



April 19, 2023 | 2:00-3:00 pm ET

USING TECHNOLOGY TO MEASURE PARK USE

MODERATOR



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ACCREDITATION AVAILABLE FOR:



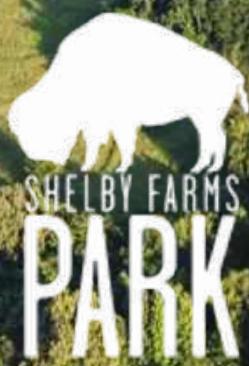
Landscape Architecture
Continuing Education System™

NEW!
General CEUs



ONE OF AMERICA'S
GREAT URBAN PARKS





4,500 acres of green space in Memphis, TN

SHELBY FARMS PARK | visitors



Eco-Counters

BENEFITS

Valuable for estimating visitor counts and usage

CHALLENGES

Only counts cars, bicycles, or people that pass them

Visitors could be counted multiple times

Doesn't capture demographics, geography or other descriptors

Technology Goals

VISITOR USAGE

More accurate counts of who, when, where and where from

BEHAVIORS + NEEDS

Demographics, socioeconomic and personas

Perceptions and levels of knowledge about the Park

Who isn't coming to the Park and why? What are their barriers?

Values-Driven Technology

TIED TO OUR CORE VALUES

Visitors are the heart of our work

Collaborate with community

Honor all voices

Feedback is a gift



With and For the Public

Ambitious public outreach and input efforts

Wide cross-section of Memphis and Shelby County residents

Both visitors and non-visitors

Ensure that Park growth
and enhancements align with
community needs and wishes



Values-Driven Technology

VALUES & MISSION MATTER

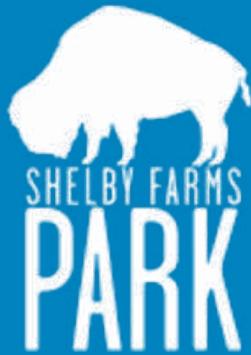
How will better understanding our visitors:

*Create better park experiences
for them?*

*Help connect them to the
nature in our care?*

*Build visitors up into supporters,
volunteers and advocates?*





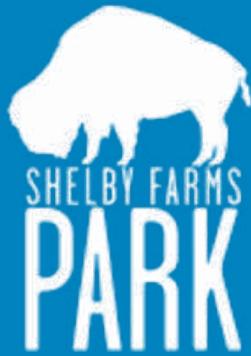
Technology Partnership

Collaborate with our local convention and visitors bureau, Memphis Tourism

Geofences around Memphis-area sites – including Shelby Farms Park

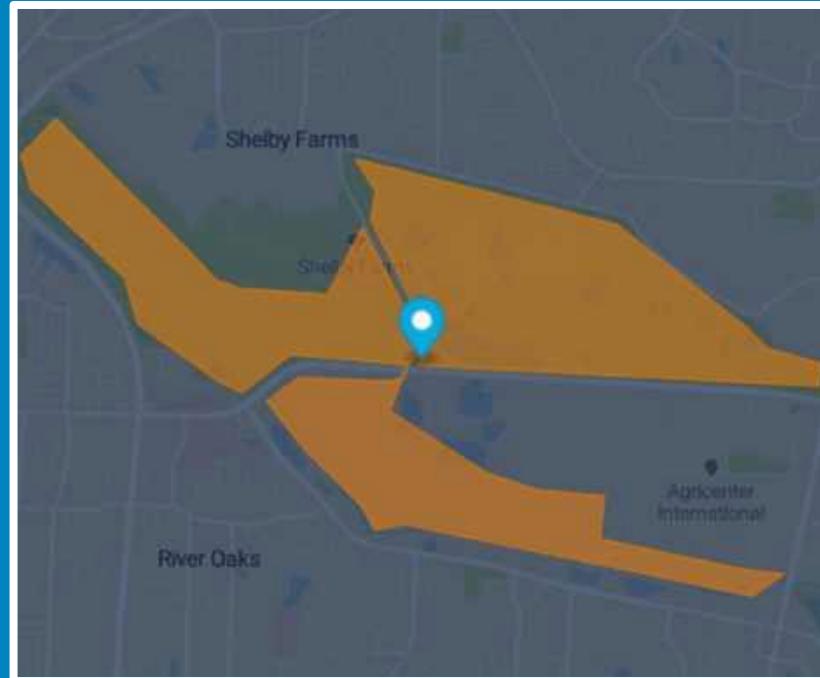
Anonymous cell phone location data for more accurate visitor counts

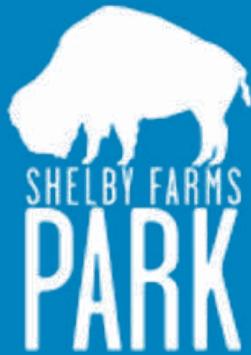
Upscaled with Census Bureau data



What is a Geofence?

Virtual geographic boundary, defined by GPS





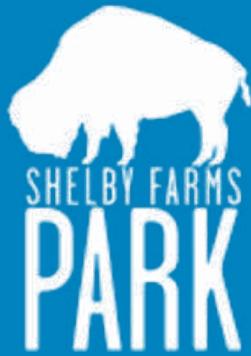
What is a Geofence?

Triggers a “count” when a mobile device enters or leaves a particular area, tracked and organized by software

