

One Water:

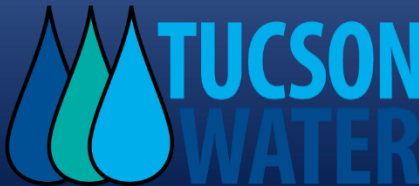
Sustainable Management of Life's Essential Resource



ONE Water **Reliability**

Irene Ogata, PLA, ASLA
Urban Landscape Manager

Public Information & Conservation Office



IV Border
Green Infrastructure Forum
Hermosillo, Sonora, MX
May 19, 2017



The Story

🔗 This is **YOUR** Story

🔗 Recap:

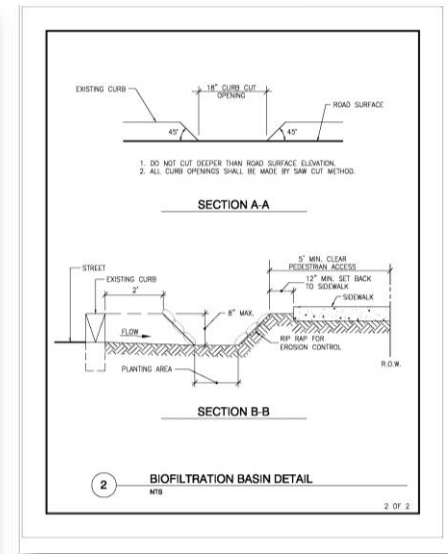
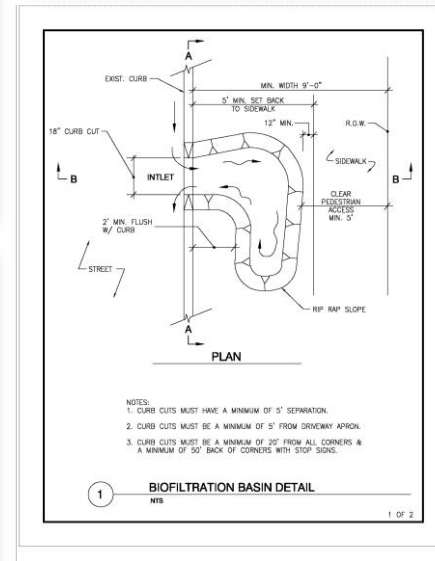
🔗 City Resiliency: Informed about GI

