



DUPAGECOUNTY

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

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: Attachment 1: Outreach Boards	John
5:40 – 6:05	25 min	Mobility Survey Findings & Implications with Replica Presentation: Attachment 2: Willowbrook Corners Mobility Survey Findings. Attachment 3: Replica Spatial Data Overview	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">– Summary of key discussion points– Questions/Remarks from Advisory Group– Next meeting date/time reminder	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.





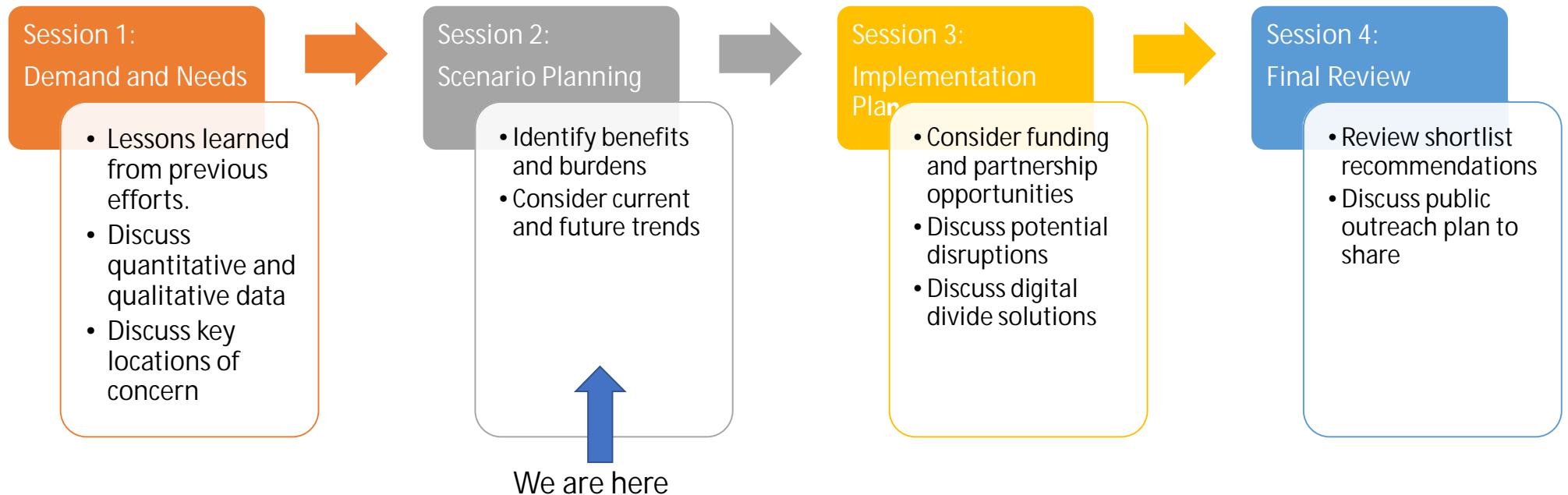
Advisory Group Meeting 2 Overview

- 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.

