

RainReady Calumet Implementation Initiative

Calumet Stormwater Collaborative
May 5, 2023



INTROS



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Outreach and Engagement
Manager



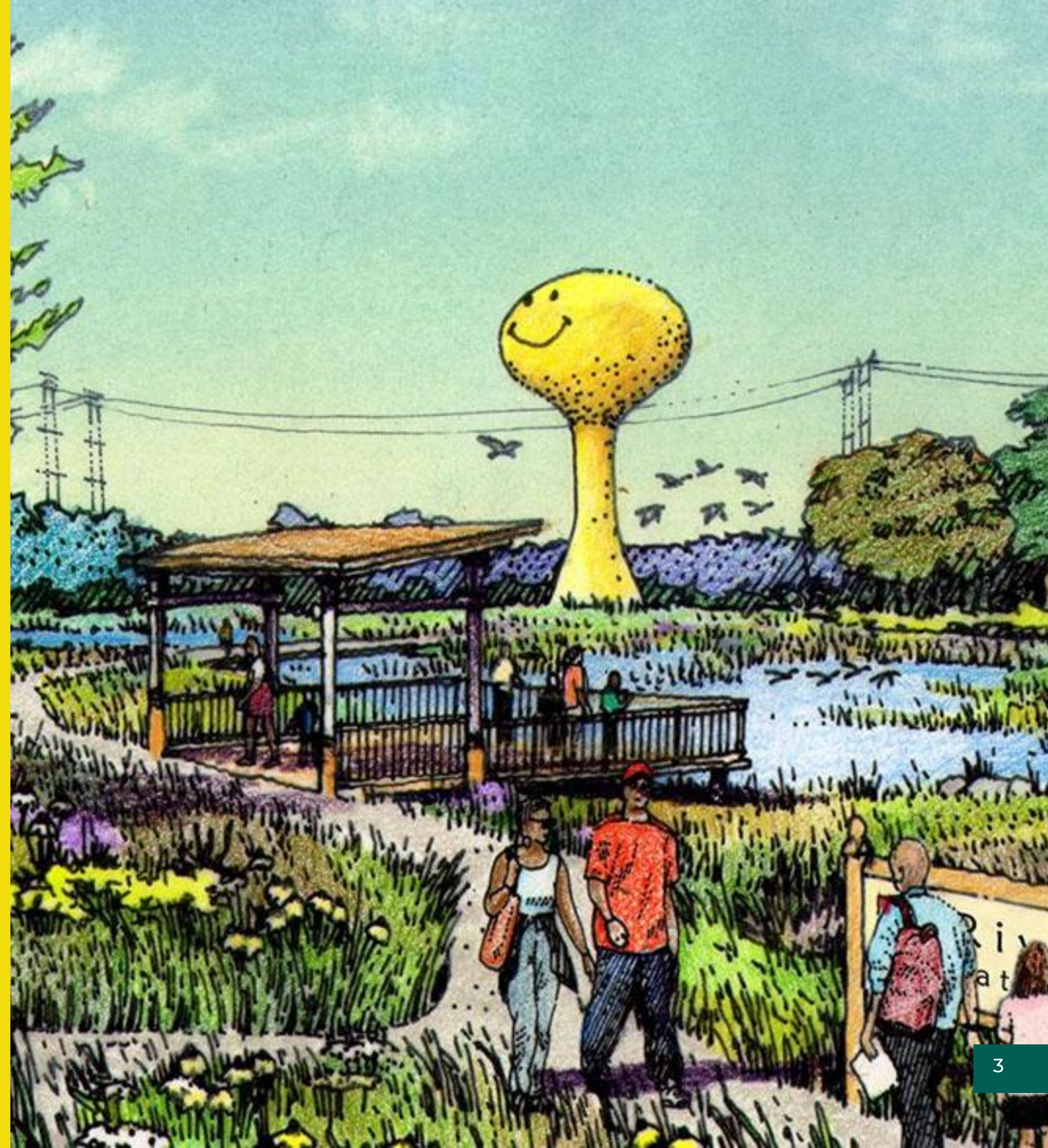
KRISTIN IHNCHAK
Vice President
Equitable Planning

