CMAP Resources for
Green Infrastructure Planning

Resilient Chicago
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- Formed by state law in 2005 to integrate planning for transportation and land use
- Works across jurisdictions
  - 7 counties
  - 284 municipalities
- Over 1,200 units of local government
GO TO 2040

Stormwater-Related Recommendations

• Integrate land use policies and site planning with water resources
• Reduce runoff volume
• Use site-scale green infrastructure to manage stormwater
• Develop sustainable sources of financing
Local Technical Assistance Program

• Implements GO TO 2040 by providing planning assistance to local communities
• Initially funded by HUD, now combination of sources
• Initiated in 2011; 100 plans completed and 50 underway
• New projects selected annually
Need to Address Localized Flooding
Stormwater Management Opportunity Planning

Overview

• Funded through the MacArthur Foundation and Cook County CDBG-DR

• Goal to integrate better stormwater management decisions into:
  ▪ Local planning
  ▪ Municipal operations and budgeting decisions
  ▪ Data and information sharing
  ▪ Transportation planning and programing

https://datahub.cmap.illinois.gov/
Stormwater Management Opportunity Planning

Overview

• Incorporate within comprehensive plans and other local plans

• Align with land use and transportation planning by focusing on above-ground solutions
Stormwater Management Opportunity Planning

Approach

1. Data Collection
   - Historic conditions
   - Topography
   - Impervious cover
   - Land use
   - Repetitive flood claims and local flood data
Stormwater Management Opportunity Planning

Approach

2. Data Analysis
   - Overland flow accumulation modeling using Arc Hydro tools
   - Catchment area delineation
Stormwater Management Opportunity Planning

Approach

3. Evaluation
   - Overlay analysis
   - Prioritize catchments based on challenges and opportunities
Stormwater Management Opportunity Planning

Approach

4. Public Engagement
   – Identify or confirm problem areas
   – Educate residents and property owners
   – Garner public support for GI investment
Stormwater Management Opportunity Planning

Potential Recommendations

- Policies and Ordinances
- Engineering and Capital Improvements
- Maintenance and Monitoring
- Financing
- Education
LTA Project Examples

Examples of current projects incorporating stormwater management approach

<table>
<thead>
<tr>
<th>Plan Type</th>
<th>Municipality</th>
<th>Potential Outcome</th>
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<tbody>
<tr>
<td>Comprehensive Plan</td>
<td>South Holland</td>
<td>Identify potential GI interventions based on land use</td>
</tr>
<tr>
<td>Transportation Plan</td>
<td>Crystal Lake</td>
<td>Incorporate GI into street design standards</td>
</tr>
<tr>
<td>Capital Improvement Plan</td>
<td>Blue Island</td>
<td>Build GI into road reconstruction projects</td>
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<tr>
<td></td>
<td></td>
<td>Prioritize past plan recommendations</td>
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</tbody>
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Landscape Requirements

- Permits different configurations of landscape islands and other required landscape areas to meet stormwater management objectives
- Requires all landscaping be designed to encourage stormwater infiltration
- Requires that landscape areas have a sufficient minimum width to promote tree health and reduce impervious coverage
- Includes maximum impervious coverage ratios to facilitate stormwater infiltration
- 50% total plant material must consist of native and drought-resistant plants
Other Resources

Stormwater Utilities report

• Legal authority
• Program details
• Illinois case studies
  – Rolling Meadows
  – Highland Park
  – Downers Grove
• Implementation
• Addressing Concerns
Thank you!

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CMAP website: www.cmap.illinois.gov
GO TO 2040: www.cmap.illinois.gov/2040
Local Technical Assistance Program: www.cmap.illinois.gov/lta