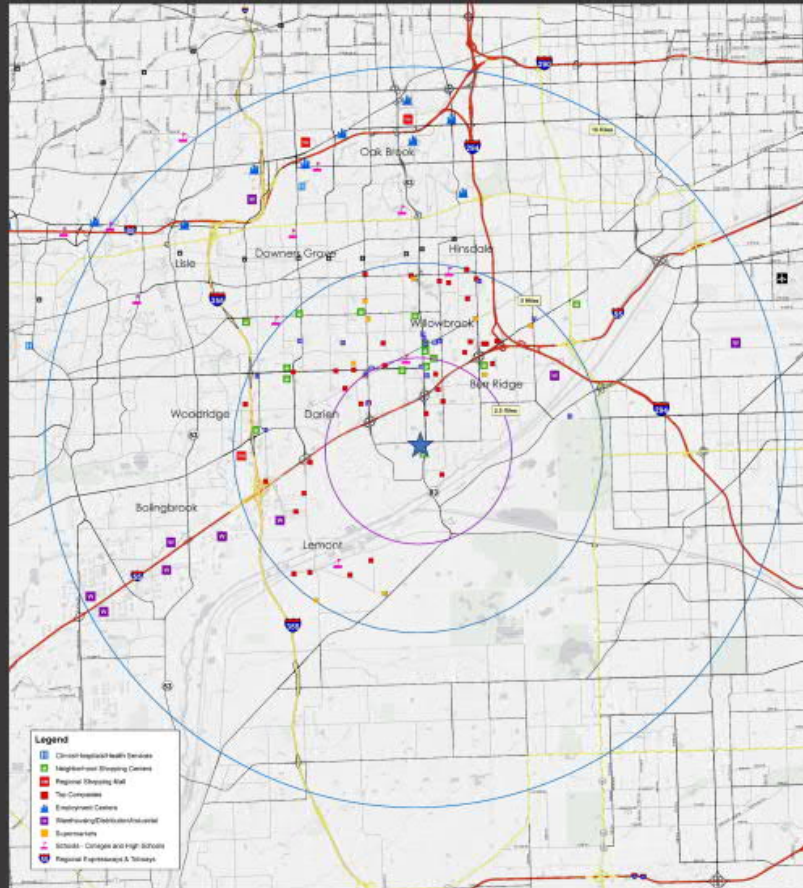




Project Workflow



IL ROUTE 83 AT 91ST 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 91st 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.



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. No 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 sidewalks with intersection curb ramps.



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



Pedestrian Safety Islands
Protection for Pedestrians and Bicycles Crossing Busy Roads - Walk Pad Countdown Signals.



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



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

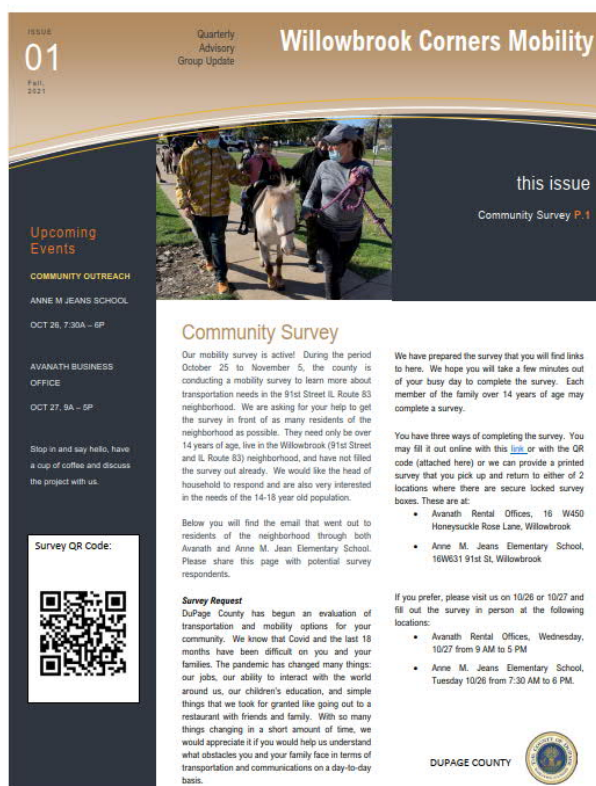


Secure Bike and Scooter Storage
Protects bicycles and scooters in public areas with bike and scooter recharging options.



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



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](#)

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Survey Major Findings

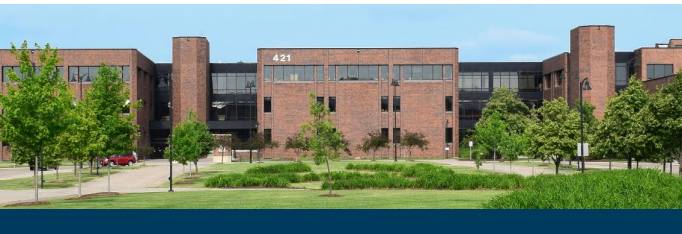
Survey Respondents replied:

- 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

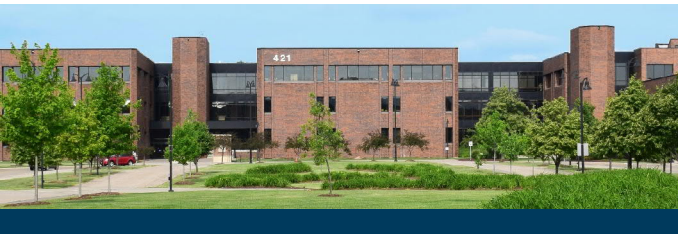




Survey Findings and Implications - 1

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 th 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

