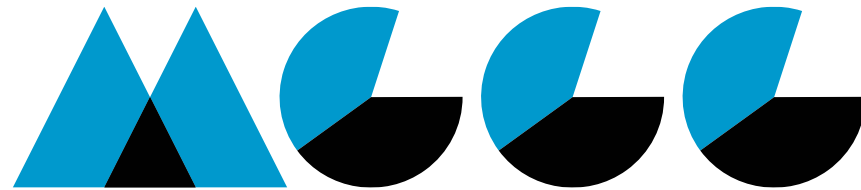


# Redistricting Case Study: Chicago City Council



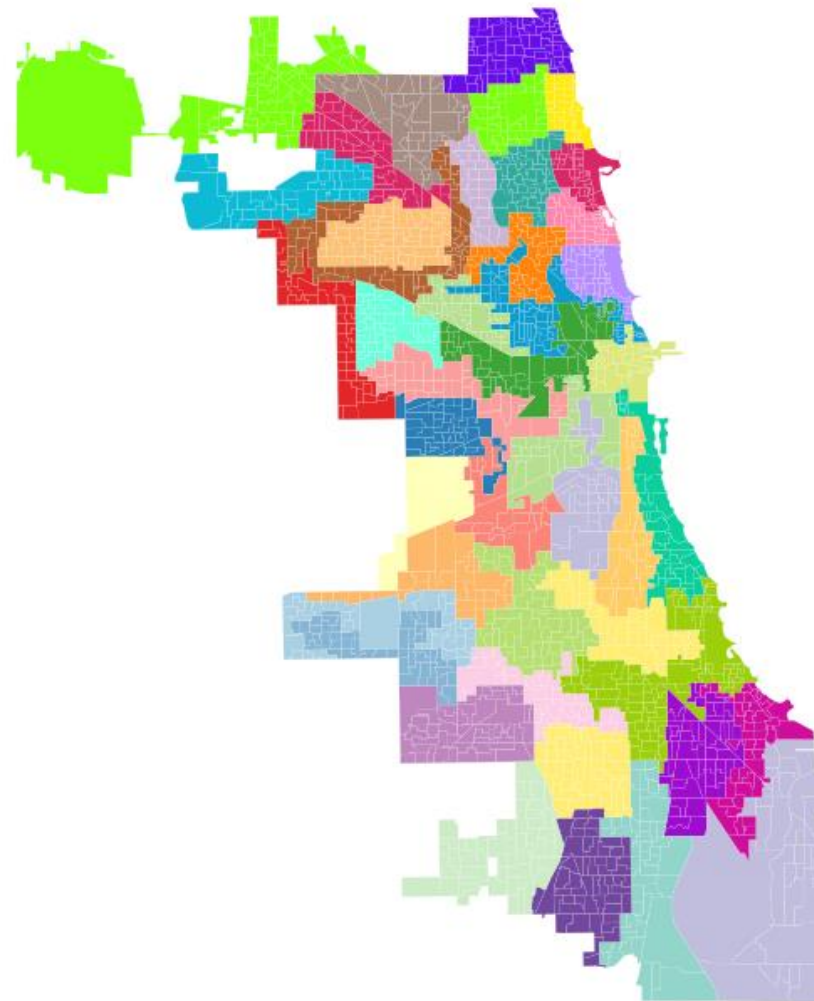
# Chicago City Council

Perceptions of current 50 ward system:

- Gerrymandered
- Hyper-segregated
- Entrenched and unresponsive
- Large/Inefficient

