why Dickerson Pike?



## Complete Streets Pilot Project

### Preliminary Timeline:

- Oct 2022 – Announcement / Kickoff
- Oct 2023 – Planning Complete
- 2026 – Design, ROW, Utility Coordination Complete
- 2027 – Construction Complete







# BUS SHELTER PROJECT



# THE PROBLEM

Nashville Big Picture High School students don't have a bus shelter where they wait for the bus for 15-30 minutes with limited places to sit and no shelter from weather conditions such as rain.



# ADVOCACY TO WEGO PUBLIC TRANSIT



They said yes!



# PLACEMAKING

How I can make this shelter authentic to me and my school.



# COMMUNITY ENGAGEMENT

PLACE A DOT ON WHAT YOU WOULD LIKE TO SEE  
AROUND THE BUS STOP ON CHARLOTTE PIKE.

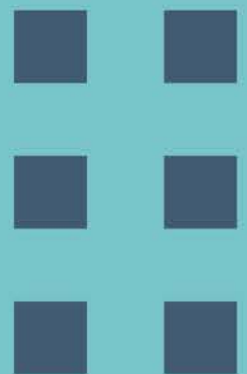


# SENIOR CAPSTONE





# CREATING OPPORTUNITIES FOR SUSTAINED ENGAGEMENT





# DIVERSE OPPORTUNITIES FOR ENGAGEMENT



Art & Design



Organizing & Activism



Research & Mapping







# RELATIONALLY FOCUSED

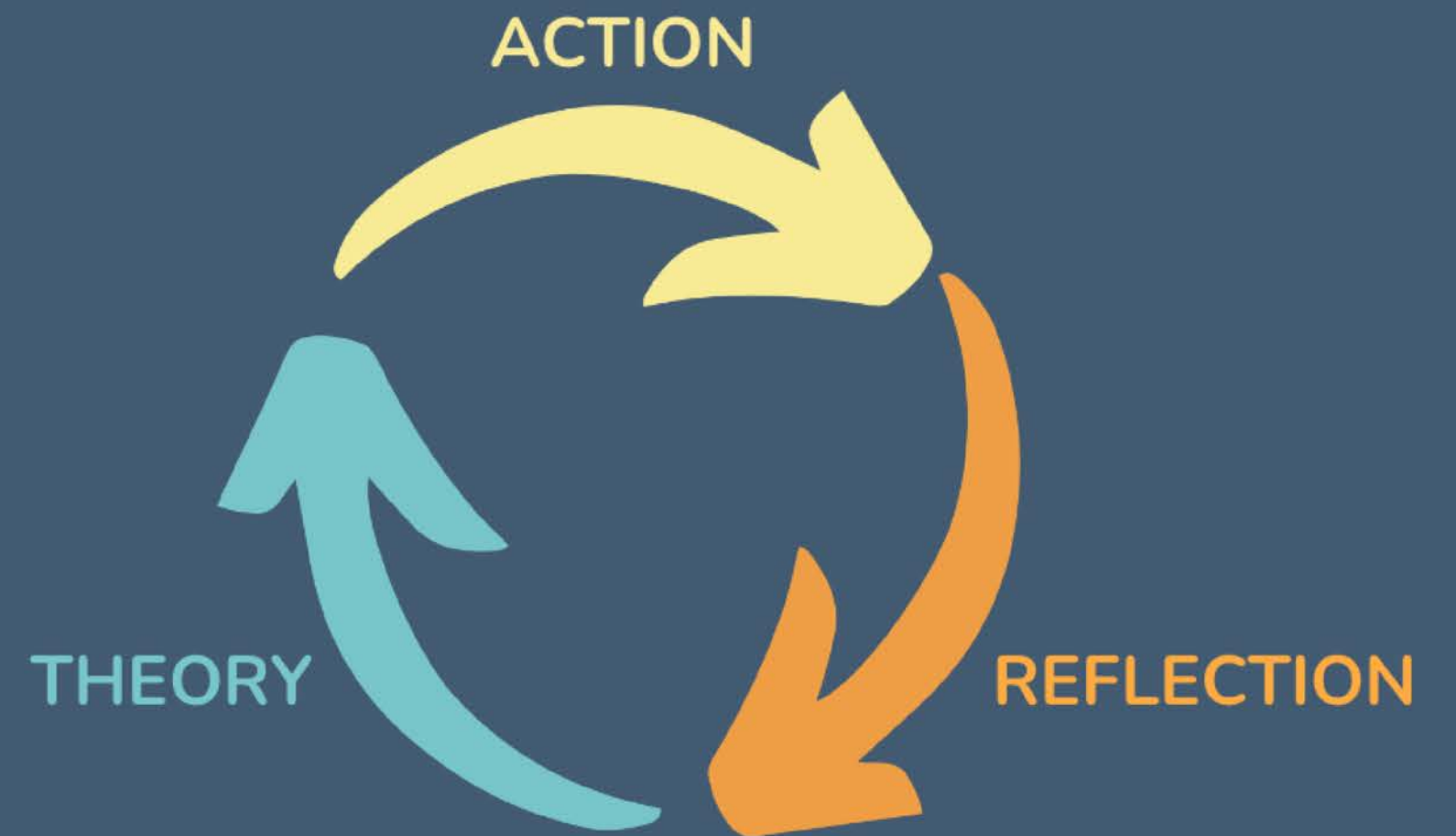
*“Because like sometimes it can, it can be boring and kind of, you know, annoying, but it's more so the people there that make it fun. So like, they kind of make my job enjoyable, which makes me want to, you know, come back.”*

