Richard Rivera
Grad Student

Building, Troubleshooting and Installing Weather Stations in the 5 Boroughs

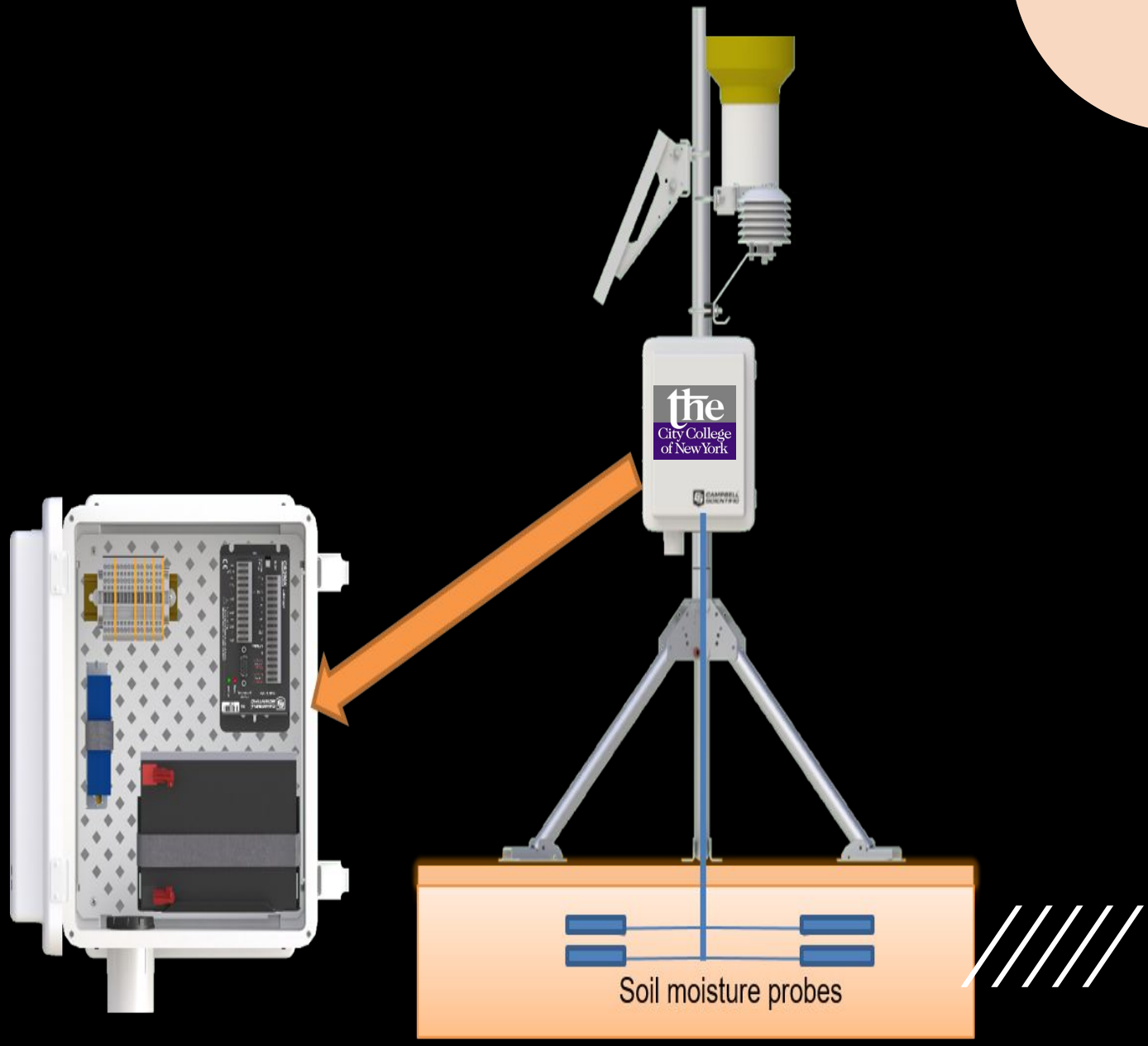
Dr. Reza Khanbilvardi
Supervisor/PI

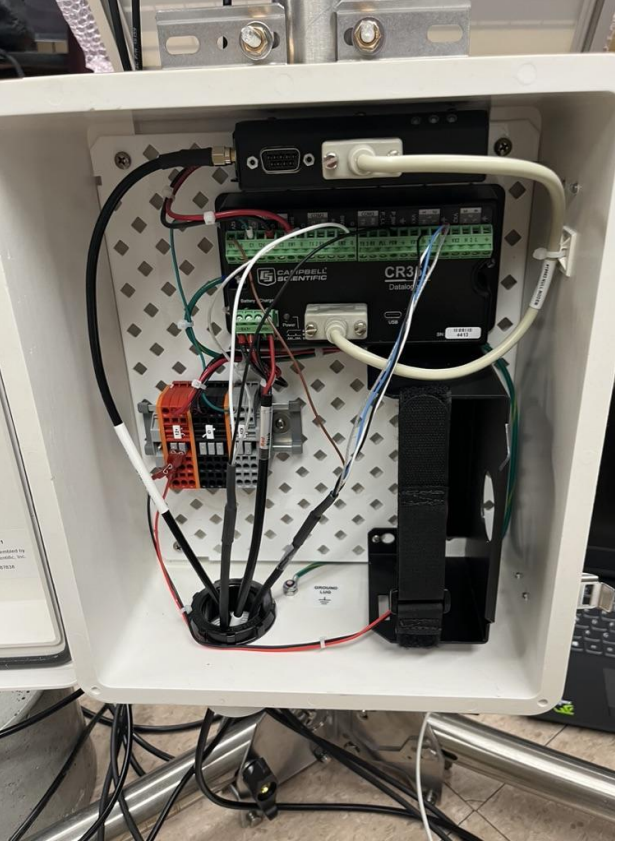
Dr. Tarendra Lakhankar