🔗 Benefits of GI

🔗 Global Changes Affecting Regional Practices

🔗 **ONE WATER – ONE FUTURE : Sustainability**





Lesson Learned: **Collaborations:**
 Talk the language of Green Infrastructure





Green Infrastructure Benefit

Social

- Reduced flooding
- Greenways
- Human health

Environmental

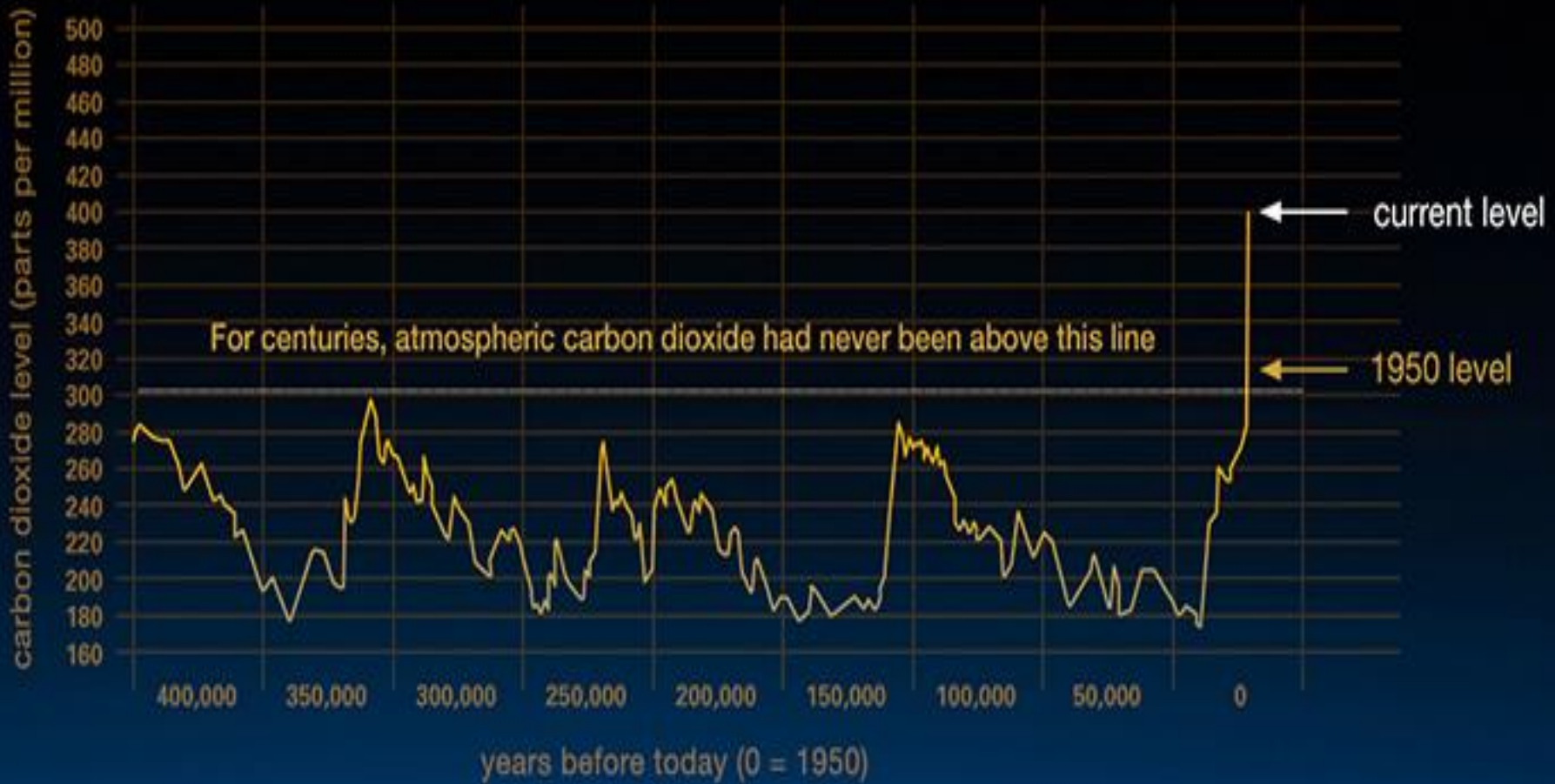
- Water quality
- Air quality
- Urban heat stress reduction

Economic

- Increase property value
- Green jobs

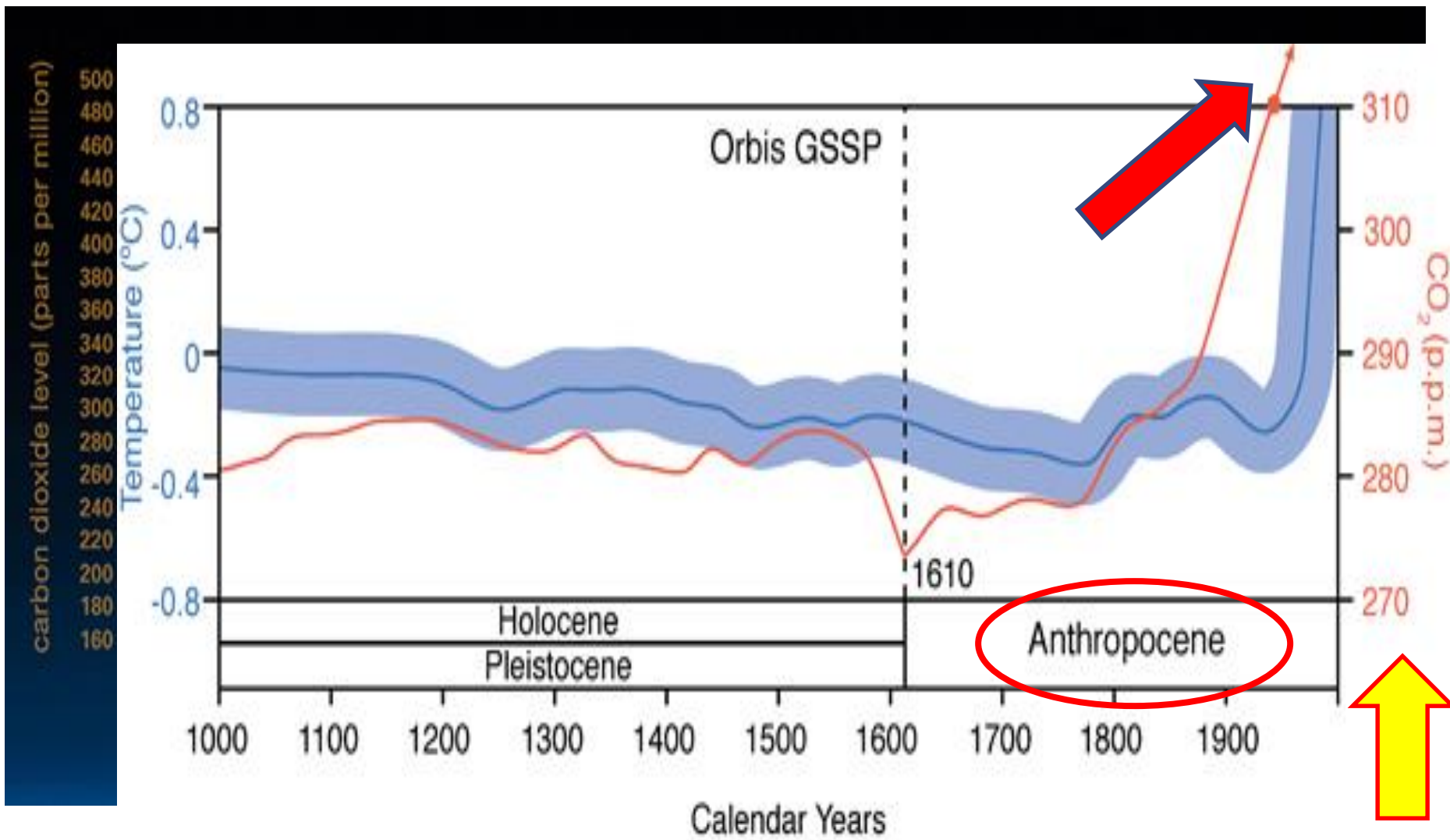
Lesson Learned: Monetizing **Benefits**
of Green Infrastructure





