

In the spring of 2022, CUP collaborated with 9th and 10th grade students at Harvest Collegiate High School to take a closer look at the relationship between street design and the environment. To investigate the issue, students talked to community members in Manhattan and interviewed stakeholders working on the issue.

The team gathered what they learned and created this booklet to teach others about how the design of our streets impacts our environment, how this connects to the climate crisis, and what changes we need from our streets and city to help us navigate climate change.



A street is the basic unit of urban space through which people experience a city. Streets are multidimensional spaces made up of many surfaces and structures. They create space for movement and access and can be used in many ways for different activities.



Did you know?

The Commissioners' Plan of 1811 was the original design for the streets of Manhattan above Houston Street and below 155th Street, which put in place the rectangular grid plan of streets and lots that has defined Manhattan until today.



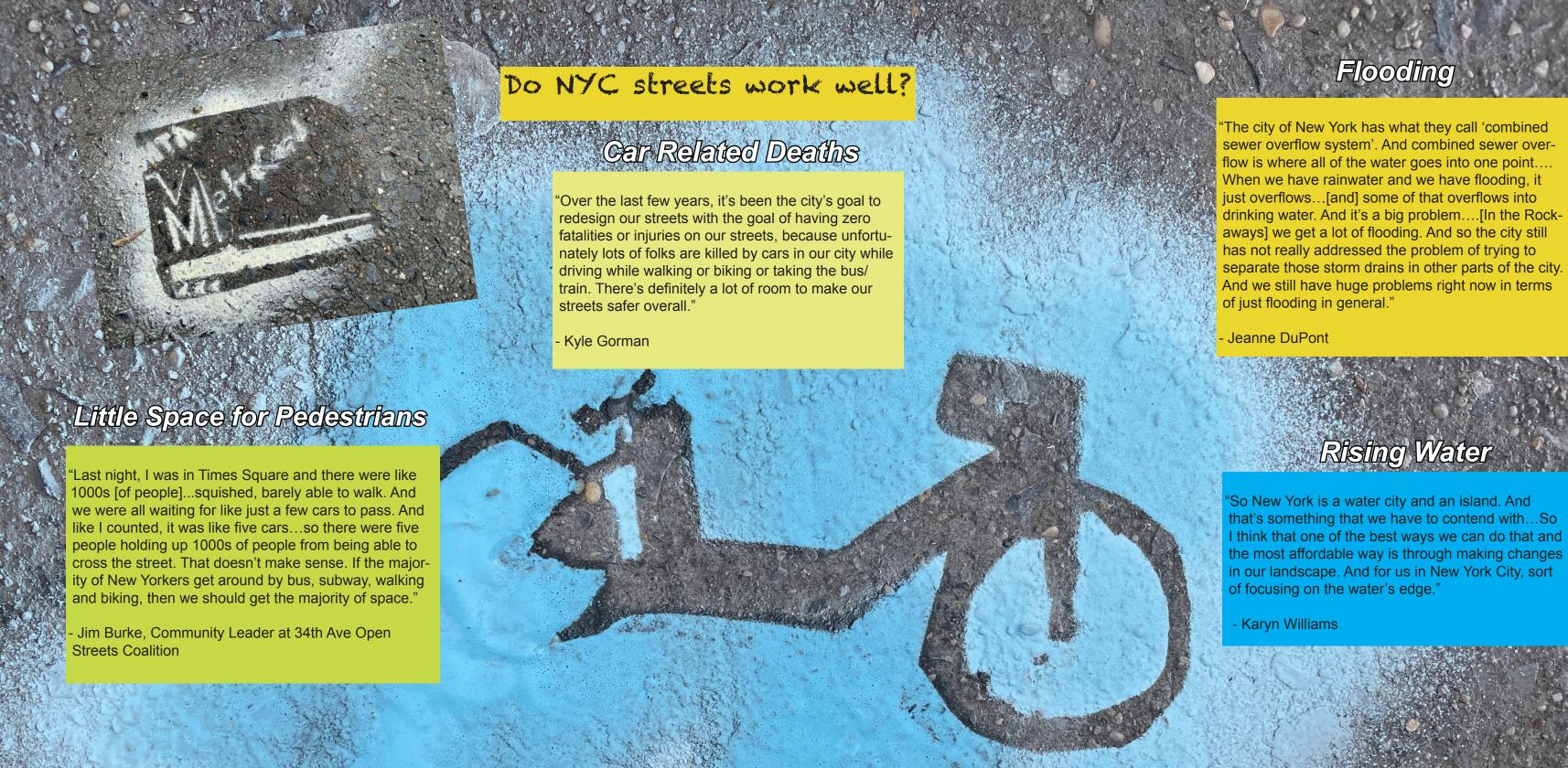


"The Department of Transportation [handles] all construction of streets and roads. And we're a really big city so there isn't necessarily a master plan...[then] depending on how big the [construction] project is they'll either do it with the engineers who work for the DOT, or if it's a really big project it's something that will be contracted out to a larger firm...And there's a design phase...these processes can take I'd say sometimes multiple years, like three to five years, depending on this."

- Karyn Williams, Director of Programs at Design
Trust for Public Space

"Unfortunately, there is no connection between [these agencies] and the communities that they serve, meaning that they're not going to prioritize communities that are in need versus those that are not. And as with anything, the one that screams the loudest is gonna get [heard]..."

 Jeanne DuPont, Founder and Executive Director at Rockaway Initiative for Sustainability and Equity (RISE)







Park Space

"To me the parks in New York City are part of our own backyards, right? Most of you live in an apartment building. You know, 90% of your time you're spending indoors, but when you want to go outdoors those parks are our backyards... I would make all of those vacant lots [in different neighborhoods] parkland, and I would expand on the park space because I think there can be no shortage of park space or parkland." - Jeanne DuPont



