



# DUPAGECOUNTY

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WILLOWBROOK CORNERS PLANNING SERVICES PROJECT  
COMMUNITY ADVOCACY GROUP  
DECEMBER 7, 2021

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**MEETING #2:  
MOBILITY SCENARIO PLANNING**



# AGENDA

Schedule	Time	Discussion and Activity	Lead
5:30 – 5:35	5 min	Welcome and brief update on progress	John
5:35 – 5:40	5 min	Report on Community Outreach: <b>Attachment 1: Outreach Boards</b>	John
5:40 – 6:05	25 min	Mobility Survey Findings & Implications with Replica Presentation: <b>Attachment 2: Willowbrook Corners Mobility Survey Findings. Attachment 3: Replica Spatial Data Overview</b>	Gabi & Mary
6:05 – 6:25	20 min	Introduction of Jared Gulbranson & Tim Rosenberger (WSP) First Steps on Mobility Options & Discussion.	Jared & Tim
6:25 – 6:30	5 min	Closing Remarks <ul style="list-style-type: none"> <li>– Summary of key discussion points</li> <li>– Questions/Remarks from Advisory Group</li> <li>– Next meeting date/time reminder</li> </ul>	John





# Project Overview

- To develop a framework focused on transportation and community development in the Willowbrook Corners community.
- The goal is to identify and prioritize community needs, develop responsive near-term solutions, and design an action plan to implement those solutions.





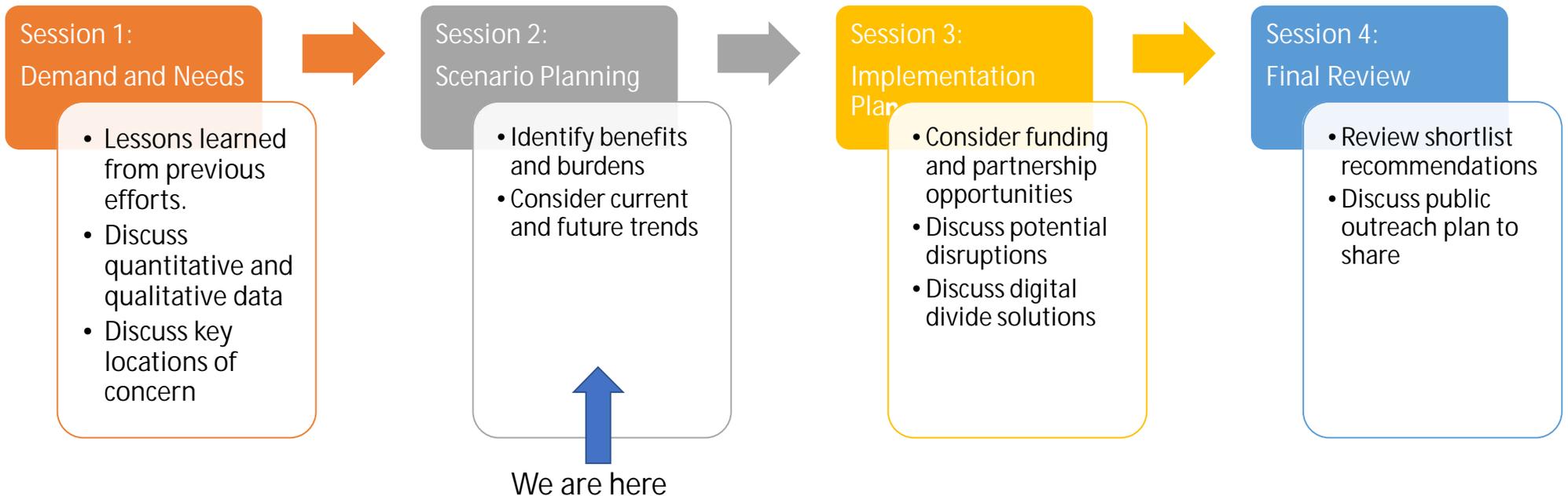
# Advisory Group Meeting 2 Overview

- Our Resident Mobility Survey tells us what is important to the residents of Willowbrook Corners
- An application of “big data” called Replica provides a snapshot of where people in the community travel.
- A first look at Options tells us what directions we will explore.

