



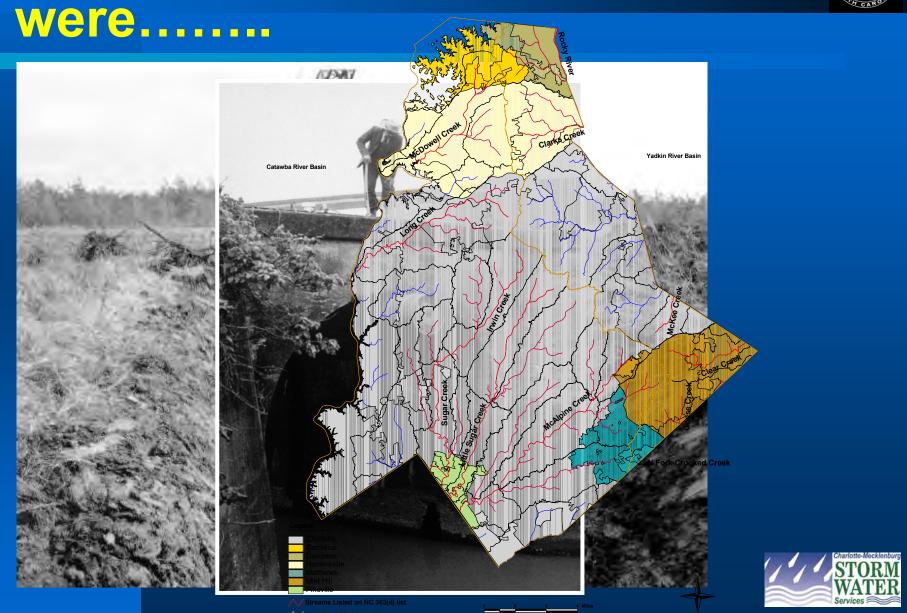
Decision Model used to Reform Charlotte-Mecklenburg's Floodplain Management Program

2017 Annual Conference



In the beginning, creeks





Flood History - 1995



♦ \$20M in losses (est.)





Flood History - 1997



- ♦ \$60M in losses (est.)
- Flooding outside floodplain
- Majority of homes flooded, again

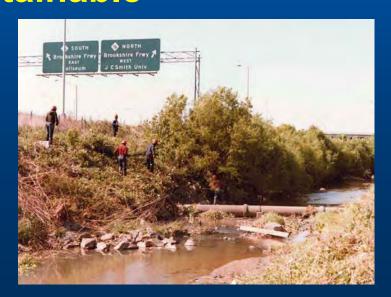




Level of Service



- Go buy flood insurance
- ◆ CRS 8, 10% discount you are welcome!!
- ♦ We will put you "on the list"
- Unsustainable







Storm Water Management Decision Model

Problems:
Situations
people are
motivated to
change

PROBLEM SOLVING CYCLE

Facts/Data

Community

Policy/ Strategy

Solutions:

Actions that solve "Problems"



Never let a good crisis go to waste Sir Winston Churchill







Facts/Data

Facts are stubborn things; and whatever may be our wishes, our inclinations, or the dictates of our passion, they cannot alter the state of facts and evidence.

John Adams

Community

Policy/ Strategy



Facts are stubborn things..... they cannot alter.... evidence. John Adams

Maps:

- Updated: 2 ft.
- Future: Add. 2 ft.
- 1 ft. encr. \neq 1 ft. rise
- Pre-FIRMs will always flood

