

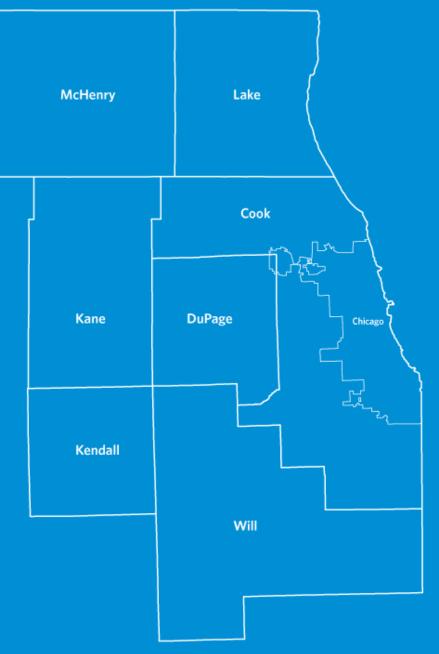
ON TO 2050

Stormwater strategies for a more resilient and inclusive Chicago region

Nora Beck and Kate Evasic
Chicago Metropolitan Agency for Planning

IAFSM 2019 Conference March 13, 2019

Chicago Metropolitan Agency for Planning





CMAP

ON

TO

2050

Resilience

Inclusive Growth

Prioritized Investment





Stresses and shocks





Stresses and shocks





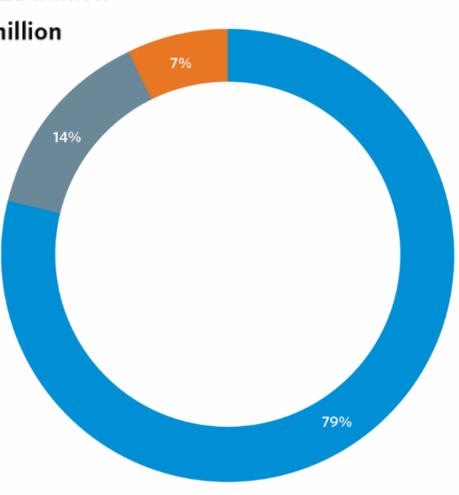
Total insurance and disaster relief payouts, by geography, 2007-14

CMAP region \$1.8 billion

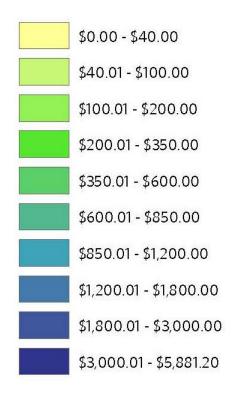
Rest of Illinois \$325 million

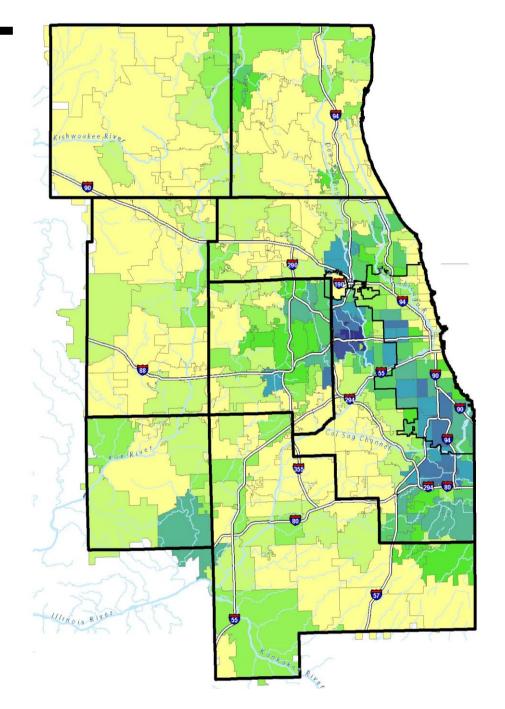
Statewide \$162 million

Source: Brad Winters, et al, "Report for the Urban Flooding Awareness Act," State of Illinois Department of Natural Resources, Office of Water Resources, June 2015, www.isws.illinois.edu/hilites/more.asp?id=ufaa&fr=hi

