ON TO 2050

Non-Motorized Transportation Snapshot
CMAP Land Use Committee

February 15, 2017

CMAP

Phase 1 Research

- Snapshot background
- Phase 1 Research Questions and initial findings
  - Bicycle facilities , policies, and programs
  - Pedestrian facilities, policies, and programs
  - Equity
  - Safety
  - Economic Development
- Discussion

Overview – Purpose and structure of snapshot

- Provide an overview of existing conditions and trends in non-motorized transportation in the region, focusing on trends and developments since 2010.
  - Phase 1: Analysis of broad trends in bicycling and walking, equity, safety and economic development
  - Phase 2: Detailed analysis of NMT trends and growth areas, walkability indicators
- Draw upon and support other ON TO 2050 development work
- Review and update pertinent GO TO 2040 indicators

Overview – Related ON TO 2050 work

Strategy papers

- Transportation System Funding
- Transit Modernization
- Reinvestment and Infill
- Traffic Safety

Other Snapshot reports

- Travel Trends
- Transportation Network
- Demographics
- Infill and TOD

Overview – Scope

Phase 1: Analysis of broad trends (Dec. 2016 – Feb. 2017)

Phase 2: Detailed analysis of NMT trends and growth areas, walkability indicators
(Feb. – Apr. 2017)

Phase 3: Draft the snapshot (Apr. – Jun. 2017)

Key Research Questions – Bicycling

Bicycle Facilities, Policies, Programs

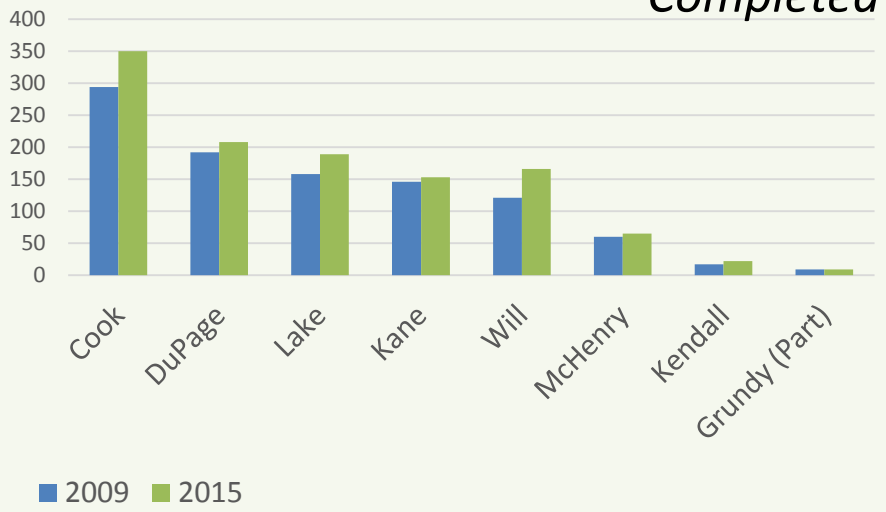
- How have regional bicycle facilities been expanded since 2010?
- Are there new facility designs that are increasing in popularity ?
- What policies and programs are supporting growth in bicycle travel?

Credit: David Wilson, Flickr Creative Commons

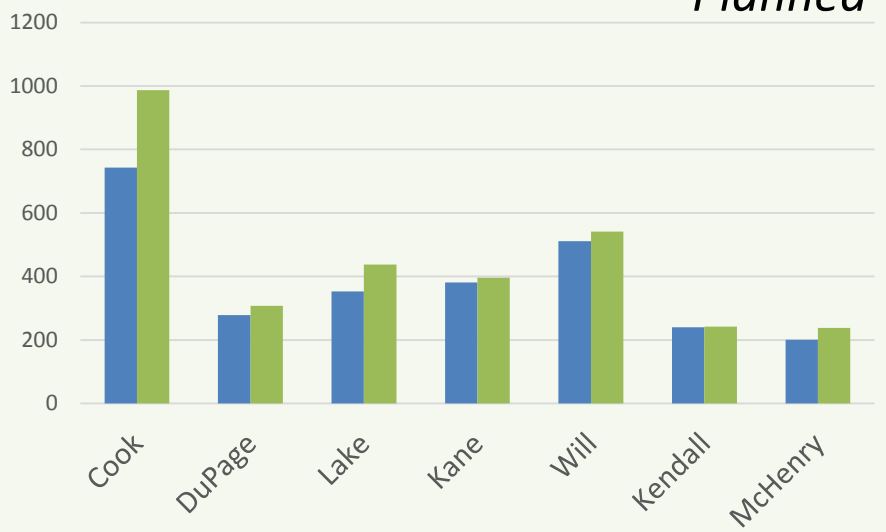
Credit: CDOT

Regional Greenways and Trails (2009 and 2015)

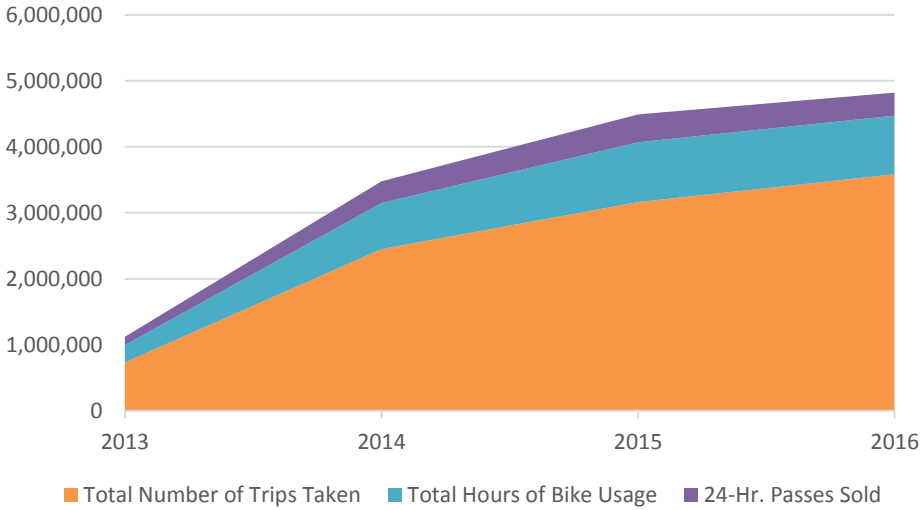
Completed



Planned



Divvy Metrics



Bicycle Friendly Communities

Prior to 2012	2012	2013	2014	2015	2016
Chicago	**Evanston**	**Batavia**		**Glenview**	*Evanston*
Schaumburg		**Elmhurst**		**Oak Park**	*Schaumburg*
Naperville		*Naperville*		**Warrenville**	**Aurora**
				Chicago	**Highland Park**
					Glen Ellyn

Silver	*Renewed*
Bronze	
Honorable mention	

Key Research Questions – Pedestrian facilities

Pedestrian Facilities, Policies, Programs

- Have there been innovations in pedestrian treatments in the region since 2010?
- How are communities improving ADA accommodations?