*- Charlie (3rd year)*





# INTENTIONAL REFLECTION





# INCREASED OPPORTUNITIES AND RESPONSIBILITIES

Youth-Lead Decision Making

Team Leadership

Community Speaking

Attending Community-Based Meetings





# COMPENSATION

Compensation further communicates that we believe they bring important information and lived experience to their work.





**THANK YOU!**



[@nashvilleyouthdesignteam](https://www.instagram.com/nashvilleyouthdesignteam)



[nydt@civicdesigncenter.org](mailto:nydt@civicdesigncenter.org)

# ENGAGING YOUTH IN QUICK-BUILD SAFETY PROJECTS

## City and County of Honolulu

Renee Espiau, Complete Streets Administrator

August 1, 2023



**01.**

## **KALIHI: W. R. FARRINGTON HIGH SCHOOL**

**The Project was a collaboration with Farrington High School Engineering Academy, StreetPlans, City and County of Honolulu, and Hawaii State Department of Health to improve safety for vulnerable road users in the Kalihi neighborhood.**

# KALIHI: W. R. FARRINGTON HIGH SCHOOL



**Dense, mixed-use community on edge of urban core**



**Title I school: 55% of students on free/reduced-price lunch (up to 100% within complex)**



**Additional partners:**

- **Councilmember's Office**
- **Ulupono Initiative**
- **Blue Zones Project**
- **National Park Service**



**\$50K in SNAP-ED funding through Hawaii Dept of Health**



**North King Street is a Principal Urban Arterial with 20K vpd**



**10 months from start to finish**



# NEIGHBORHOOD MAPPING

Students at Farrington High  
School were asked . . .

How do you get to school?