"A lot of pavement creates, you know, hotter cities. But if we think about adding trees, or if we think about sewage, there are ways that we can incorporate that climate change and mitigate some of the negative effects like the [urban] heat island effect..." - Karyn Williams

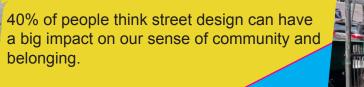


What does the community think?

In the spring of 2022, Harvest Collegiate students went out into the community and surveyed their neighbors about street design and the environment.

> 38% of people agree that the design of our streets has a really big impact on global warming.

33 people said they would like to see less cars in our streets.







"Yes definitely, street design impacts the environment because certain materials that are used can impact [us] in either a good or bad way..."

-Kelvin Jimenez, 11th grade

"I think street design does impact our environment in both social and global warming aspects, [for example] if there are more trash cans people will be less inclined to litter..."

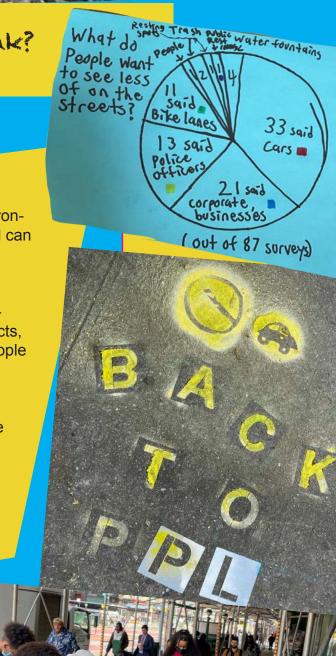
Yoav Brosh, 11th grade

"Yes, [because] increased traffic increases the emission of fossil fuels."

- Eliza Occhiogrosso, 11th grade

"[Street design] helps create a better community."

Lauren Viciedo, 11th grade



33 said

Cars

2 1 said corporate, businesses

How could things be different?

Quality Public Space

"I think we have pretty good access to public space but the quality of those public spaces vary from neighborhood to neighborhood... There are certain spaces where depending on who you are you're made to feel unwelcome. And so that is one thing that I would love to change about public spaces in New York City, is that we value and treat public spaces the same.."

-Karyn Williams

Bioswales and Permeable Pavement

"Incorporating more greenery into our streetscape like bioswales, permeable pavement. So like runoff from like on a day like today when it's raining, and you notice how there's so much ponding and just puddles...but if we had permeable pavement it would help with runoff issues." - Kyle Gorman

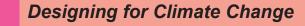
Equitable Infrastructure

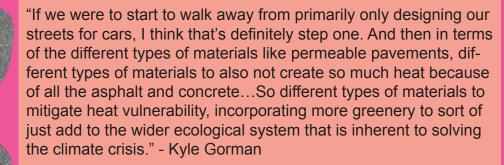
"We need a sort of wider systemic universal adaptation of this infrastructure across the city. Because, you know, we're thinking about places like Manhattan, like lower Manhattan, especially, which is especially prone to flooding, but we're not necessarily always thinking of other parts of the city that aren't well known or well resourced..."