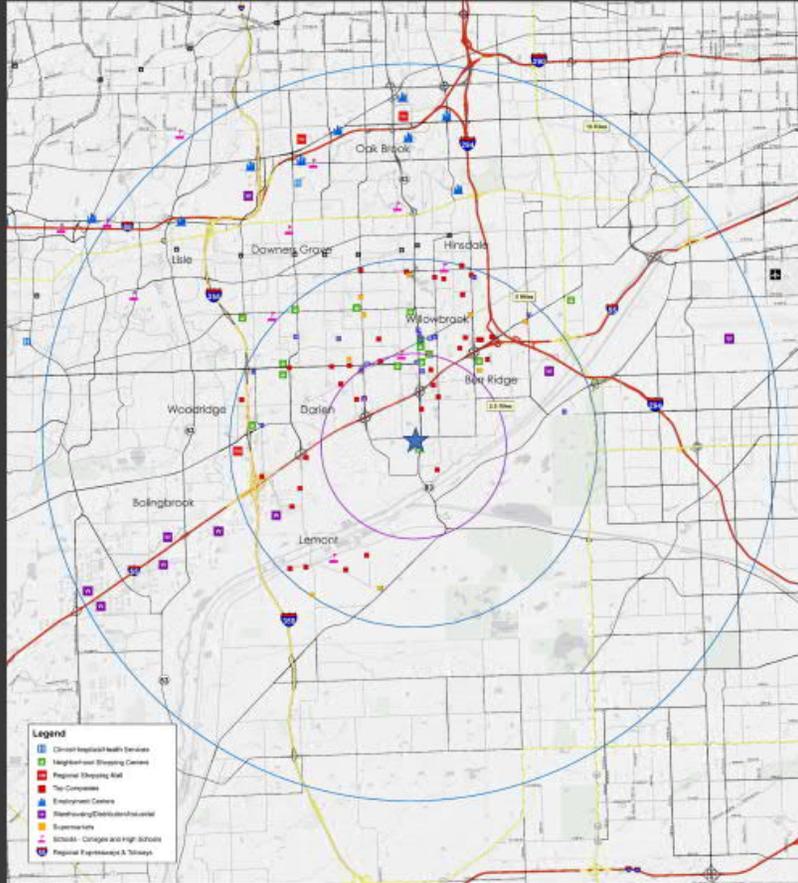




# Project Workflow



IL ROUTE 83 AT 91<sup>ST</sup> ST NEIGHBORHOOD



Where Do You Need to Travel?

- Red = Shop
- Orange = Supermarket / Restaurant
- Blue = Work
- Green = Medical
- Pink = School



# Outreach Boards



## Transportation Options for the IL Route 83 and 91<sup>st</sup> Street Area

*If YOU or YOUR FAMILY require Transportation, which of these would be helpful?  
Please Place a Colored Tab by the Mode(s) that you might use and the Infrastructure Options You Believe are needed in the Neighborhood*

### VEHICLE OPTIONS

**Electric Bike Share**  
Available to all in community, must check out and check in. Limited range & cannot be used on trails.  
Power-assisted.



**Mobility on Demand (MOC)**  
You call and schedule ride, has limitations on hours and days of operation.



**Community Car Sharing**  
Clean energy vehicles shared by the neighborhood for individual or small number of users, with time and geographic limits.



**Scooter Sharing**  
Shared vehicles for limited length trips, must return to community charging location and check in.



**Community Van**  
Anyone in community with valid driver's license can drive at any time of day, any day of week. Larger capacity. Has geographic limits.



**Pace Van Pool**  
Vehicles restricted to Van Pool driver; passengers travel same route or to same destination; restricted hours and days.



### INFRASTRUCTURE OPTIONS

**Connected Sidewalk Network**  
Fill in sidewalk gaps and connect sidewalk with intersection curb ramps.



**Marked or Dedicated Bike Lanes**  
Build bike path in rights-of-way to connect schools, public spaces and residential areas.



**Redirection Refuge Islands**  
Protection for Pedestrians and Bicycles Crossing Busy Streets - Walk Pad Countdown Signals.



**Transit / Transportation Shelter**  
Protection for Pedestrians while waiting on transit or other transportation services.



