Water Resources Strategy
Draft Policy Framework

CMAP ENR Committee June 2017

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Our region's communities are changing

People: age and diversity

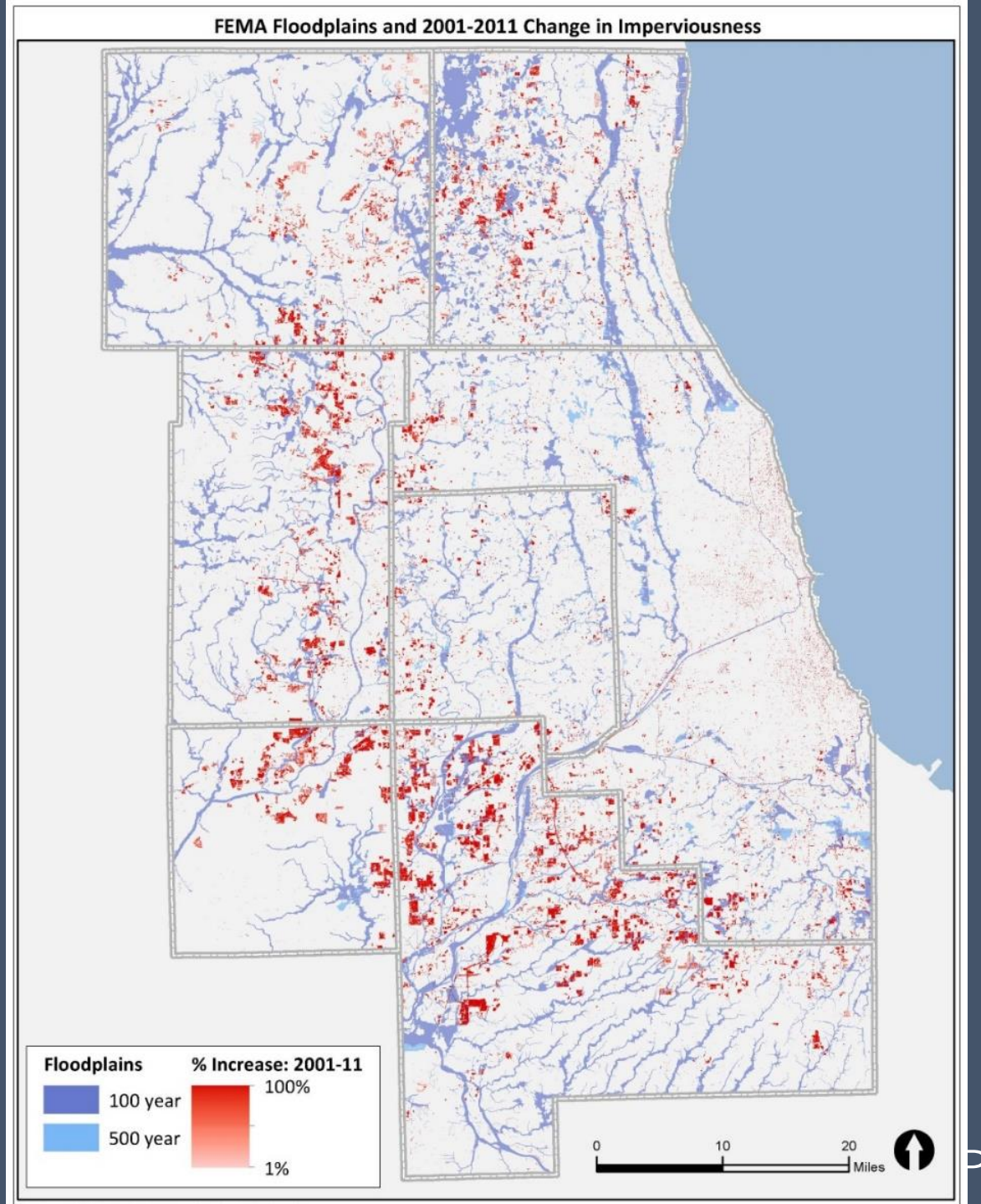
Places: use and development

Mobility: congestion and connections

Equity: economic inclusivity

Climate change: extreme weather

Jobs: types and locations

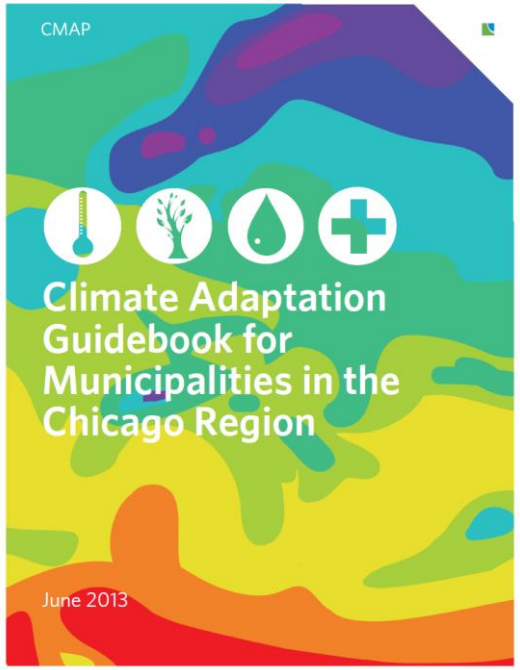


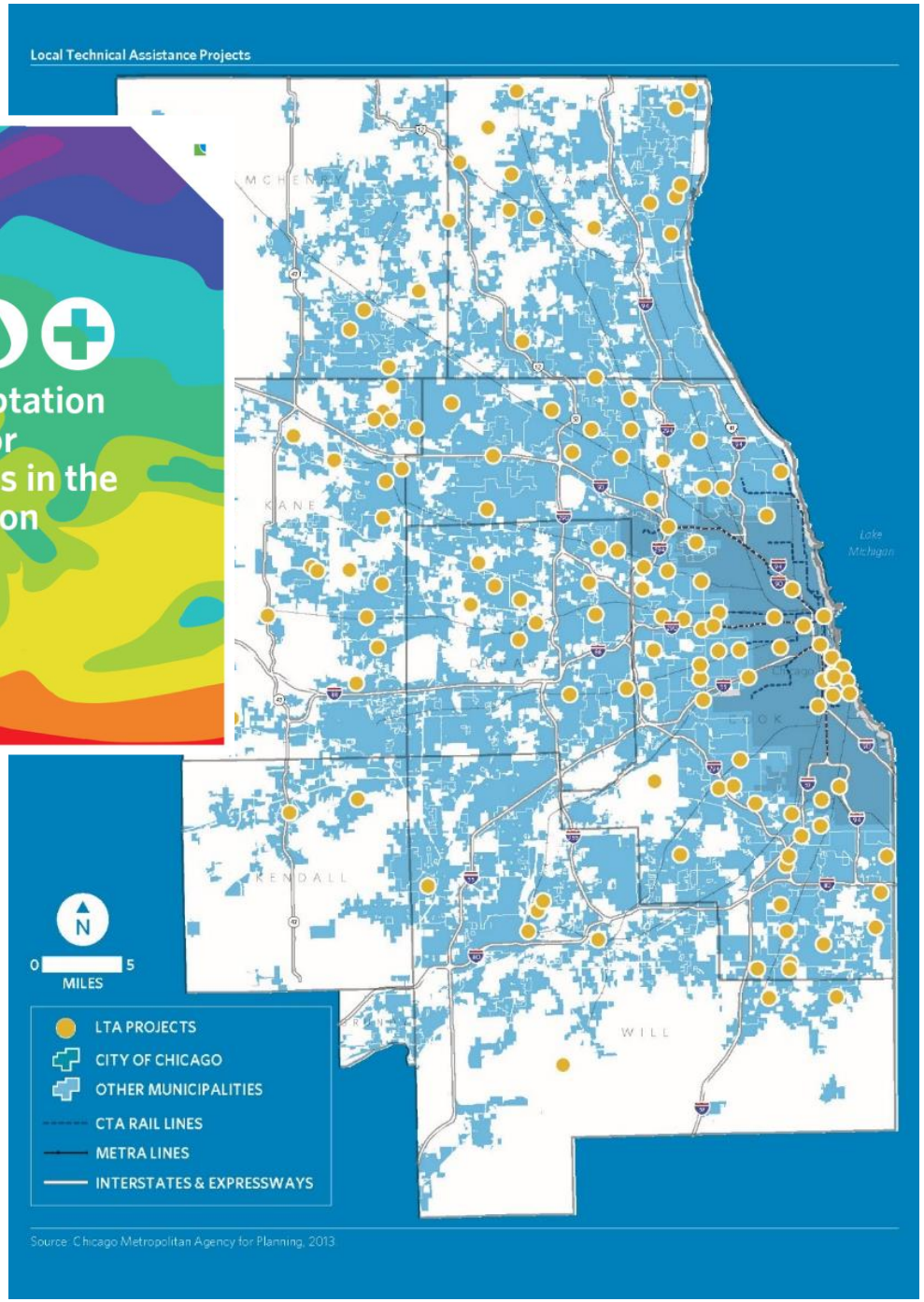
CMAP: Planning for the Future of our Region

- Official regional planning organization and MPO for northeastern Illinois
- Adopted GO TO 2040 regional plan and policy framework in 2010
- Emphasize comprehensive planning for the interrelated nature of transportation, land use, environment, and the regional economy
- Work with partners to develop and implement coordinated strategies that lead to economic prosperity and quality of life for 7 counties and 284 municipalities of NE Illinois