- Kyle Gorman

Investing in Underserved Communities

"[In the Rockaways] we have regular flooding on a regular everyday basis, not just when there are storms like Storm Sandy, but every single day. And so people who live there have faced drownings from living in basements that have flooded, flooding of their cars on a regular everyday basis....So it's not just climate change. It's just on a day to day basis, the landscape and the coastal area of the Rockaways affects the people who live there in a huge way. And the people that it affects the most are those from the low income and BIPOC community." - Jeanne DuPont





There are 300 Open Streets in NYC!

What is Open Streets?

"So, Open Streets when it first launched was definitely a pandemic response tool to sort of facilitate more space for social distancing when lots of other recreational spaces were closed.

And as the pandemic has gone on its' added different layers, with supporting restaurants and bars, having them the ability to expand into the street when it's closed...

So it definitely first launched as a recovery tool...But the Open Streets program now is definitely sort of in line with the goals that we already sort of had about adding more infrastructure for bikes, pedestrians, transit users, while promoting accessibility for folks who rely on wheelchairs and things like that...

So Open Streets is sort of just a part of the wider sort of picture that DOT is trying to paint for our streets, and is now a permanent program, because the legislation that was passed in 2021. So it's now sort of taking all the success of the pandemic and evolving towards permanently changing our streets forever."

- Kyle Gorman



Harvest Collegiate Students: Mujeebah Ajanaku Karen Armas Moina Ginayah Baptiz Nyzell Boone Jeray Boynton Barreto James Braden Brandon Bratini Diego Bravo Torres Yoav Brosh Jada Browne Ethan Cameron Jackeline Campos Araceli Cando Steven Chiles Kerly Cifuentes Anathaiis Cisneros Roger Coleman Starlin Corporan Elizabeth Corre Tyler Delaney Tigist Demssie Shaikym Dillard Elijah Faulkner Liana Fitzgerald Brittany Flores Amanda Garcia Darcy Garde Noah Gharib Indigo Glover Alexis Gonzalez Sarai Gonzalez Ki Gordon Brandon Graham Andrea Green Kimberly Guallpa Mendez Havana Hadley Alice Harrison Erin Hernandez Sabrina Herrera Brianna Holmes Ulises Isidoro Shayleen Jaramillo Elaine Jiang Eric Jiang Kelvin Jimenez Santos Elena Kimberling

Christian Lebron

Kevin Leon Justin Liao Donald Mac Pherson li Dairo Maza Samantha Medina Fiona Neco Bridgette Ng Allen Nieves Elixandra Ocasio Eliza Occhiogrosso Judeliz Ovalles Jocelyn Peral Robles Nayack Perez Breudy Polanco Shelsey Ramirez Charilin Ravelo Perez Jayden Roberts Marian Rodriguez Angie Rodriguez Akylys Rodriguez Cristal Rodriguez Brittney Rosado Xavier Rosado Marianyeli Rubio Arieta Salovic Jacqueline Santos Winslow Shone Brandon Silva Ruth Struening Hector Taveras Gelson Trinidad Christian Unthank Darlenny Valet Jolie Vallon Bianka Vazquez Lauren Viciedo John Paul Villacis Mylon Villavizar Apolonio Villegas Tandin Wangckuk Dylan Wesley Jasere Wright Peter Wu

CUP

Teaching Artist: N.M.

Project Lead: Fielding Hong and Ro Garrido

Harvest Collegiate High School:

Classroom Teacher: Samantha Adams Classroom Co-Teacher: Heather Lochridge

Paraprofessional: Massiel Perez

Principal: Catherine Burch & Dr. Mike Dunson Assistant Principal: Audrey Federman

Thank you to our interviewees: Jeanne DuPont, Kyle Gorman, Karyn Williams



The Center for Urban Pedagogy (CUP) is a nonprofit organization that uses the power of design and art to increase meaningful civic engagement, in partnership with members from historically marginalized communities.

This project is part of a City Studies, CUP's project-based, in-class and afterschool programs that use design and art as tools to research the city. To learn more, visit welcometoCUP.org.

Harvest Collegiate High School is a small, progressive public school, with a community of learners grounded in habits of mind and heart. To learn more, visit https://harvestcollegiate.org/.

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