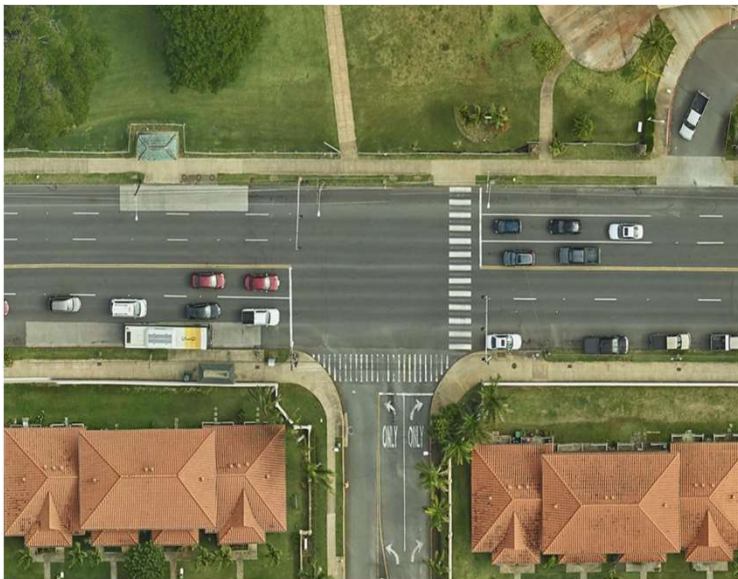
Where does it feel unsafe?

What areas could be  
improved for people  
who walk and bike?



# SITE SELECTION

Students identified and voted on potential locations for safety improvements



Arterial intersection across from high school, fronting public housing complex



Complicated intersection in a nearby mixed-use commercial district

# DESIGN WORKSHOP

Students collaborated with planners and engineers, drafting mural patterns that are context-sensitive and representative of their school and the neighborhood



# INSPIRATION & GUIDELINES



**Is the pattern context sensitive?**

**No letters, words, or symbols**



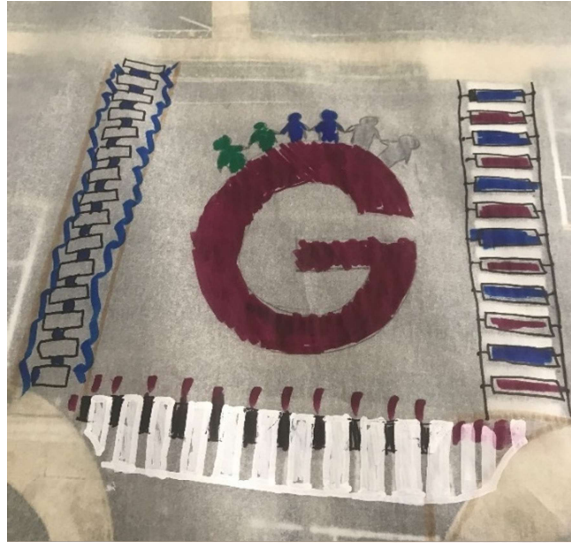
**Represent your school or the Kalihi community**