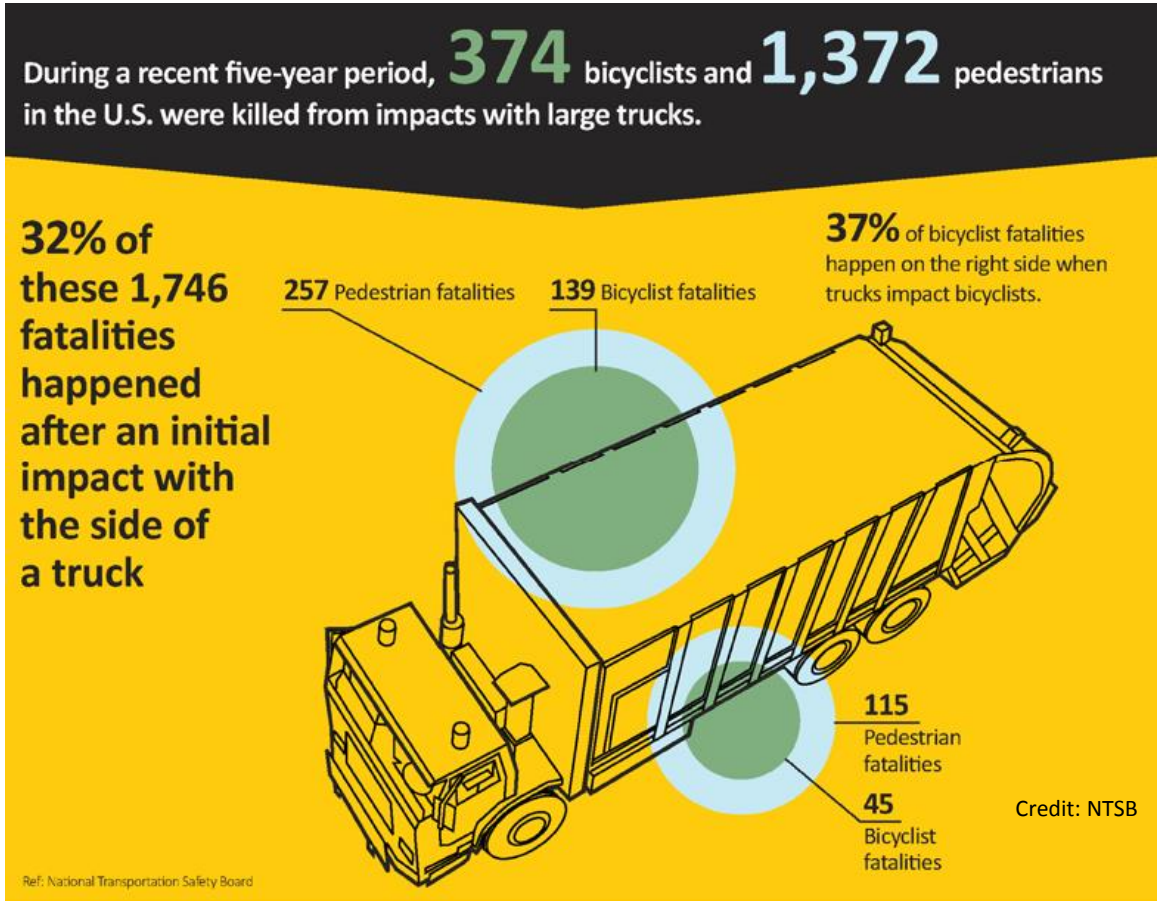
Credit: Eli Naeher

Credit: 48th Ward

Key Research Questions – Crashes and Safety

Crashes and Safety

- How have conditions and safety for non-motorized transportation changed?



