Non-Motorized Transportation Snapshot CMAP Environment & Natural Resources Committee

June 1, 2017



- Snapshot background
- Phase 1 Research Questions and initial findings
  - Bicycle facilities , policies, and programs
  - Pedestrian facilities, policies, and programs
  - Equity
  - Safety
  - Economic Development
- Phase 2 findings
  - Fundamentals of walkability



- 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



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?



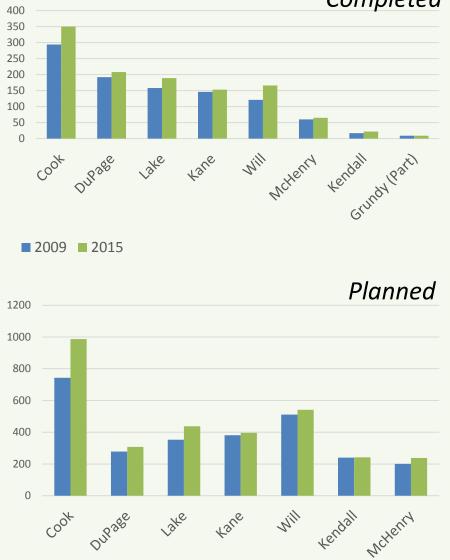
### **On-street facilities**

Evanston: Protected Bikeway	Aurora: Protected Bikeway	Chicago: Protected Bikeway		
Credit: David Wilson, Flickr	Credit: CMAP staff	Credit: CDOT		
Creative Commons				
Chicago: Buffered Bicycle Lane	Chicago: Protected Intersection	Chicago: Through-lane marking		
Credit: Active Transportation Alliance	Credit: John Greenfield (Streetsblog)	Credit: DNAinfo/Tanveer Ali		

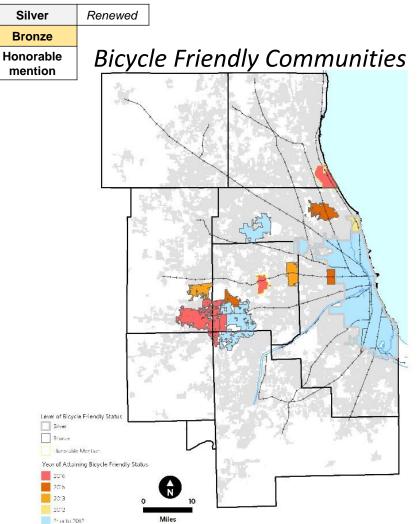


#### **Regional Greenways and Trails** (2009 and 2015)

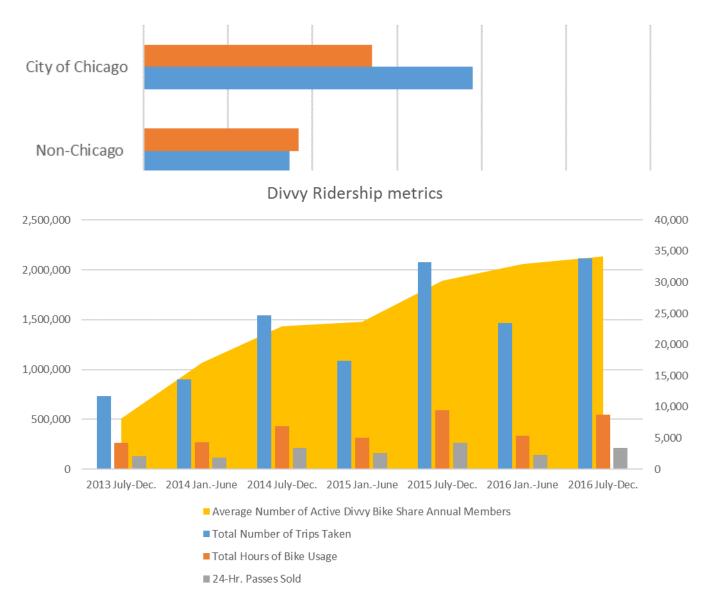
Prior to 2012	2012	2013	2014	2015	2016
Chicago	Evanston	Batavia		Glenview	Evanston
Schaumburg		Elmhurst	1	Oak Park	Schaumburg
Naperville		Naperville		Warrenville	Aurora
	1		1	Chicago	Highland Park
					Glen Ellyn
0"	- ·	1			