**Neighborhood Transportation Hub**  
Electric Vehicle Charging, vehicle sharing and van storage.



**Secure Bike and Scooter Storage**  
Protects bicycles and e-scooters in public areas with E-bike and scooter recharging options.





# Survey Conduct

- All respondents resided in Willowbrook Corners
- Posted placards throughout neighborhood
- Included a newsletter and QR code for outreach
- Teamed with Anne M. Jeans Elementary School and Avanath Realty for connections
- Survey was conducted in the Fall of 2021 and was made available on-line or in person

ISSUE 01 Fall 2021

Quarterly Advisory Group Update

## Willowbrook Corners Mobility

this issue  
Community Survey P.1

**Upcoming Events**

**COMMUNITY OUTREACH**  
ANNE M. JEANS SCHOOL  
OCT 26, 7:30A – 6P

**AVANATH BUSINESS OFFICE**  
OCT 27, 9A – 5P

Stop in and say hello, have a cup of coffee and discuss the project with us.

**Survey QR Code:**

**Community Survey**

Our mobility survey is active! During the period October 25 to November 5, the county is conducting a mobility survey to learn more about transportation needs in the 91st Street IL, Route 83 neighborhood. We are asking for your help to get the survey in front of as many residents of the neighborhood as possible. They need only be over 14 years of age, live in the Willowbrook (91st Street and IL Route 83) neighborhood, and have not filled the survey out already. We would like the head of household to respond and are also very interested in the needs of the 14-16 year old population.

Below you will find the email that went out to residents of the neighborhood through both Avanath and Anne M. Jean Elementary School. Please share this page with potential survey respondents.

**Survey Request**

DuPage County has begun an evaluation of transportation and mobility options for your community. We know that Covid and the last 18 months have been difficult on you and your families. The pandemic has changed many things: our jobs, our ability to interact with the world around us, our children's education, and simple things that we took for granted like going out to a restaurant with friends and family. With so many things changing in a short amount of time, we would appreciate it if you would help us understand what obstacles you and your family face in terms of transportation and communications on a day-to-day basis.

We have prepared the survey that you will find links to here. We hope you will take a few minutes out of your busy day to complete the survey. Each member of the family over 14 years of age may complete a survey.

You have three ways of completing the survey. You may fill it out online with this [link](#) or with the QR code (attached here) or we can provide a printed survey that you pick up and return to either of 2 locations where there are secure locked survey boxes. These are at:

- Avanath Rental Offices, 16 W450 Honeysuckle Rose Lane, Willowbrook
- Anne M. Jeans Elementary School, 16W631 91st St, Willowbrook

If you prefer, please visit us on 10/26 or 10/27 and fill out the survey in person at the following locations:

- Avanath Rental Offices, Wednesday, 10/27 from 9 AM to 5 PM
- Anne M. Jeans Elementary School, Tuesday 10/26 from 7:30 AM to 6 PM.

DUPAGE COUNTY

## Willowbrook Corners, Community Mobility and Access Needs Survey

Thank you for participating in this survey to help DuPage County develop transportation solutions that make employment, school, childcare, healthcare, groceries and recreation easy and affordable to access. Please take a few minutes to complete the survey so your voice is heard. All responses are welcome and will be kept confidential. Start the survey below and mark your answers by checking the boxes.

[Sign in to Google](#) to save your progress. [Learn more](#)

[Next](#) [Clear form](#)



# Survey Major Findings

## Survey Respondents replied:

- Mobility options that are affordable and flexible
- Linked to employment within 2-5 miles of home
- If a transit stop is part of the solution, seating and shelter from the weather are highly desired
- AM hours of service are needed most – but best if there is service throughout the day
- Biking and walking are not safe in the neighborhood due to the infrastructure issues – the lack of sidewalks and unsafe intersections
- Technology is part of everyone's life, but smart phone penetration is not universal
- Privacy has value – one person at a time microtransit is more attractive than vanpool

## Survey Comments

- The neighborhood needs sidewalks; it is unsafe for people to be walking in the streets, especially at night.
- We live right off a highway - we are never safe to walk or bike ride anywhere.
- Safety concerns on IL 83, Clarendon Hills Road, Mockingbird Lane and 91st





