

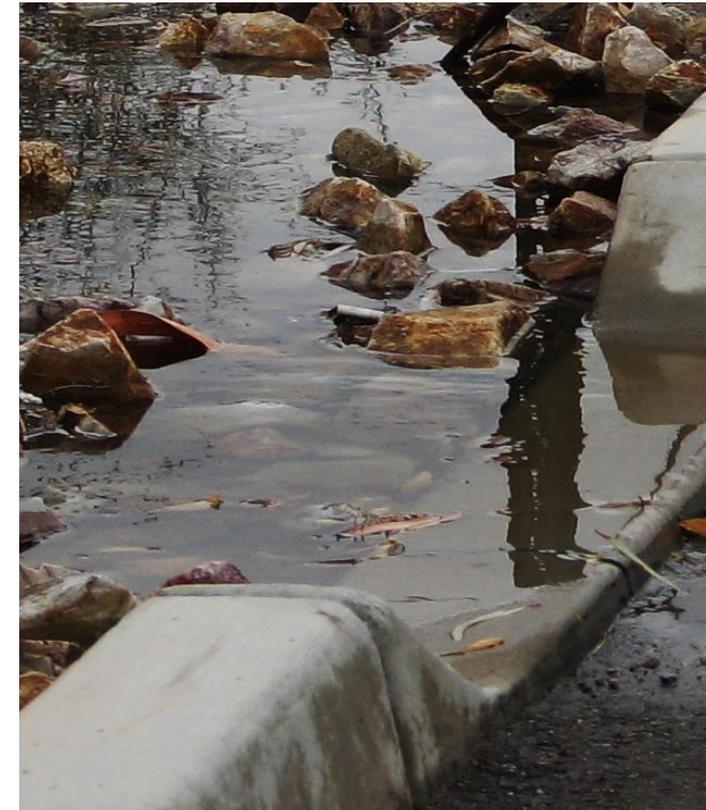
# Urban Heat Island Low Impact Development Green Streets



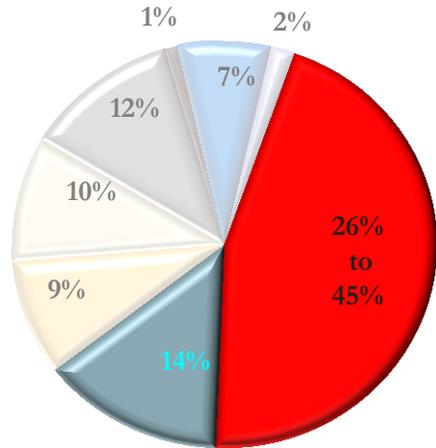
Irene Ogata, PLA, ASLA  
Urban Landscape Manager  
Office of Integrated Planning



Pima County Local Drought Impact Group  
Public Works Building, 3<sup>rd</sup> Fl.  
January 14, 2015



# Climate Change: Water Resources



- **Outdoor**
- Toilet
- Shower
- Faucet
- Clotheswasher
- Dishwasher
- Leaks
- Other