Mentor

NOAA-CESSRST
CENTER FOR EARTH SYSTEM SCIENCES AND REMOTE SENSING TECHNOLOGIES

CUNY GRADUATE CENTER

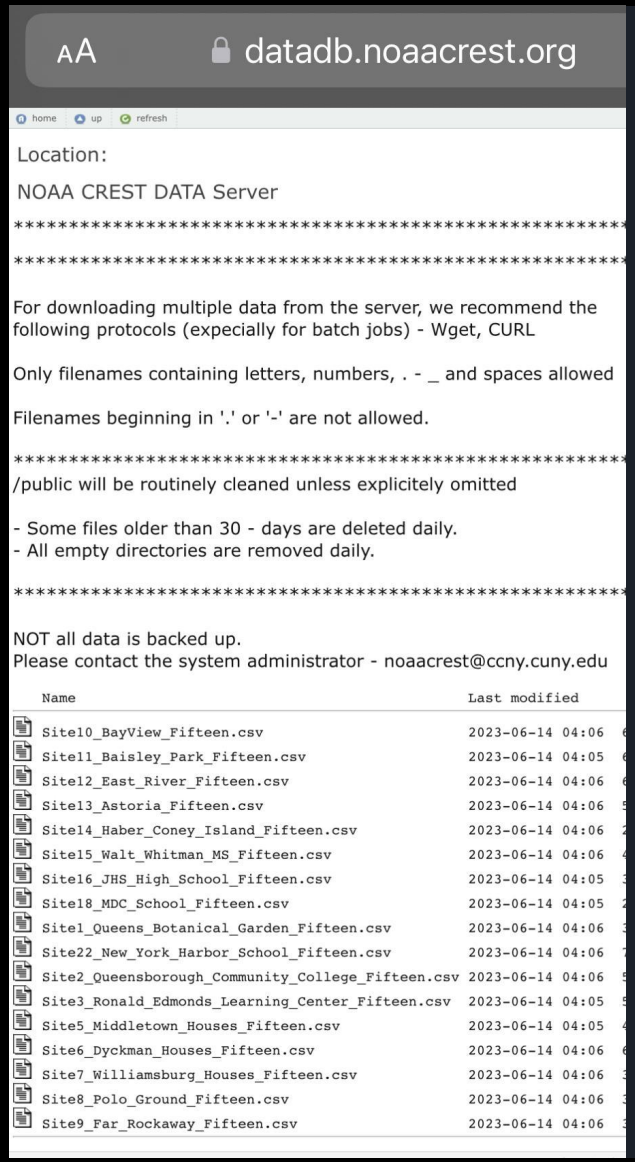
Building, Troubleshooting and Installing Weather Stations in the 5 boroughs