# Survey Findings and Implications - 1

Survey Question	Major Findings	Implication
When a car is unavailable, what features are most important for you to have in transportation options?	Affordable (30%) and Flexible (29%)	Mobility options need to be affordable and flexible.
When a car is unavailable, what places is it most important that transportation serves?	Jobs (33%) and Schools (27%)	Access to job and school opportunities are key. Since this question is aimed mainly at a person left without the car or driver, what modes would be useful to that person?
If transportation options improved access to job opportunities, where are the jobs you are interested in located?	First pass: Within 2-5 miles of Willowbrook Corners (local stores, schools, restaurants) – 72% and 15% within DuPage County. Second pass 59 percent were interested in the I-55 Stevenson Expressway (production and distribution warehouses)	Near-in work opportunities are the low hanging fruit. The 75 <sup>th</sup> Street / IL 83 shopping/dining area is the nearest potential fairly dense place for jobs. Respondents have deep interest in the I-55 logistics corridor.
If there were transportation options that required the use of a smartphone app, what would you need to be able to use these transportation options on a regular basis?	I have a smartphone (44%); I need a smartphone (23%); I need a smartphone for my kids (18%).	Any potential technology “lift”, financial or otherwise, would add value to an app-dependent mobility option.
If the bus went where you needed to go, when do you need a ride from Willowbrook Corner?	Early Morning (3am-7am) – 51%; Late Morning (7-11am) – (43%);	Mornings are critical for transit service, particularly when the home’s vehicle has departed.





# Survey Findings and Implications - 2

Survey Question	Major Findings	Implication
If you took the bus, which of these improvements make the bus stops better?	Seating (67%) and Shelter from the weather (31%).	Do we need to have a GoFundMe to get hard working transit riders out of the ice, wind, and snow?
Some of your destinations may be nearby and accessible without a car or bus. Are there any obstacles that make you uncomfortable on foot or biking?	Poor sidewalk/No sidewalk (88%). Unsafe intersections (9%).	Consistent comprehensive sidewalk design and construction is at the heart of safety for all travel modes. Need to start the process on adding sidewalks to the entire Willowbrook Corners neighborhood.
Vanpool service has one pick-up location everyone meets at, and only a few drop-off locations that are close to each other. The locations are fixed, and you pay a monthly fee. Would you use a vanpool service if it were available?	Yes (15%); No (15%); I'm not sure (70%).	Privacy is an important need in the post-Covid-19 pandemic world. Perhaps more education is needed to explain how vanpool is made safe?
Microtransit service is a regular vehicle (not a bus) that picks people up individually wherever they are and drops them off where they want to go. The locations vary, and you pay per ride. Would you use a microtransit service if it were available?	Yes (62%); No (5%); I'm not sure (33%).	Privacy is an important need in the post-Covid-19 pandemic world. Cost, scheduling, and availability to all household members are key points that describe this mode