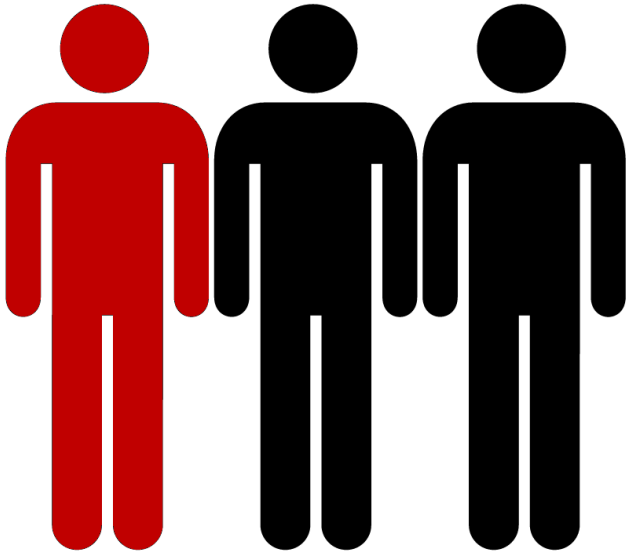
Credit: NTSB

Crashes

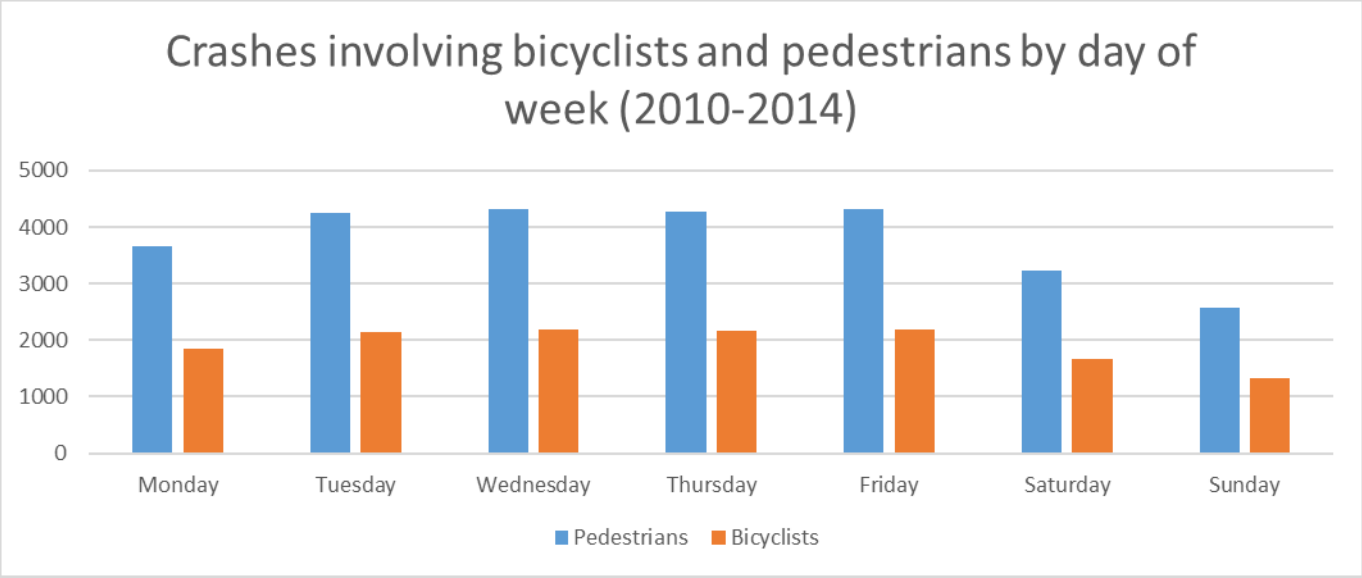
- Between 2010 and 2014, an average of

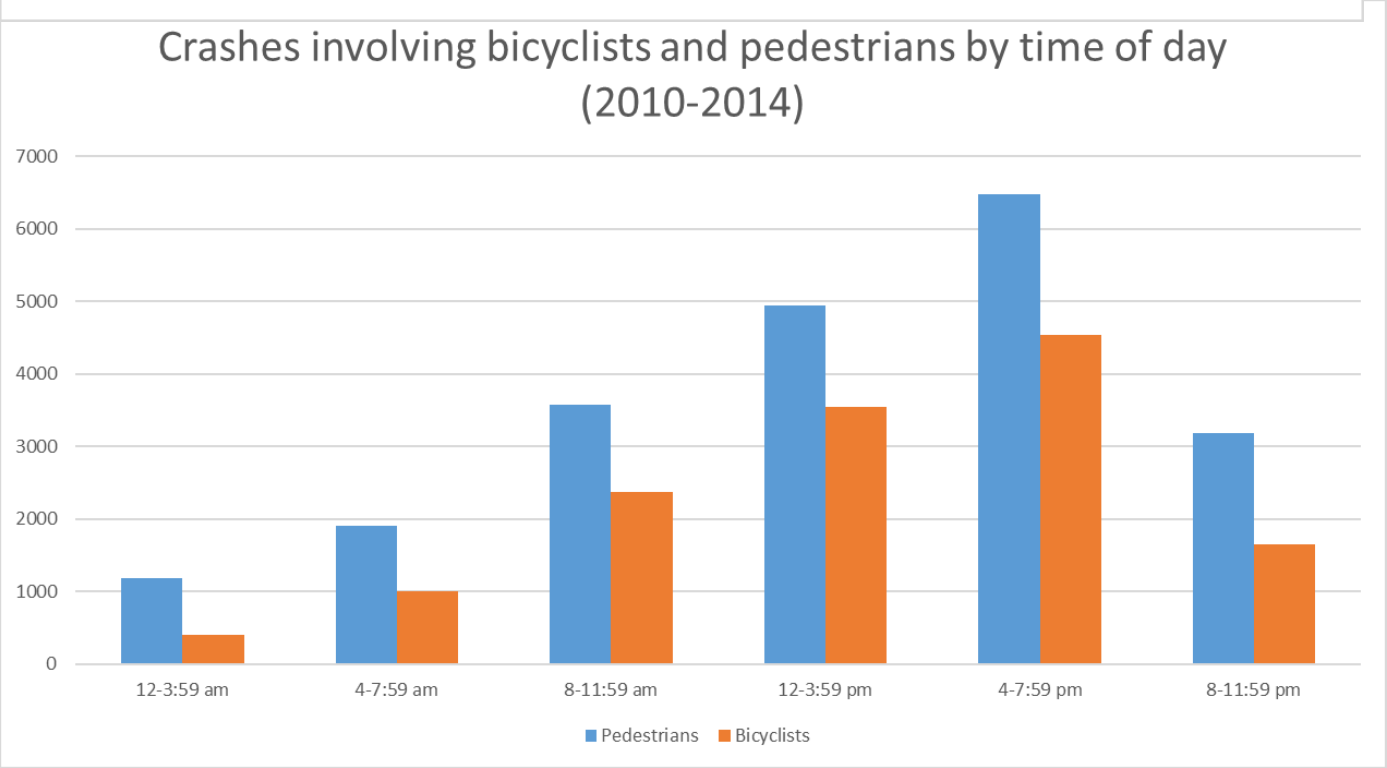
  3 people in our region have been killed or seriously injured while walking or biking

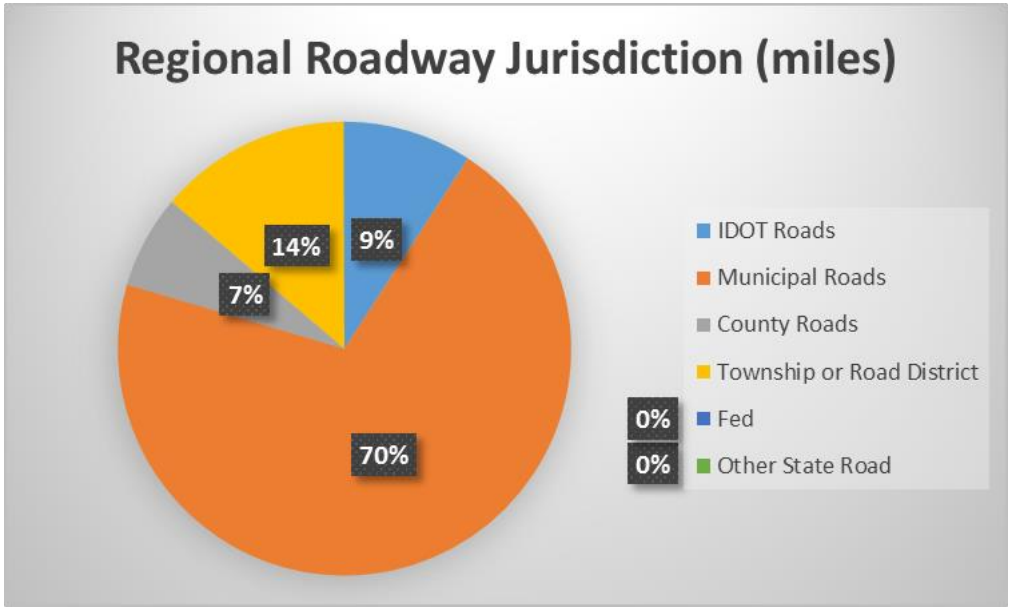
  every day.