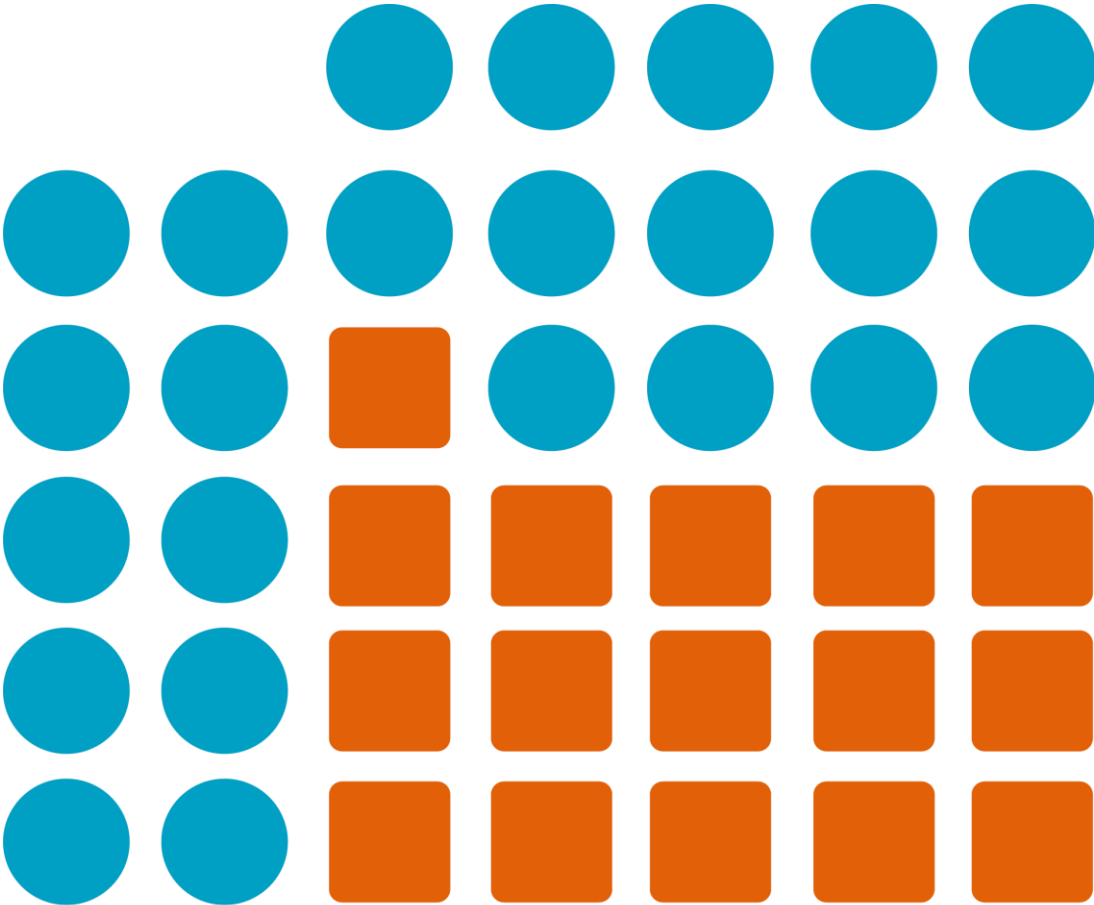
Possible reform proposals:

- Redraw wards
- Shrink council size
- Move to multi-member districts
- Move to ranked choice voting