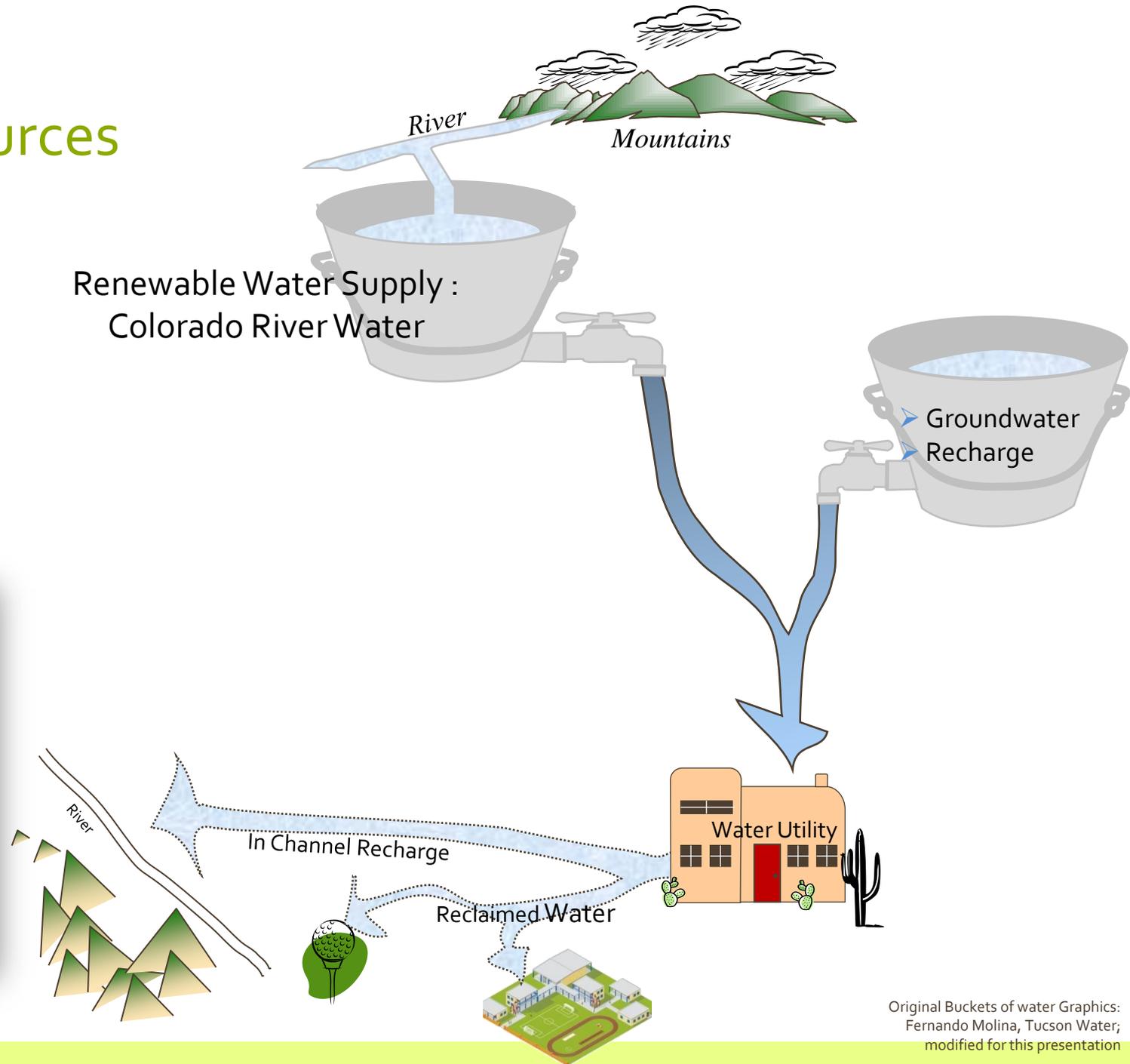


Commercial Rainwater Harvesting Ordinance



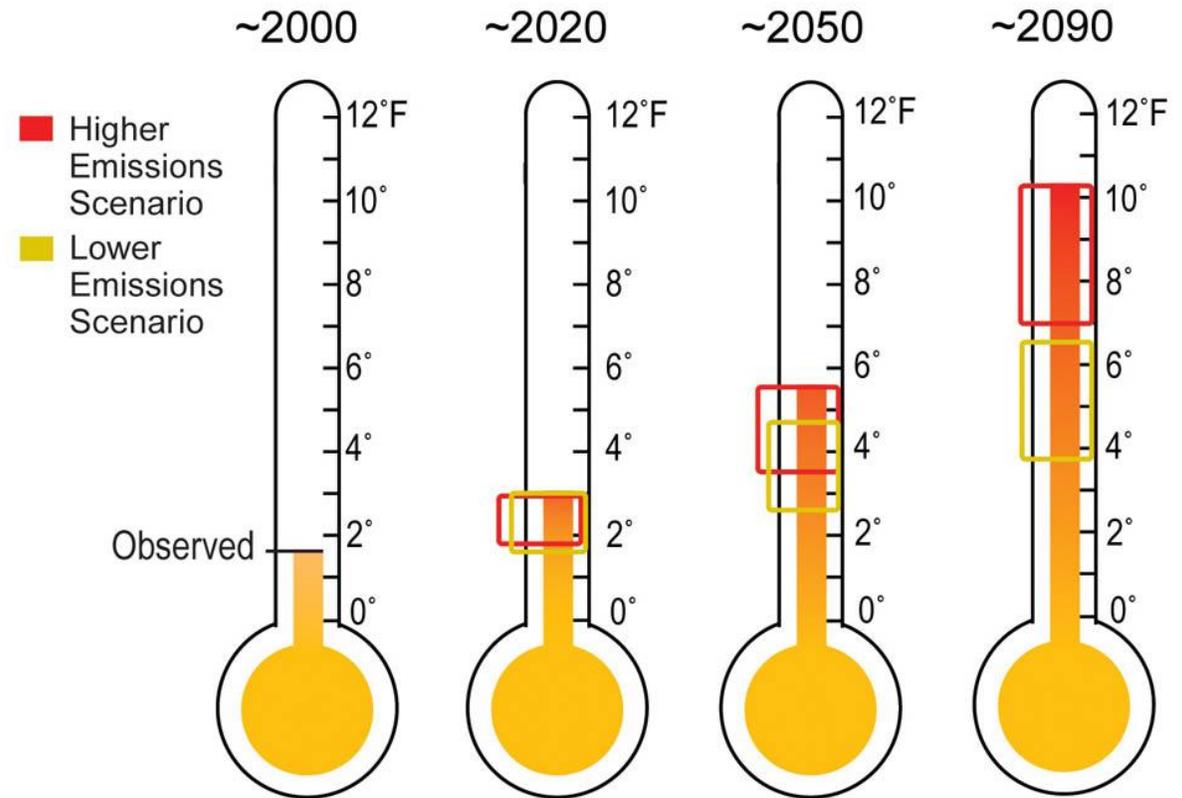
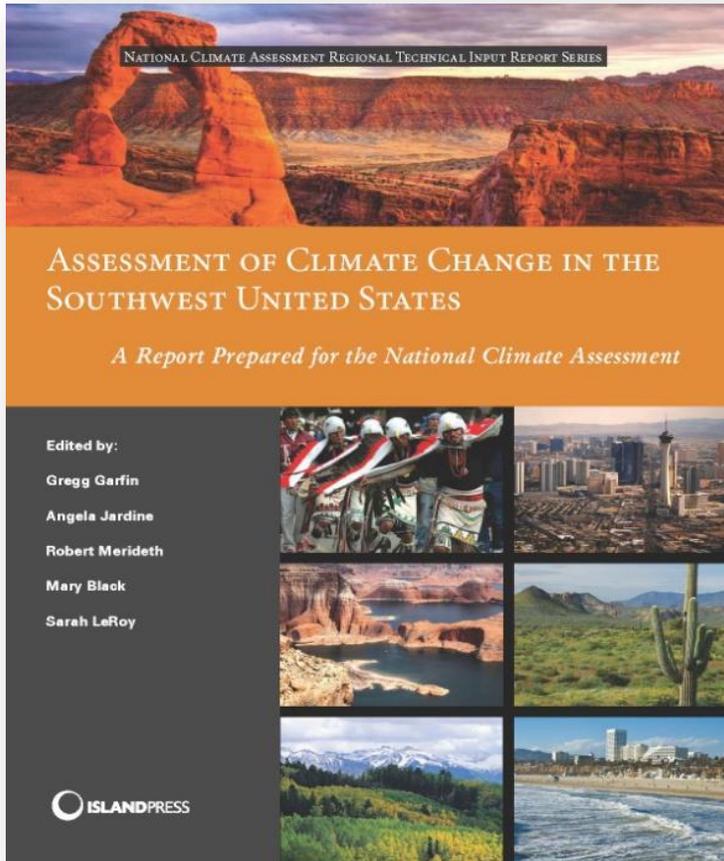
Residential Rainwater Harvesting Rebates

Renewable Water Supply :  
Colorado River Water



Original Buckets of water Graphics:  
Fernando Molina, Tucson Water;  
modified for this presentation