Upscaled with estimated Census Bureau data

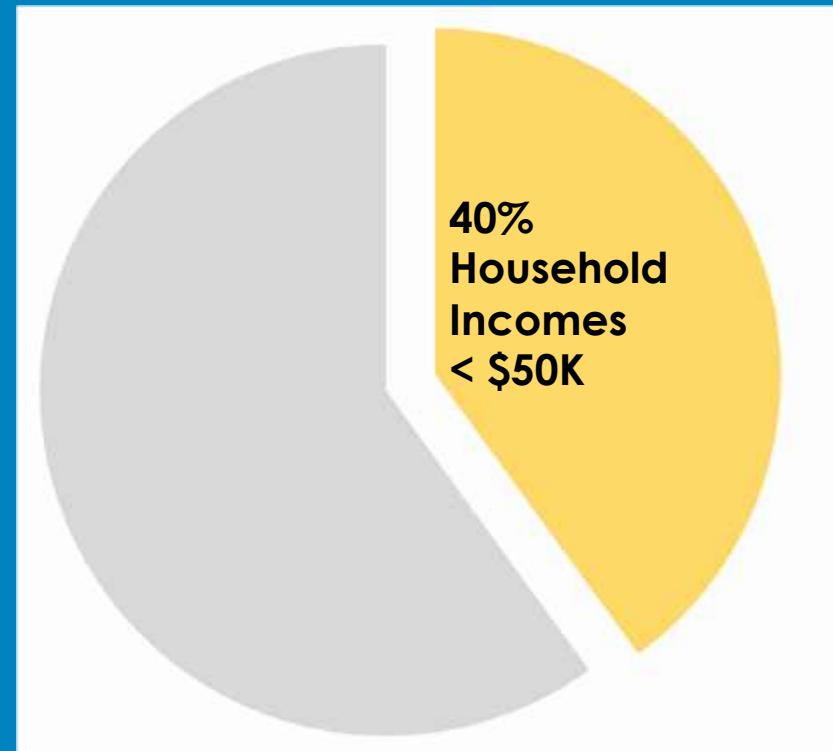
Anonymous + Protected (not tied to specific individuals)

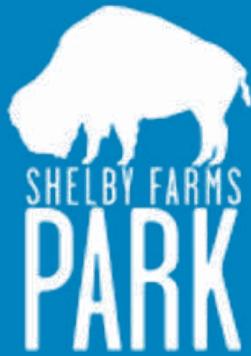
Does not capture every cell phone, but instead pulls a sample



Preliminary Data Estimates

Example:





shelbyfarmspark.org

Preliminary Data Estimates

Example:



Daily Avg:
6,200+
Visits



BLENDED APPROACH

IN-HOUSE DATA

Donors, event attendees + Park Friends membership program

Park visitors from every ZIP code in Memphis and Shelby County

OBSERVATIONAL DATA

Conducted by the local Rhodes College faculty and students

Park used by a racially diverse group of people, with ages ranging from young children to the elderly

Transitional Phase for Tech



Next: Focus on igniting action

Gathering, analyzing and strategizing about how we interact with visitors, supporters and others in a way that inspires them to do something:

*Visit more
Volunteer
Donate*

*Spend money
Attend an event
Engage + share*

ENDLESS POSSIBILITIES

DOUBLE-EDGED SWORD

Offers tons of visitor data, which is great. But it can be like drinking out of a fire hose.

THOUGHTFUL APPROACH

Need to be strategic about which data points are most impactful and actionable. Weigh our capacity to act on data and build strategies we know we can accomplish and that will deliver the most meaningful results for our visitors and community.

GEOFENCING LIMITS

Doesn't capture every cell phone.

Excludes international phones, people 16 or younger, and phones with location services turned off

Difficult to capture a narrow or winding area by itself, such as with a trail

High cost

Not a “magic bullet” solution

ENGAGEMENT-BASED LEARNING

Blend qualitative and quantitative
to create a complete picture

Use qualitative tools (e.g. surveys)
to assess and understand what
technology alone can't tell us:

*Perceptions
Knowledge
Wishes + desires for the Park*



TIPS + TAKEAWAYS

DO YOUR HOMEWORK

Who else do you know who uses tech like this? Talk to them.

Explore all tech options. Haggle and ask for things like nonprofit discounts from vendors.

PARTNER

Is there an option like Memphis Tourism in your city?

TIPS + TAKEAWAYS

SET EXPECTATIONS

Understand that tech is not a “magic bullet.” You’ll need to blend with other research to create a full picture.

PLAN

Create a strategy at the beginning so you know what data you need and how you want to use it. This will tell you what tools you’ll need.

TIPS + TAKEAWAYS

IMPLEMENT IN PHASES

It's easy to get overwhelmed, so take your time and roll it out at a pace you can manage.

It's OK if you're between phases – we are!

LET'S CONNECT!

Ben Nemenoff,
Shelby Farms Park Conservancy
Director of Development

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(901) 222-7251



THANK
YOU!





DETROIT RIVERFRONT CONSERVANCY
FOR EVERYONE. FOR 20 YEARS.

Rachel Frierson,
Senior Director of Programs and Public Spaces
Rachel.Frierson@detroitriverfront.org

A wide-angle photograph of a lake at sunset. The sky is a warm, golden-yellow. In the foreground, there's a modern building with a blue roof and a large glass window, surrounded by green trees. A bridge with a distinctive blue and white striped tower spans the lake. The water is calm, reflecting the sunset. A paved walkway with a metal railing runs along the right side of the image.

**“BEAUTIFUL, EXCITING,
SAFE, ACCESSIBLE...”**

...WORLD-CLASS
GATHERING PLACE...





...FOR ALL"



FOUNDING PARTNERS



THE
KRESGE
FOUNDATION





ATWATER STREET



CULLEN PLAZA





DEQUINDRE CUT



DEQUINDRE CUT





THE DETROIT RIVERFRONT







DETROIT RIVERWALK BEST IN THE USA



**USA TODAY
10BEST**
**READERS'
CHOICE**
2021

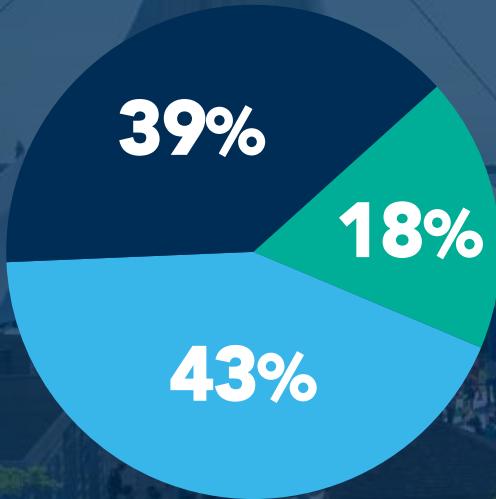


**USA TODAY
10BEST**
**READERS'
CHOICE**
2022



**USA TODAY
10BEST**
**READERS'
CHOICE**
2023

DETROIT RIVERFRONT COMMUNITY



3,000,000+

Annual Visitors

320,000+

Program Participants

84% of Detroiters

Have visited the Riverfront in
the past year.