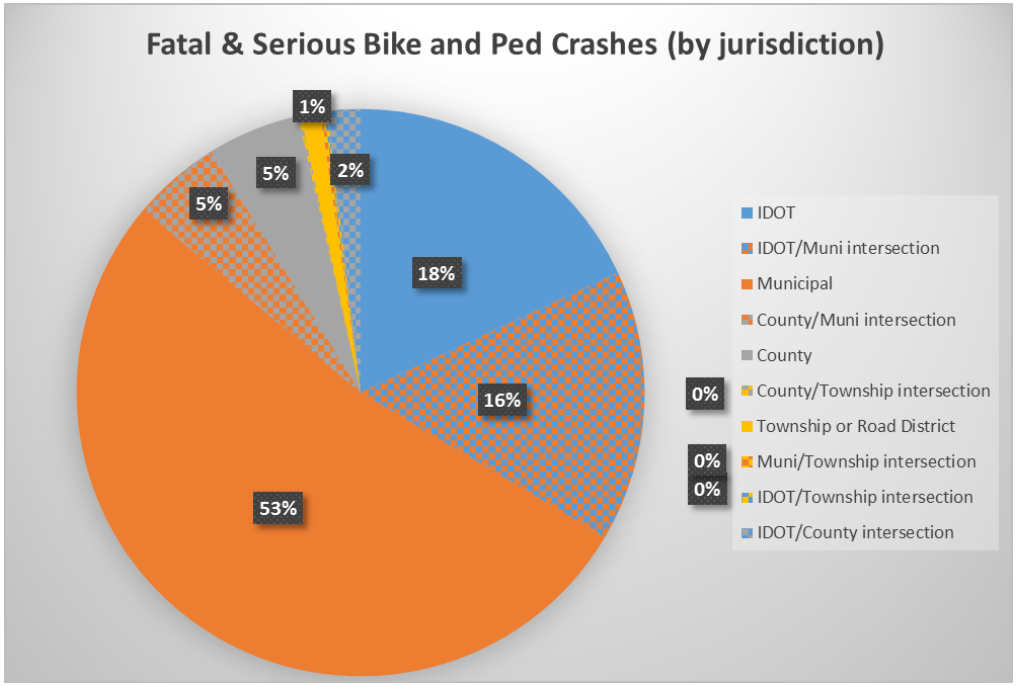


Crashes


Crashes involving bicyclists and pedestrians by day of week (2010-2014)
5000
4000
3000
2000
1000
0
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday
Pedestrians
Bicyclists


Crashes involving bicyclists and pedestrians by time of day (2010-2014)
7000
6000
5000
4000
3000
2000
1000
0
12-3:59 am
4-7:59 am
8-11:59 am
12-3:59 pm
4-7:59 pm
8-11:59 pm
Pedestrians
Bicyclists


Regional Roadway Jurisdiction (miles)
9%
70%
7%
14%
0%
0%
IDOT Roads
Municipal Roads
County Roads
Township or Road District
Fed
Other State Road

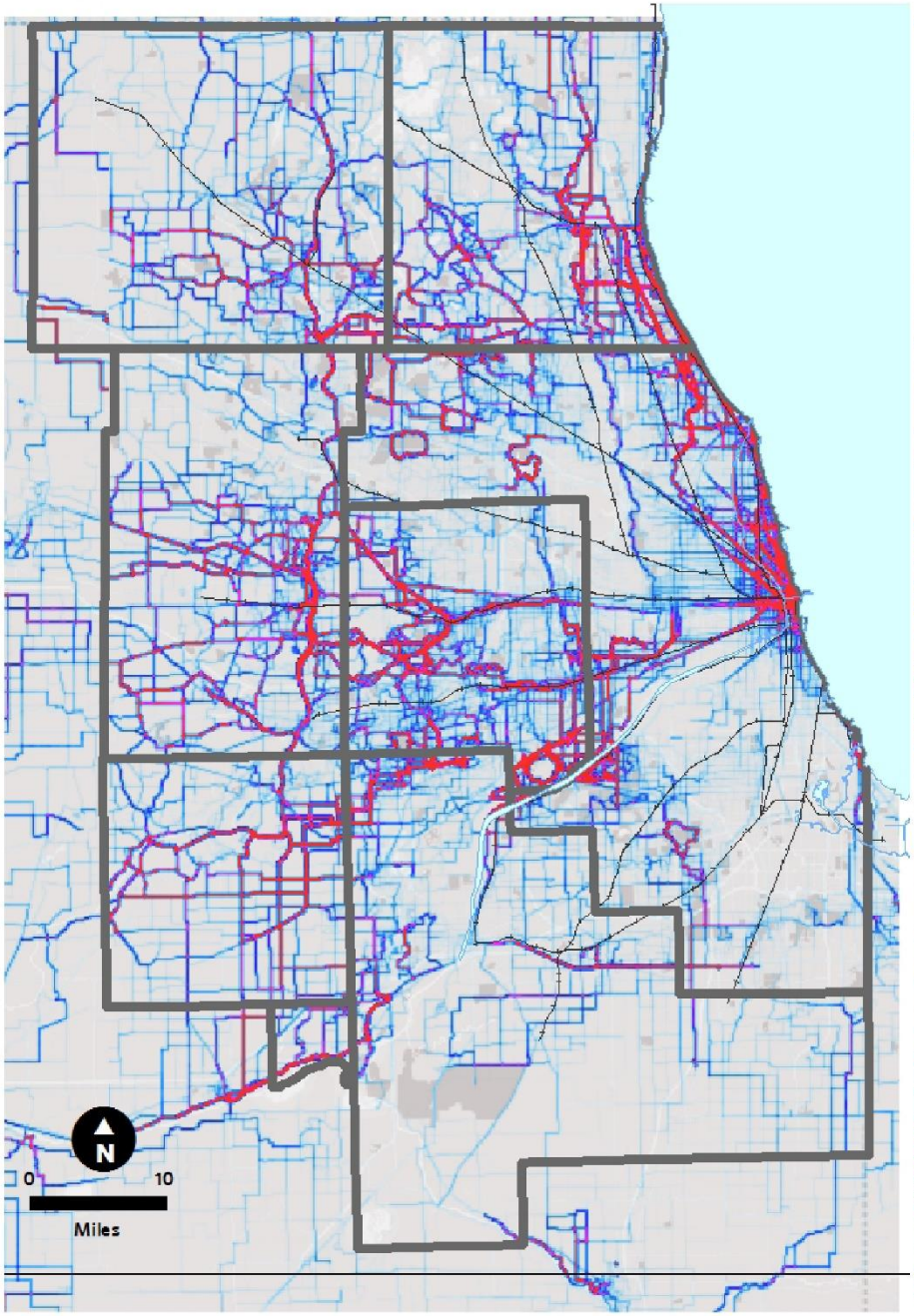

Fatal & Serious Bike and Ped Crashes (by jurisdiction)
1%
2%
5%
5%
18%
16%
53%
0%
0%
0%
IDOT
IDOT/Muni intersection
Municipal
County/Muni intersection
County
County/Township intersection
Township or Road District
Muni/Township intersection
IDOT/Township intersection
IDOT/County intersection

