

# **OUTLINE**



- Two communities, two heros
- National recognition on urban flooding
- Designing services for reducing it



# **OVERVIEW**

- National non-profit
- Founded in 1978 + headquartered in Chicago
- Urban sustainability

### RainReady services

- Launched 2014
- Complete 'end-to-end' service package
- Assessment, information, financing, construction
- Home, neighbor, community, watershed
- Replicable model, national expansion















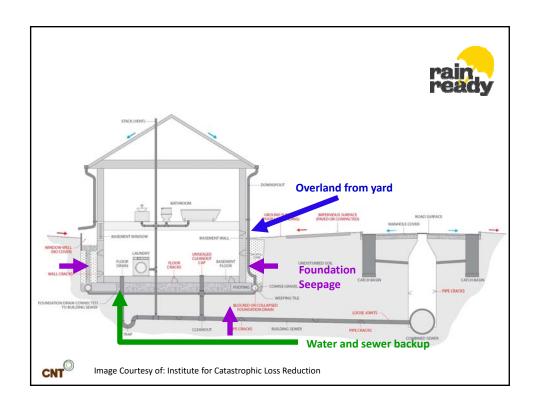






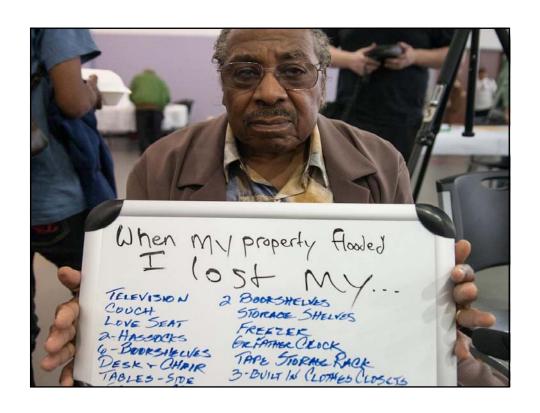






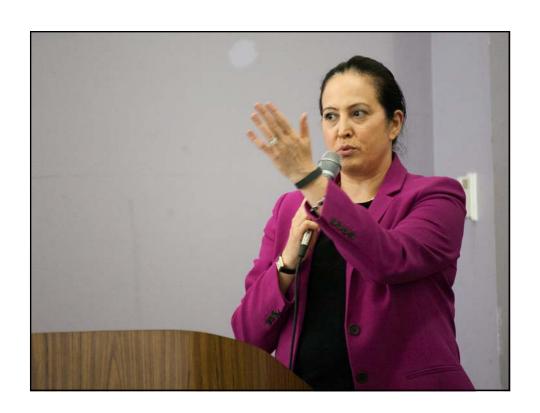






















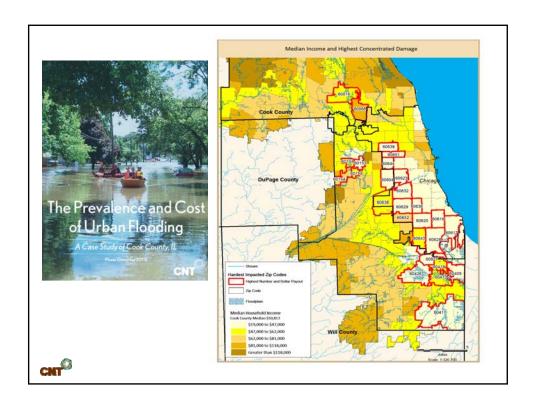


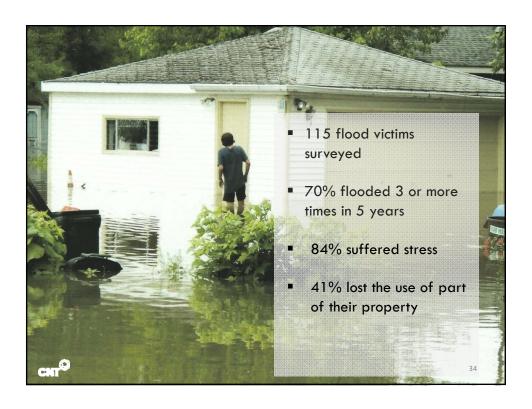


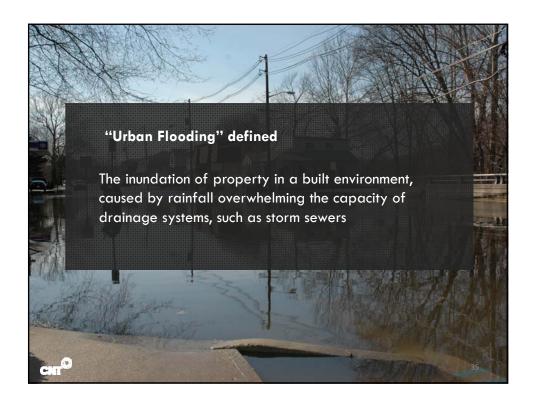






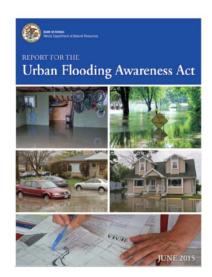






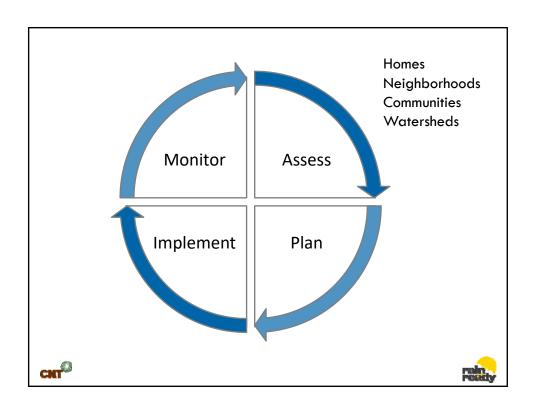


- Claims filed in 99% of Illinois counties
- Flood damages between 2007-2014, \$2.3 billion
- Half of it private insurance
- Over 90% outside of mapped floodplains
- No correlation with the floodplains

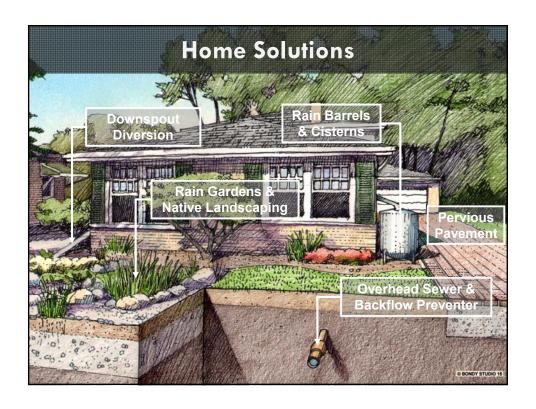




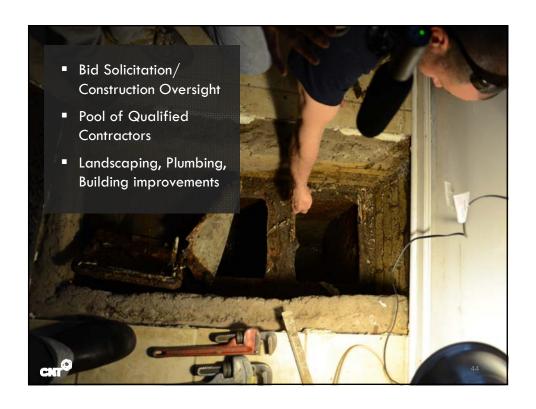












- Detail of Risk
- Home improvements: landscaping, plumbing, building



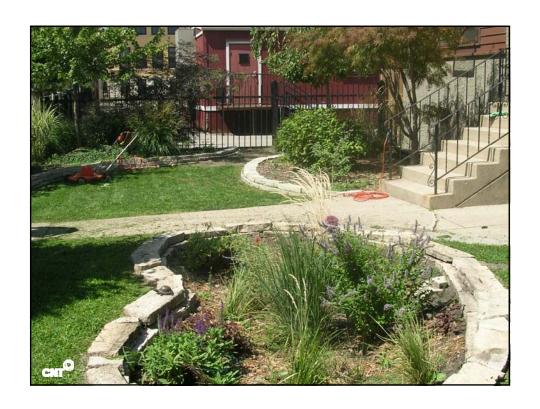
Projects		Measure	Detail