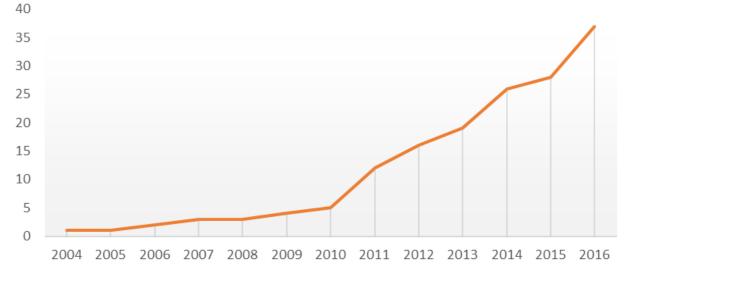
#### Completed



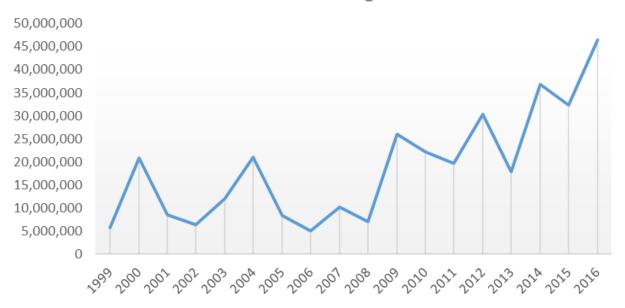
#### Number of bicycle commuters



Total number of adopted Complete Streets Policies, 2004 - 2016







### 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?



Number of walking commuters



#### **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



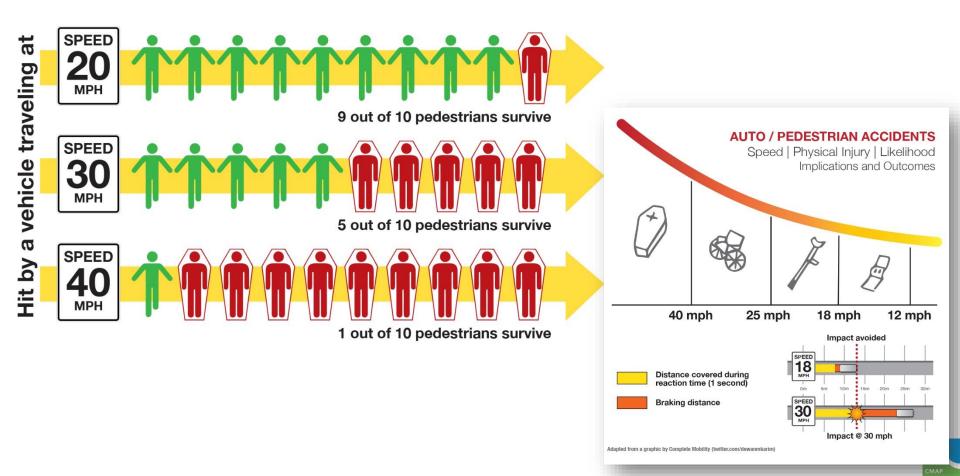
Credit: 48th Ward

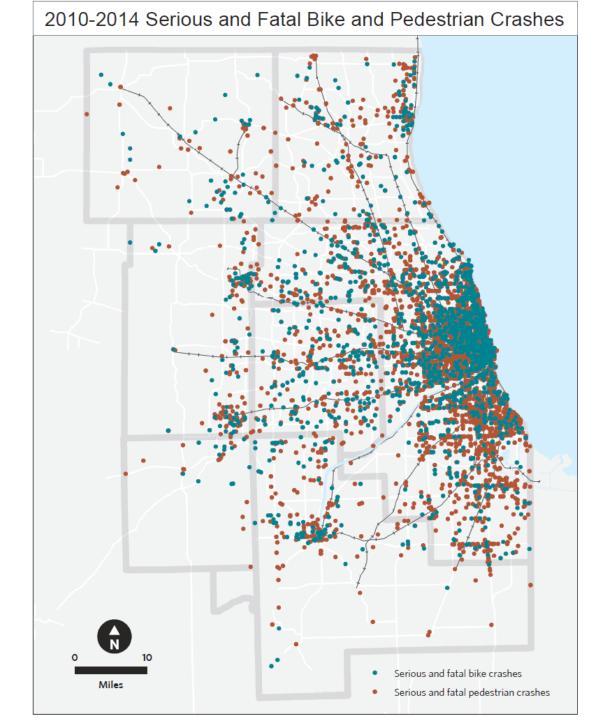


#### **Key Research Questions – Crashes and Safety**

#### **Crashes and Safety**

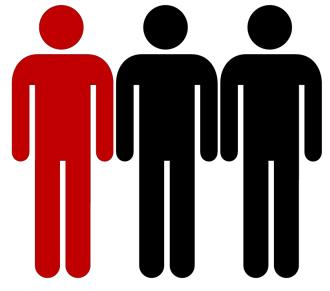
How have conditions and safety for non-motorized transportation changed?