Support better decision-making

- Research market and public policy trends
- Data collection and dissemination
- Collaboration and facilitation
- Training & information sharing
- Planning and policy resources
- Local Technical Assistance and Capacity Building
  - Collaborate with regional partners to provide planning support to local communities
  - Over 160 projects on a range of planning issues and a variety of plan types





Metropolitan Chicago's Next Comprehensive Regional Plan

www.cmap.illinois.gov/about/involvement

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Water Resources Strategy Outline

Addresses water quality, water supply, and waterways/habitat (stormwater is separate)

1. Introduction
    1. Regulatory context
    2. Previous regional planning efforts
    3. CMAP's water-related activities
2. Issues and challenges
    1. Water quality
    2. Water service, infrastructure and facilities
    3. Water source availability and quality constraints
    4. Water withdrawal management and source protection
    5. Waterways, waterbodies, and habitat
3. Policy framework

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Water Resource Issues and Challenges

Water Quality

1. *Water resources are not meeting goals, standards, or designated uses*
2. Lack of state and regional funding, coordination across disconnected regulatory and administrative frameworks, and good data
3. Numeric standards are helpful, but may not be best indicator of health
4. NPS control is complex, nutrients and chlorides are top concerns, and many other impairments exist
5. Emerging pollutants present new challenges
6. MS4 and nonpoint source standards and programs are inadequate
7. Watershed-based plans are not adequately implemented
8. Local planning and development policies and ordinances are inadequate
9. Climate change may make water quality worse

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Water Resource Issues and Challenges

Water Service, Infrastructure and Facilities

1. Aging systems require significant investment to maintain service
2. Long-term costs are not covered by current revenue structures
3. Current ‘sunk’ investments are underutilized
4. Water loss = lost revenue
5. Septic and small systems lack data and enforcement
6. Resource recovery is underutilized
7. Vulnerable populations may be disproportionately affected

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Water Resource Issues and Challenges

Water source availability and quality constraints

1. Drawdown of deep sandstone aquifers (+ recharge occurs out west)
2. Drawdown and contamination of shallow aquifers
3. Limited Lake Michigan allocation
4. Rivers may be underutilized and polluted
5. Land use decisions may not consider water supply constraints or recharge
6. Lack of data and understanding (perception problem) about water supply

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Water Resource Issues and Challenges

Water withdrawal management and source protection

1. Groundwater withdrawals largely unknown and unmanaged
2. Inefficient use of Lake Michigan allocation
3. Groundwater is exported to the Gulf of Mexico
4. Unharnessed potential of water reuse
5. Limited use of conservation practices

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Water Resource Issues and Challenges

Waterways, waterbodies and habitat

1. Water resources continue to be degraded from multiple causes
2. Sensitive and high quality systems are inadequately protected
3. Inadequate resources exist to properly manage and restore systems
4. Recreational and commercial uses contribute to challenges
5. Habitat degradation, invasive species, and public health are top Lake Michigan challenges

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CMAP Policy Framework

1. Improve regional coordination and information
2. Improve land use planning and policy approaches to protect water resources
3. Coordinate subregional water withdrawals
4. Invest in infrastructure and facilities
5. Prevent continued degradation of water quality and aquatic systems

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CMAP Policy Framework

1. Improve regional coordination and information

1.1 Adopt integrated water resource management (*One Water*) as a conceptual framework

1.2 Improve state and regional coordination

1.3 Improve data collection and availability

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CMAP Policy Framework

2. Improve land use planning and policy approaches to protect water resources

2.1 Strengthen and update collaborative planning approaches for multiple objectives

2.2 Incorporate land use strategies that protect water supply and quality into local plans

2.3 Incorporate water supply and demand forecasts into local and regional planning

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CMAP Policy Framework

3. Coordinate subregional water withdrawals

3.1 Strengthen groundwater monitoring and withdrawal system

3.2 Strategically manage Lake Michigan allocation

3.3 Support coordination between existing and future Fox and Kankakee River users

3.4 Encourage water demand management strategies

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CMAP Policy Framework

4. Invest in infrastructure and facilities

4.1 Leverage and achieve more with investments

4.2 Connect infrastructure investment to planning goals

4.3 Create a water safety net

4.4 Improve fiscal management and efficiency

4.5 Continue to advance resource recovery and reuse

4.6 Invest in small and large wastewater systems

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5. Prevent continued degradation of water quality and aquatic systems

5.1 Focus on priority pollutants

5.2 Renew attention on waterways, waterbodies, habitat, and Lake Michigan.

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Next Steps

- Integrate with other strategy papers
- Share draft with other stakeholders
- Revise and Finalize

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Questions & Comments

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