**Use earth tones**

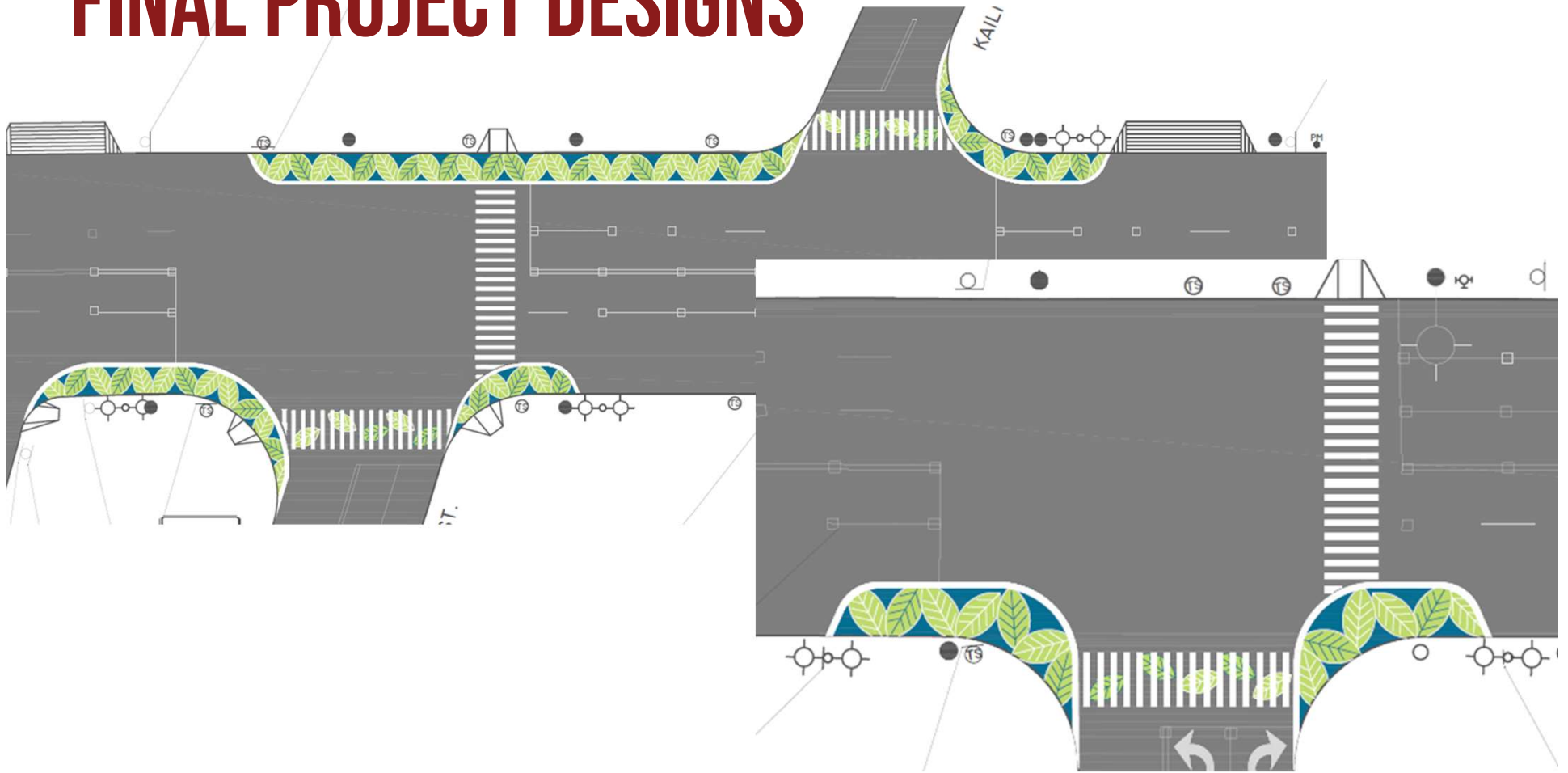


**Use a repeating/abstract pattern**

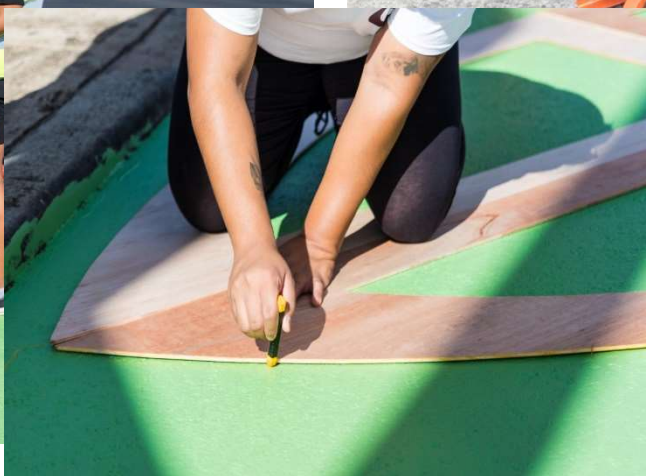
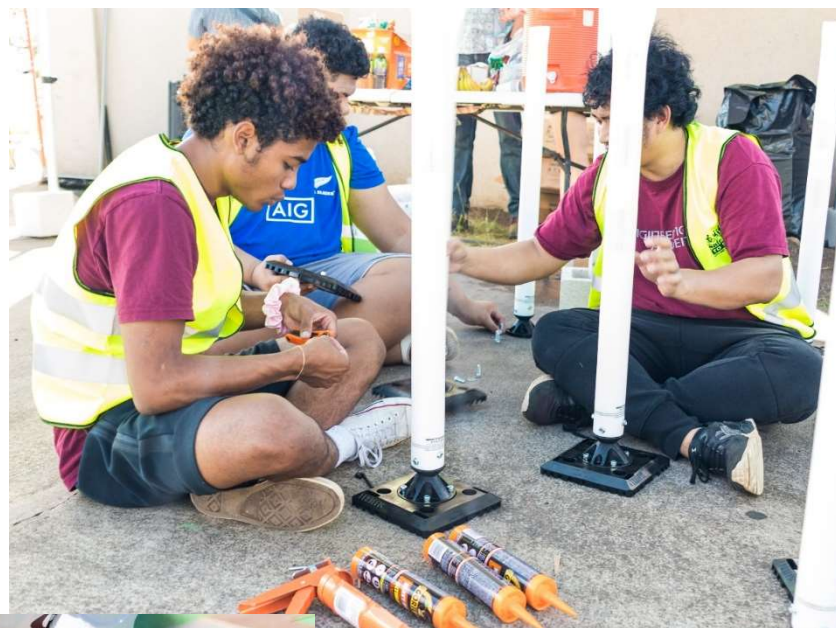
**No white or yellow**