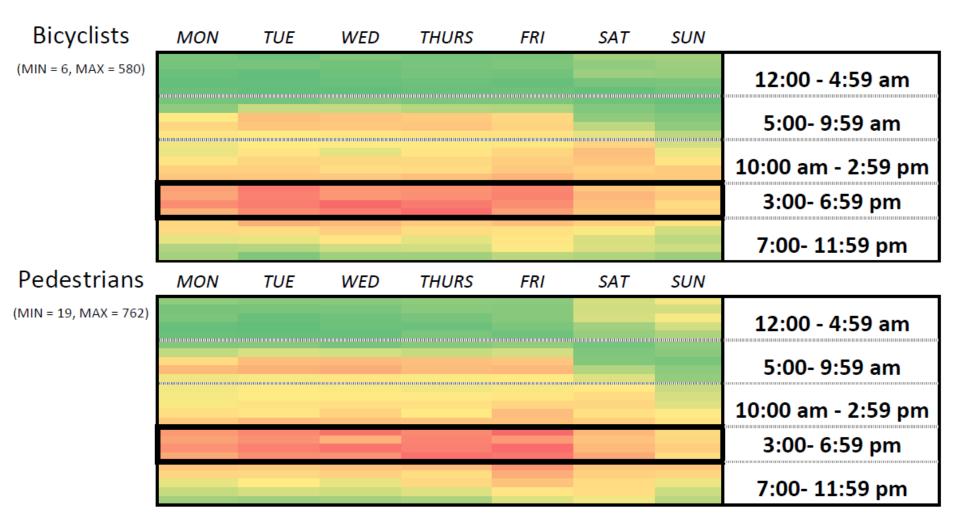
Between 2010 and 2014, an average of

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



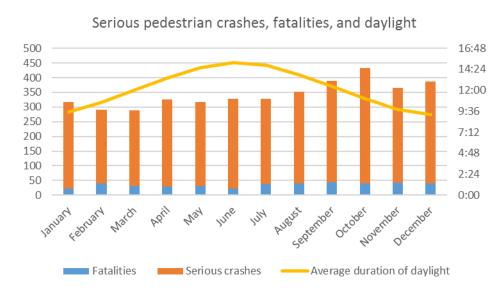


### **High-crash times**





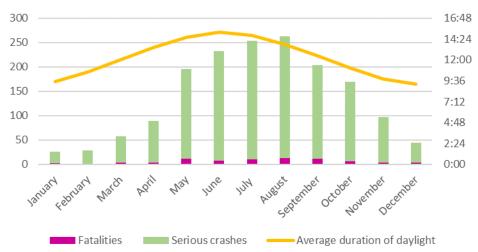
#### Crashes



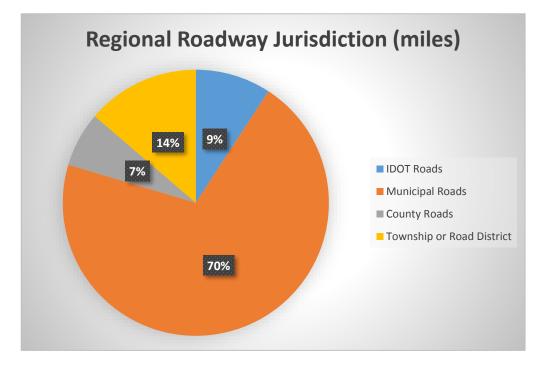


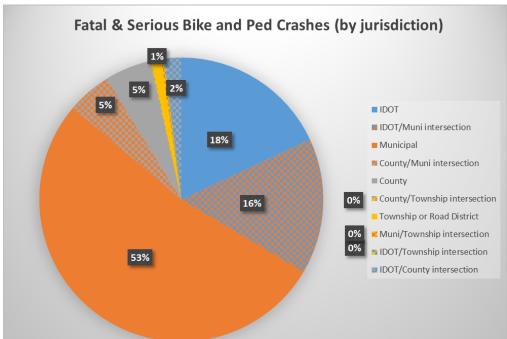


#### Serious bicyclist crashes, fatalities, and daylight









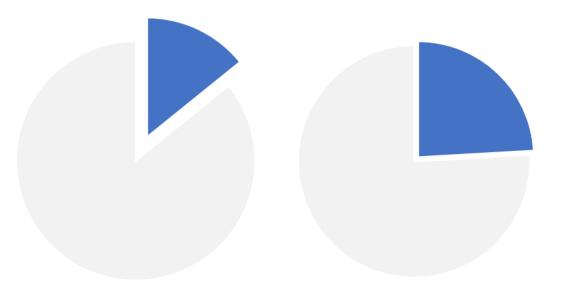
#### Equity

- 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?