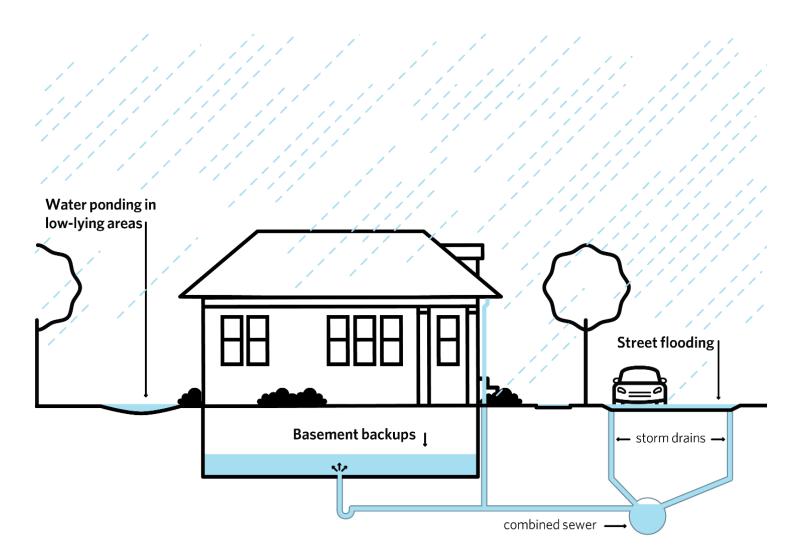


Damage costs per household by zipcode, 2003-2015

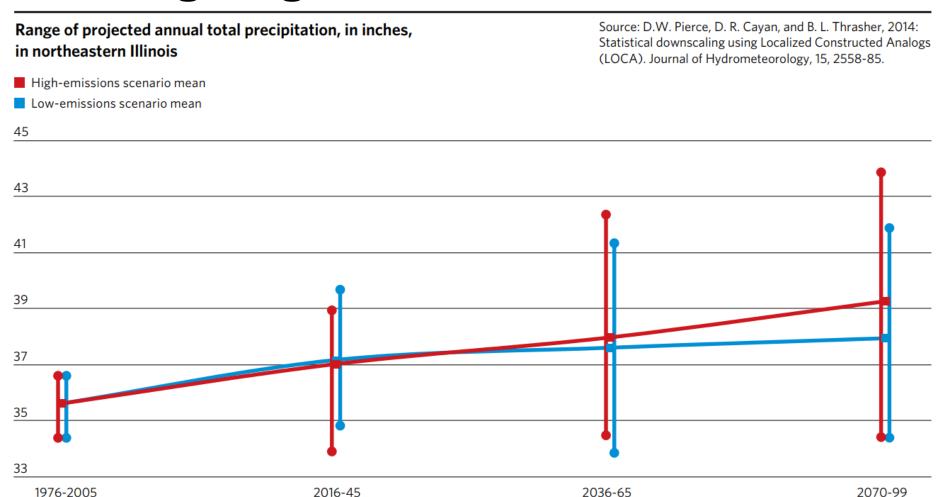




Urban flooding



Moving target



Identify and communicate flooding risk

Advance climate data

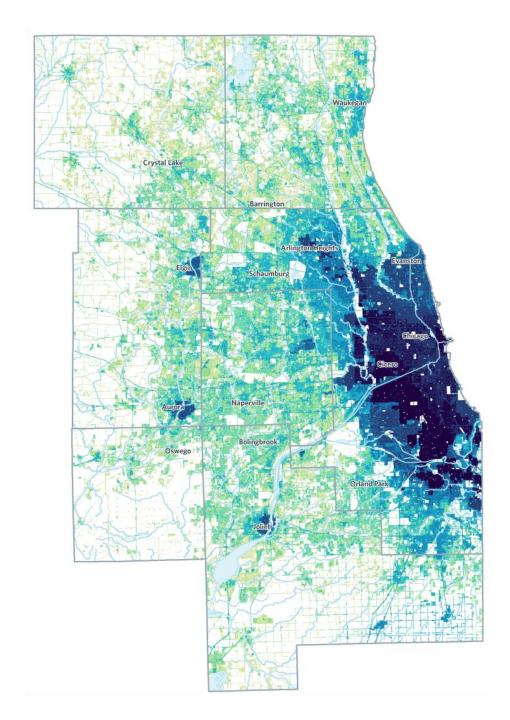
Collect local data

Update mapping and planning tools



Urban Flooding Susceptibility Index

- 10 (more susceptible)
- 9
- 8
- 7
- 6
- 5
- 4
- 3
- 2
- 1 (less susceptible)