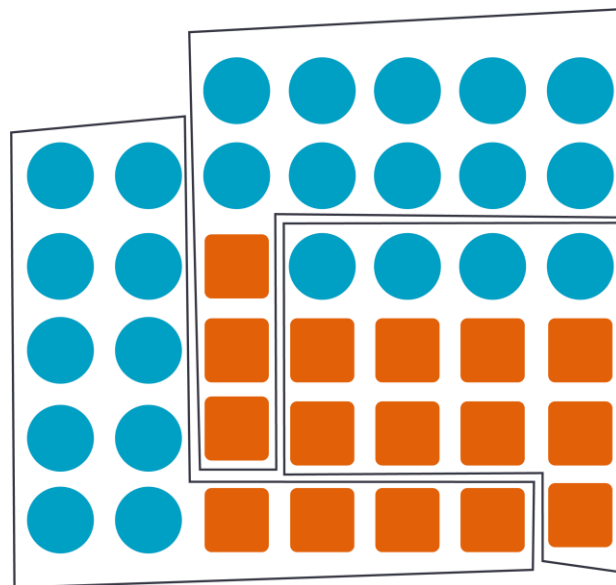
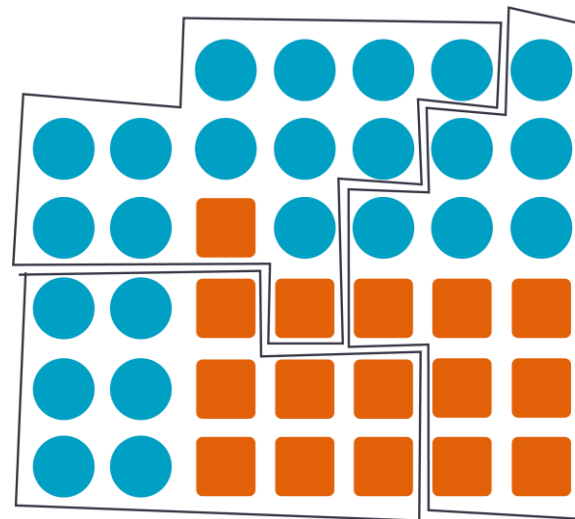
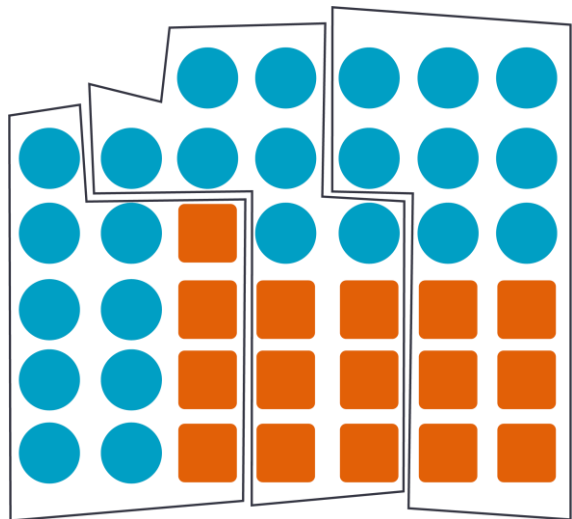