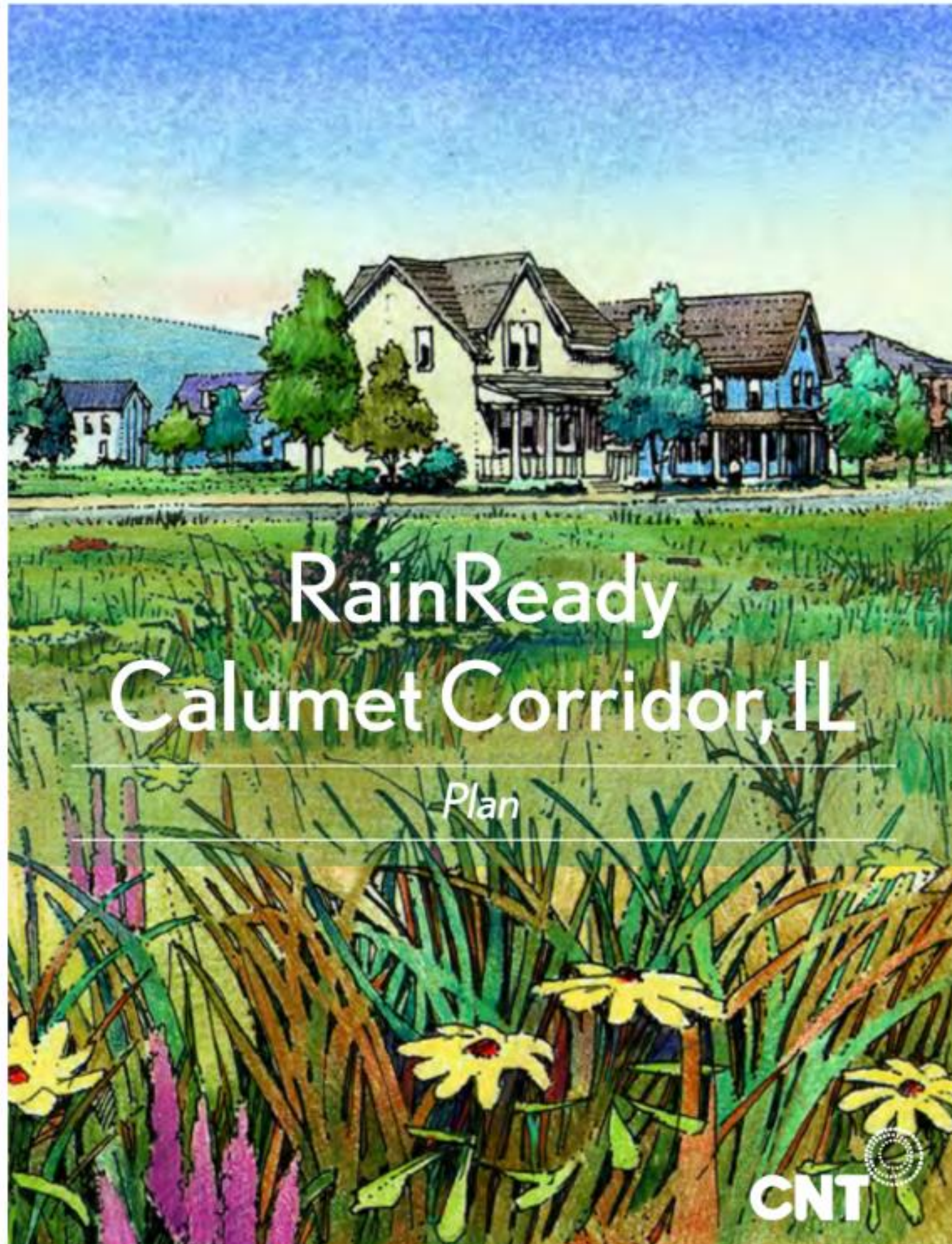


ANNA JENTZ
Senior Planning Associate
Equitable Planning



PAST PLANNING PROCESS





- The Plan represents the collective vision of over 2,100 residents, business owners, and municipal staff, elected representatives, regional leaders, and non-governmental organizations
- Each of the six Calumet Corridor communities has a unique path ahead and this plan will support that journey by:
 - Establishing a shared understanding of the scope, severity, and type of flooding risks across each community in the Calumet Corridor
 - Identifying and prioritizing RainReady solutions that provide multiple benefits to the community
 - Providing municipal and community leaders with a clear roadmap for plan implementation
 - Advancing existing planning and development priorities that align with the general principles of a RainReady community



PLAN IMPLEMENTATION DETAILS



Program Details

Approximately \$6M available for projects that implement the RainReady Calumet plan:

- Goal to spread spending evenly across the 6 communities
- Preference for vegetative green infrastructure facilities
- Considering both public and private partners
- Both gap funding and whole project funding are available