1	Divert stormwater from entering property at alley.	Install curb (~3-4") along extent of eastern property line at edge of parking pad.	Anticipated Maintenance: N/A Cost Range Estimate: 5600-54,300 Optional: Reconstruction of existing stair. Notes: May require coordination with neighbors to ensure proper diversion.
2	Capture rainwater in landscape areas	Install rain garden with below-grade storage along eastern edge of patio.     Install permeable paving in place of existing patio area to drain to rain garden.	Anticipated Maintenance: Seasonal weeding and care of rain garden. Removal of debris for permeable surface. Cost Range Estimate: \$3,600-\$4,800
3	Drain flood water s from sidewalk and under porch to catchbasin	Clean and repair floor drain Clean silt and debris from existing catch basin. Install area drain from sidewalk adjacent to south façade to catchbasin	Anticipated Maintenance: Removal of debris contributing to area and floor drains. Cost Range Estimate: 5800-51,200
M	AINTENANCE	•	Total Estimated Cost: \$300-\$700
Pro	ojects	Measure	Detail
1	Regular Building Sewer Inspection and Cleaning	Televise building sewer     Rodding of building Sewer	Anticipated Maintenance: Annual televising and cleaning, as recommended by reviewing contractor.  Cost Range Estimate: \$200-5500/year Optional: Chemical treatment of drain to prevent root growth.
2	Regular Gutter Cleaning	Removal of leaf and organic debris from gutter.	Anticipated Maintenance: Annual televising and cleaning, as recommended by reviewing contractor. Cost Range Estimate: \$100-200/year

