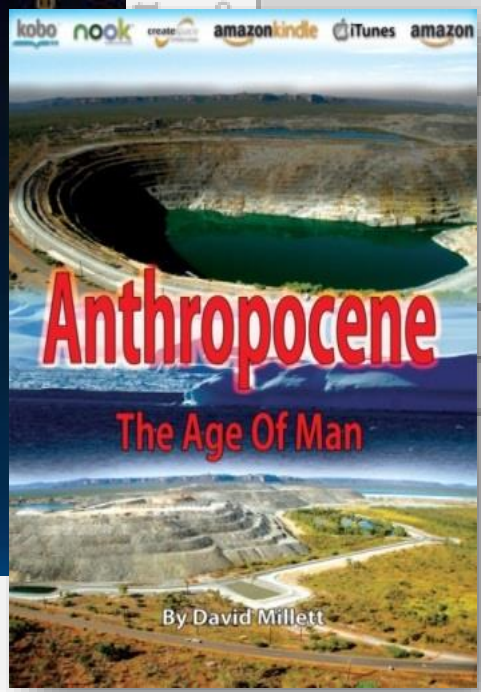
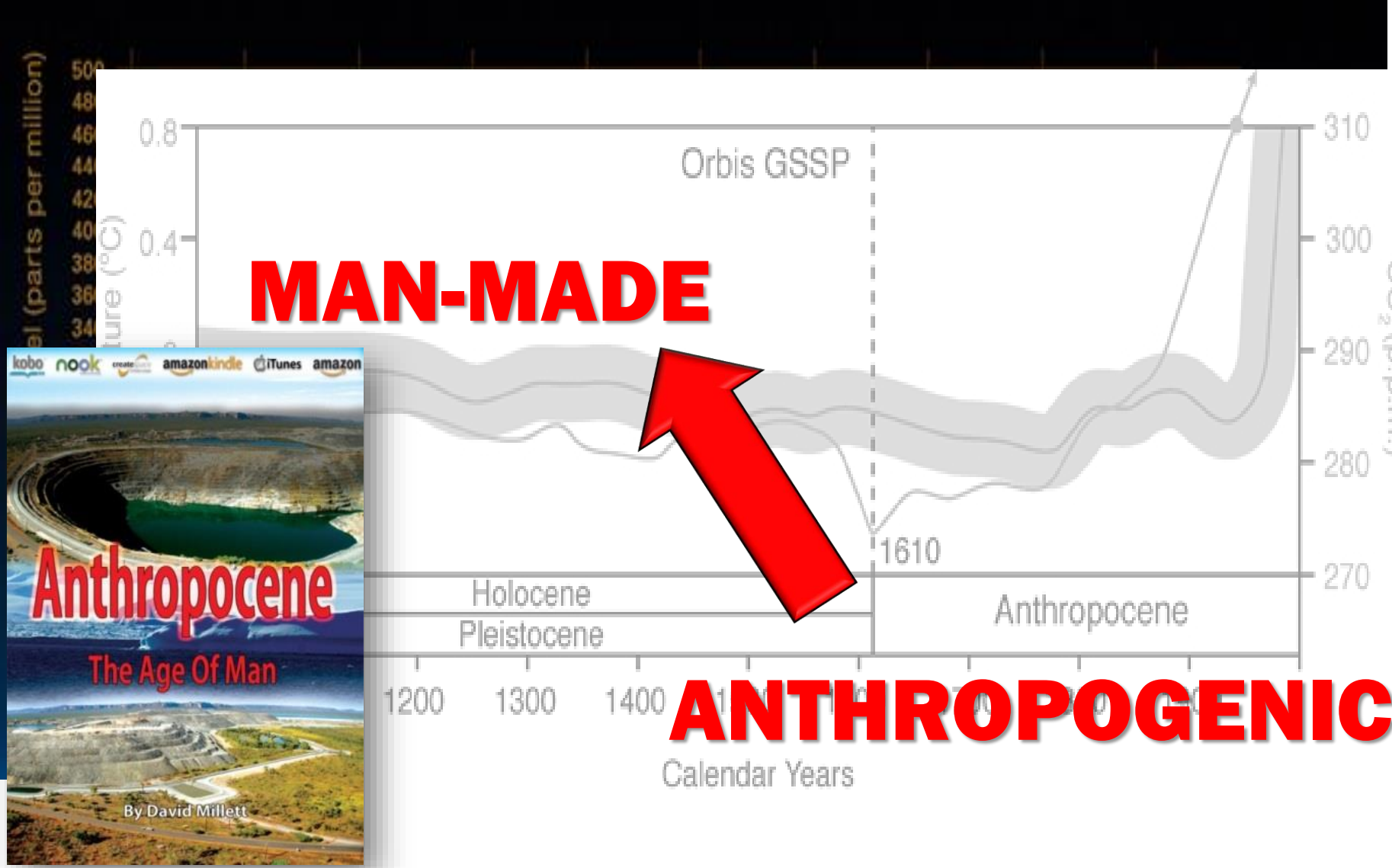
Source: http://climate.nasa.gov/climate_resources/24/