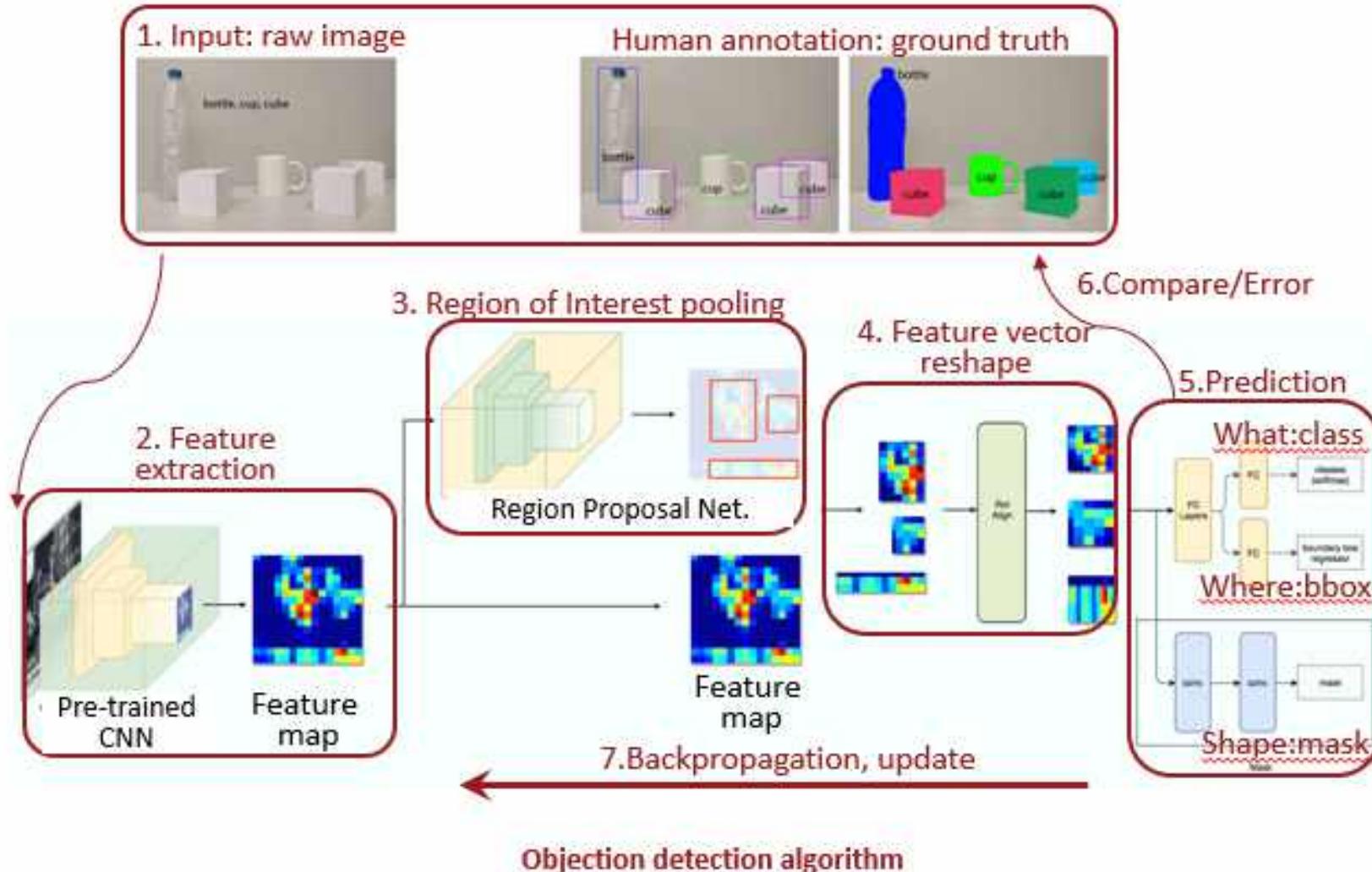
MEASURING USE THROUGH EXISTING INFRASTRUCTURE



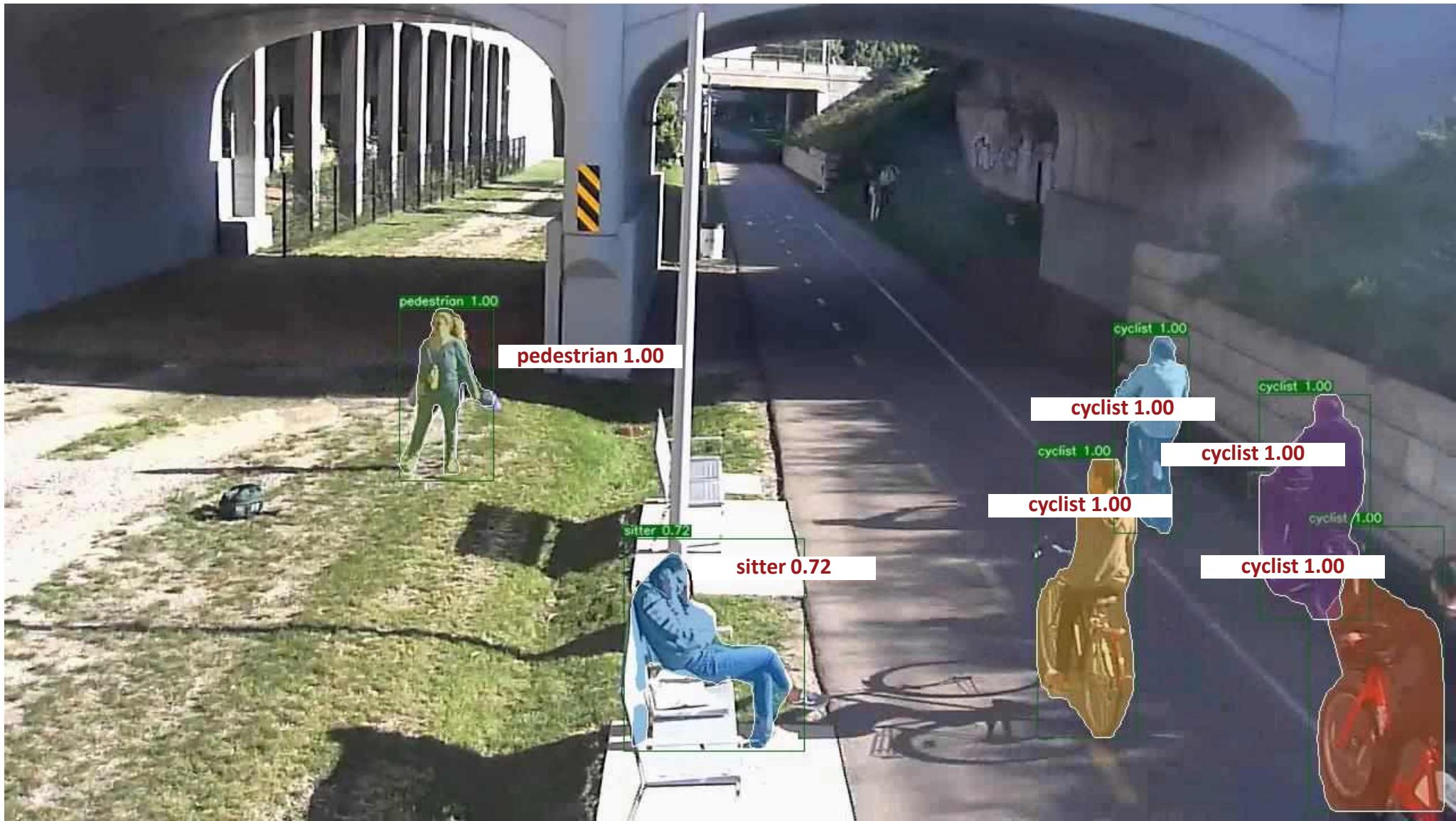
A photograph of two students, a white female on the left and a Black male on the right, working on a blue wooden structure outdoors. They are both wearing blue hoodies. The female student is leaning over, and the male student is looking down at the work. They appear to be assembling or repairing a wooden bench or structure. The background shows a university campus with trees and buildings.