Current 50 Ward Plan

# At-Large Voting





# Districts




# Ranked Choice Voting


**BALLOT**


1 


2 

3 


**BALLOT**


1 


2 

3 


**BALLOT**


1 


2 

3 

**BALLOT**

1 

2 

3 

**BALLOT**

1 

2 

3 

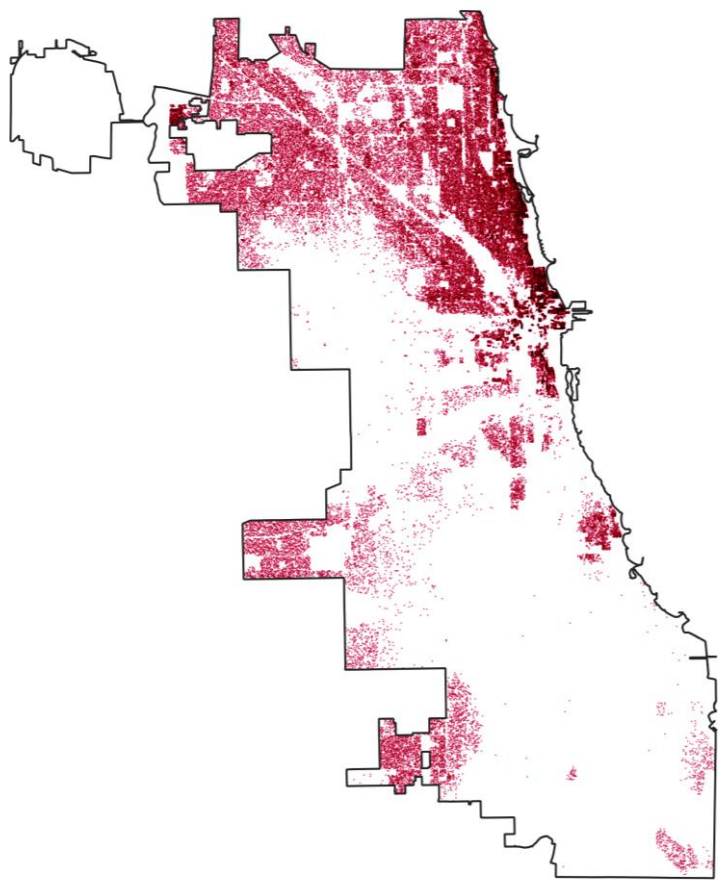


# Chicago Demographics

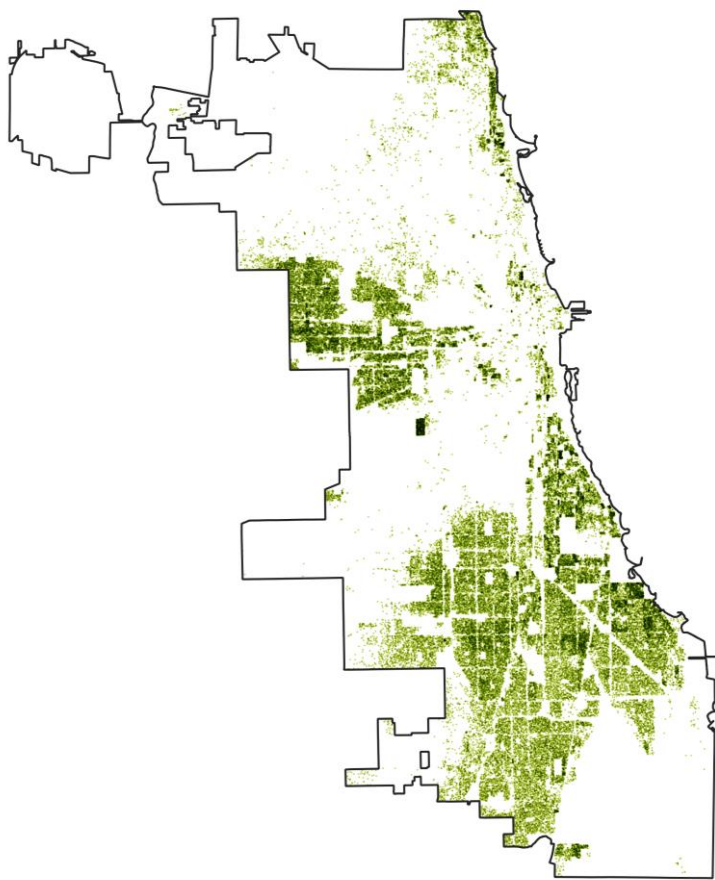
Race	2000 (Census)	2010 (Census)	2009-2013 (ACS)	2013-2017 (ACS)
Black (non-Hispanic)	36.4%	32.4%	31.9%	30.1%
White (non-Hispanic)	31.3%	31.7%	32.2%	32.7%
Hispanic	26%	28.9%	28.7%	29%
Asian (non-Hispanic)	4.3%	5.4%	5.7%	6.2%
Two or More Races	1.6%	1.3%	1.3%	1.7%
Amer. Indian/Alaska Native	0.1%	0.2%	0.1%	0.1%
Some Other Race	0.1%	0.2%	0.2%	0.2%
Nat. Hawaiian/Pacific Islander	0.03%	0.02%	0.02%	0.02%
Total Population	2,896,016	2,695,598	2,706,101	2,716,450