Facts/Data

PROBLEM SOLVING CYCLE

Community

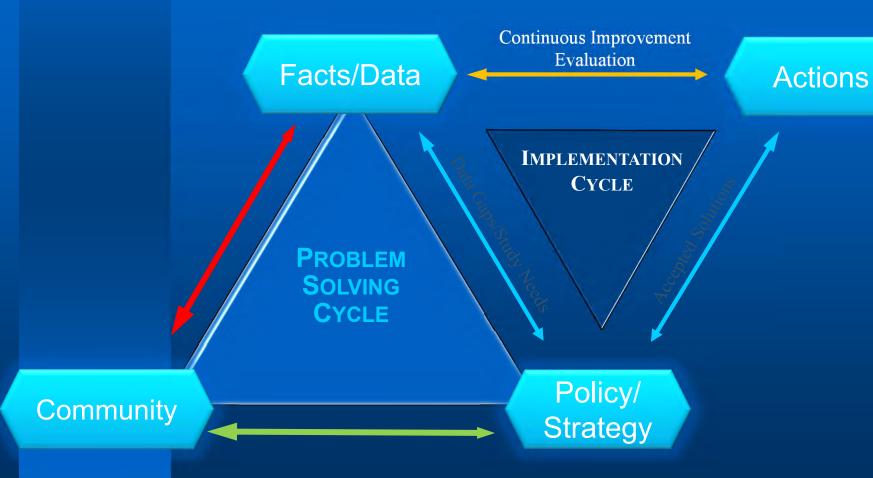
Policy/ Strategy

- Local mapping program
- Future conditions/0.1 ft. encr.
- Buyout program



Storm Water Management Decision Model

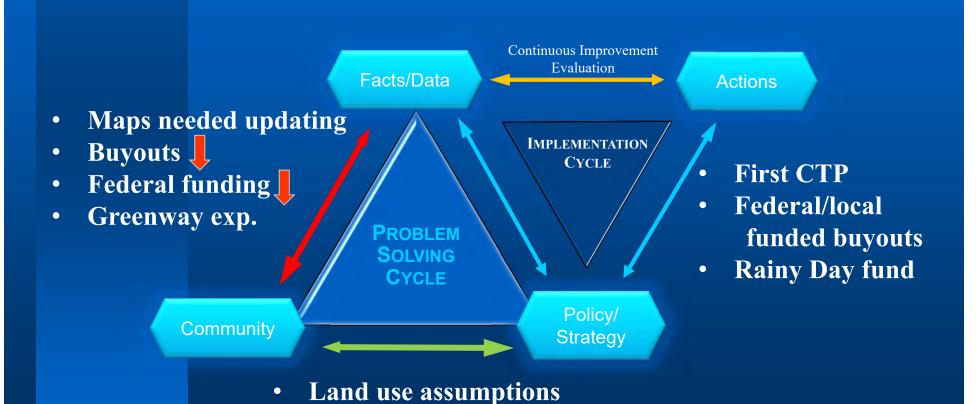






Continuous improvement is better than delayed perfection – Mark Twain





Risk Assessment/Risk Reduction

retroFIT

The End Game - Resilience

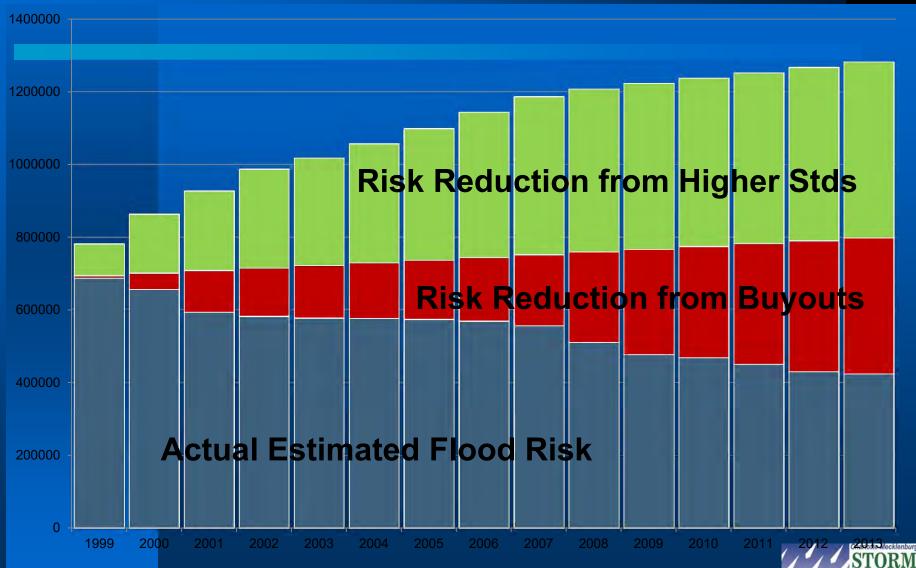


Cumulative Investment & Benefits in Mitigation



The End Game - Resilience





The End Game - Resilience



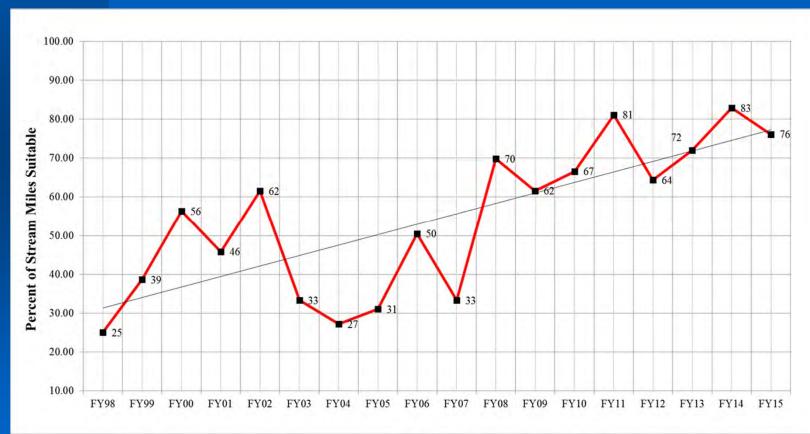
- 433 buildings demolished
- 155 floodplain acres reclaimed
- Funding 58% federal, 42% local
- Water quality is improving



The End Game - Habitat



Percent streams fishable, swimmable





Questions??