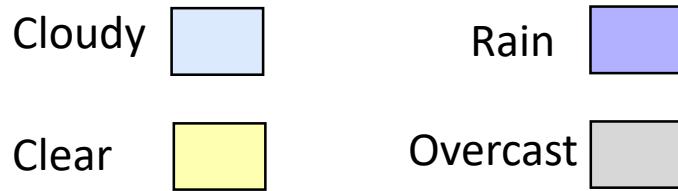
UNIVERSITY OF MICHIGAN PARTNERSHIP

TRAINING STAGE: ALGORITHM

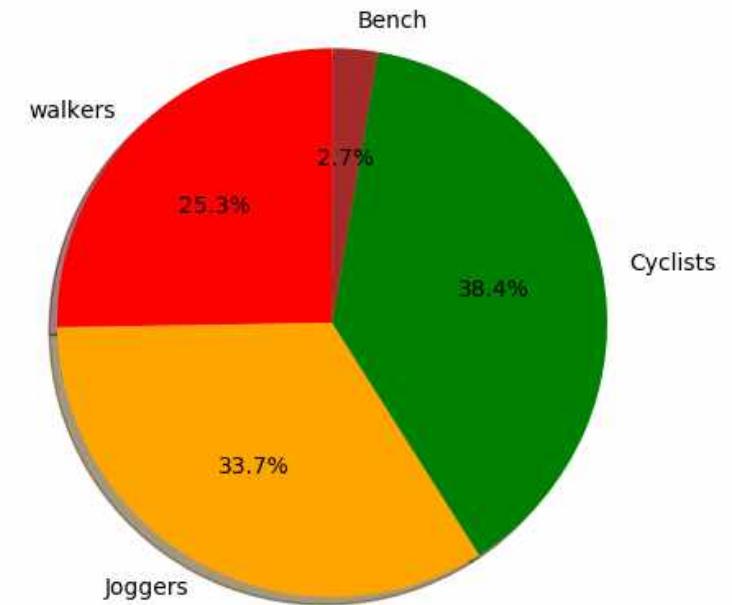
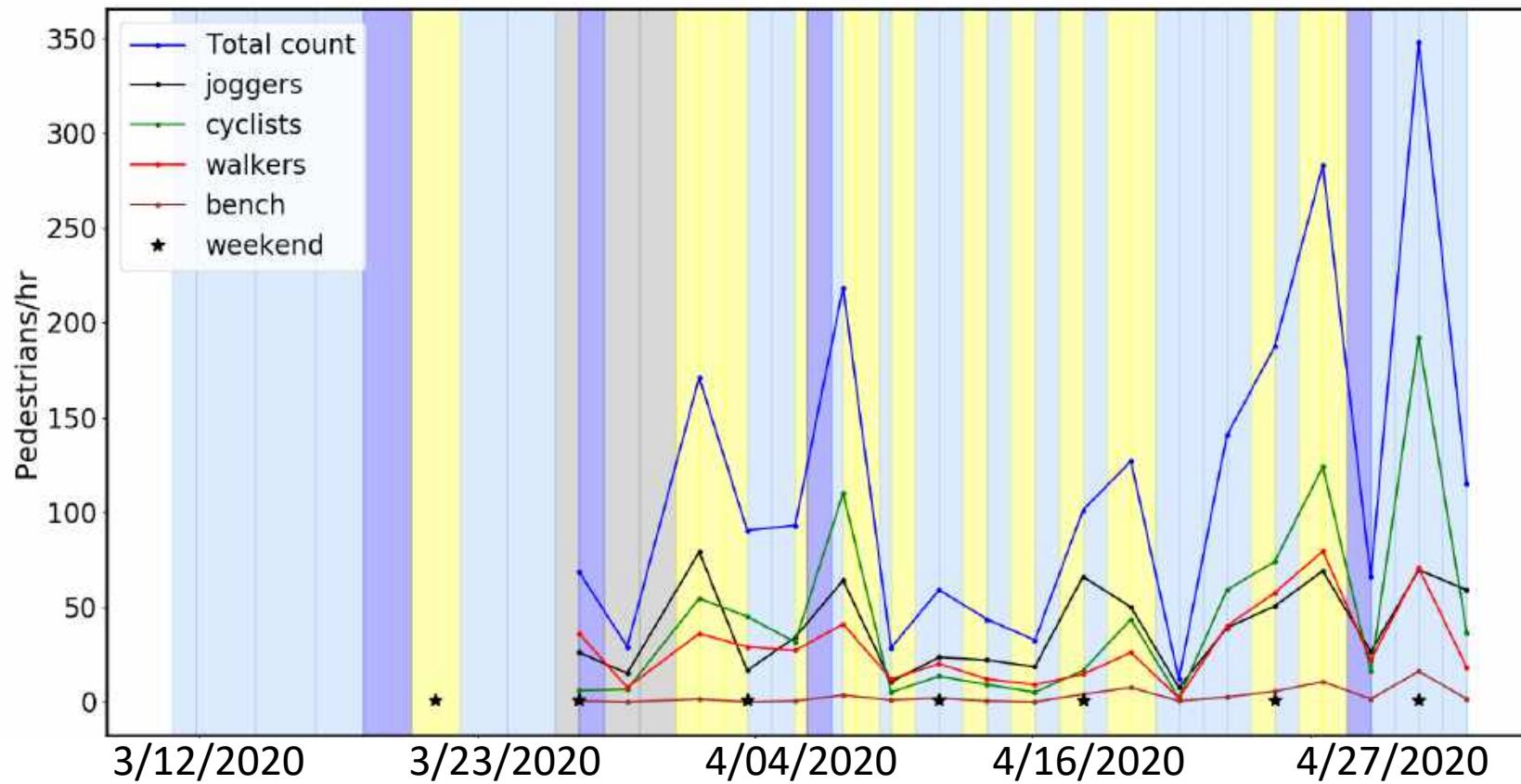