### Equity

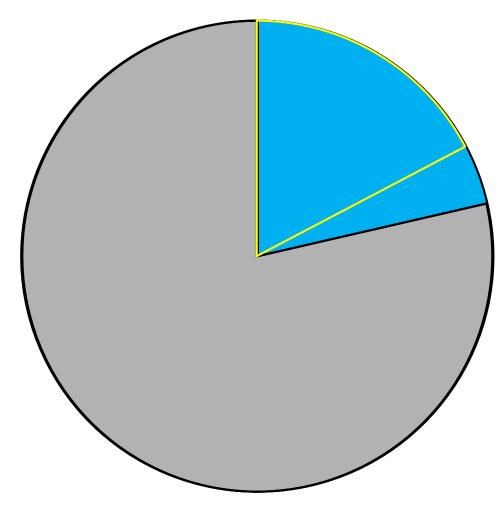
# In Illinois, African-Americans constitute **14.2 percent** of the population



#### and **24.1 percent** of pedestrian deaths.

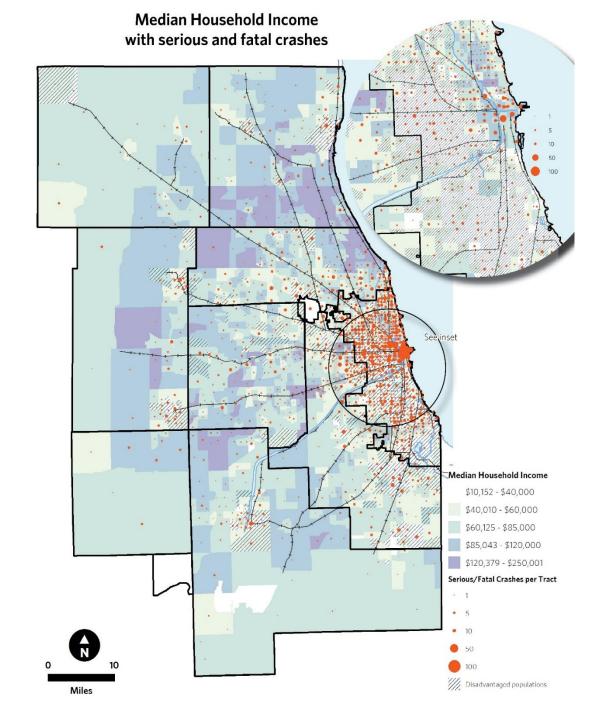


### **Regional crashes**



- 1. Percent Population, Black (2010 Census data) 17.7%
- Percent of all bicycle and pedestrian crashes occurring in majority black census tracts 17.3%
- Percent of all fatal and serious injury bicycle and pedestrian crashes occurring in majority black census tracts 21.4%