Key Research Questions – Equity

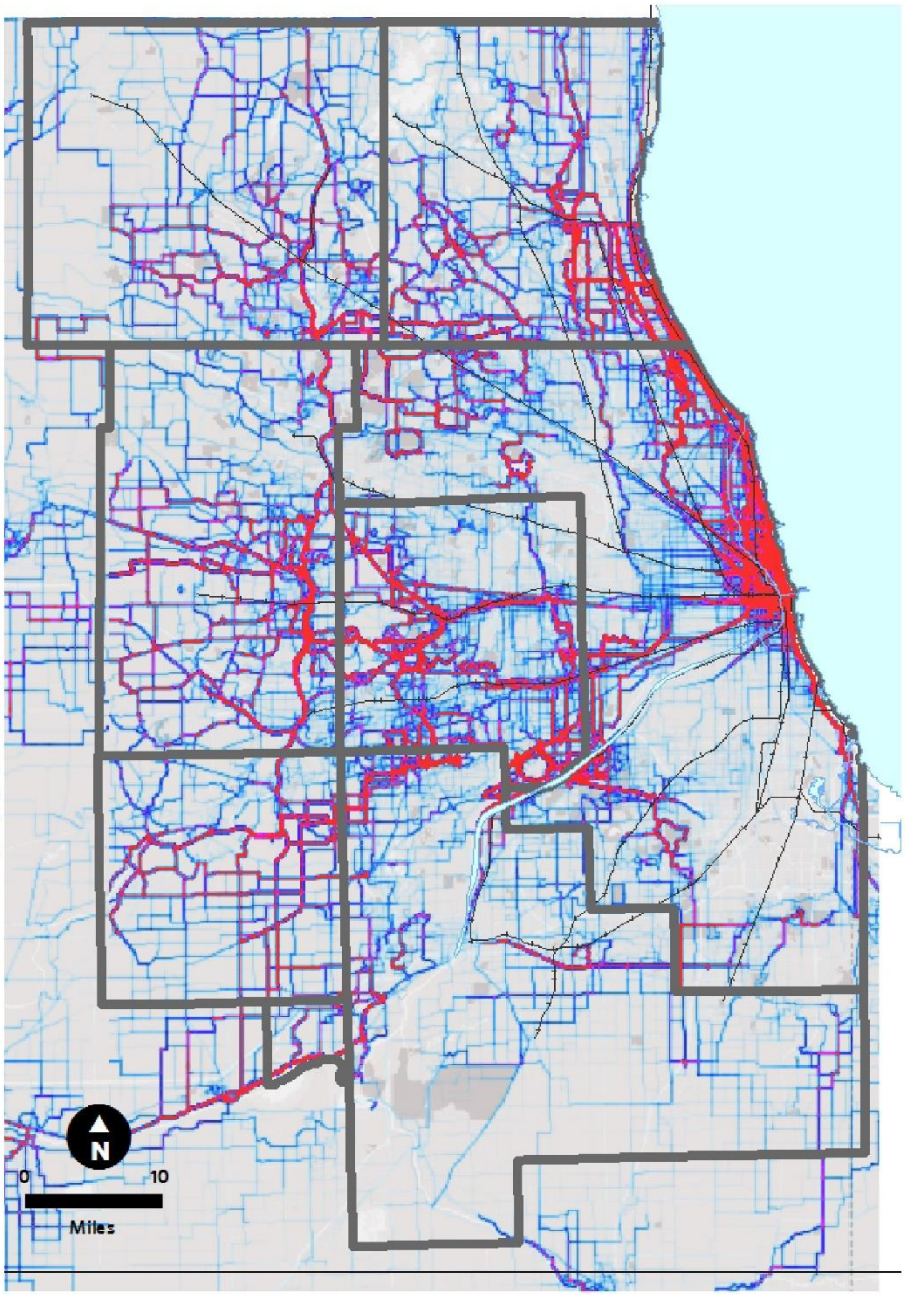
Equity

- Are there demographic trends reflected in safety for people walking and biking, such as income levels, race and ethnicity, population density, mode share breakdown?
- Where are crashes occurring?

2014 Strava data



2015 Strava data



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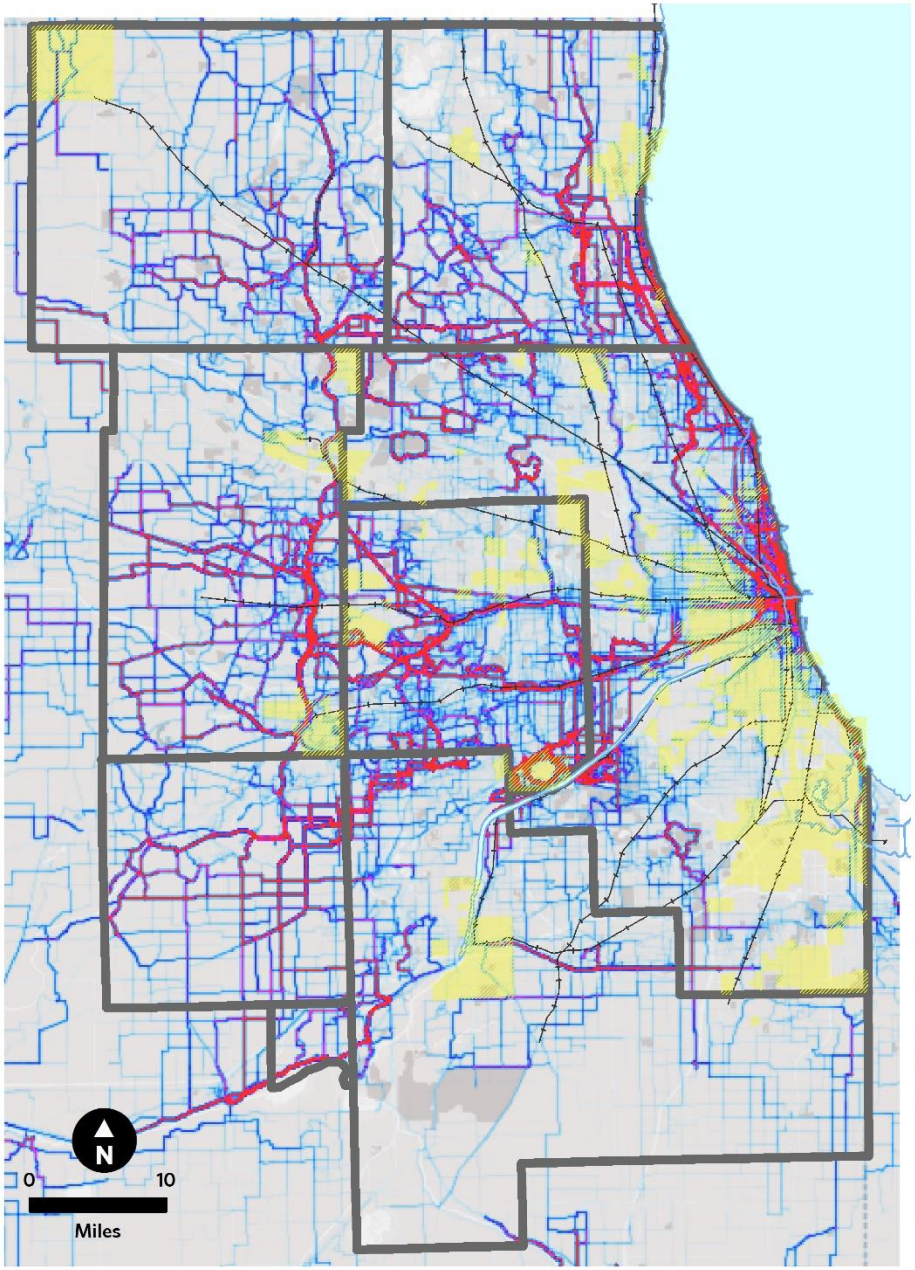