RESULTS: PEOPLE DETECTION

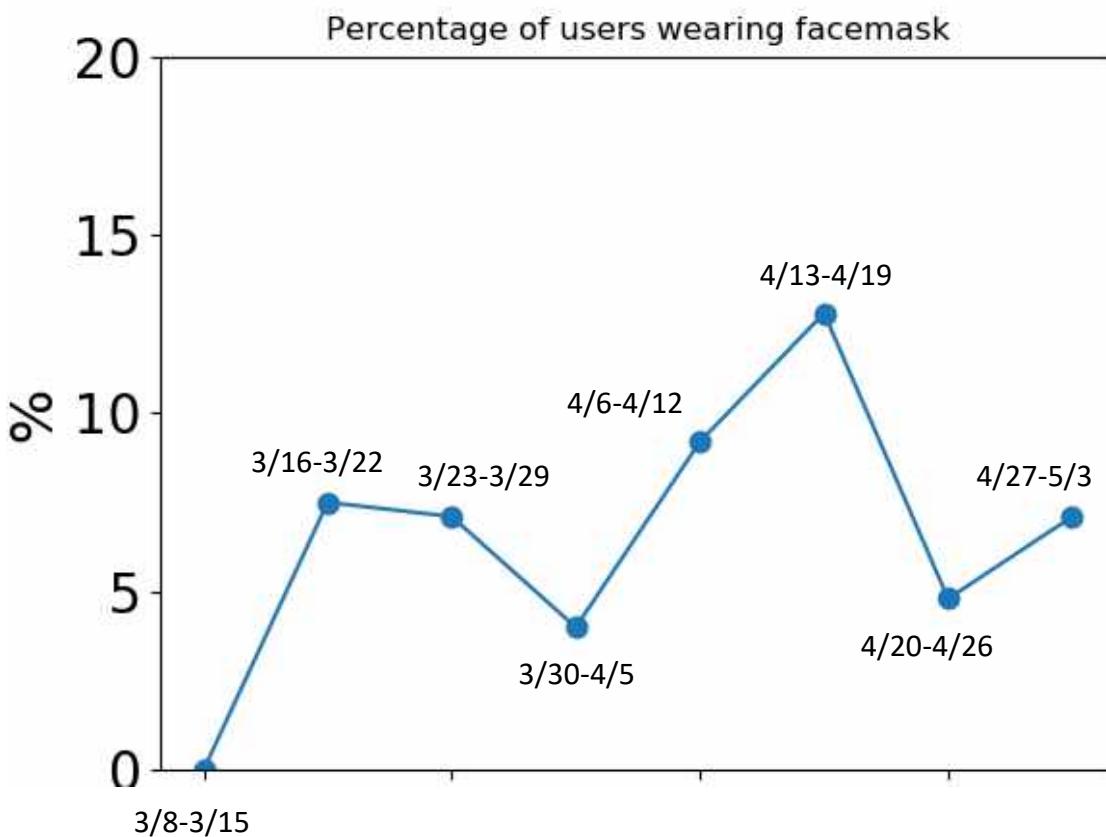




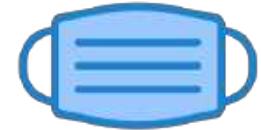
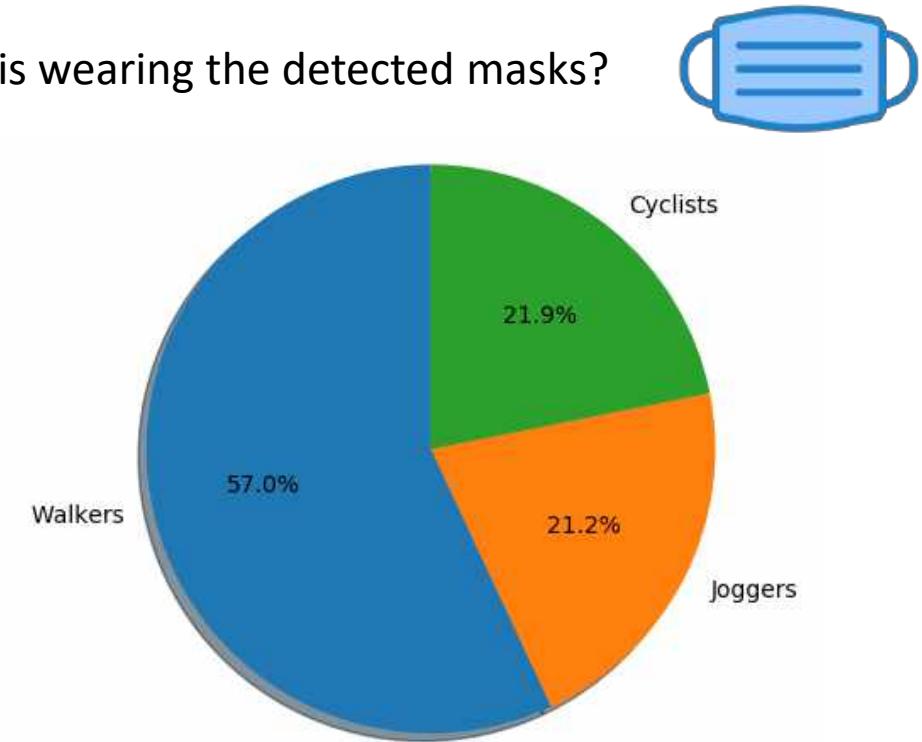
Evening



TOOLS DURING THE PANDEMIC



Who is wearing the detected masks?