### Walkability: Links and places

#### **CHARACTER: A REFLECTION OF PRIORITIES**



Street as a movement conduit

Design objective: Save time PLACE

Street as a destination

Design objective: Spend time



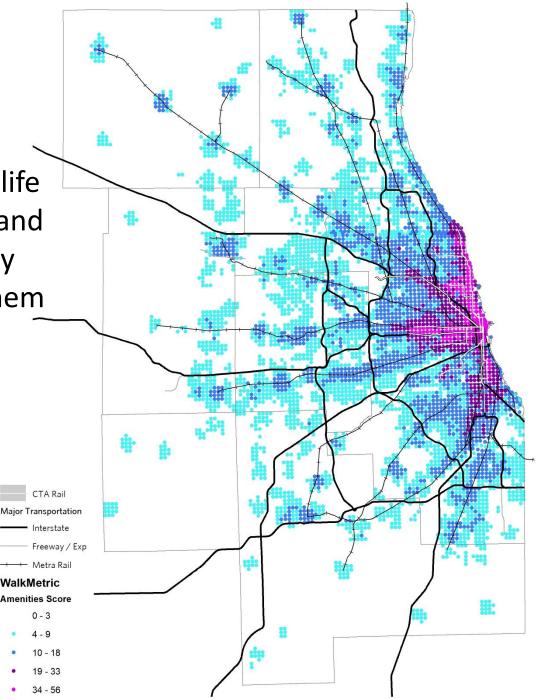


#### Useful

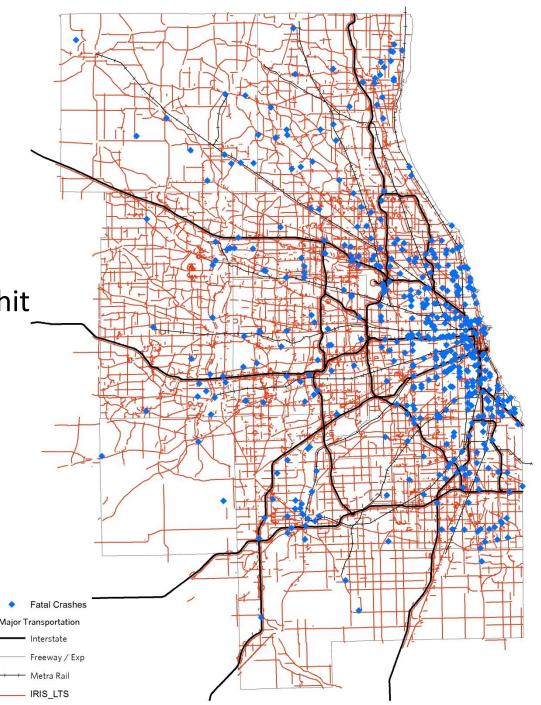
- Most aspects of daily life are located close at hand and organized in a way that walking serves them well.
- Safe
  - The street has been designed to give pedestrians a fighting chance against being hit by automobiles, feels safe.
- Comfortable
  - Buildings and landscape shape urban streets into 'outdoor living rooms,' in contrast to wide-open spaces, which usually fail to attract pedestrians.
- Interesting
  - Sidewalks are lined by unique buildings with friendly faces and that signs of humanity abound.