Integrate risk in planning and design

Update standards and design manuals

Integrate vulnerability into decision-making

Update plans to include stormwater management



Guide to Flood Susceptibility and Stormwater Planning



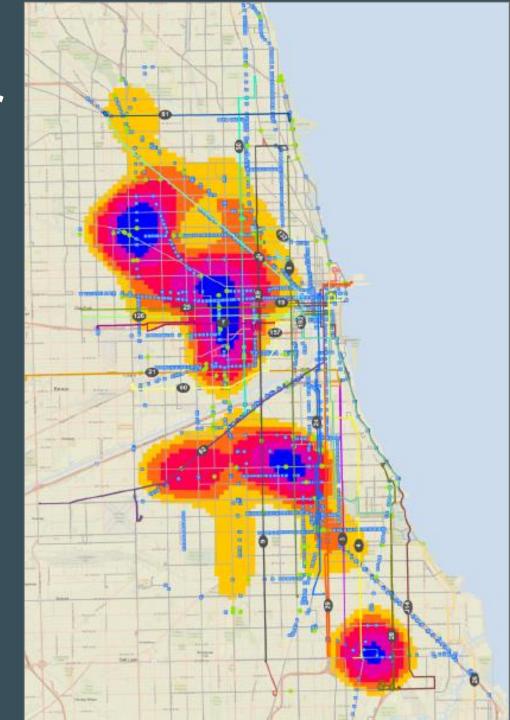
Enhance operations to maintain performance



RTA's Flooding Resilience Plan for Bus Operations

Planned bus reroutes

- Advocate for infrastructure improvements
- Continue to collect transit-flooding data



Inclusive Growth

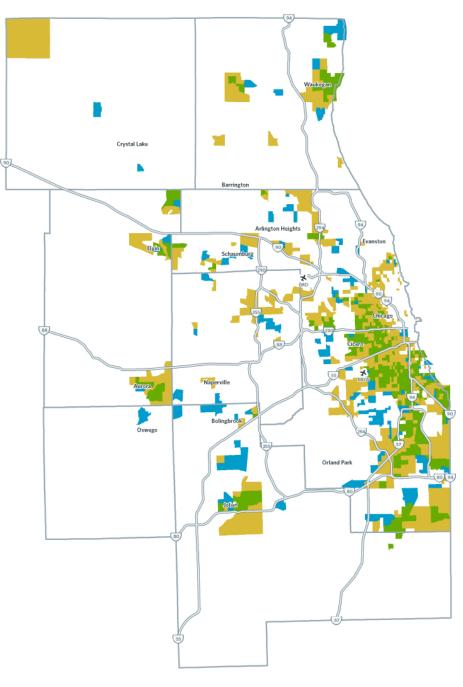
Grow the economy through opportunity for all

Disproportionate impacts

Economically Disconnected Areas (EDAs) and disinvested areas

- Disinvested and EDA
- Disinvested area
- EDA

Source: Chicago Metropolitan Agency for Planning analysis of Illinois Department of Employment Security data, 1970, 1980, 1990, 2000, and 2015; Community Reinvestment Act (CRA) data on small loans made to businesses, 2007 and 2015 (accessed through the Woodstock Institute); county assessor data aggregated from parcel to tract level by property class, 2010 and 2015; and American Community Survey data, 5-year estimates, 2010-2014 and 2011-2015.



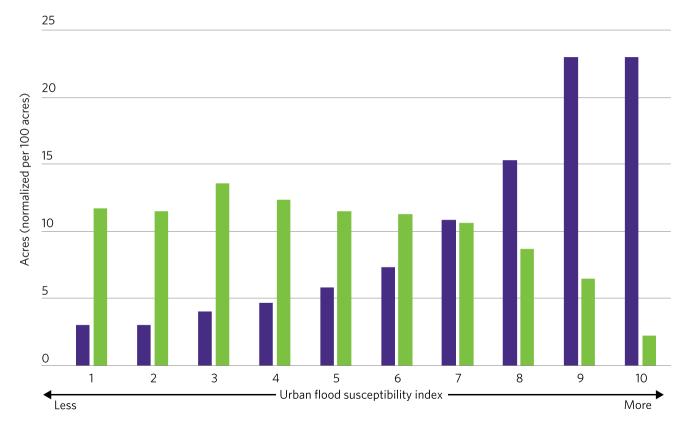
Disproportionate impacts

Urban flood susceptibility in disinvested and Economically Disconnected Areas (EDAs) compared with the rest of the region