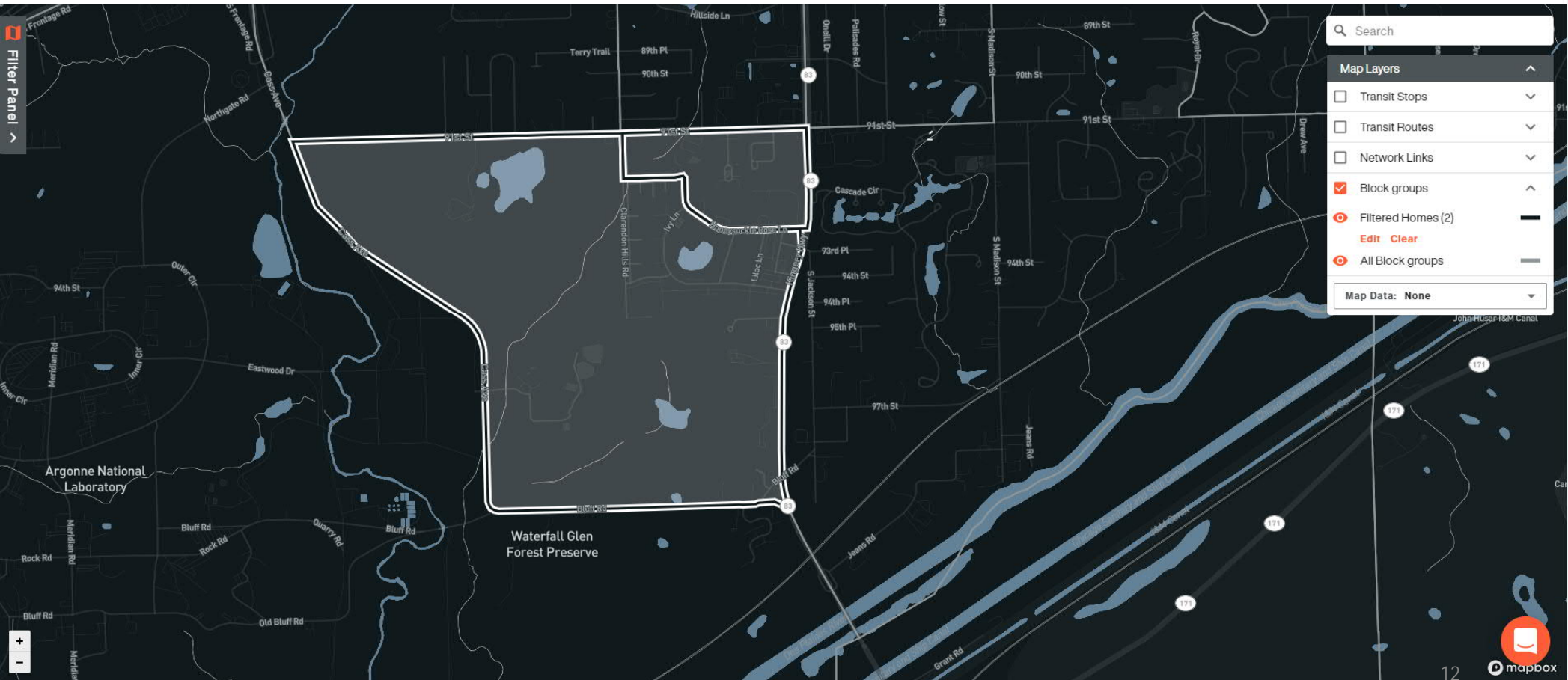


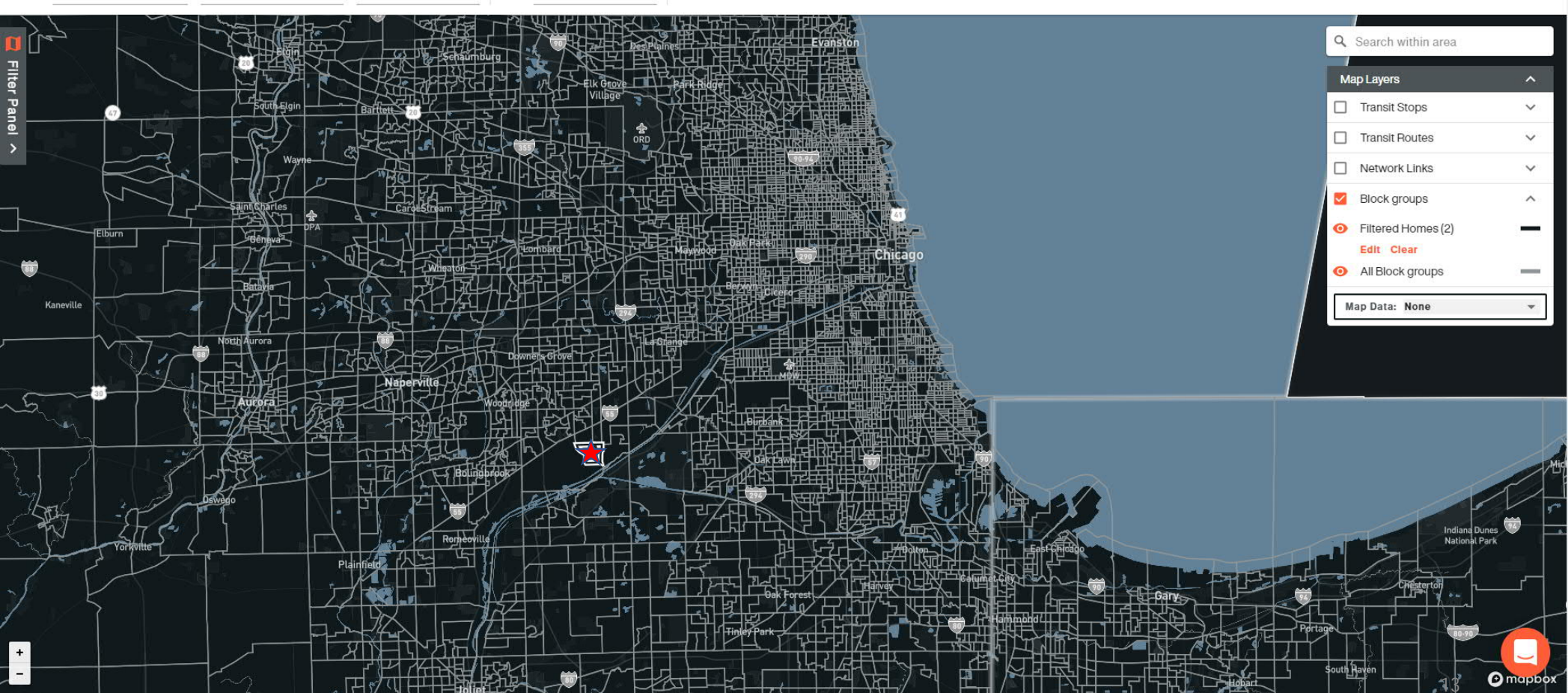


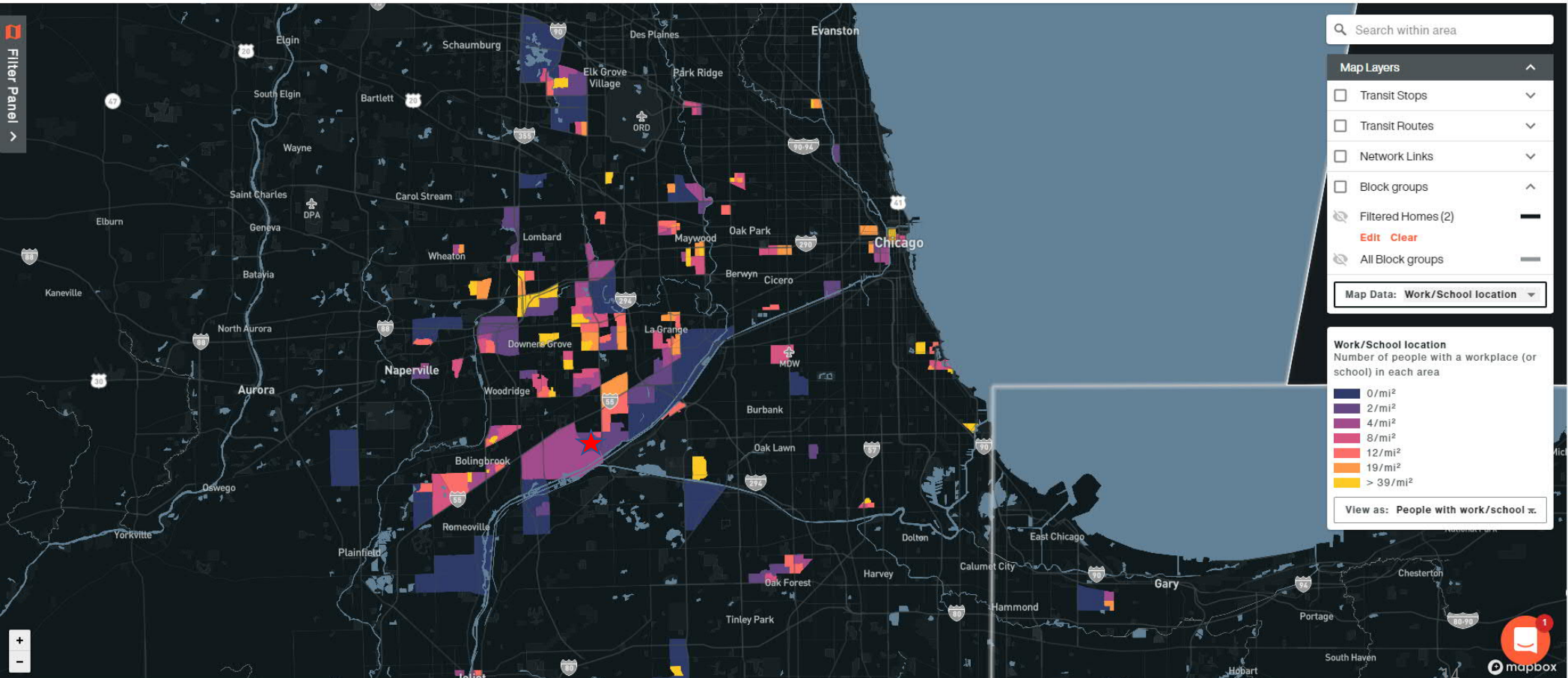
Replica Travel Pattern Data