Project Types

Bioswales, Cisterns, Constructed Wetlands, Green Streets & Alleys, Native Landscaping, Porous Pavement, Rain Barrels, Rain Gardens, Stormwater Trees, & Depaving

Maintenance

Long-term maintenance is recommended with support and contractor support is available through 2026

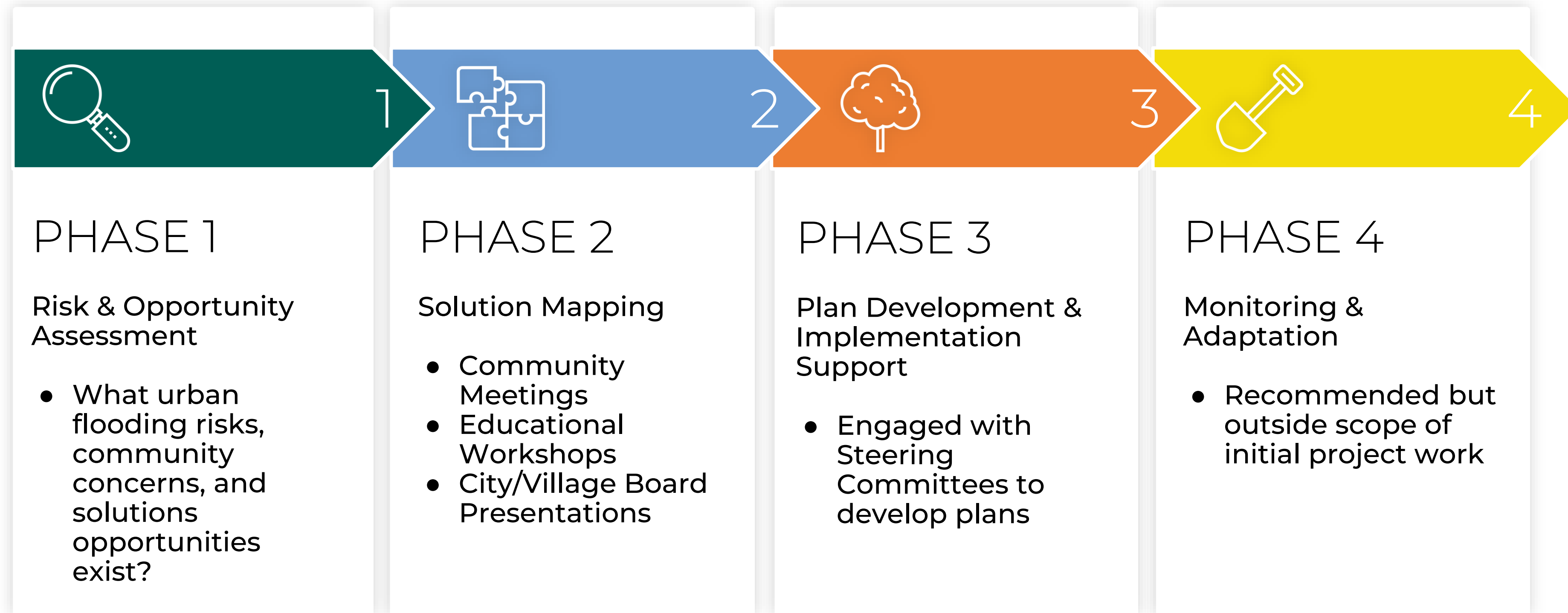
Funding Approval Deadline

Projects accepted through 2024



RAINREADY PREVIOUS PLANNING PROCESS

The **RainReady Plan for the Calumet Corridor** was developed through both a community and data-driven planning process.



Plan



- 1 Identify community priorities, concerns, and goals
- 2 Create (local) Steering Committee and (regional) Advisory Committee
- 3 Synthesize community goals with RainReady Solutions
- 4 Identify stakeholders and build partnerships
- 5 Identify and screen funding, financing, and implementation strategies
- 6 Develop RainReady Plan and priority recommendations

(Pre-Development Phase)

ON GOING:
Community
Engagement



ON GOING:
Project
Enabling
Activities (#9)



Implement



- 7 Bundle projects as needed (based on implementation strategies)
- 8 Pursue relevant funding, financing, and other implementation strategies
- 9 Conduct siting studies, technical studies, environmental reviews, permitting
- 10 Close the deal and develop implementation and maintenance plan
- 11 Implement projects/programs in phases
- 12 Complete Phase 1 (Pilot) → Phase 2 (Connect) → Phase 3 (Scale Up)