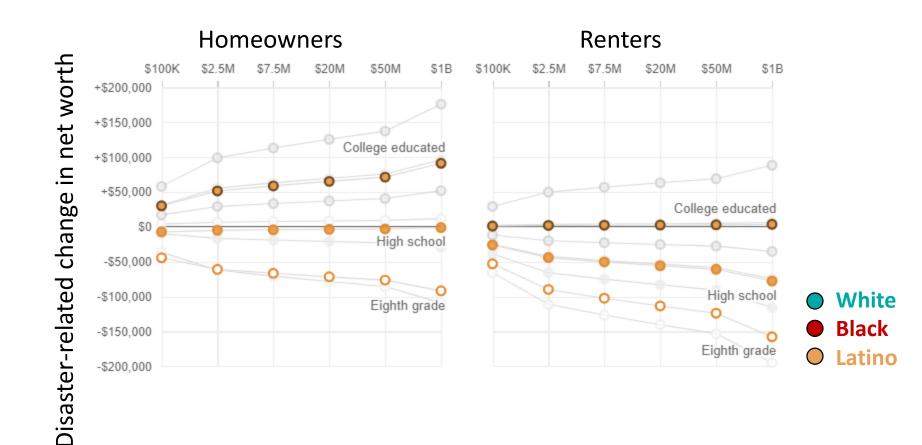
- Disinvested and EDAs
- Rest of region

Note: Economically Disconnected and disinvested areas are more likely to be in flood susceptible locations. However, this varies by county and is most significant in Cook, Kane, and Lake.

Source: Chicago Metropolitan Agency for Planning, 2018.



Access to assistance



Engage vulnerable populations in planning

Meet people where they are

Develop relationships

Fear of disclosure



Target investments in disconnected areas

CDBG, Single Family Rehab (SFR) Loan

Cost share programs

Innovative funding and financing

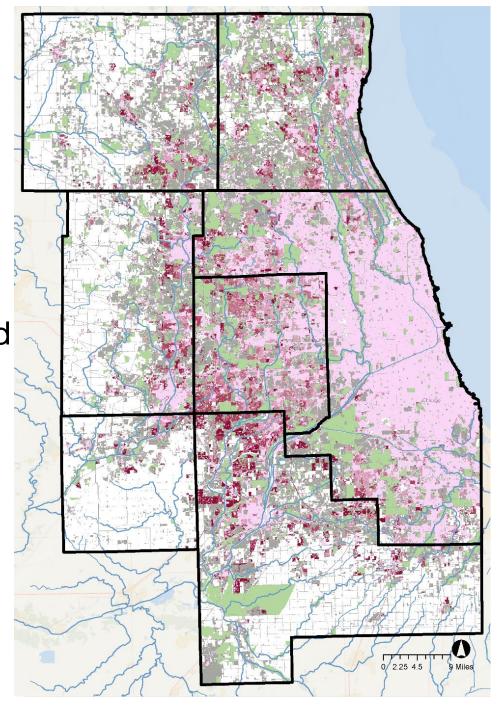




Older development lacking today's BMPs

42%

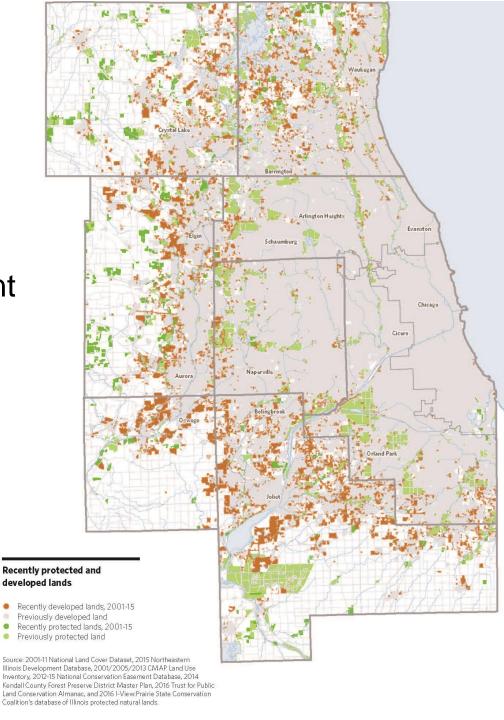
of developed acres were first developed prior to 1974



New development occurring on periphery



of new development occurred in areas with limited infrastructure



Maintain and invest in gray and green infrastructure

Prioritize high need, high risk areas

Coordinate investments

Dedicated revenue streams





www.cmap.illinois.gov/onto2050

Nora Beck nbeck@cmap.illinois.gov

Kate Evasic kevasic@cmap.illinois.gov