- Useful
  - Most aspects of daily life are located close at hand and organized in a way that walking serves them well.
  - Supermarkets
  - Libraries
  - Schools
  - Transit

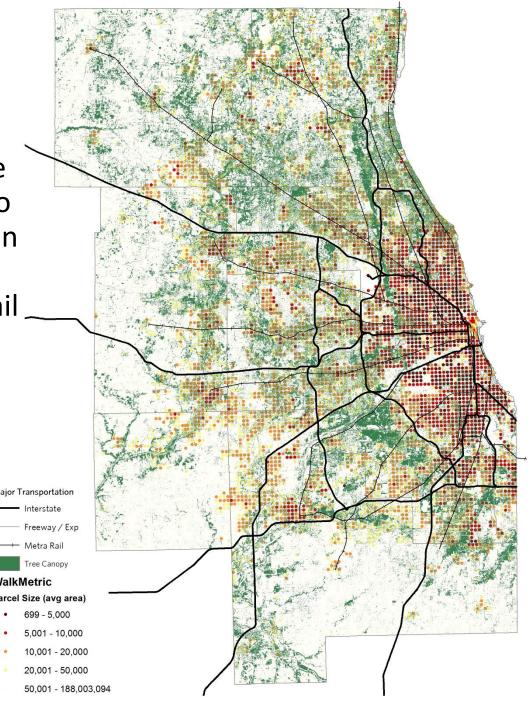


- Safe
  - The street has been designed to give pedestrians a fighting chance against being hit by automobiles, feels safe.
  - Level of Traffic Stress
  - Fatal crashes



#### Comfortable

- Buildings and landscape shape urban streets into 'outdoor living rooms,' in contrast to wide-open spaces, which usually fail \_ to attract pedestrians.
- Tree Cover
- Parcel size
- Block length
- Block size
- Parking spaces
- Intersection density



#### Interesting

- Sidewalks are lined by unique buildings with friendly faces and that signs of humanity abound.
- Percentage of housing \_ stock built before 1939