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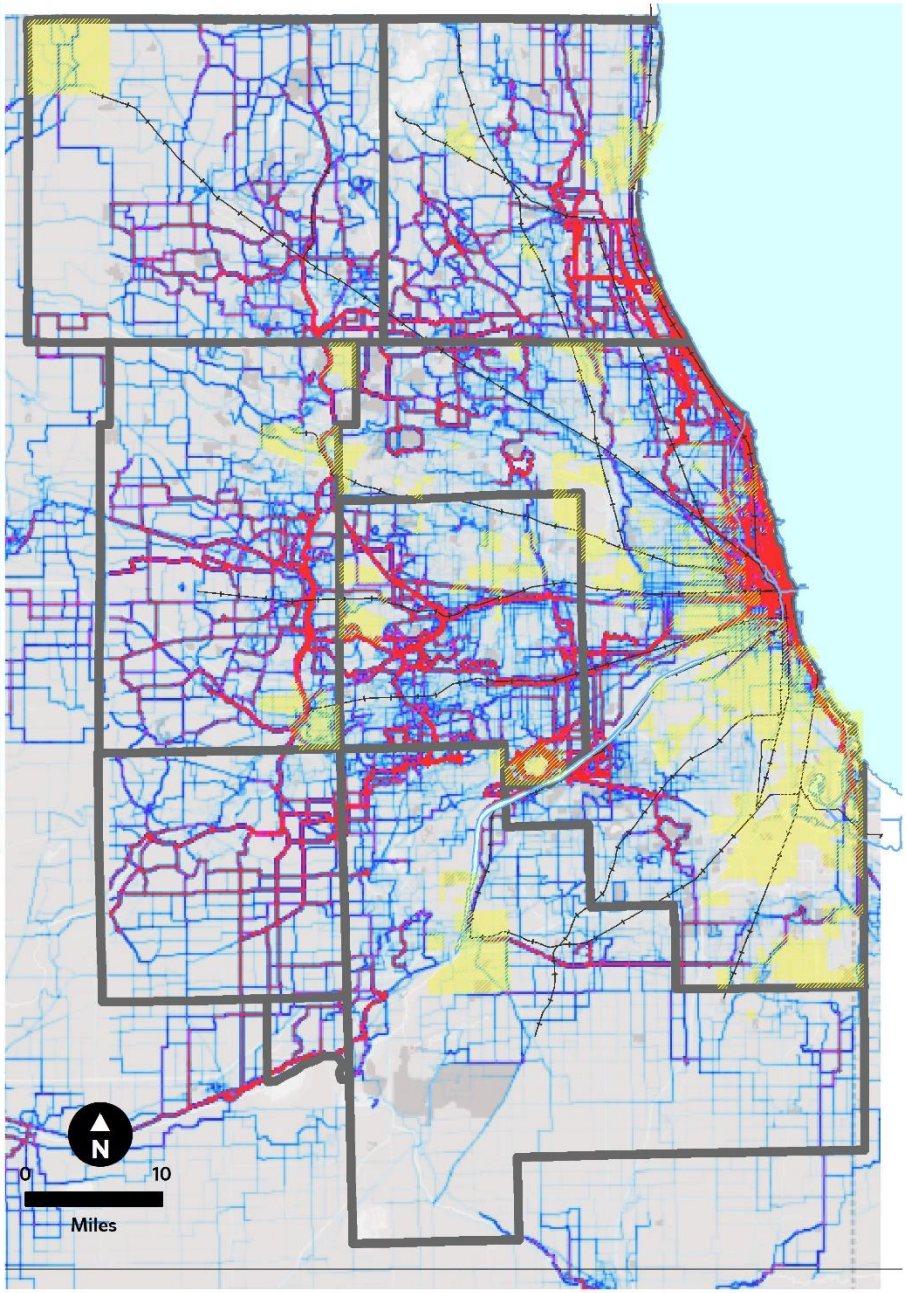

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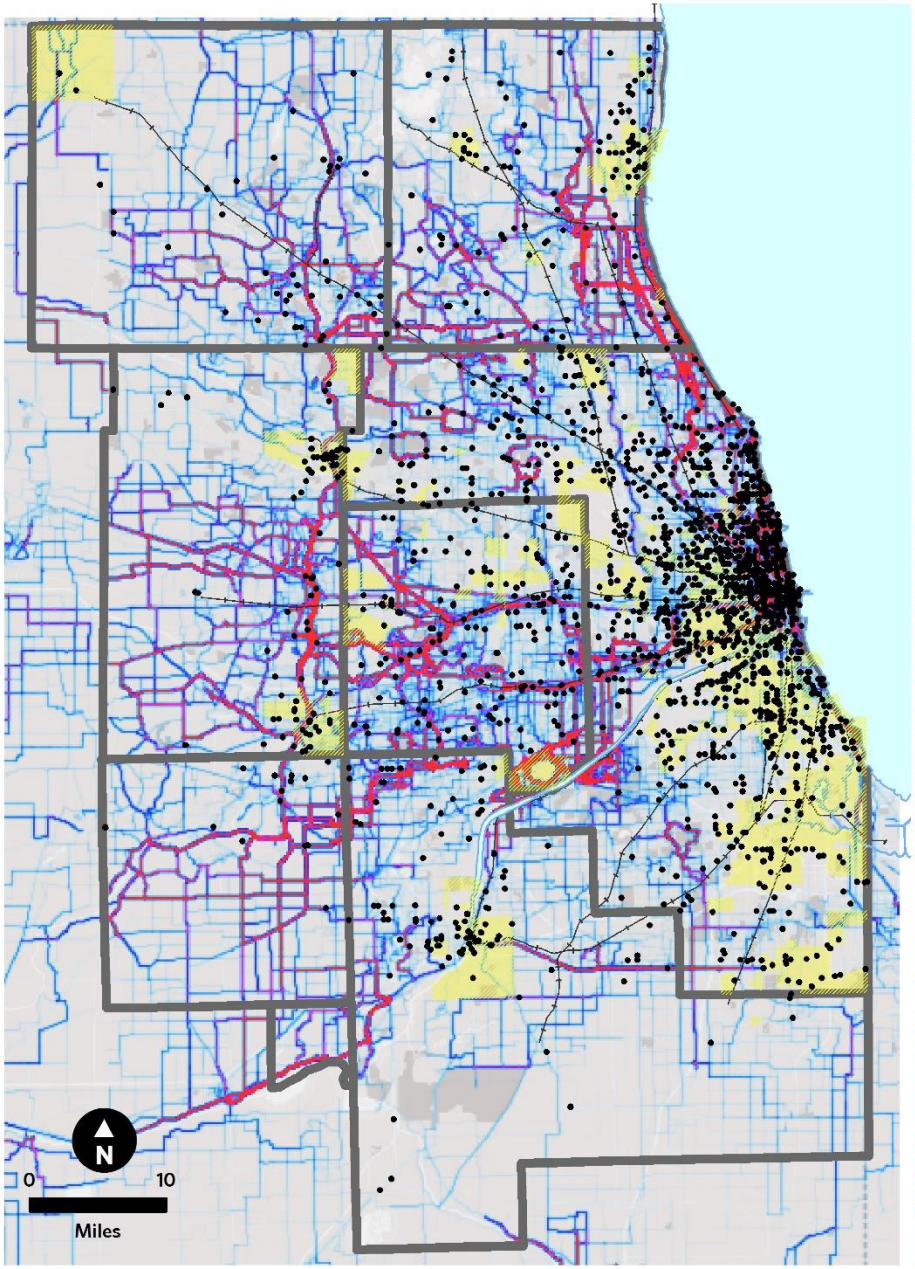