Source: <http://www.scientificamerican.com/article/mass-deaths-in-americas-start-new-co2-epoch/>





Graphic: <http://www.igbp.net/news/>

Lesson Learned: **Climate Change & Green Infrastructure**



Tucson is Committed to Ensure a Reliable Water Supply

Connecting innovative practitioners who work on a range of water management strategies including:

- Green Infrastructure
- Resource recovery
- Water Reuse
- Watershed Planning
- Climate Resiliency
- Water Efficiency



One Water
Summit 2016



One Water Approach

Unifying characteristic:

- All Water has value
- Multiple benefits
- Systems approach
- Think watershed-scale and actions
- Partnerships and collaborations



**US Water
Alliance**

Value of Water
COALITION

One Water
Summit 2016





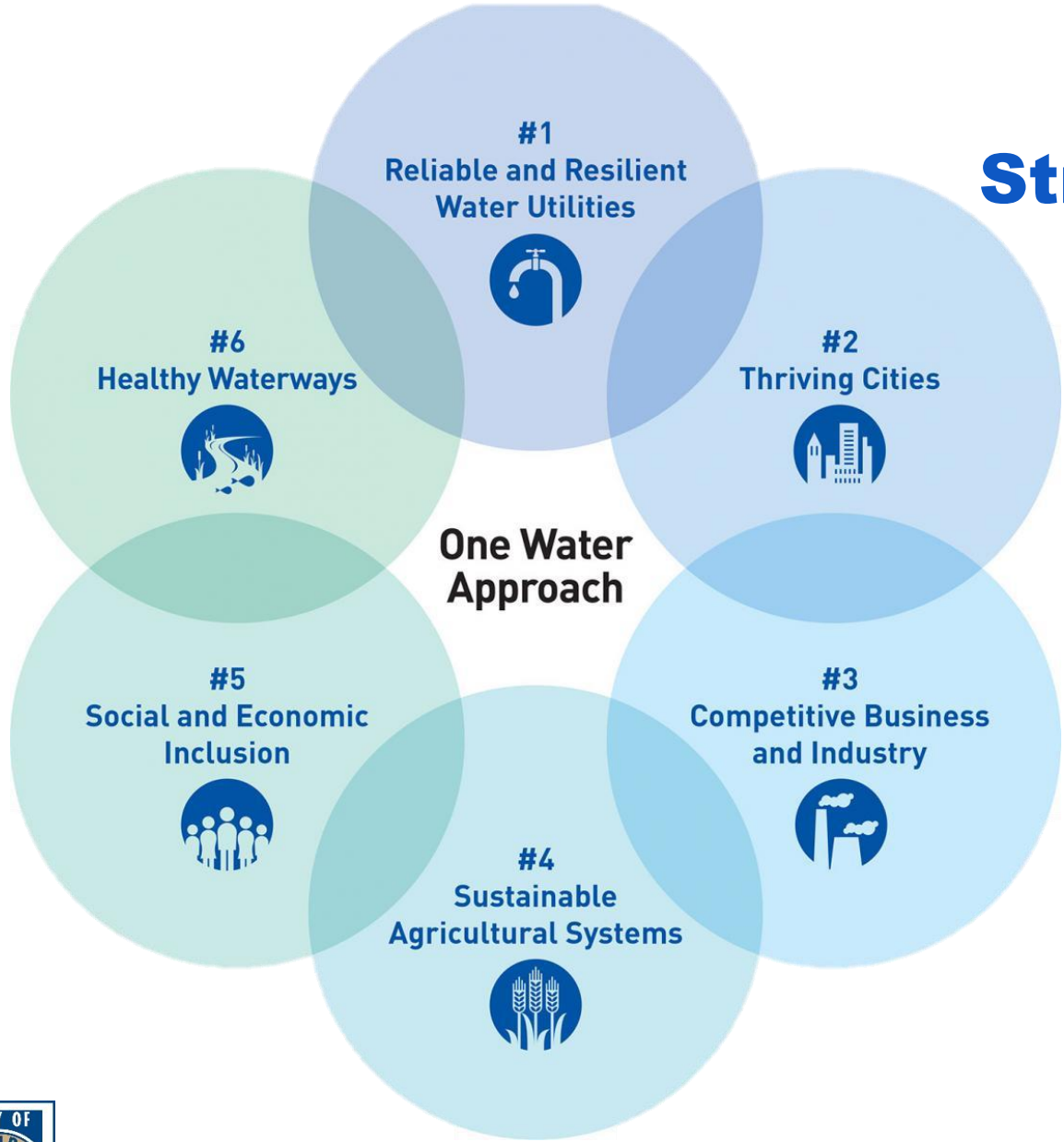
https://img.clipartfest.com/35ea2a59066ae3321793b05a580fea50_rainwater-harvesting-funny-rain-water-harvesting-system-clipart_540-807.jpeg