# Climate Change



Projection of likely temperature rise

# Climate Change Impacts: Southwest Region | 5 Sectors

**Reduced  
Snowpacks &  
Streamflows**

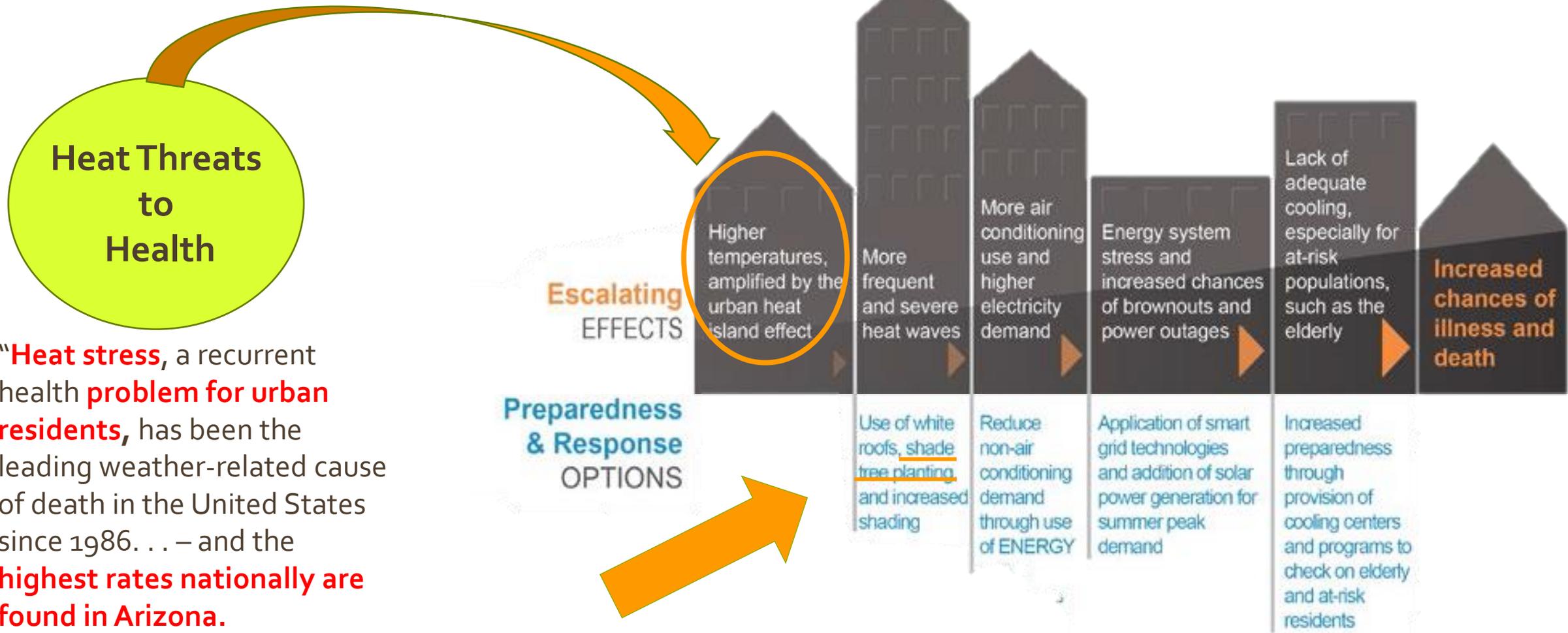
**Threats to  
Agriculture**

**Increased  
Wildfire**

**Sea level rise &  
Coastal Damage**

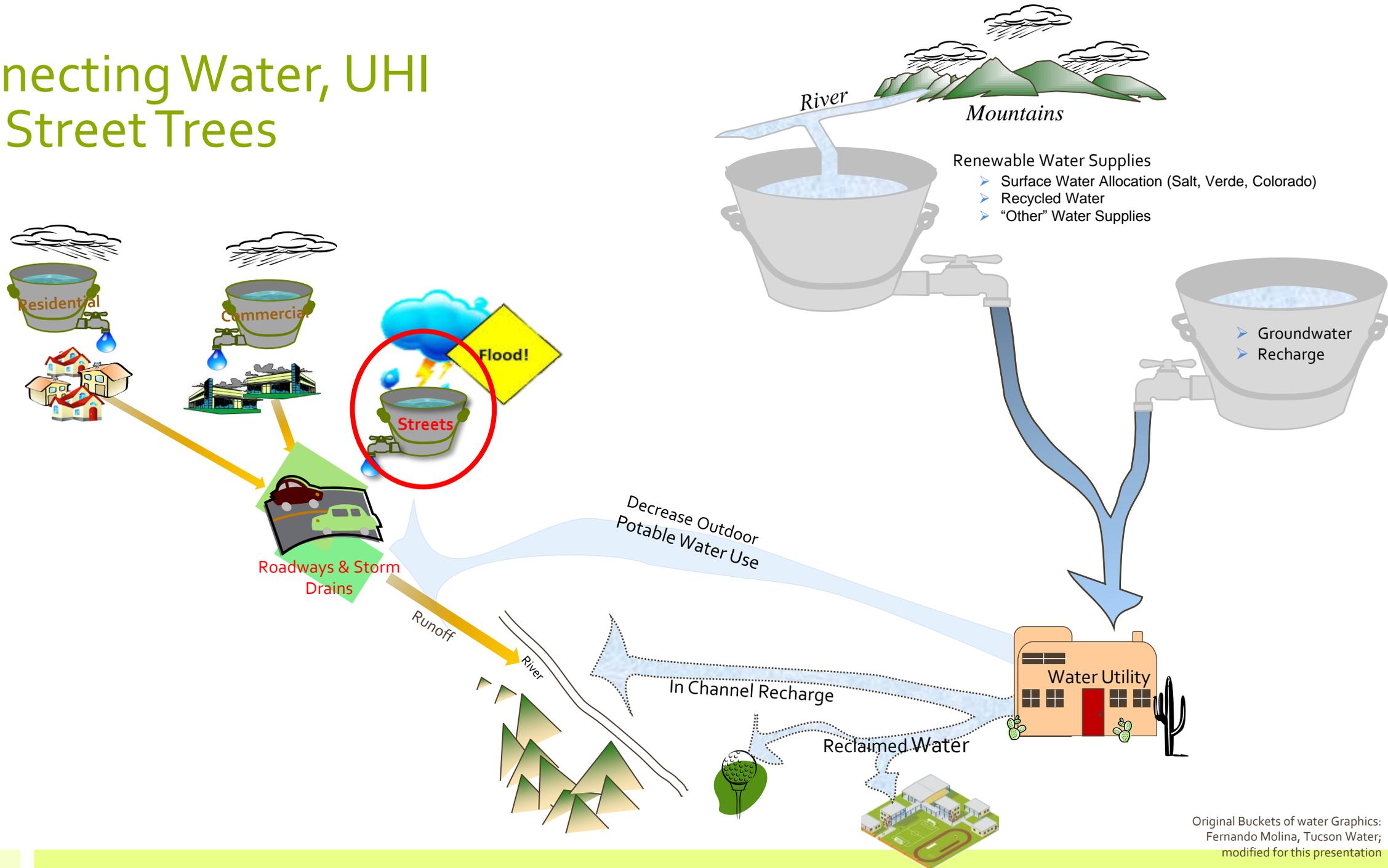
**Heat Threats  
to  
Health**

# Climate Change: Connecting the Urban Dot



“**Heat stress**, a recurrent health **problem for urban residents**, has been the leading weather-related cause of death in the United States since 1986. . . – and the **highest rates nationally are found in Arizona.**”

# Connecting Water, UHI and Street Trees



Original Buckets of water Graphics:  
Fernando Molina, Tucson Water;  
modified for this presentation

# Connecting Water, UHI and Street Trees : Grassroots

Curbs allowed by TDOT



Residential projects driven by volunteers



# Connecting Water, UHI and Street Trees : City Pilot Projects



TDOT Streets : Santa Barbara & Longfellow median



Parks + Neighborhood : Highland Vista Park



Parks : Camino Compestre



Special Projects | Rio Nuevo : Scott Ave.

# Connecting Water, UHI and Street Trees: TDOT APG Green Streets



TDOT : Houghton Road



TDOT : St. Mary's Rd | Downtown Links

# NEXT STEPS

## Metrics:

- Is it about Demand Reduction
- Do other benefits need to be part of the Water Demand Equation
- So what is GI capturing



# QUESTIONS

Irene Ogata, PLA, ASLA, AzAPA  
[irene.ogata@tucsonaz.gov](mailto:irene.ogata@tucsonaz.gov)  
Office of Integrated Planning, City of Tucson