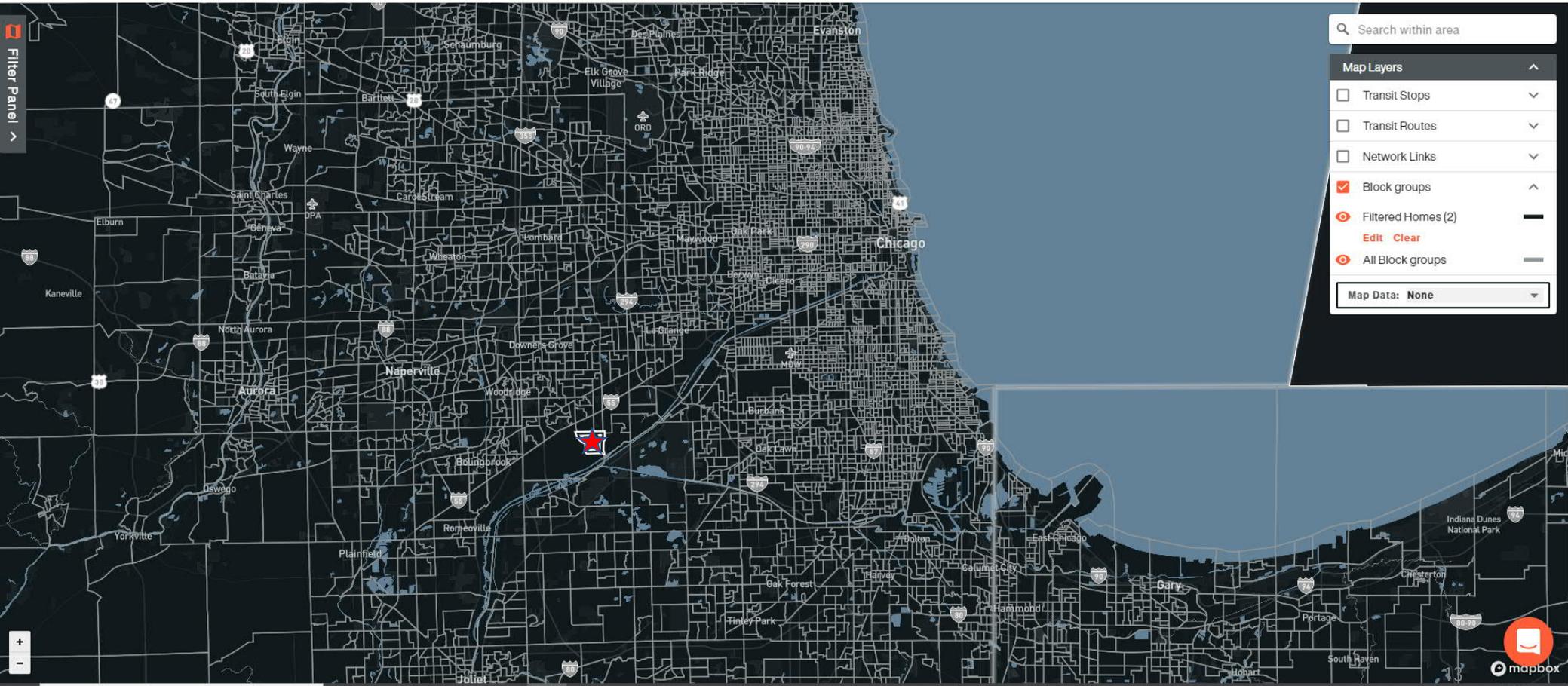


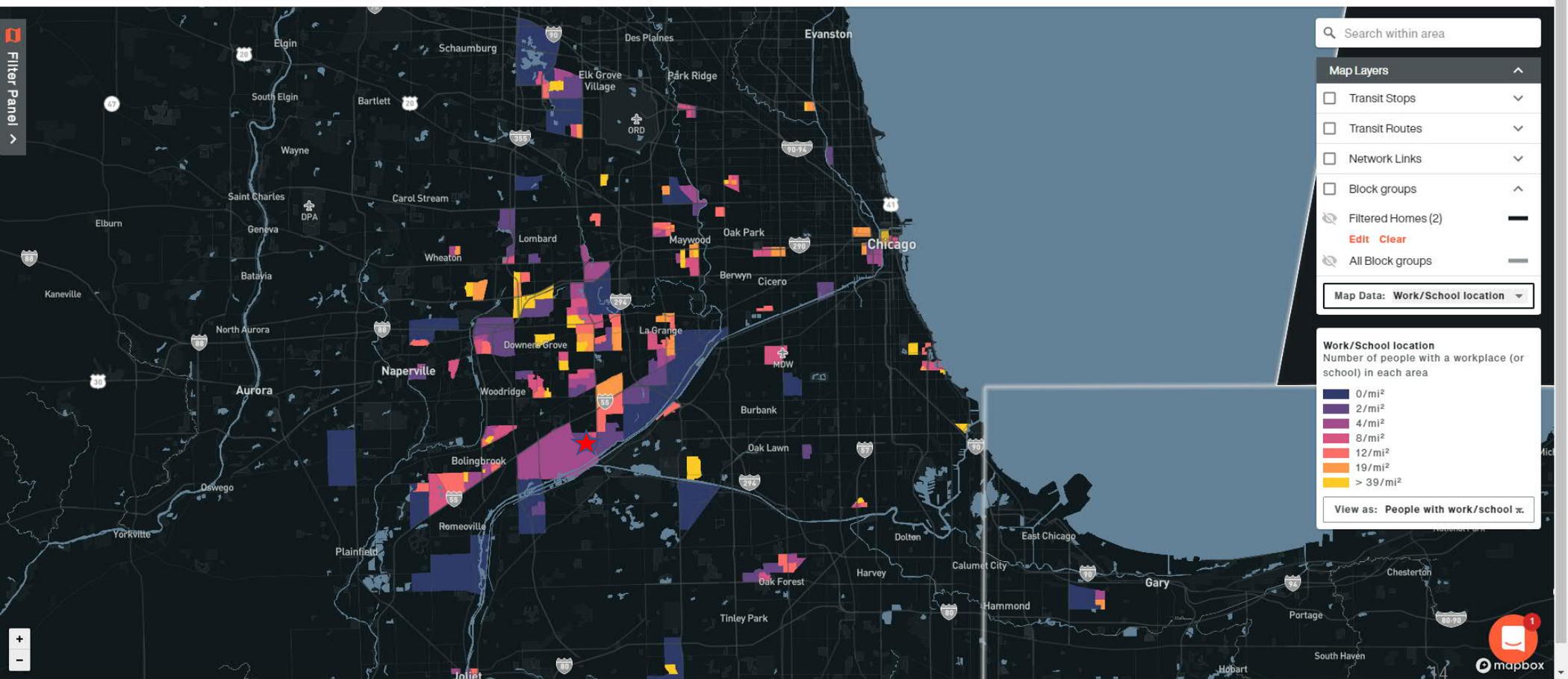
# Replica Travel Pattern Data

- Replica data is a “big data’ source that captures trip origins and destinations - this data is from an average Thursday in fall of 2019.