(Development Phase)



\$



Operate, Maintain, and Monitor



- 13 Document, inspect, rehabilitate (where necessary), and maintain infrastructure
- 14 Monitor and evaluate performance of projects and programs
- 15 Adapt ongoing implementation activities based on monitoring data

(Post-Development Phase)

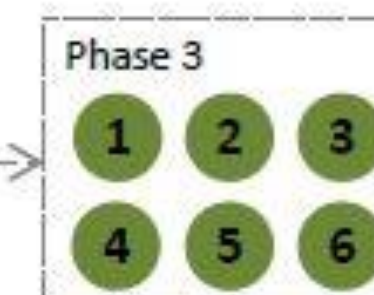
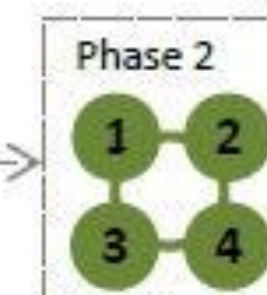
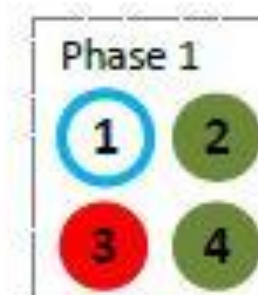
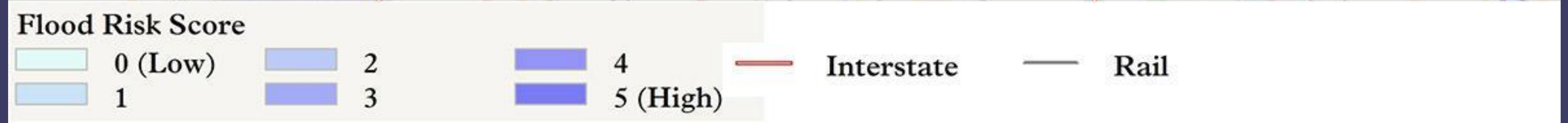
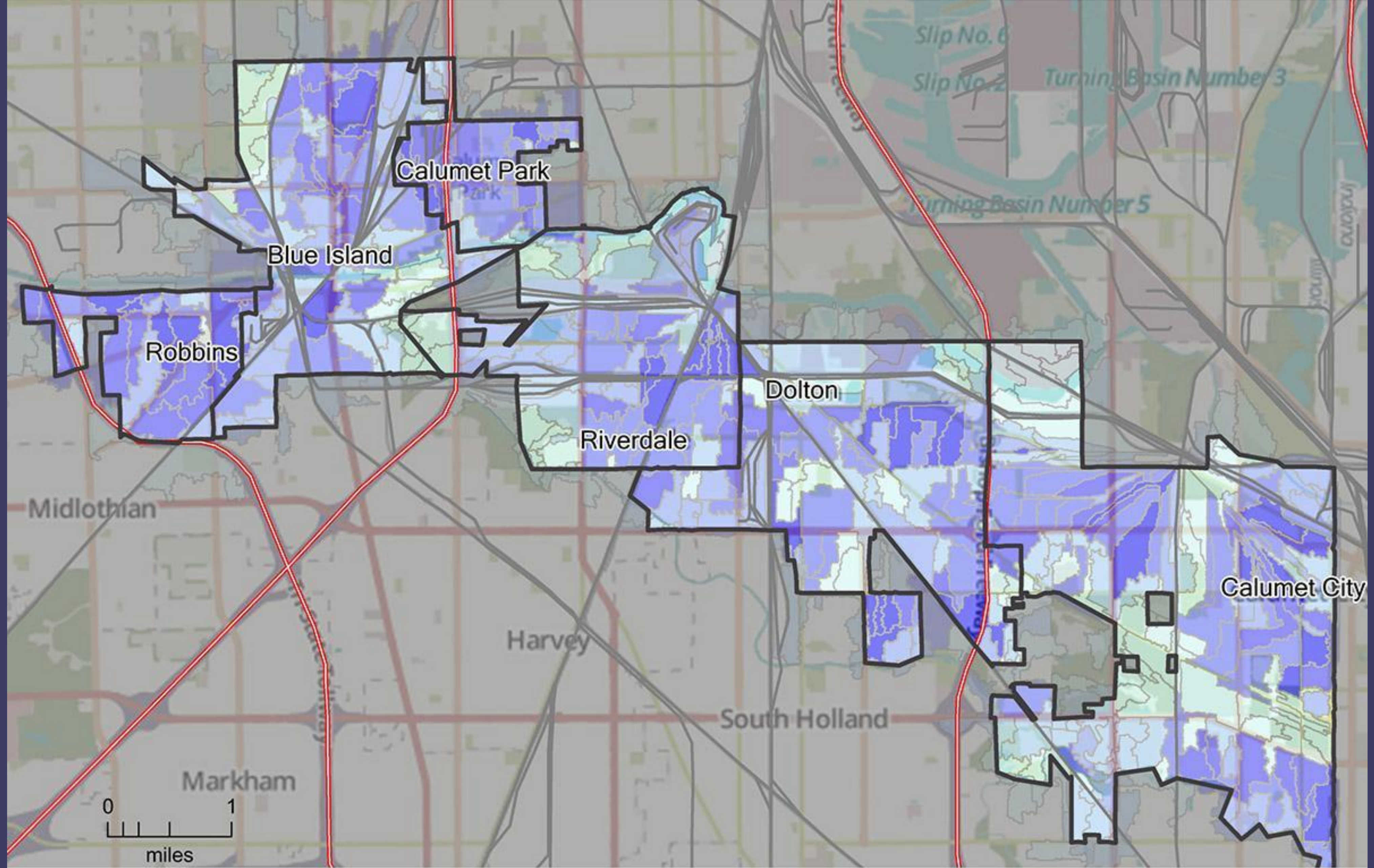