# FINAL PROJECT DESIGNS



# INSTALLATION



Images: Courtesy of Ulupono Initiative / ulupono.com



Image: Courtesy of Ulupono Initiative / [ulupono.com](http://ulupono.com)



**02.**

## **MAKIKI: R. L. STEVENSON MIDDLE SCHOOL**

**In late 2019, the student leadership class began a partnership with Blue Zones Project to launch a Safe Routes to School program on campus. Through community partnerships, the students assembled a Safe Routes to School Plan and secured funding for a quick-build safety project fronting the school.**



# MAKIKI: R. L. STEVENSON MIDDLE SCHOOL



**Dense residential community on edge of urban core**



**Title I school: 50% of students on free/reduced-price lunch (up to 100% within complex)**



**Additional partners:**

- Ulupono Initiative
- Local & State elected officials
- Makiki Neighborhood Board
- Honolulu Safe Routes to School Program
- SMS Association of Parents & Teachers
- Honolulu Police Department
- State Department of Health
- ATA Hawaii (pro bono civil engineer)
- Luke DeKneef (artist)
- GP Roadways (striping contractor)



**\$15K: three small grants from project partners**

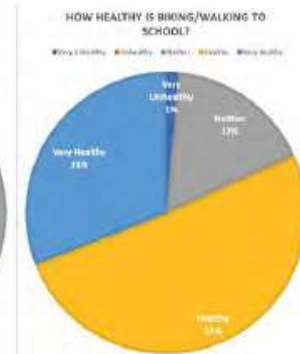
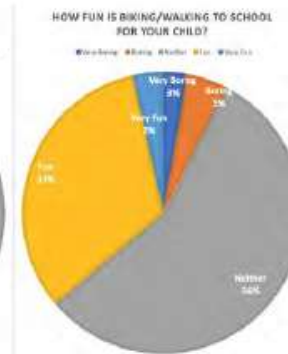
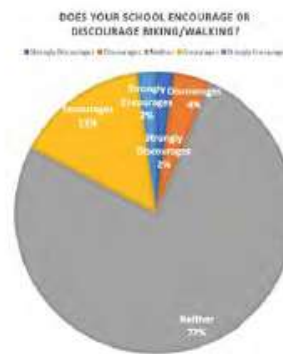
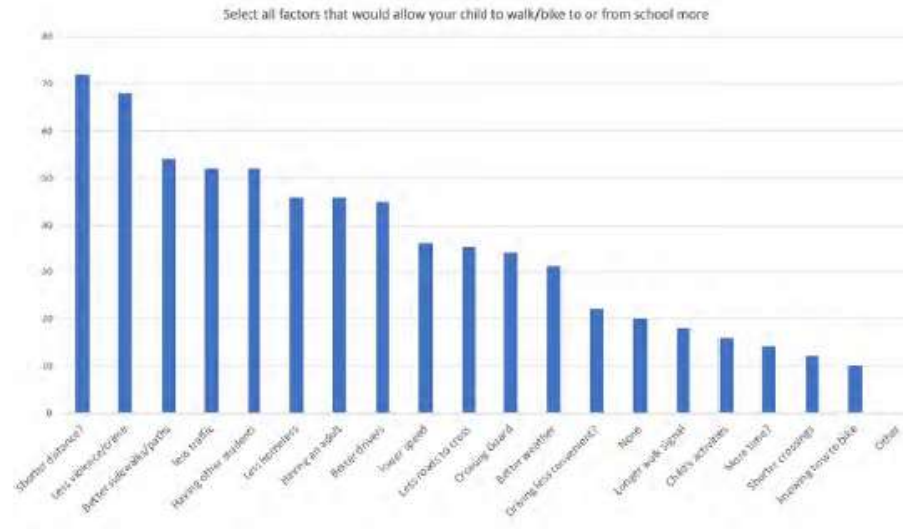