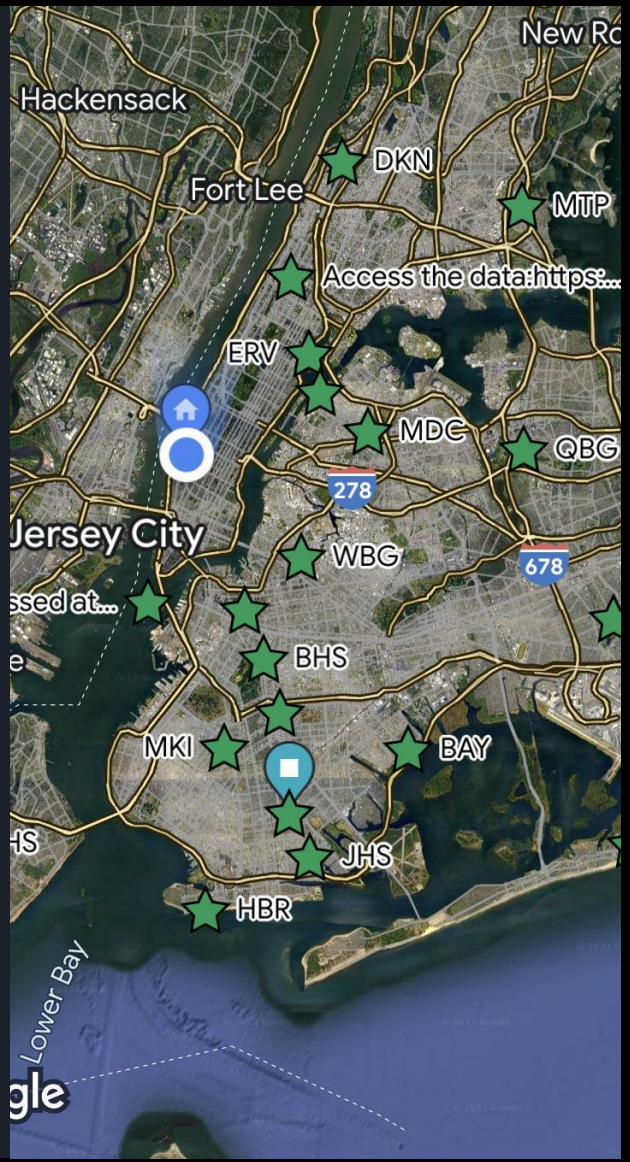


We will build and install a station on CCNY Campus

- Observe scientific data trends, patterns and relationships.
- How can we use this data to predict the future? (Perhaps 1950-2050?)
- What can we do in advance to prepare for a future of potential flooding (BTW Manhattan is sinking 1-2 mm per year).



Data and Locations of Current Weather Stations in the 5 Boroughs. (*We adding 2 more*).