WalkMetric

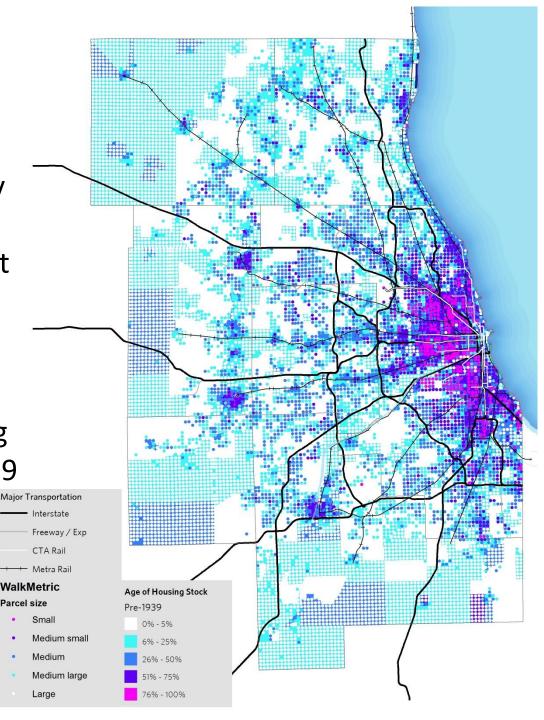
Small

Medium

Large

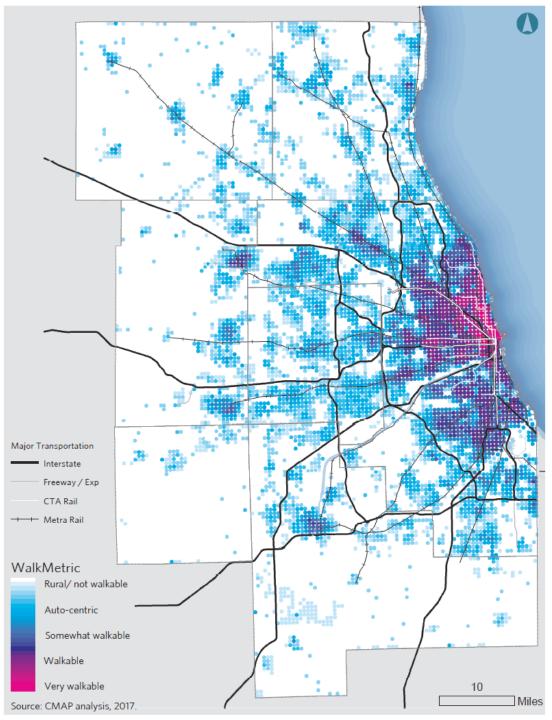
Parcel size

- Parcel size

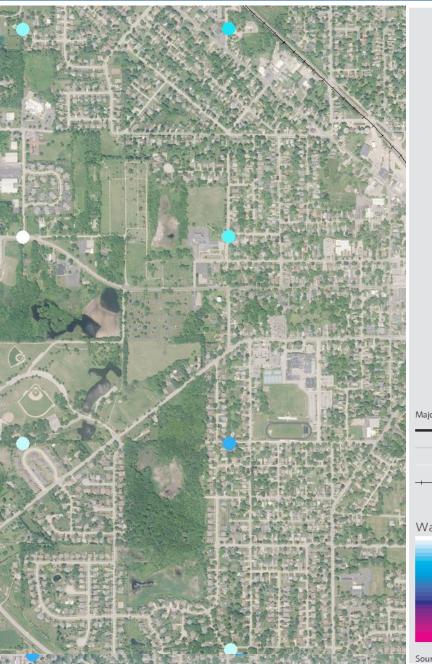


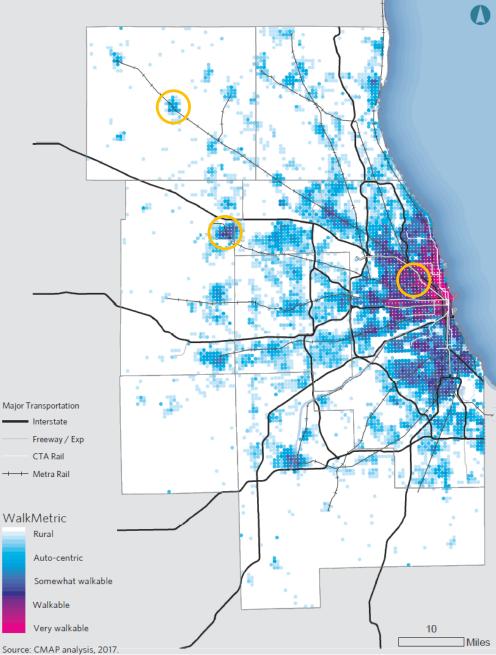
### **Regional Score**

 Added total score for amenities, intersection density, block length, block size, fatal crashes (penalty), no residential (penalty)



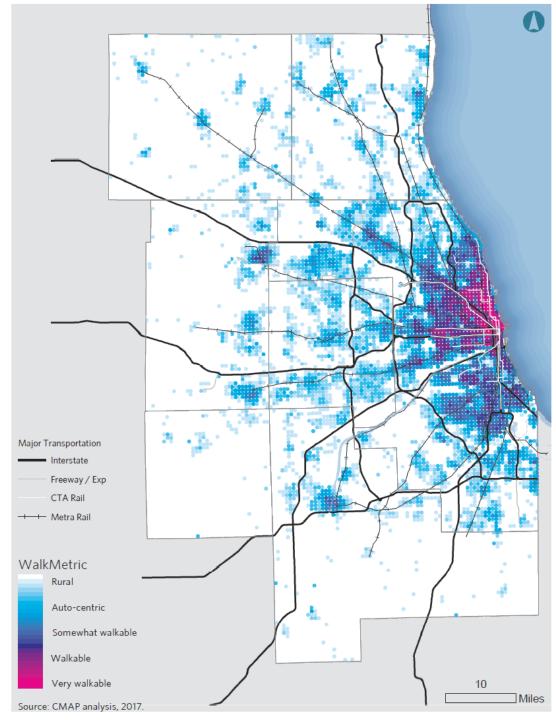
### **Different ranking, same scale**





## **Regional Score**

- Localized assessments require more in-depth analysis
  - Sidewalk coverage
  - Quality of the walk
  - Land use mix
  - Number of lanes
  - Traffic volume and speeds
  - Shade/ shelter
  - Air quality
  - Noise levels
  - Crime



Feedback

Lindsay Bayley (312) 386-8826 Ibayley@cmap.illinois.gov