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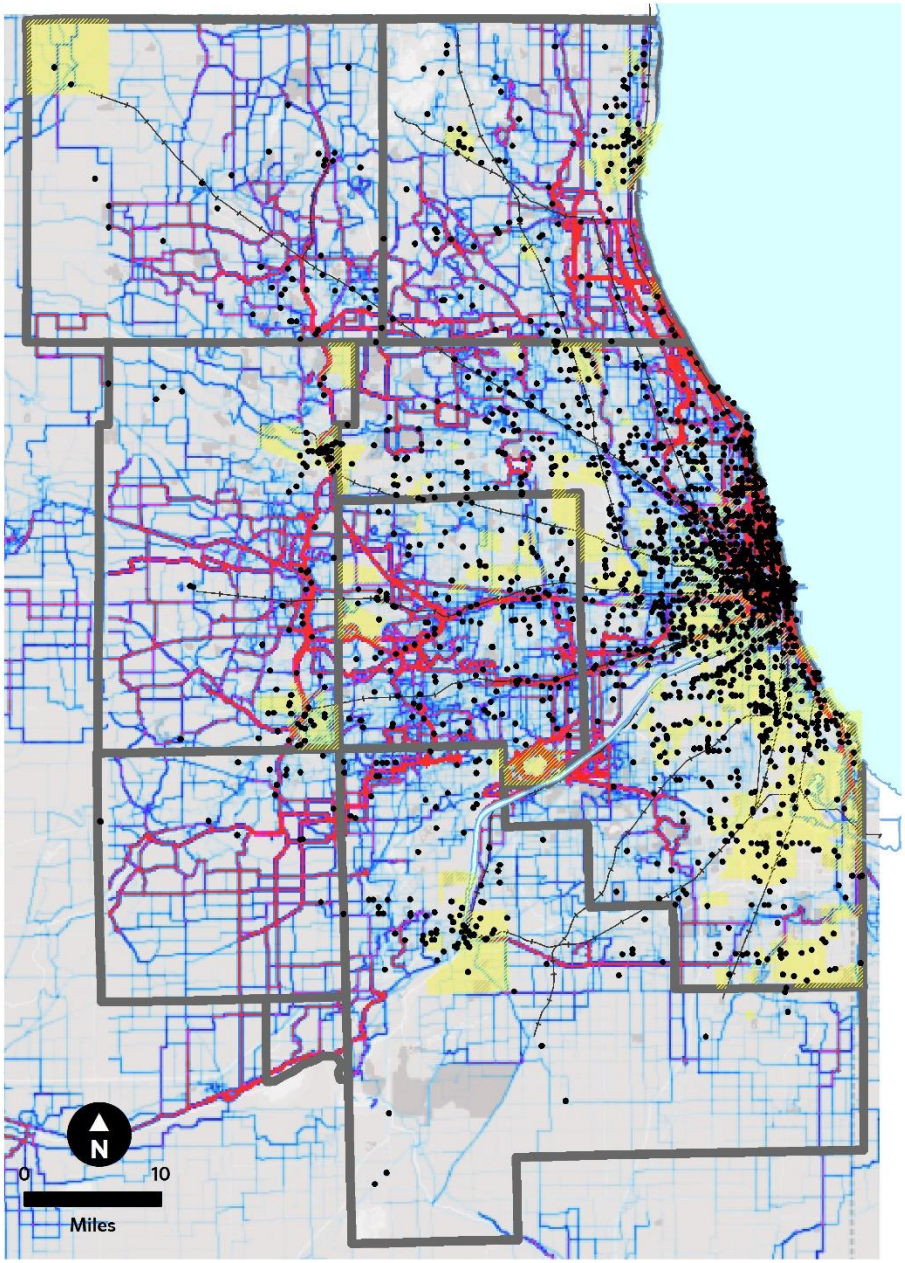