- The value of Replica is to get a sense of travel patterns so that mobility solutions can follow from them.









Search within area

Map Layers

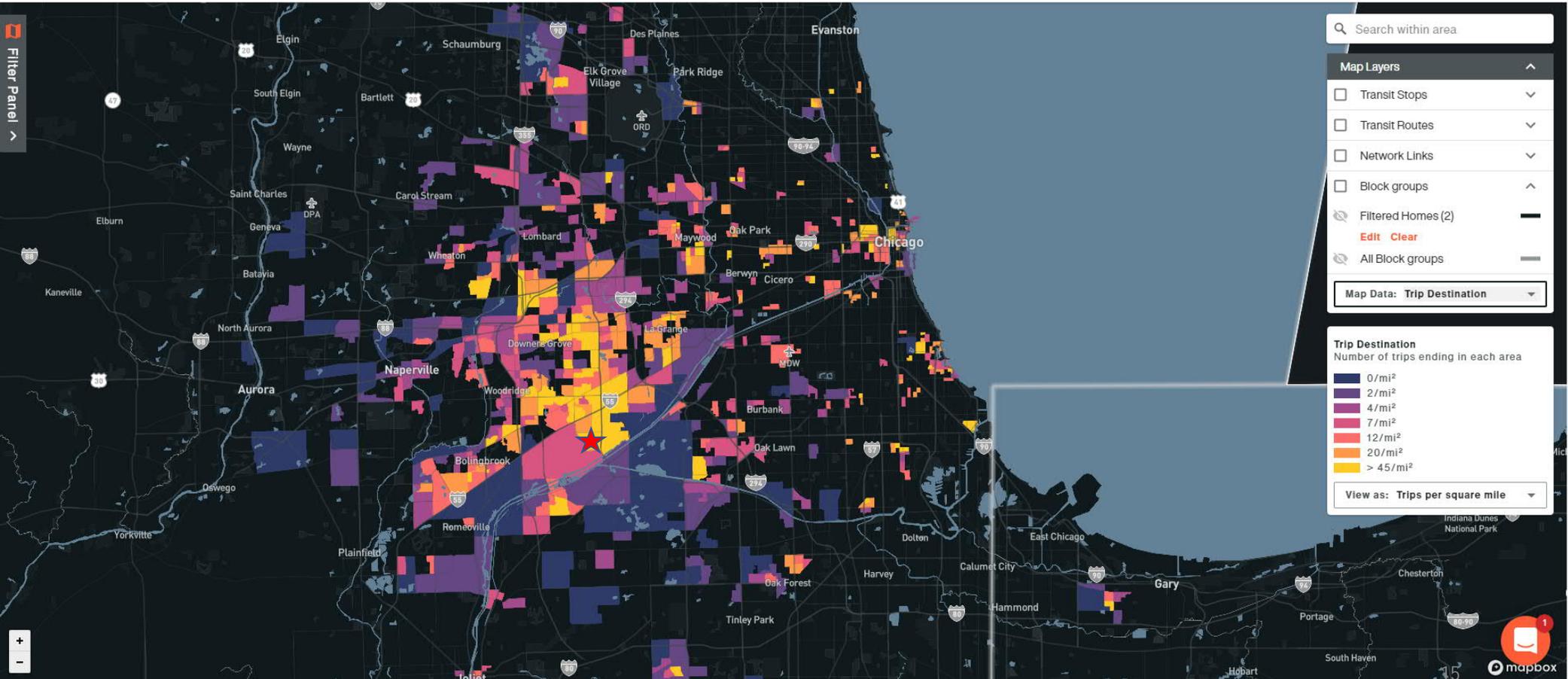
- Transit Stops
- Transit Routes
- Network Links
- Block groups
- Filtered Homes (2)  
Edit Clear
- All Block groups