**Prospect Street is a Principal Urban Arterial with 7K vpd**

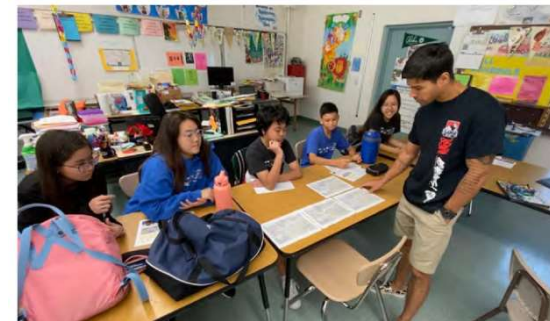


**~18 months from start to finish**

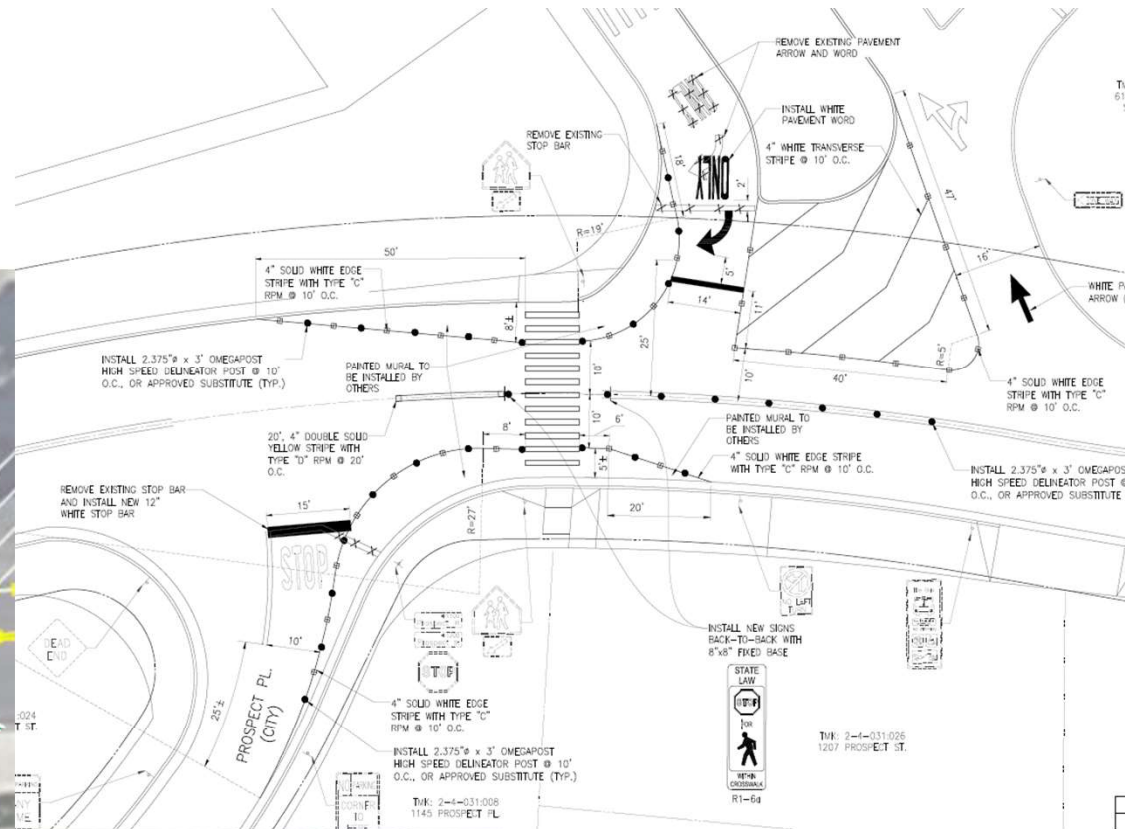
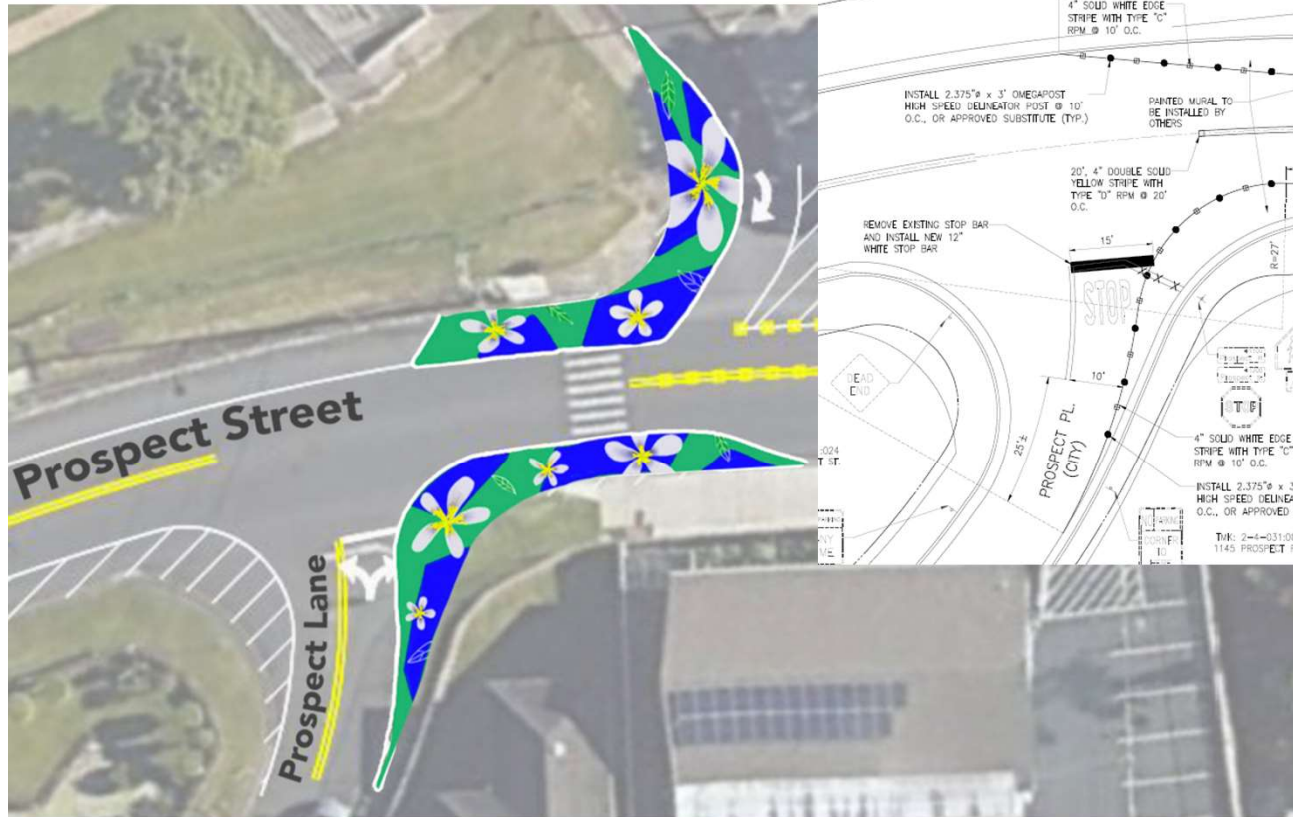
# EVALUATION OF SITE CONDITIONS