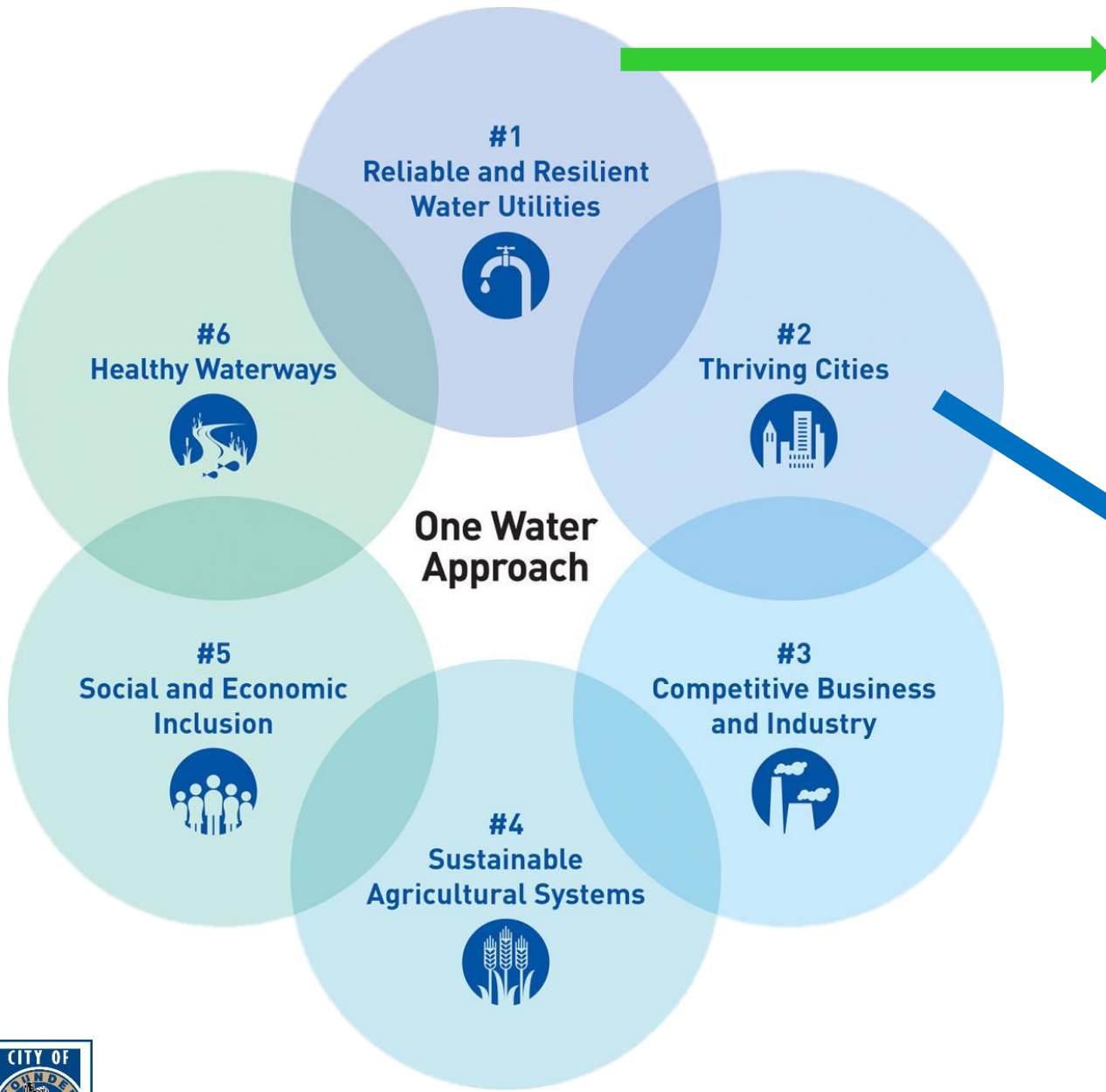
Planning for the future, we have the opportunity to re-think how we manage all water resources:

- Groundwater
- Surface waters
- Rainwaters
- Waste waters
 - Gray
 - Black
- Reclaimed waters