ARCHER GREENWAY

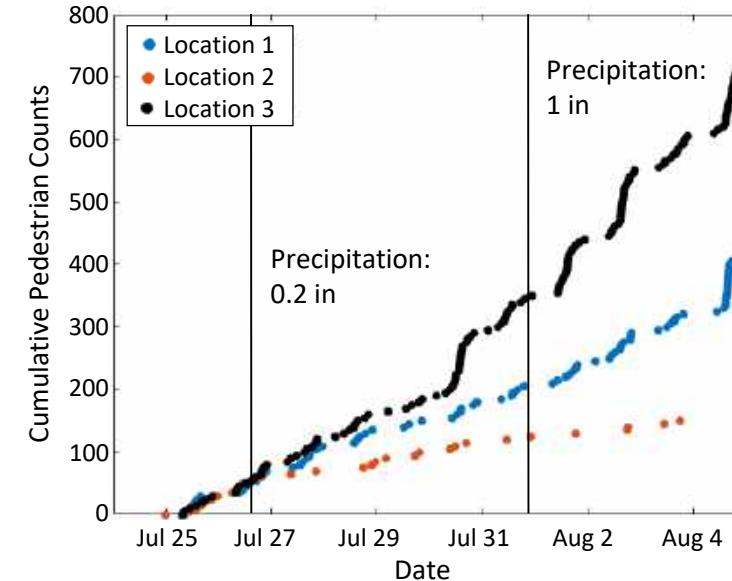
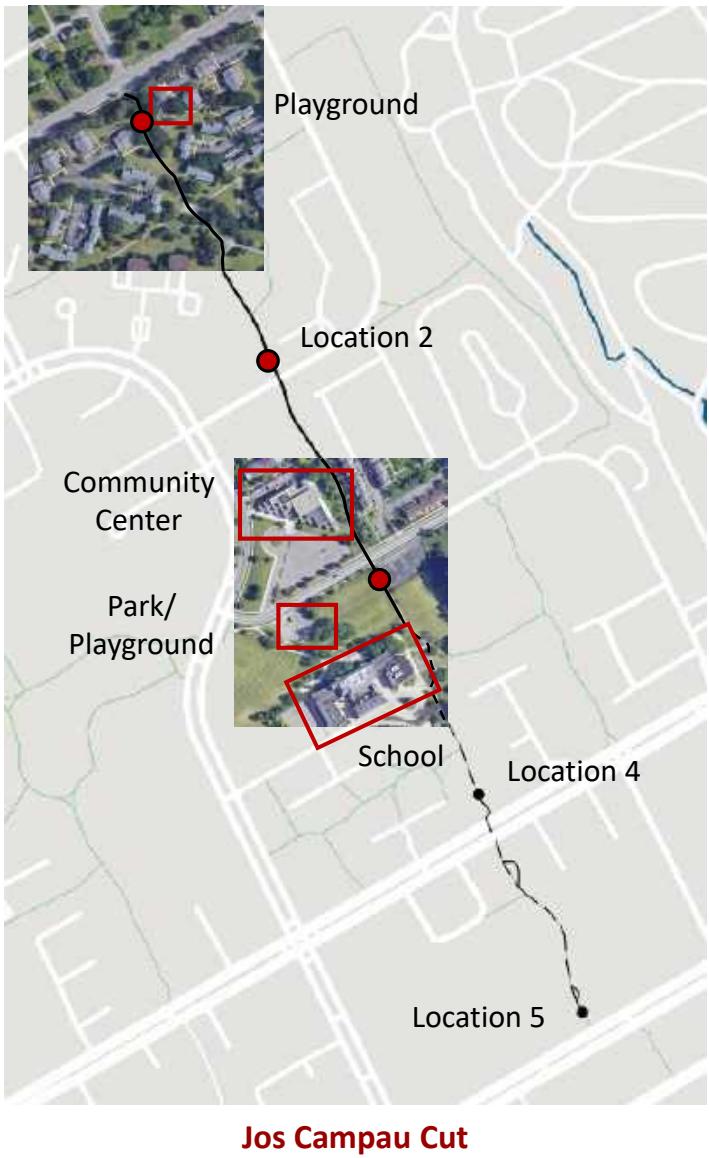