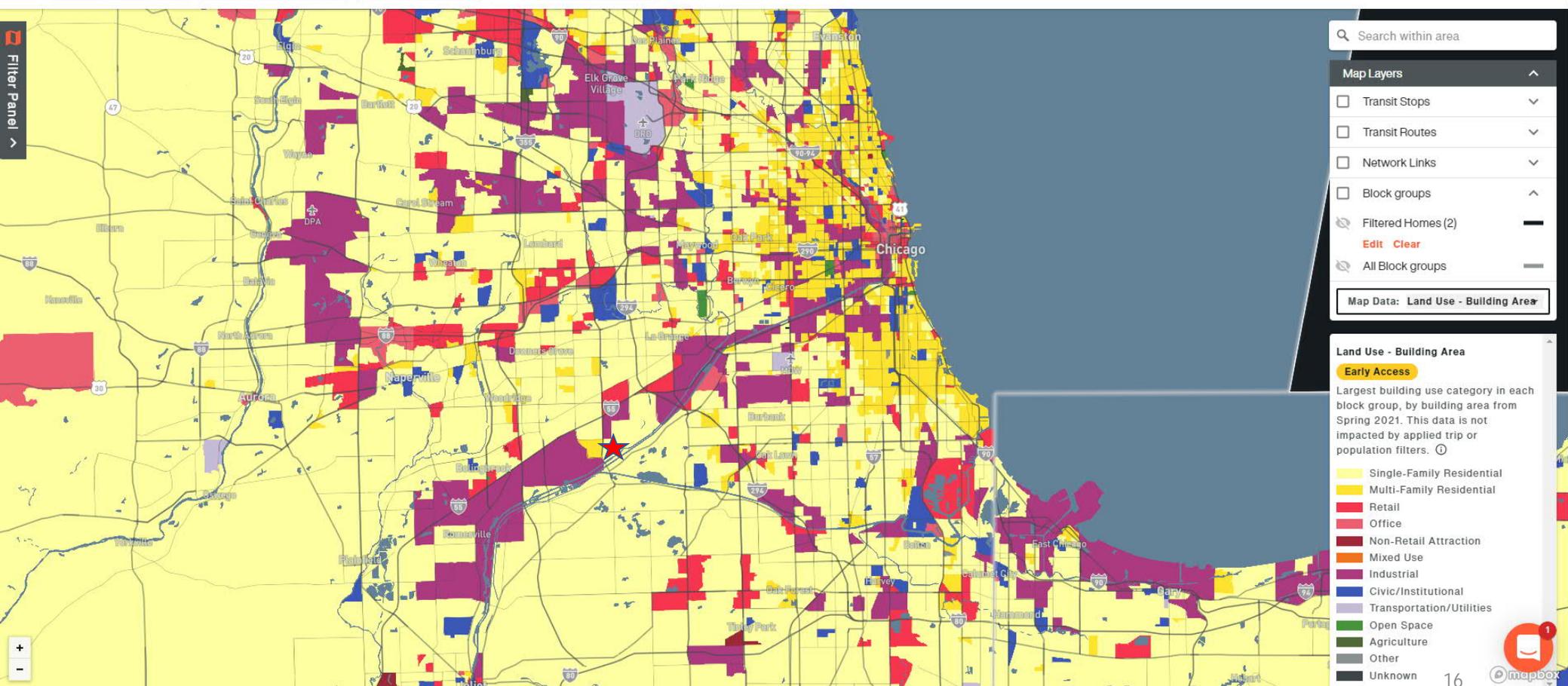
Map Data: Work/School location

**Work/School location**  
Number of people with a workplace (or school) in each area

- 0/mi²
- 2/mi²
- 4/mi²
- 8/mi²
- 12/mi²
- 19/mi²
- > 39/mi²

View as: People with work/school





Search within area

Map Layers

- Transit Stops
- Transit Routes
- Network Links
- Block groups
- Filtered Homes (2)  
Edit Clear
- All Block groups

Map Data: Land Use - Building Area

Land Use - Building Area

**Early Access**

Largest building use category in each block group, by building area from Spring 2021. This data is not impacted by applied trip or population filters.

- Single-Family Residential
- Multi-Family Residential
- Retail
- Office
- Non-Retail Attraction
- Mixed Use
- Industrial
- Civic/Institutional
- Transportation/Utilities
- Open Space
- Agriculture
- Other
- Unknown

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# Findings from Replica

- Replica data has a value in describing in general the place where people travel for work/school and other destinations
- Census Block Group geography is useful for making plots and can also be used in grant proposals
- Work-School Locations from Willowbrook Corners are generally north and northwest of Willowbrook Corners. Connections on IL Highway 83 (Kingery) would be useful in serving work and school.
- Willowbrook Corners is an island of multi-family residential (bright yellow) in a sea of single family residential (pale yellow). Industrial land use abounds along I-55.





## How will the Implications from the Survey and Replica Pattern Analysis Inform Options Development?

- We know the major issues and needs – from the survey which echoed our team members' understanding
- Replica shows us that we can serve many work and school trips by linking Willowbrook Corners with points north and northwest – along Illinois Highway 83
- Many challenges are present





# Mobility Options

- Fixed-route bus
- Pace Community Vehicle Program
- Van pools
- Microtransit options