One Water Strategy outlines 6 areas for Action





#1
Reliable and Resilient
Water Utilities



#2
Thriving Cities



#3
Competitive Business
and Industry



#4
Sustainable
Agricultural Systems



#5
Social and Economic
Inclusion



#6
Healthy Waterways



**One Water
Approach**

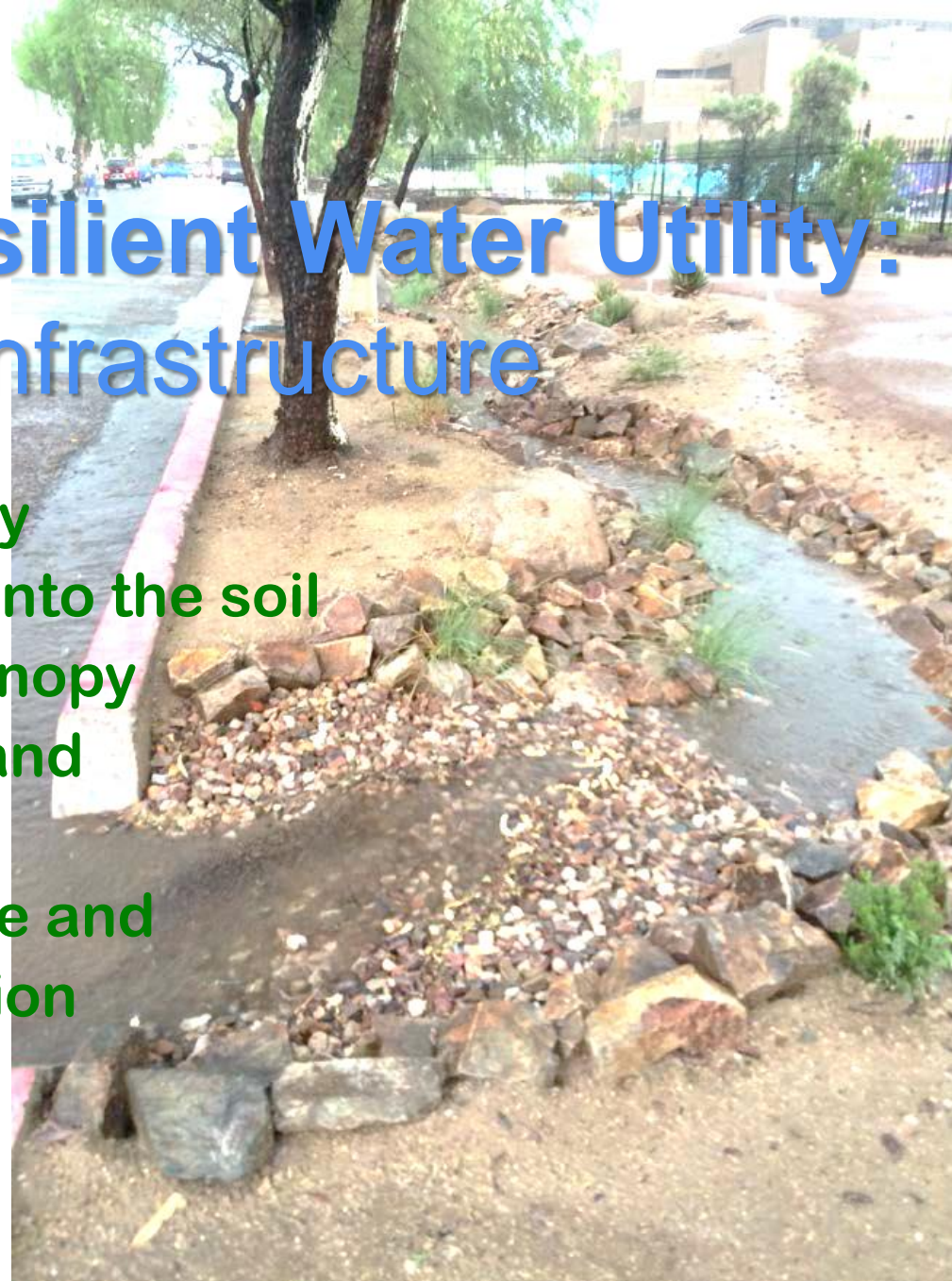
Utilizing green infrastructure to manage flooding and revitalize neighborhoods

Integrating planning across the water cycle



#1 Reliable & Resilient Water Utility: Utilize Green Infrastructure

- Tucson : Stormwater Utility
- Capturing and infiltration into the soil
 - Increase urban tree canopy
 - Mitigate urban heat island
 - Community walkability
 - Increase sense of place and
 - Community beautification



#1 Reliable & Resilient Water Utility: Wasterwater into a Resource

- Multiple agencies in Arizona working together
- Beer Challenge



#2 Thriving Cities: Integrate Entire Water Cycle

- Water Source
 - Supply > Delivery > Removal
- Watersheds
 - Mountains > Streams > Lakes



#3 Social & Economic Inclusion: Water Safety Net

- Social Justice
 - Safe, reliable access to clean water
 - Wastewater services



#6 Healthy Waterways: Healthy Ecosystems

- Water for the Environment
 - Cultivate native vegetation



Green Infrastructure Leadership Exchange

A practitioner network supporting green infrastructure communities

- Public jurisdictions
- Driver: Cities being regulated
- Tucson – building resiliency
- Sharing experiences



Green Infrastructure Leadership Exchange

A practitioner network supporting green infrastructure communities

- Maturation of GI multi-benefit strategies occurring at different rates
- Institutionalize policies to advance water equity



Green Infrastructure Leadership Exchange

A practitioner network supporting green infrastructure communities

- Cultivate partnership mindset between regulators and regulated
- Funders interested in community building and
- Resiliency to climate change



Border Green Infrastructure

Leaders and mentors supporting green infrastructure communities

- This is your community :
build capacity



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Discussion

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Water**Reliability**