STOP

EMERGENCY

NO
MOTOR
VEHICLES

JOS CAMPAU GREENWAY - 2019

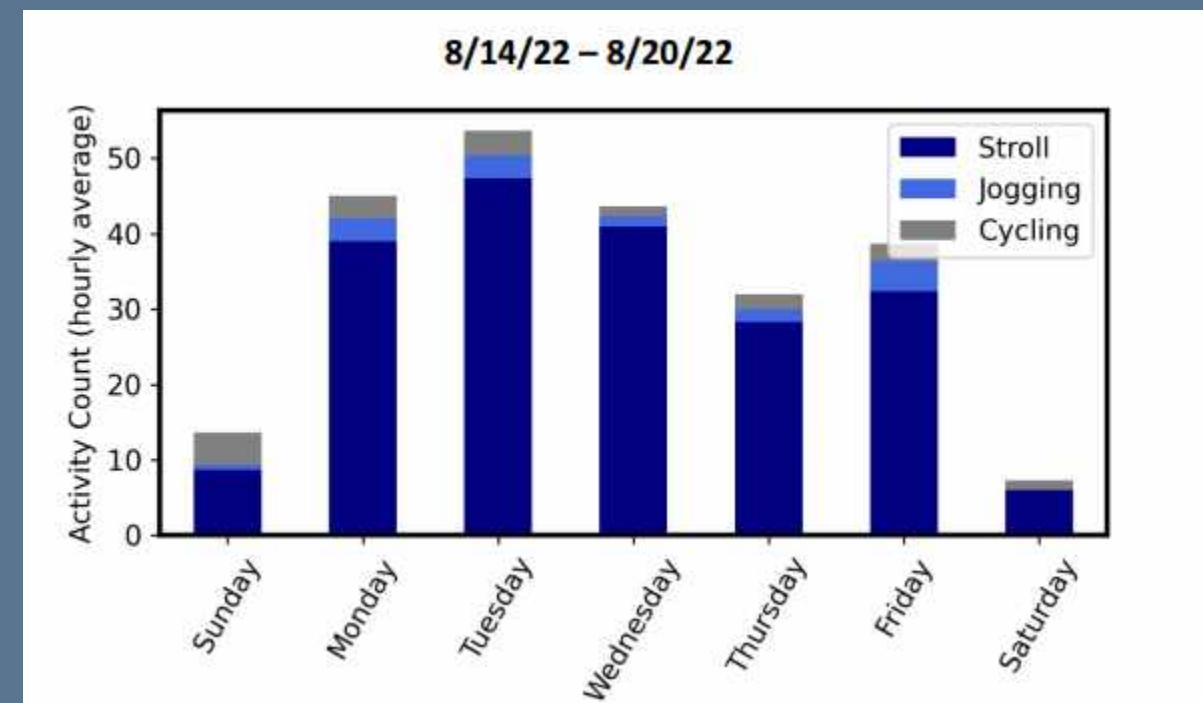
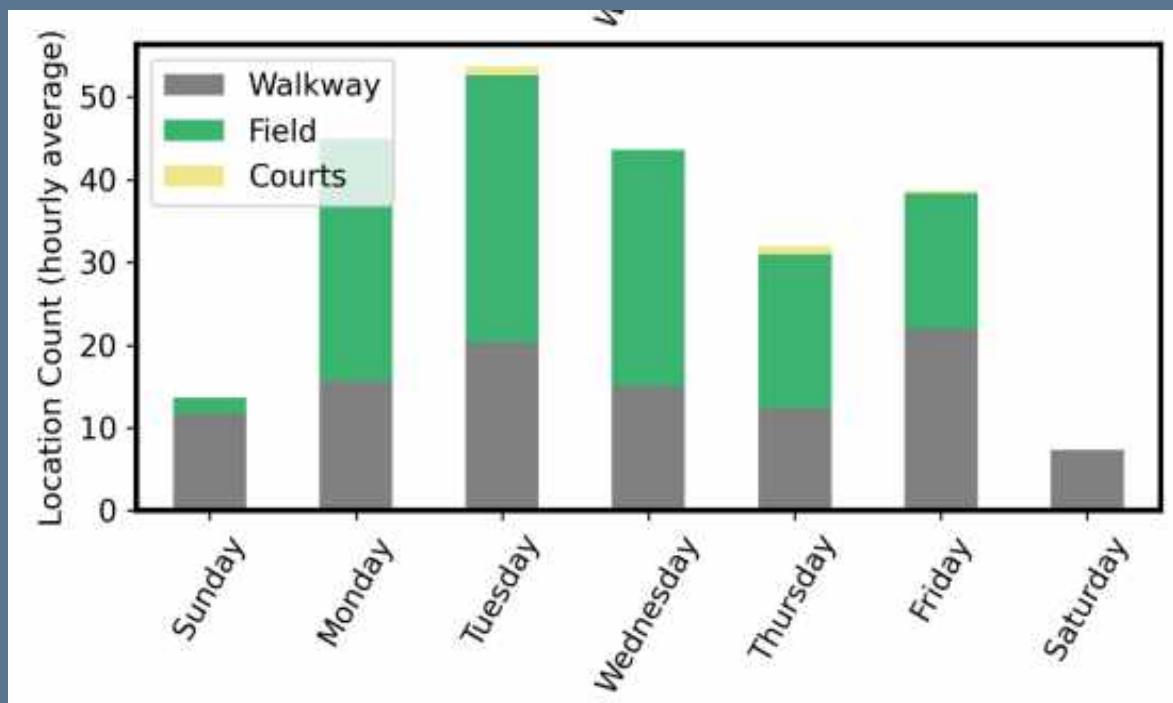