Key Research Questions – Economic Development

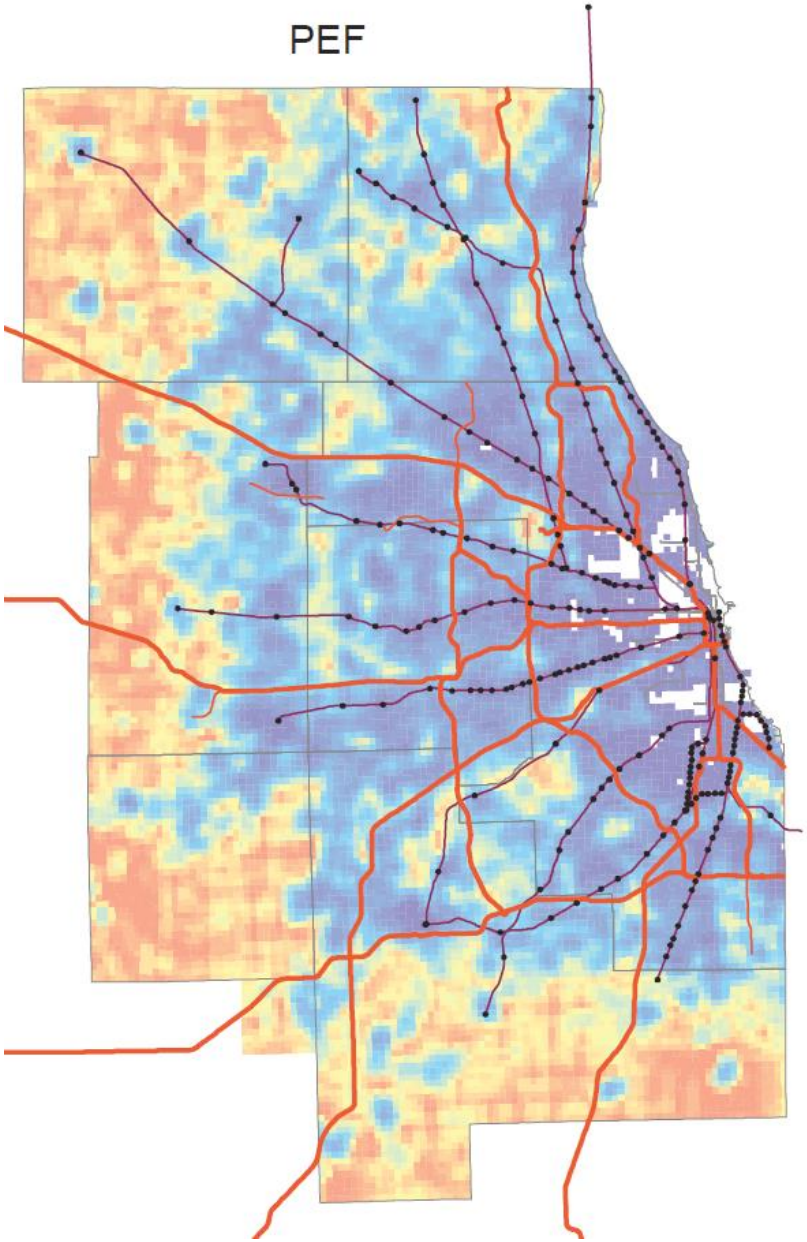
Economic Development tool

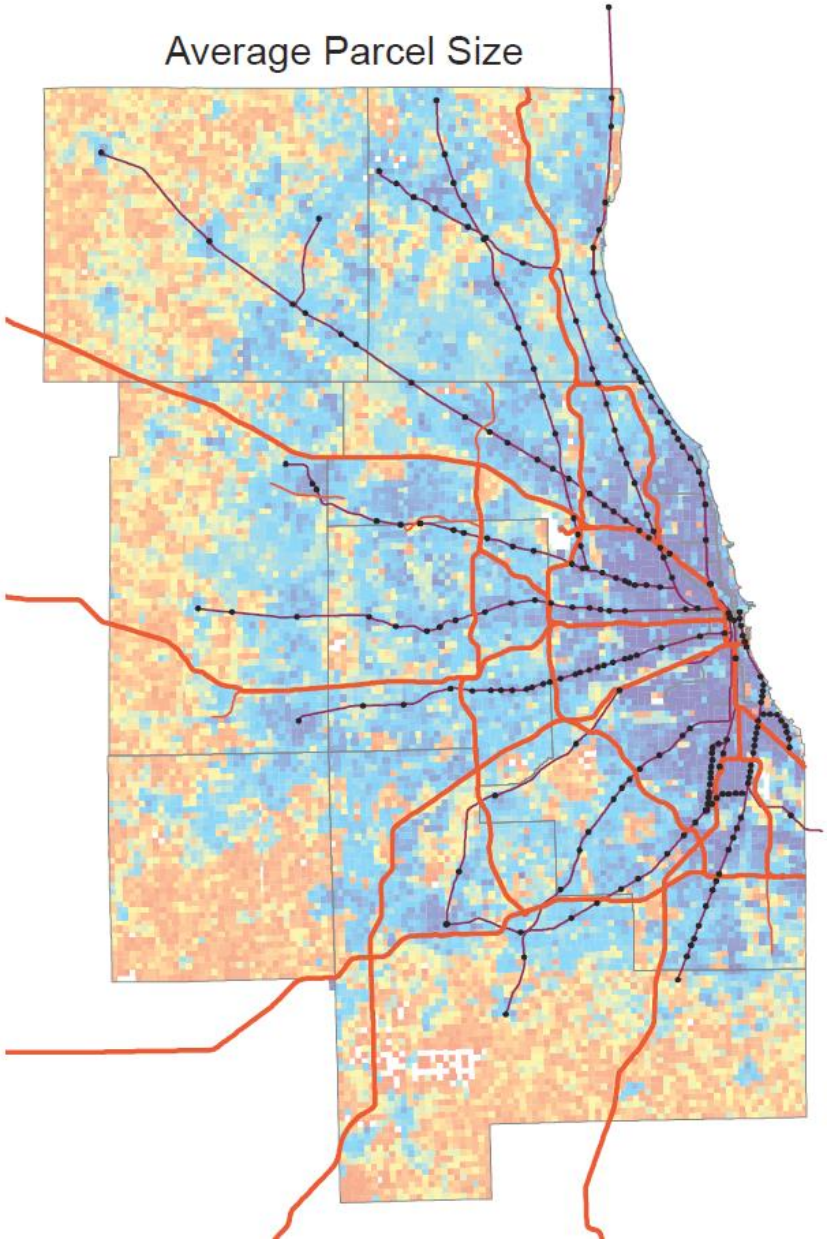
- Are any local communities using non-motorized transportation to support transit usage or economic development goals?
- How do they (plan to) measure success?

Phase 2 Research Questions

- Where have Complete Streets initiatives been implemented? What success have they had? How do you measure success?
- What are the important elements of walkability?
- How has bike share impacted cycling in Chicago and the region and what are implications for other communities?
- What are the biggest challenges to roadway safety for pedestrians and bicyclists, and what solutions have been most effective (engineering, education, enforcement, etc)?
- What are the lessons learned regarding safety initiatives and infrastructural changes to support better walking and biking? Will automated safety features address concerns or raise new ones?

Parcel Size and PEF





Data sources and challenges

- IDOT crash data
- CMAP's inventory of facilities
- Divvy data
  - Only for Chicago
- Census data
  - MOE too great to be reliable
- Census Transportation Planning Package (CTPP)
  - MOE too great to be reliable
- Strava Labs data
  - Have Cook County, not regional
  - Specific user type, doesn't capture all riders

Outreach and engagement

Engagement

- CMAP Committees: Transportation, Environment & Natural Resources, Land Use
- Bicycle and Pedestrian Task Force
- IDOT, Ride Illinois, Chicagoland Complete Streets Coalition
- Additional local groups

ON TO 2050

Feedback

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CMAP