FIGURE RR-9:
The Path Towards Resilience



THE PATH FORWARD



REORIENT

Strategy 1. Build capacity to make well-informed decisions and execute them

Strategy 2. Plan and implement projects collaboratively

Strategy 3. Promote smart, equitable, and resilient land development

Strategy 4. Prepare your community for future shocks and stresses



REPAIR

Strategy 1. Document your municipal sewer and stormwater drainage system

Strategy 2. Inspect and evaluate your municipal sewer and stormwater drainage system

Strategy 3. Rehabilitate your municipal sewer and stormwater drainage system

Strategy 4. Maintain your municipal sewer and stormwater drainage system



★ RETROFIT

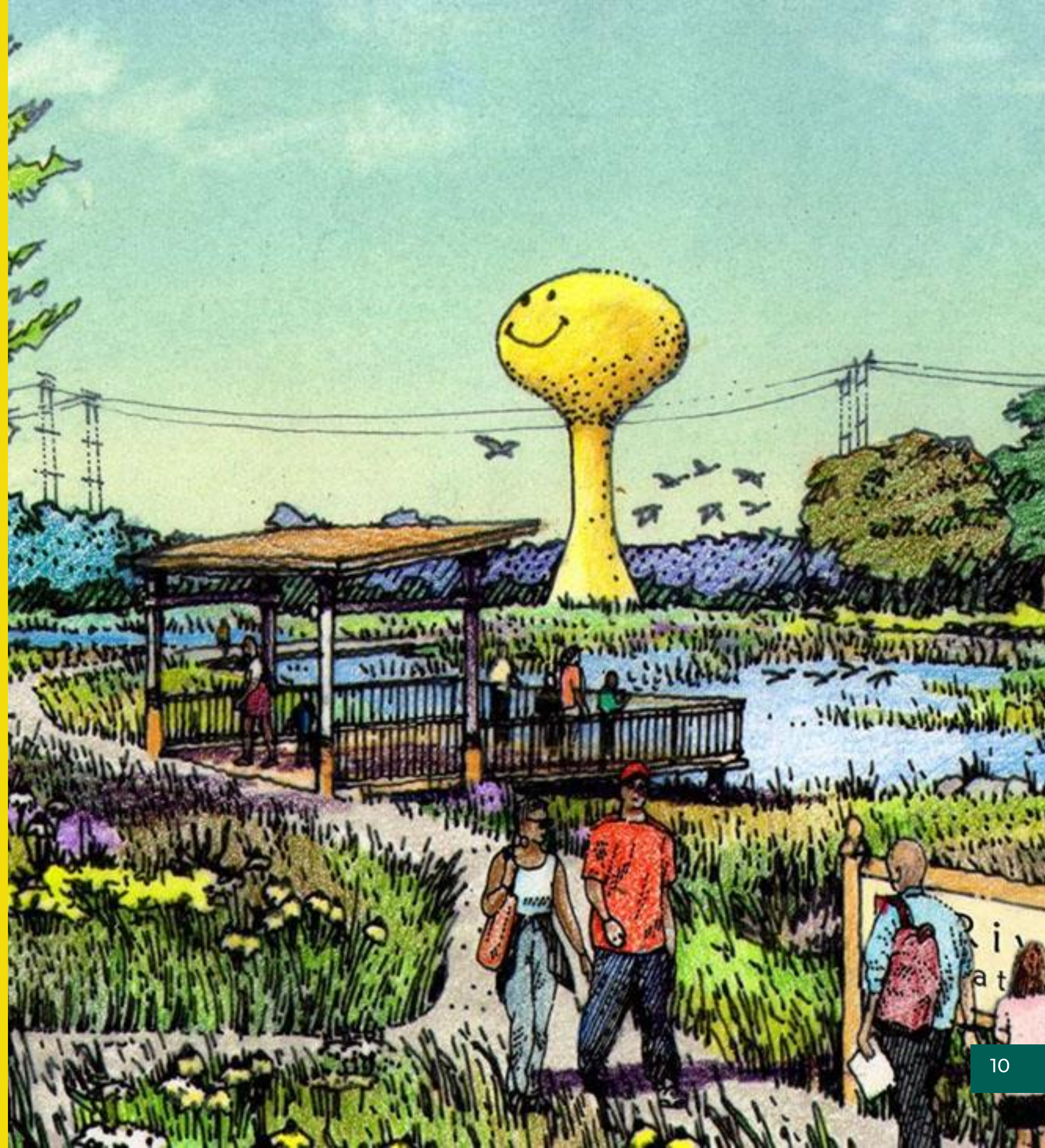
Strategy 1. Retrofit your homes and neighborhoods

