

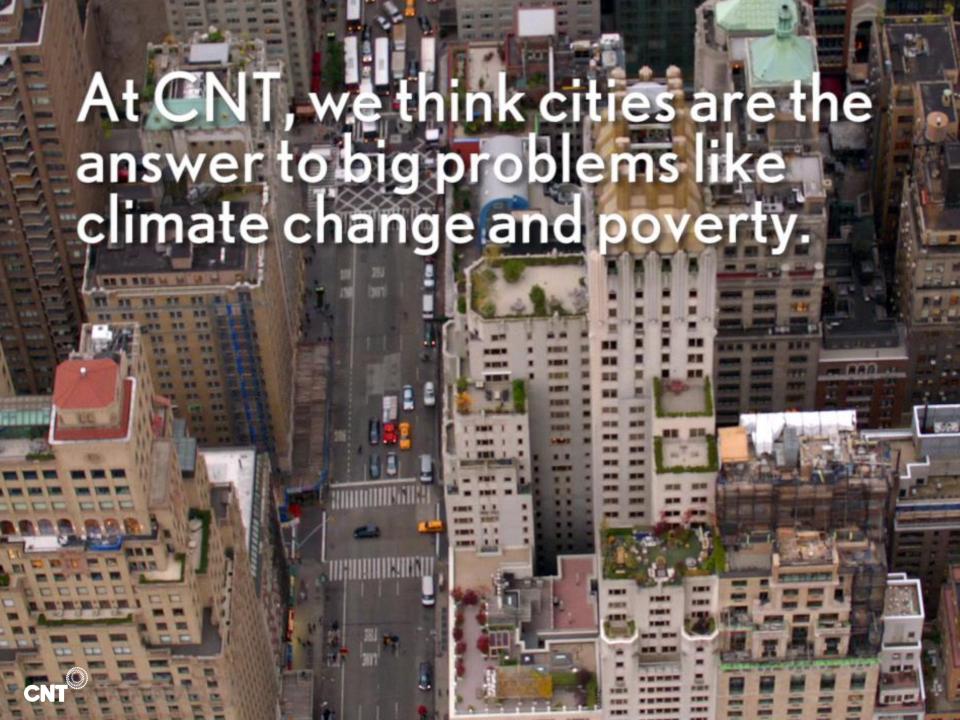
## ITKAN - CNT Presentation

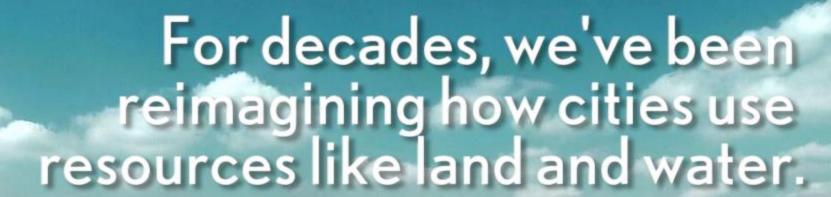
March 14, 2019













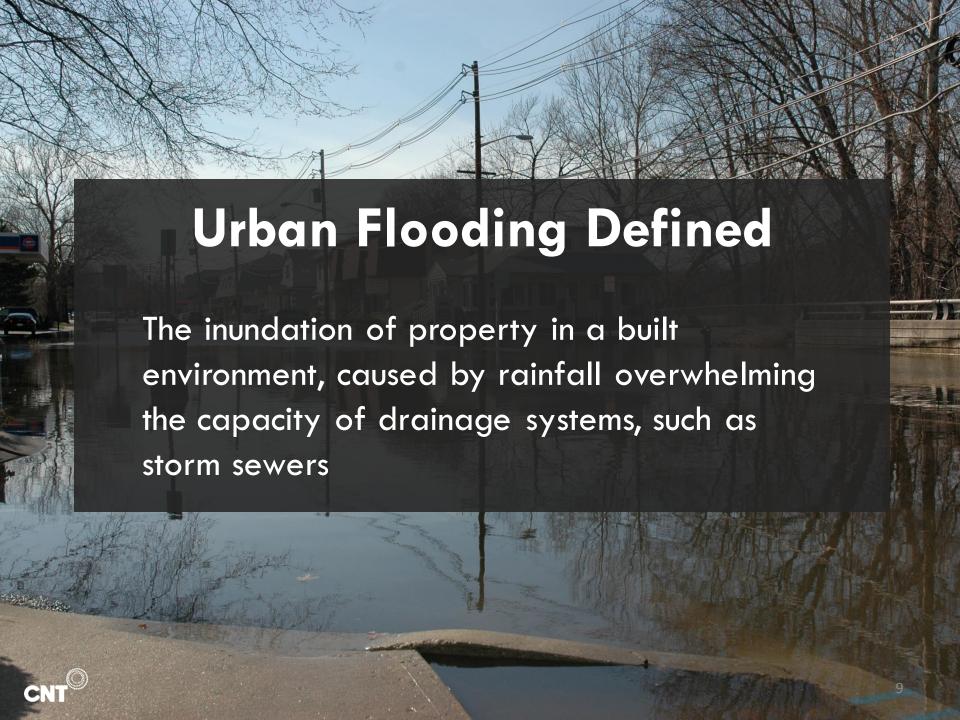




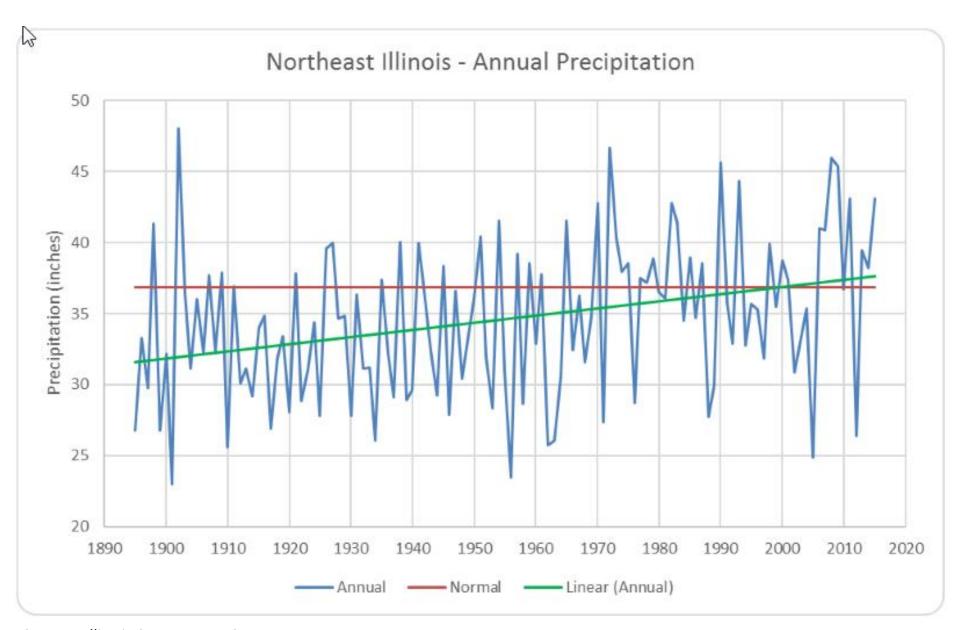


# URBAN FLOODING

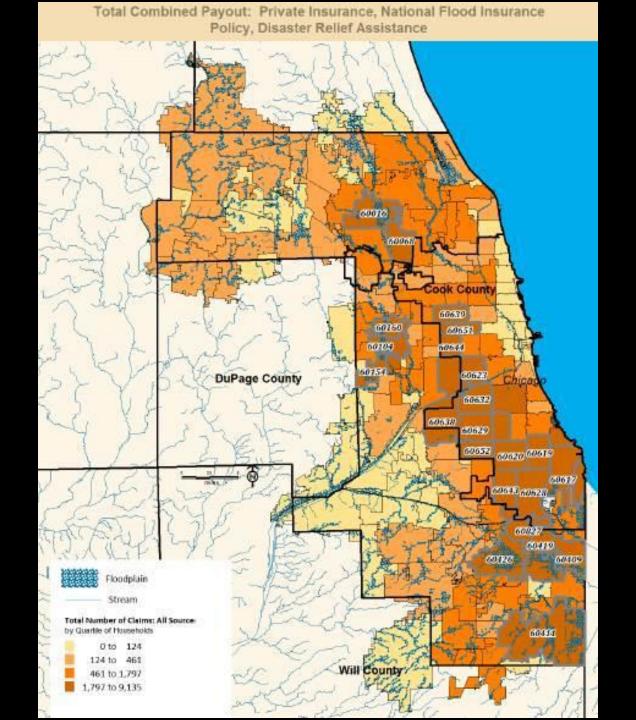


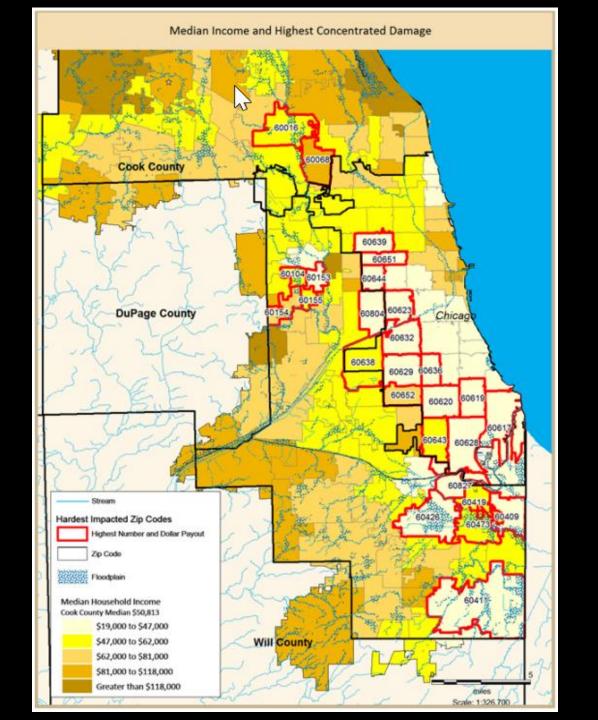






Source: Illinois State Water Survey





## **Tunnel Vision**

Chicago tried to dig its way out of urban flooding decades before climate change made it a national crisis. Did the city, and its imitators, pick the wrong solution?

By HENRY GRABAR

JAN 02, 2019 · 5:50 AM



Construction workers lean in to discuss the project over the noises echoing throughout the Deep Tunnel. David Schalliol

#### The Value of **Green Infrastructure**

A Guide to Recognizing Its Economic, **Environmental and Social Benefits** 





































- How Landscapes Work
- About This Site
- Resources



#### Welcome to the Green Values® Stormwater Toolbox

Learn what green infrastructure is and does.

Learn how the use of green infrastructure saves money.

Understand the costs and benefits of using green infrastructure to mitigate the need for different types of built water infrastructure, such as sewers and detention basins.