Location 2

Location 4



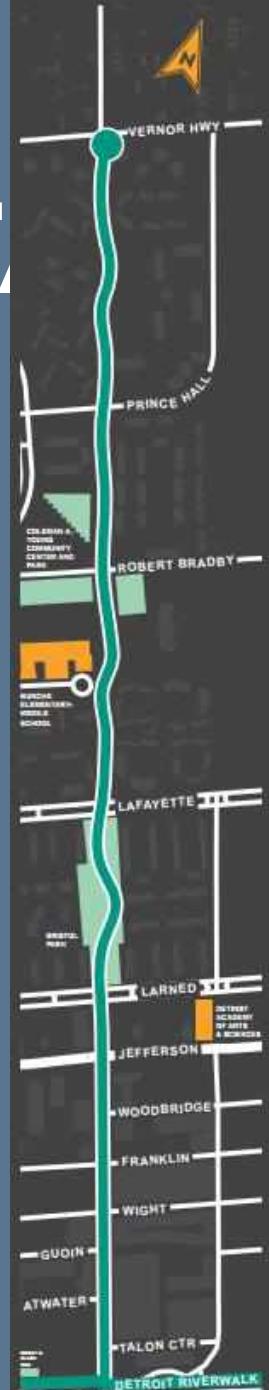
ARCHER GREENWAY + UM DATA



INTERVENTIONS



Greetings from the
**MAYOR DENNIS W.
ARCHER GREENWAY**

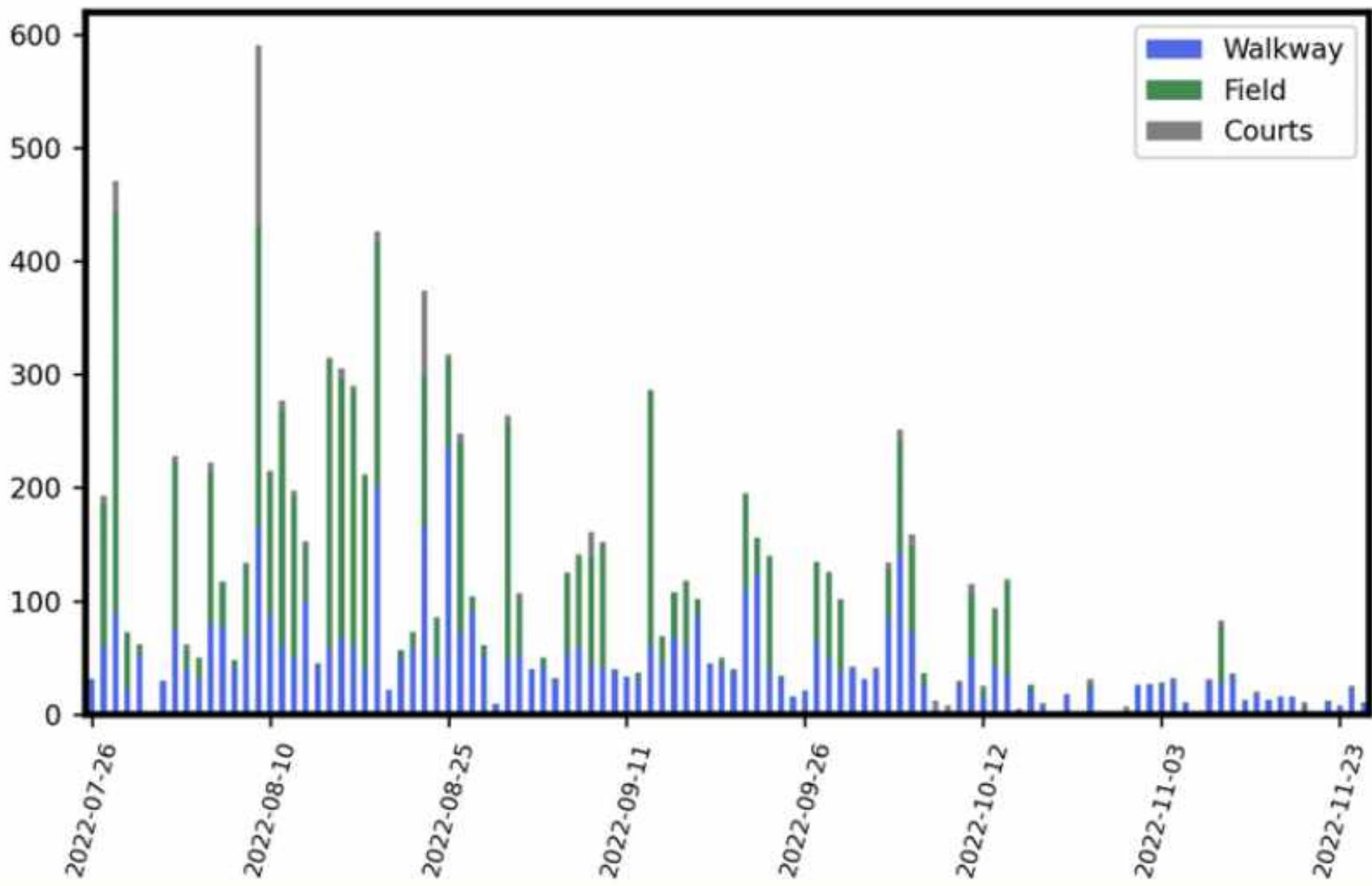




Detroit Riverfront

83K followers • 394 following





Ice cream:

Walkway 14 days prior: 695 patrons
Walkway 14 days after: 1057 patrons
52% increase

Mailer:

Walkway 7 days prior: 270 patrons
Walkway 7 days after: 298 patrons
10% increase

BUILDING A SOCIABILITY FRAMEWORK

Movement layer: Stroll, Jog, Standing, Sitting (w/ dog/stroller), cyclist

Location/furniture layer: Dining, Plaza, Bench, Bike lane, river view fence, fountain, etc.

Social layer: Passive, Fleeting, and Enduring relationships

Social Activity report:

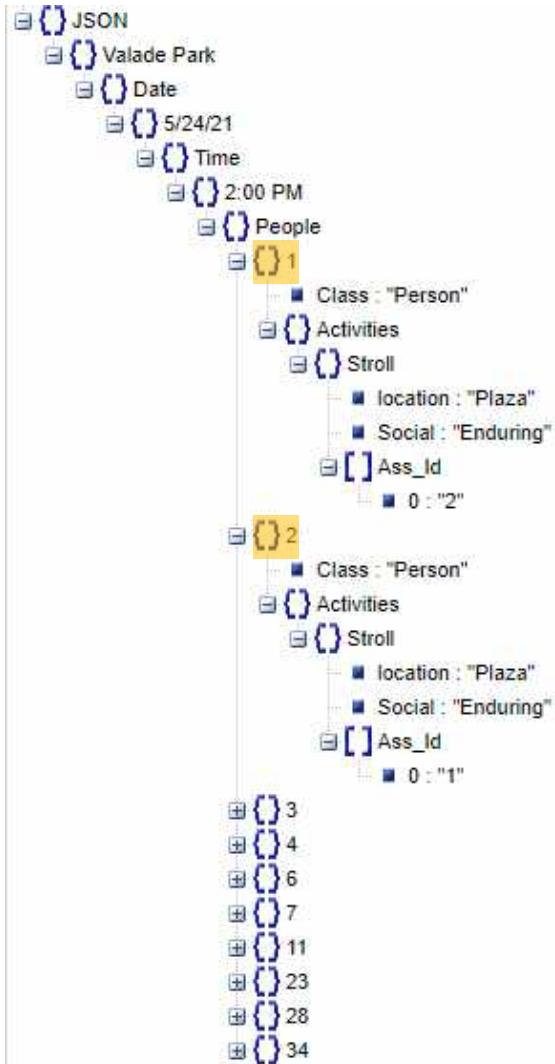
ID4: Enduring stroll in Plaza (with ID 3)

ID1: Enduring sitting in dining area (with ID 2)

ID6: Passive stroll with dog in Plaza



MEASURING SOCIALIBILITY





What we've learned

- Find a good research partner or service
- Ask big questions
- Physical counts vs Social counts
- How data explains the importance of parks



THANK YOU





Thanks for joining us!

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