Strategy 2. Retrofit your shopping areas, business districts, and downtown areas

Strategy 3. Retrofit your industrial centers and railroad corridors

Strategy 4. Retrofit (restore) your open space and natural areas

PROJECT PRIORITIZATION



GUIDING PROJECT PRINCIPLES

Considerations for project prioritization and selection.

PRIMARY

STORMWATER BENEFITS

Direct investment toward areas that have the most significant urban flooding issues. Choose projects that have greatest potential to manage significant stormwater volume.

CO-BENEFITS

Prioritize projects that have potential to incorporate co-benefits prioritized by the Steering Committee.

SECONDARY

BENEFITS THE PUBLIC

Direct investment toward projects that have the greatest potential to benefit the general public, rather than a small subset of residents or business owners, and/or are public facing.

MAINTENANCE CAPACITY

Ensure long term stewardship & sustainability of infrastructure by selecting landowners that have sufficient capacity to maintain GSI.

DEMONSTRATE PROOF OF CONCEPT

*Select higher profile projects that can compel future investment and serve as a launch pad for more wide-ranging plan implementation.
Select projects that lend themselves to ongoing monitoring.*

PRIORITY CO-BENEFITS



BEAUTIFICATION

Beautiful, maintained landscaping are placed where people can enjoy the view.



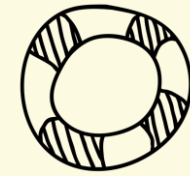
PHYSICAL HEALTH

Green space draws people outside to walk, bike, and play, and get our bodies moving.



MENTAL WELLBEING

Research shows that green space can help reduce stress and improve mental well-being.



PERSONAL SAFETY

Well maintained green spaces can deter illegal activities, making communities safer.



PEDESTRIAN SAFETY

Attractive landscaping often slows down drivers which makes the space safer for walkers and bikers.



FOCUS + CONCENTRATION

Views of nature improve focus and concentration.



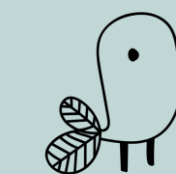
GATHERING SPACE

Beautiful learning and gathering places can foster a sense of community and belonging.



AIR QUALITY

Plants - especially trees - can filter the air, making it cleaner to breathe.



HABITAT

Native plants attract pollinators like butterflies and bees and offer shelter and food for beneficial insects and birds.

Naturalized Detention Basin

STORMWATER BENEFITS

CO-BENEFITS

- Beautification
- Mental well being
- Biodiversity
- Habitat



Vacant Lot Revitalization

STORMWATER BENEFITS

CO-BENEFITS

- Beautification
- Mental well being
- Biodiversity
- Gathering space
- Personal safety



Digital rendering of vacant lot revitalization in St. Louis, MO.
Source: Greenprint Partners

QUESTIONS? RESOURCES?

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