Search our comprehensive bibliography for more information.

The Green Values® Stormwater Toolbox was originally developed primarily for use by planners, engineers and other municipal staff. As a result, we've tried to err on the side of giving too much technical information. However, we recognize that individuals are also interested in the benefits of green infrastructure, both for individual sites and to influence public policy.

#### **Green Values Calculators**



National ( Green Values™ Calculator



Original ( Green Values™ Calculator



Chicago ( Green Values™ Calculator

This site is made possible by generous grants from The Joyce Foundation and from the Governor of Illinois and the Illinois Environmental Protection Agency through Section 319 of the Clean Water Act.

What is Green Infrastructure? How Landscapes Work About This Site Resources Feedback

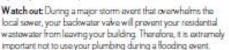
© Copyright 2004-2013 Center for Neighborhood Technology.

### RainReady Home Recommended Improvements



#### BACKWATER VALVE REDUCES BASEMENT BACKUP

What it does: Prevents sawage from backing up into your basement by installing a one-way flap in your private building sawer. Think of it as a one-way swinging door - water can flow out, but if your system backs up it cannot flow back in.



What it costs: \$3,500 - \$5,000 Who to call: A certified plumber



## DOWNSPOUT DISCONNECTION REDUCES BASEMENT BACKUP BY KEEPING WATER OUT OF THE SEWER

What it does: Reduces strain on the local sewer by directing roof runoff into a rain garden, dry well, or rain barrel in your yard.

Watch out: Make sure the water discharges at least 10 feet away from your foundation to prevent seepage and foundation rot.

What it costs: \$50 - \$400

Who to call: A handyman or skilled landscaper



What they do: Store water from a downspout, bloswale, or sump pump in an underground chamber of rocks and plants.



What it costs: \$1,800 - \$2,800

Who to call: A landscaper with expertise in dry well construction



## RAIN GARDENS REDUCE BASEMENT BACKUP BY KEEPING WATER OUT OF THE SEWER

What they do: Filter and store water from a downspout, bioswale, or sump pump using porous soil and native plants.

Watch out: Rain gardens require some maintenance, especially during the first months after planting.

What it costs: \$500 - \$5,000, depending on size and whether you want to DIYI

Who to call: A qualified landscaper