# Chicago Demographics

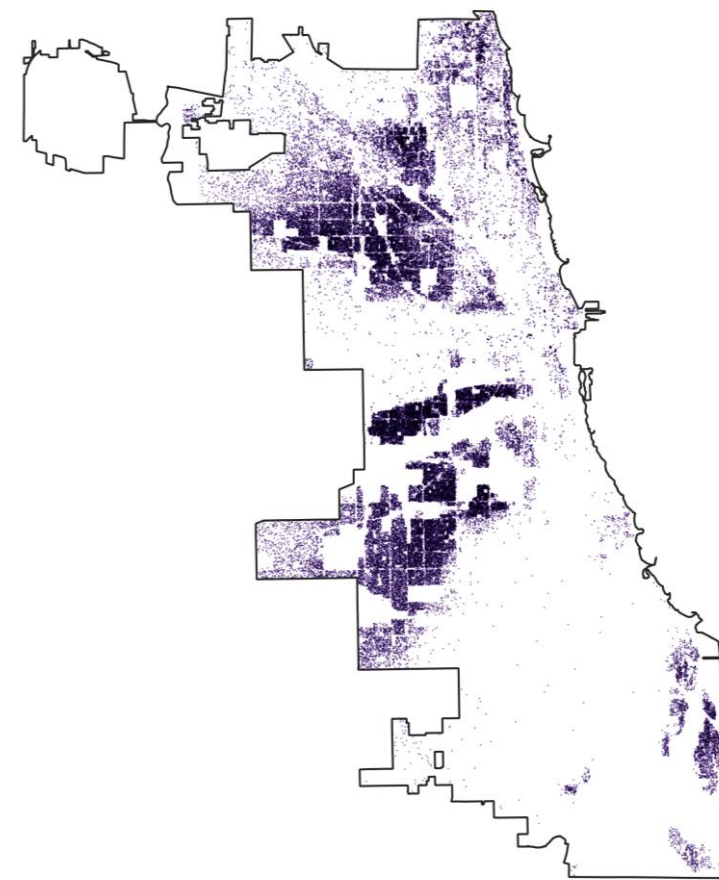
1 Dot represents 10 People



2010 Non-Hispanic,  
White Population

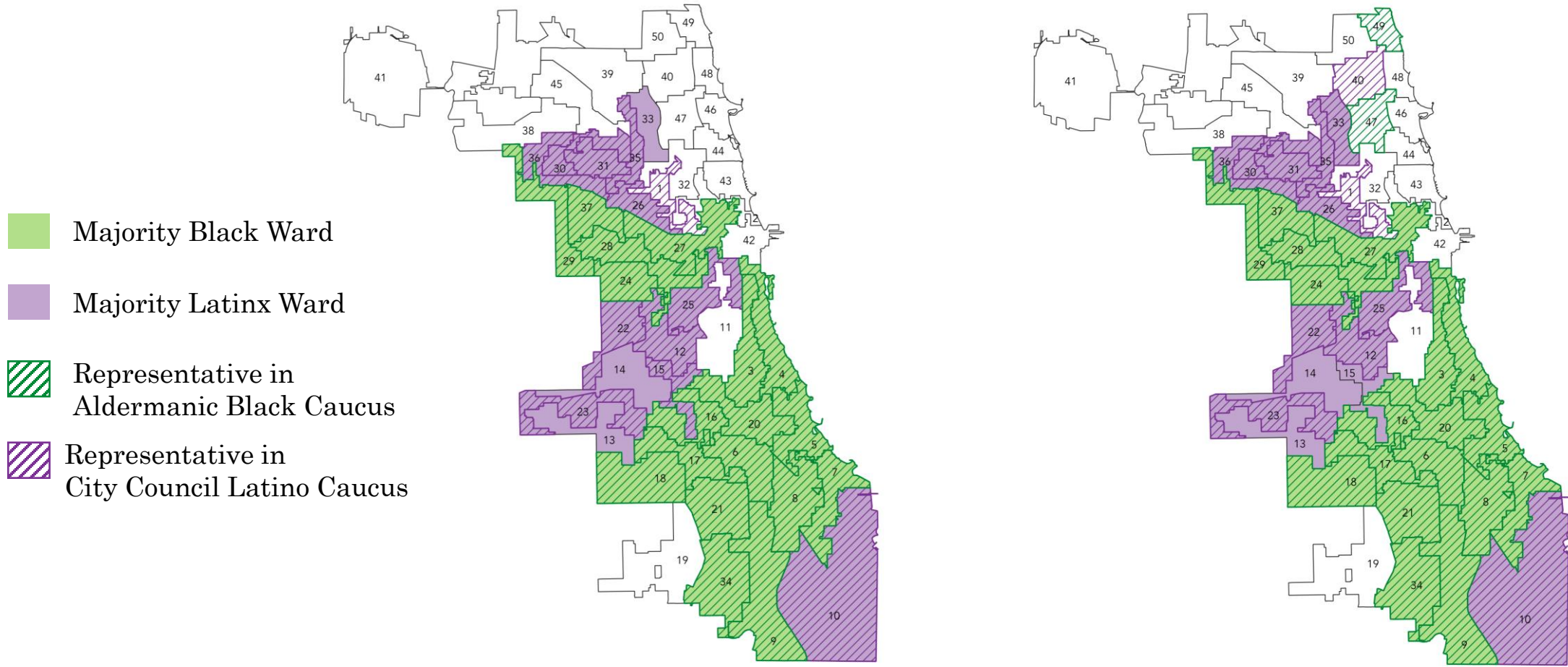


2010 Non-Hispanic,  
Black Population



2010 Hispanic  
Population