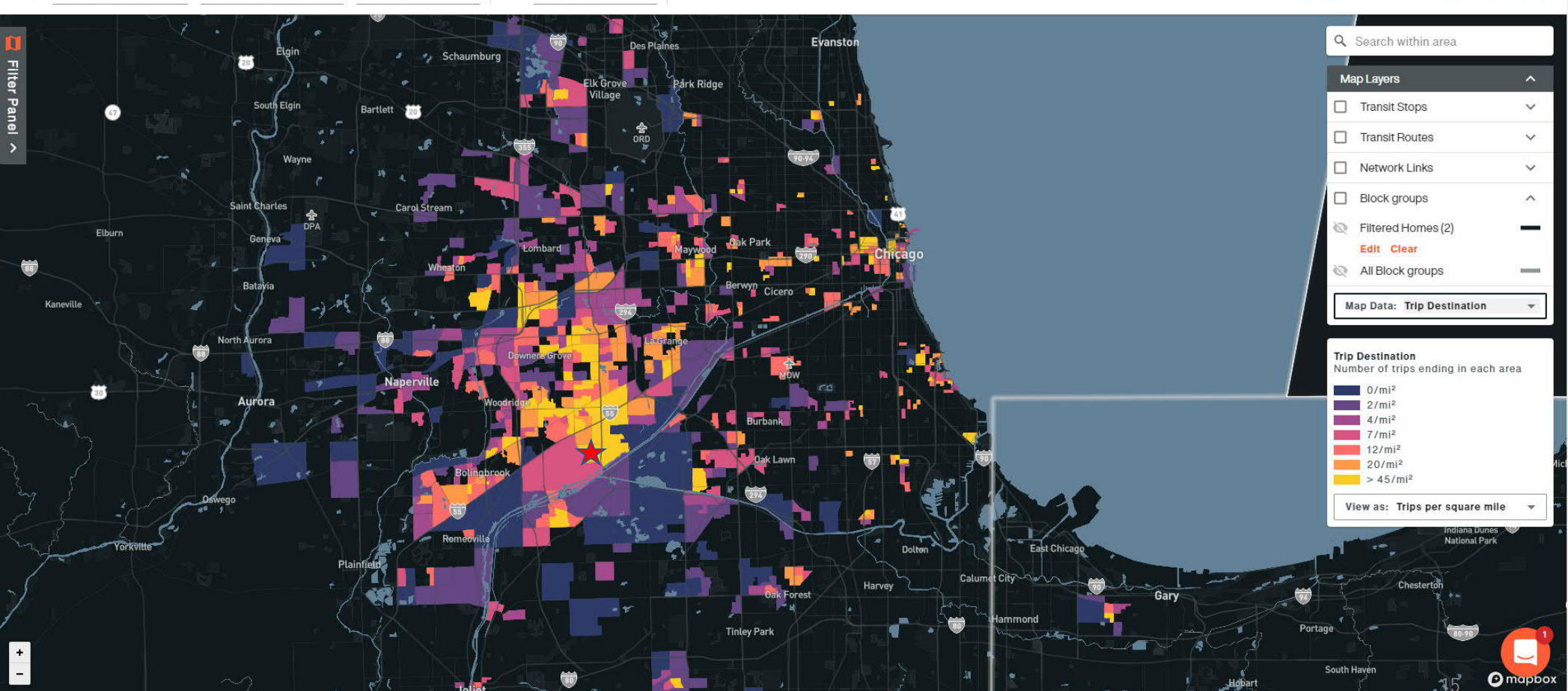
- Replica data is a “big data” source that captures trip origins and destinations - this data is from an average Thursday in fall of 2019.
- The value of Replica is to get a sense of travel patterns so that mobility solutions can follow from them.