# DEVELOPING AN ACTION PLAN



# PROJECT DESIGN



# INSTALLATION



Images: Courtesy of Blue Zones Project









## RESULTS & IMPACT

<b>WALKING DISTANCES DROPPED BY</b>		<b>EXPOSED TIME TO CROSS PROSPECT STREET DROPPED BY</b>
<b>20-40%</b>		<b>55%</b>
<b>HELPED ON AVERAGE 190 PEOPLE CROSS MORE SAFELY EVERY DAY<sup>7</sup></b>		
<small>Image: Courtesy of Ulupono Initiative / ulupono.com</small>		



# LESSONS LEARNED

01.

## ENGAGE YOUTH EARLY

Involve youth in all stages of project development, including evaluation

02.

## RECLAIM EXCESS SPACE

Hatched areas and parking lanes are perfect candidates (be mindful of buses and turning vehicles)

03.

## PROTECT YOUR ART

Use vertical materials to slow traffic and extend the life of mural art

04.

## PLAN FOR MAINTENANCE

Keep volunteers engaged through regular maintenance events

05.

## MATERIALS MATTER

Find the sweet spot between durability and ease of installation

06.

## MAKE IT PERMANENT

Program funds to upgrade the installation with higher-quality materials



February 2023

# Kāpala Toolbox

Design, process, and materials guidance for the delivery of community-led roadway art projects on City & County of Honolulu streets.

**kāpala / kā.pala /**

To paint or print a design; to smear, stamp, smudge, blot, dab, stain, spot



## Kāpala Toolbox

Checklist



### PLANNING

- Initiate project discussions with the Department of Transportation Services (DTS)
- Create initial artwork layout and design
- Take site photos before installation and collect pre-installation data
- Develop project materials plan
- Organize a project team
- Develop project budget

### OUTREACH

- Present to neighborhood board(s)
- Present to other local stakeholders
- Notify local businesses
- Signup Volunteers

### APPLICATION PROCESS

- Receive approval on final design from DTS
- Submit application to the Mayor's Office of Culture and Arts (MOCA)
- If required, apply for a Street Usage Permit and submit a Traffic Control Plan
- Present to MOCA's Commission on Culture and Arts and receive artwork approval from MOCA

### INSTALLATION

- Finalize installation and rain dates
- Prepare volunteer sign-in sheet and waivers
- Schedule materials delivery and secure delivery location
- Site cleaning and preparation
- Create an installation day schedule, and identify parking and restroom locations
- On installation day bring a tent, table, chairs, water, cups, safety vests, trash bags, etc.

### POST-INSTALLATION

- Take post-installation photos
- Maintain project site
- Collect post-installation data
- Celebrate your project's completion!
- Determine maintenance agreement with the Mālama O Ka 'Āina (MOKA) program if required





**ASK | LEARN | SHARE | CONNECT**

[www.honolulu.gov/completestreets](http://www.honolulu.gov/completestreets)

[www.instagram.com/hnl.completestreets](https://www.instagram.com/hnl.completestreets)

- View Community Resources
- Sign up for our mailing list
- Learn about Complete Streets projects
- Provide feedback and get involved!



# Discussion

⇒ **Send us your questions**

⇒ **Follow up with us:**

⇒ **General Inquiries [pbic@pedbikeinfo.org](mailto:pbic@pedbikeinfo.org)**

⇒ **Archive at [www.pedbikeinfo.org/webinars](http://www.pedbikeinfo.org/webinars)**