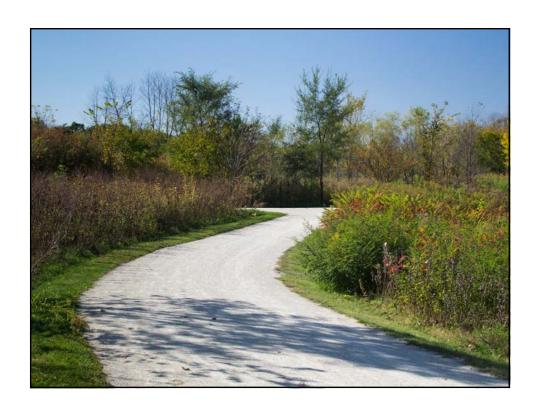


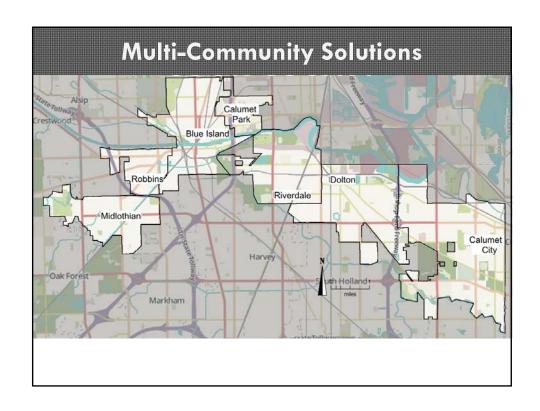


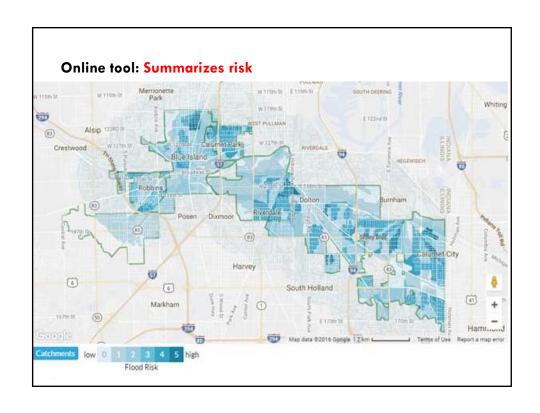


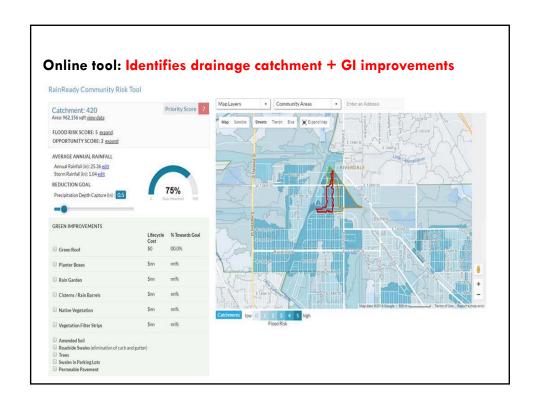


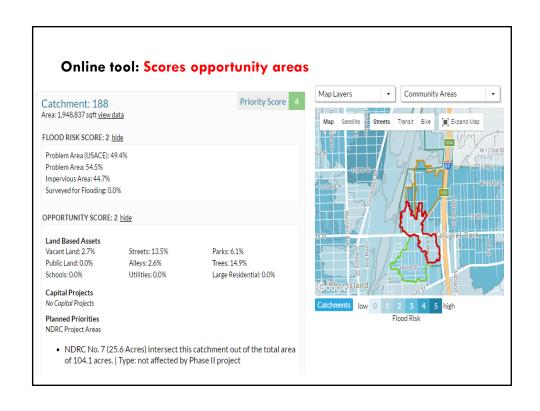




























# \$10M for Midlothian!

- Active Transportation Alliance Healthy Hot Spots Program
   \$39K, Complete Streets Policy
- Morton Arboretum EAB Replacement \$18K
- NPS Rivers, Trails, and Conservation Assistance Program,
   Natalie Creek Multi-Use Trail Plan
- Illinois Green Infrastructure Grant from the IEPA Bureau of Water - \$68K, Village Greenway Project (Permeable Parking Lot & Rain Garden)
- Illinois Department of Natural Resources Coastal Waters
   Program \$20K, Village Greenway Project
- Openlands-ComEd Green Region Program \$10K Village
   Greenway Project
- CMAP LTA, 147th Street Corridor Study \$80K
- South Suburban Mayors and Managers Association Planning Technical Assistance, Natalie Creek Multi-Use Trail Plan
- Metropolitan Water Reclamation District Natalie Creek
   Improvements \$8.3m

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## CONCLUSION

#### Flood risk in cities:

- Prevalent + repetitive
- Under-reported + hidden from public view
- Chronic: property damage, raw sewage, mold, foundation cracks, stress
- Expensive \$5,000 +
- Low income communities most vulnerable
- Does not correlate with the mapped floodplain



### Residents are critical to solving the problems:

- Major stakeholders: paying the price for flooding, and for the solutions
- Runoff derives from public + private infrastructure
- Properties often flood themselves
- Well organized, articulate community leaders can have a disproportionate impact
- And because social organization bring resilience