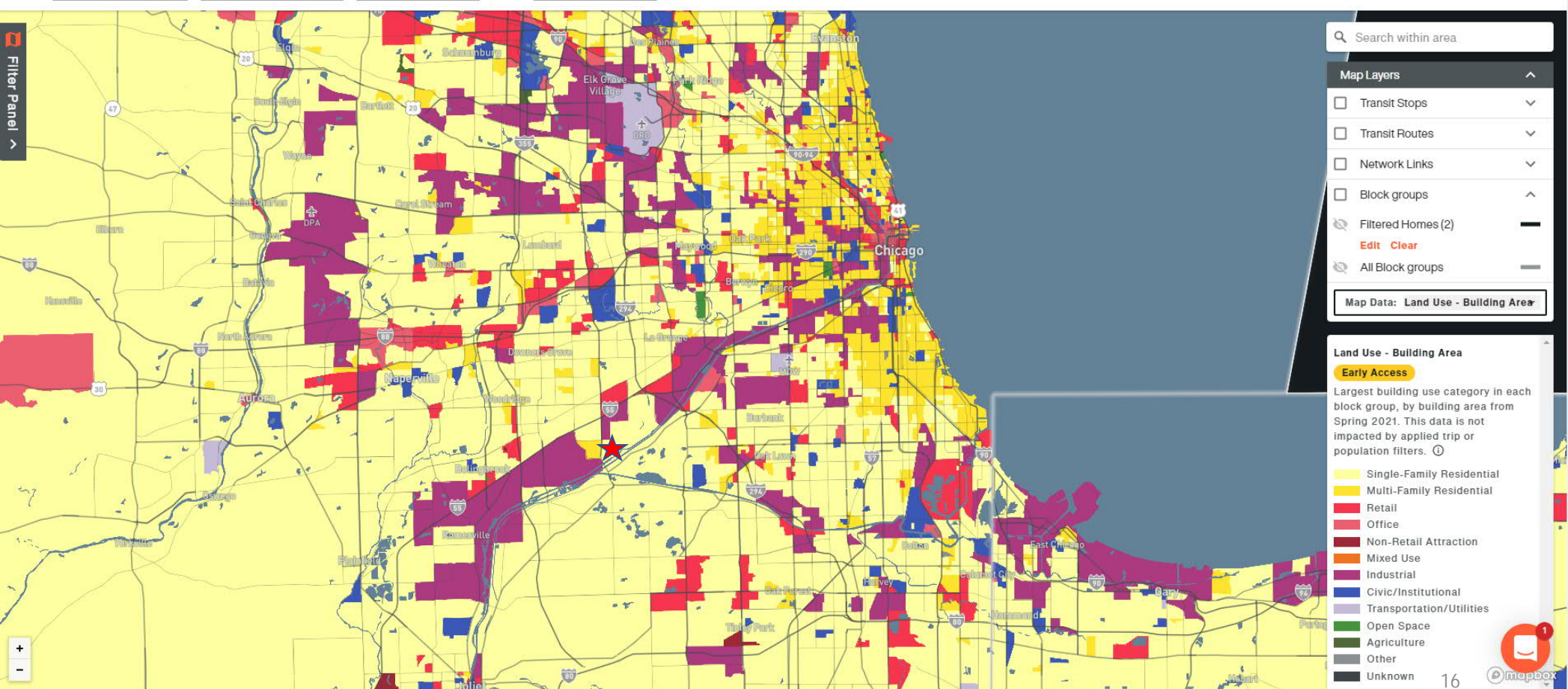














Findings from Replica

- 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



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Mobility Options – Van Pools

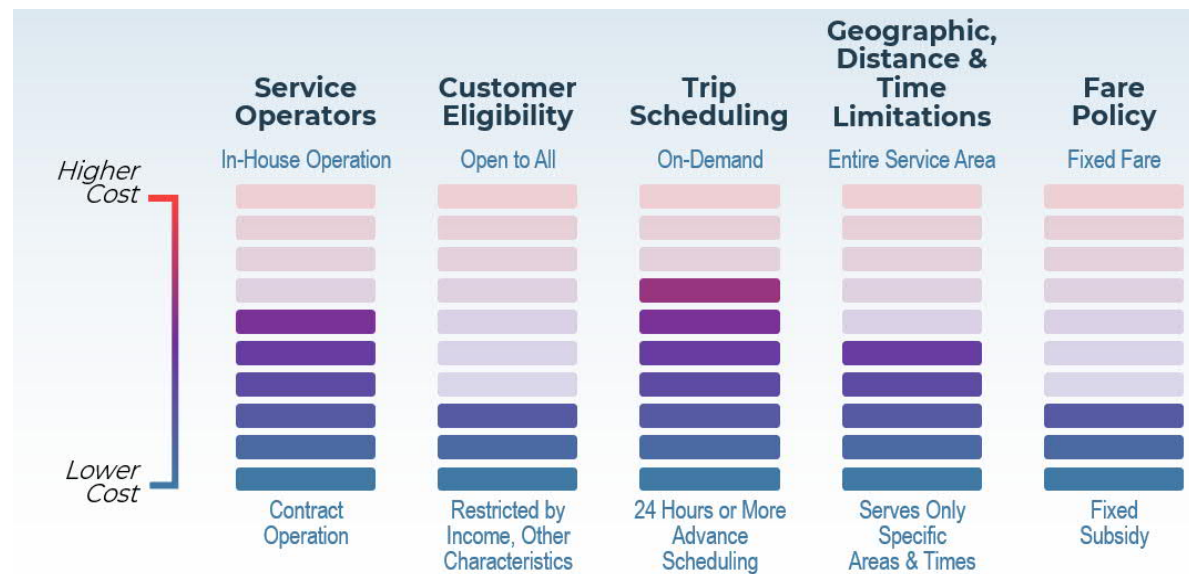
- Pace Vanpool Program
 - Pace supplies vehicle, covers cost of fuel, tolls, insurance, maintenance, roadside assistance
 - Pace Rideshare Matching Tool helps to group individuals with similar origin areas, destinations for efficient pooling
 - Monthly fare based on distance, number of pool members
 - 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