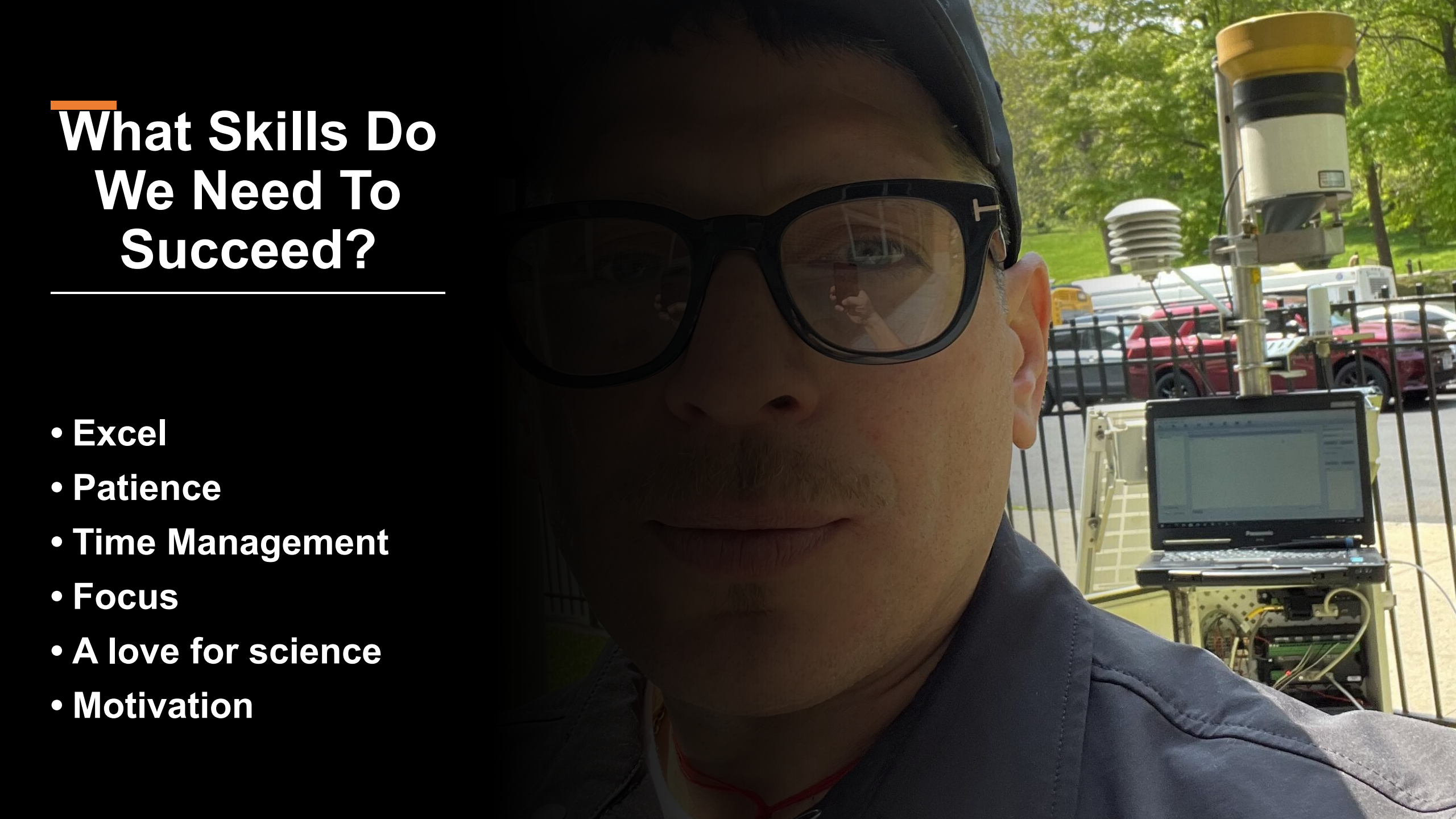
Research Question(s)

- What areas will be most impacted by coastal flooding?
- What can we learn about microclimates?
- How can we engage to the public about climate change in our city?

We can discuss and figure out what question to focus on.

What Skills Do We Need To Succeed?

- Excel
- Patience
- Time Management
- Focus
- A love for science
- Motivation



Socioeconomic Disparities

- Can we develop a plan for those impacted by flooding?
- Do you know that 56% of non-white people live directly or adjacent to a floodplain (flat area next to river)?
- >50% of low-income people live in these floodplains.
- Currently, over 1 million NYC residents live in a floodplain.
- How can we educate/alert fellow New Yorkers who live in these areas?

Source
https://rebuildbydesign.org/who-lives-in-nycs-floodplain/

AP Photo/Richard Drew, File

Creator: PaulleeWR via Twitter