# Mobility Options – Fixed Route Bus

- Pace suspended Commuter Feeder Route 664 during the pandemic
  - All commuter routes suspended during COVID
  - Relatively low ridership before COVID makes the route unlikely to return after COVID
  
- Route 664 fed "9-to-5" commuters into Metra
  - 3 AM peak trips to Metra; 3 PM trips from Metra
  - Little or no benefit to other travelers, trip purposes
  
- Area is challenging to serve with fixed-route buses
  - Low population, employment density
  - Wide range of trip purposes and destinations





# Mobility Options – Pace Community Vehicle Program

- Pace provides local governmental entity with a disabled-accessible, lift-equipped vehicle
  - Pace provides vehicles, fuel, maintenance
  - Local entity operates and manages service, is responsible for staffing costs
- Local entities can develop cost-effective service that meets community needs
  - Service area, routing, stop locations
  - Operating schedule and hours of operation
  - Fare policy
- Could provide fixed-route or demand-based service for shorter trips, and connect to Pace routes, Metra stations for longer trips





# Mobility Options – Van Pools

- Pace Vanpool Program
  - Pace supplies vehicle, covers cost of fuel, tolls, insurance, maintenance, roadside assistance
  - Pace Rideshare Matching Tool helps to group individuals with similar origin areas, destinations for efficient pooling
  - Monthly fare based on distance, number of pool members
    - Free fare for member that drives, stores vehicle
  - Primarily for daily work trips, not practical for other trips
  - Lower population density and diversity of destinations will make developing pools more challenging





# Mobility Options – Microtransit

- Demand-response service delivered via app-based trip scheduling
- Flexible service for lower density areas
- Provided within a fixed zone
- Service parameters can be tailored to meet local needs while controlling costs





# Closing

- Next Steps
  - Options development & screening
  - Implementation planning
  - Funding
- Next Meeting