# Representation on the City Council



2015 City Council

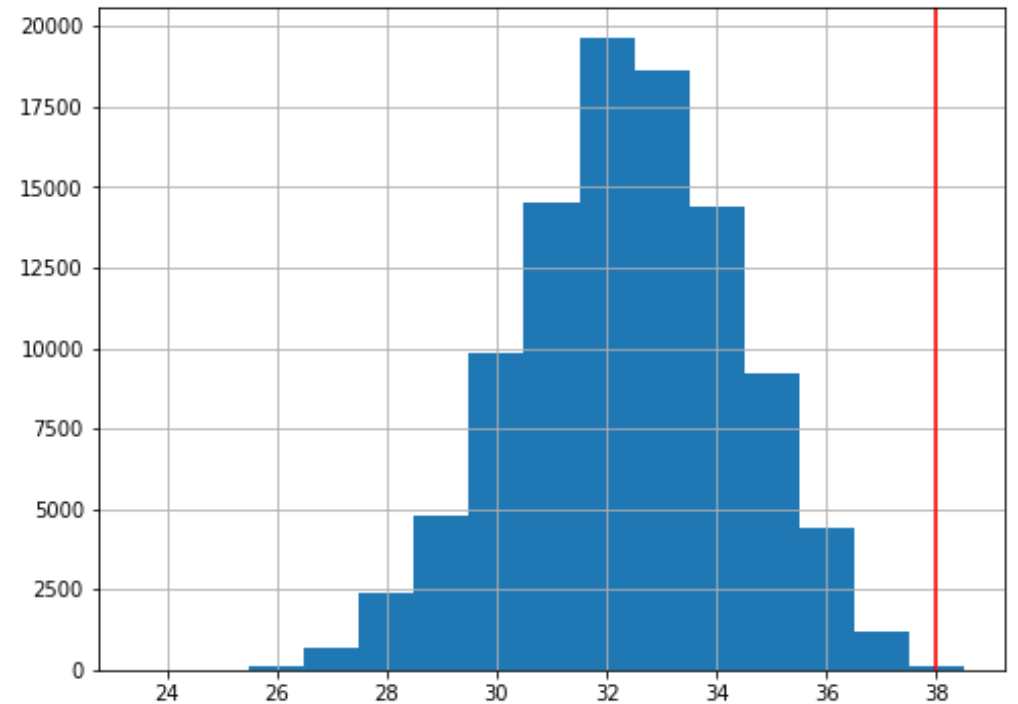
2019 City Council



# Ensemble Analysis

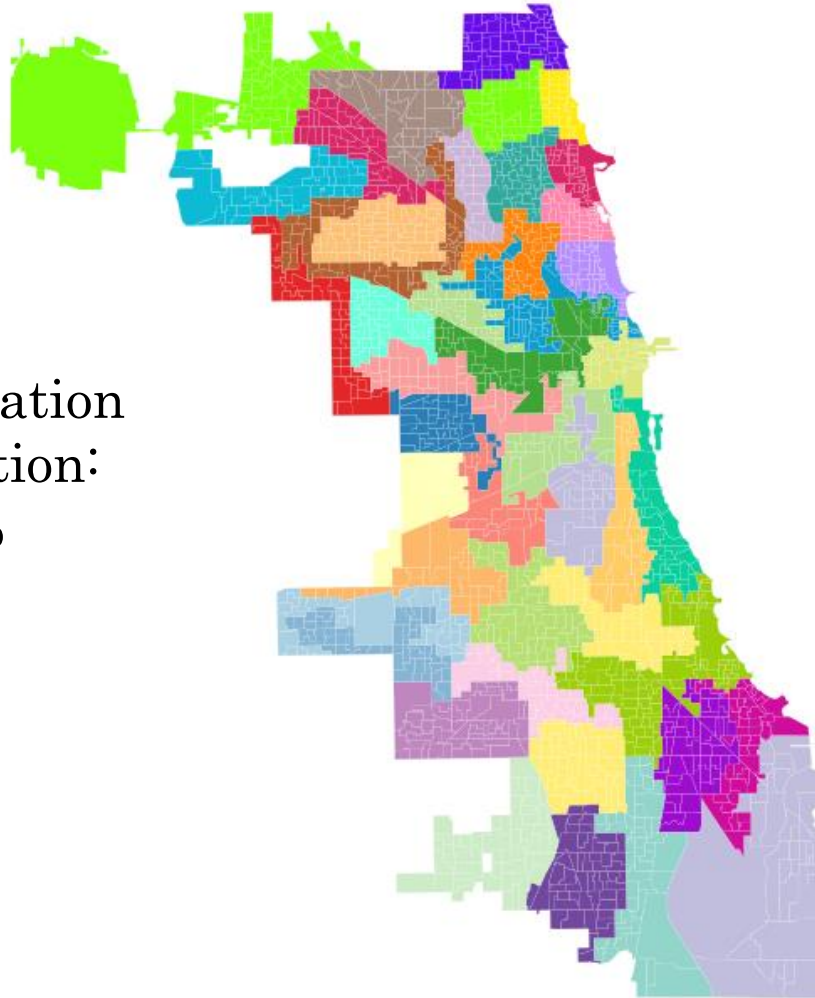
Ensembles of 100,000 plans generated using a recombination Markov chain:

- **50×1** ensemble – 50 single-member districts built from precincts
- **10×m** ensemble – 10 multi-member districts built from precincts
- **10×m** CA ensemble – 10 multi-member districts built from community areas



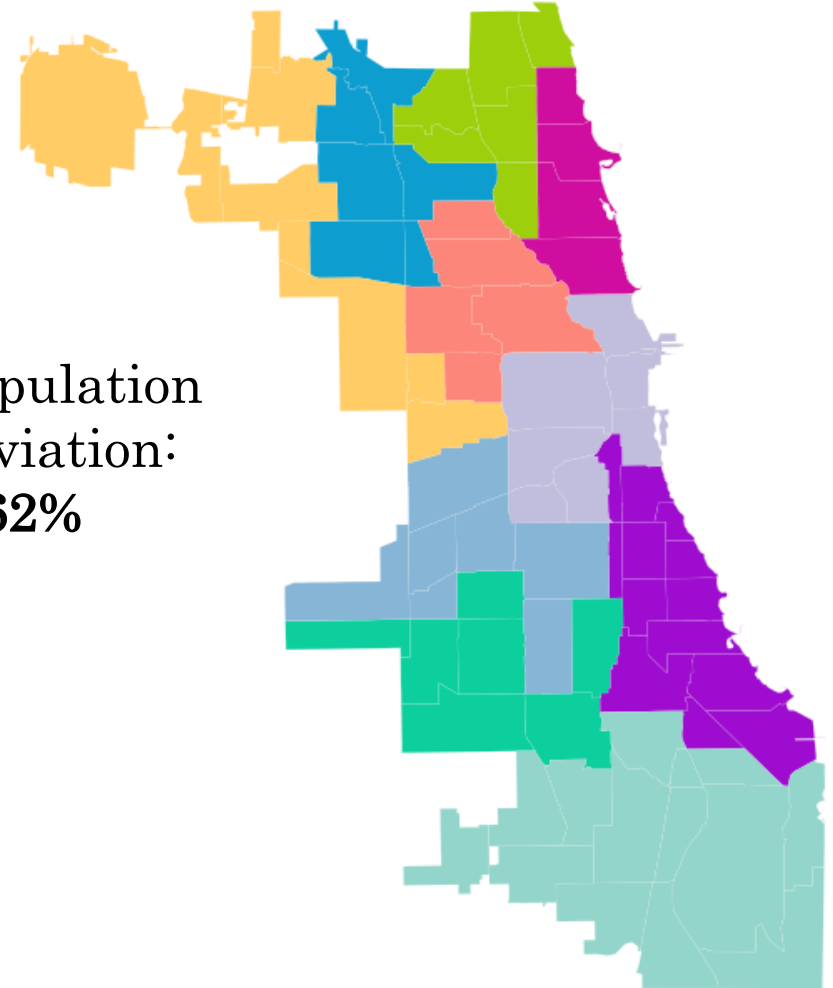
Number of Segregated Wards  
(only one racial group exceeds 25% of  
the population)  
in 50×1 ensemble

Current Plan



Population  
deviation:  
4.75%

10 MMDs: Community Areas



Population  
deviation:  
1.62%