



Storm *to* Shade

City of Tucson Green Stormwater
Infrastructure Program

Water Resources Research Center
Working with Nature

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Storm to Shade

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What is GSI?

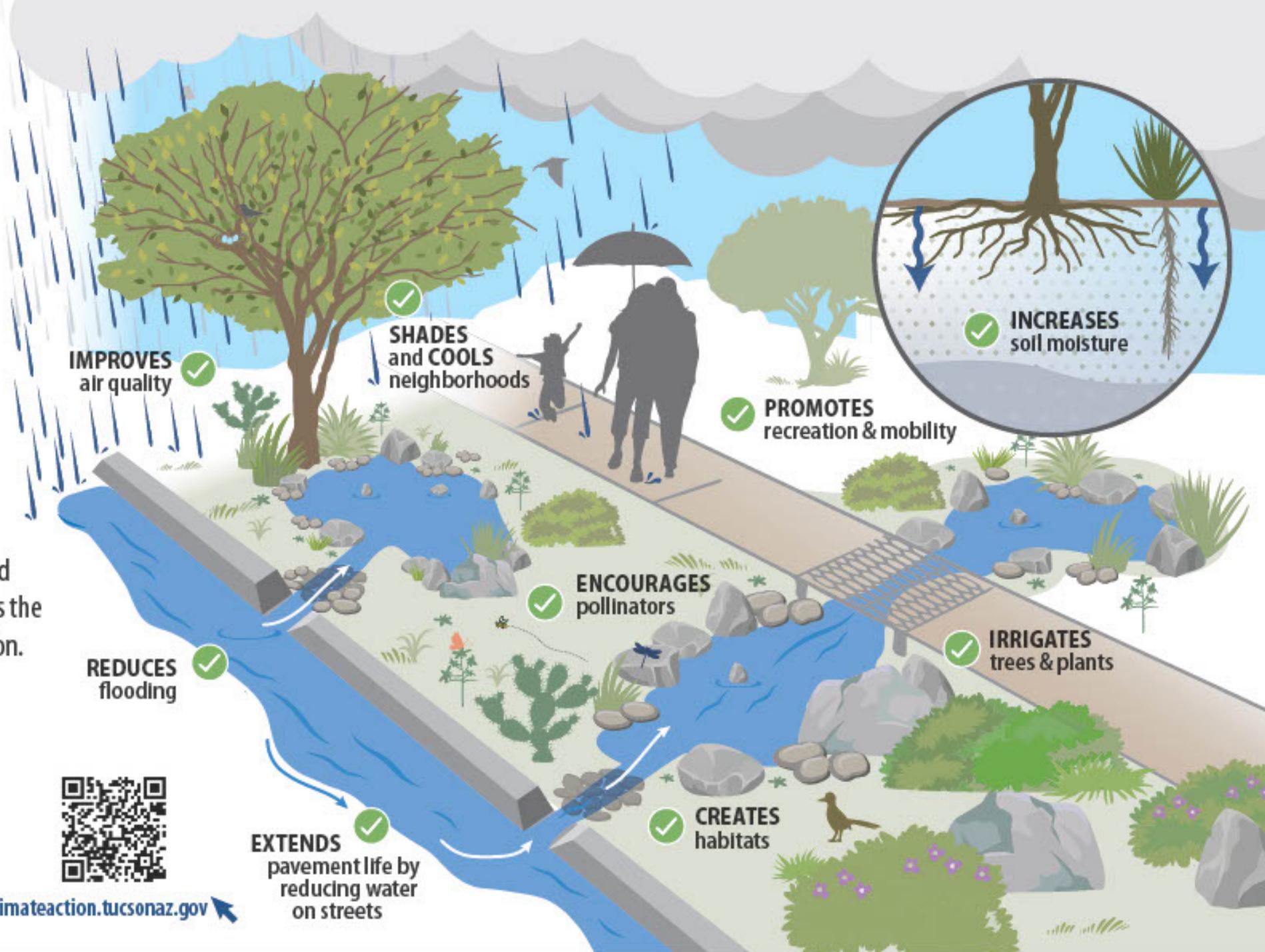
Green Stormwater Infrastructure (GSI) directs stormwater runoff from streets, parking lots, and rooftops into landscaped areas where it infiltrates the soil to support vegetation.

Find GSI at

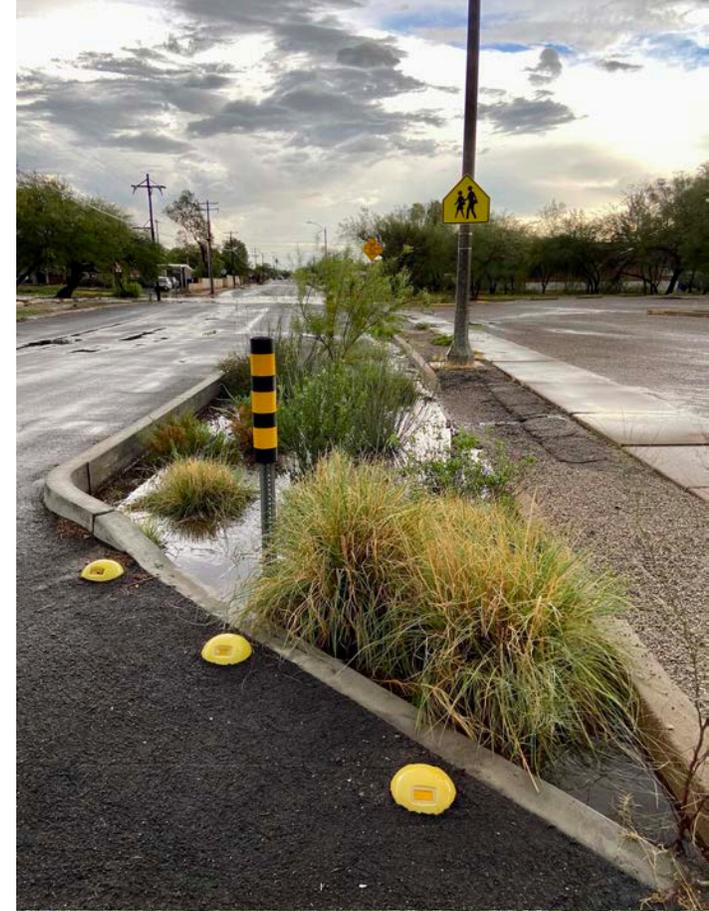
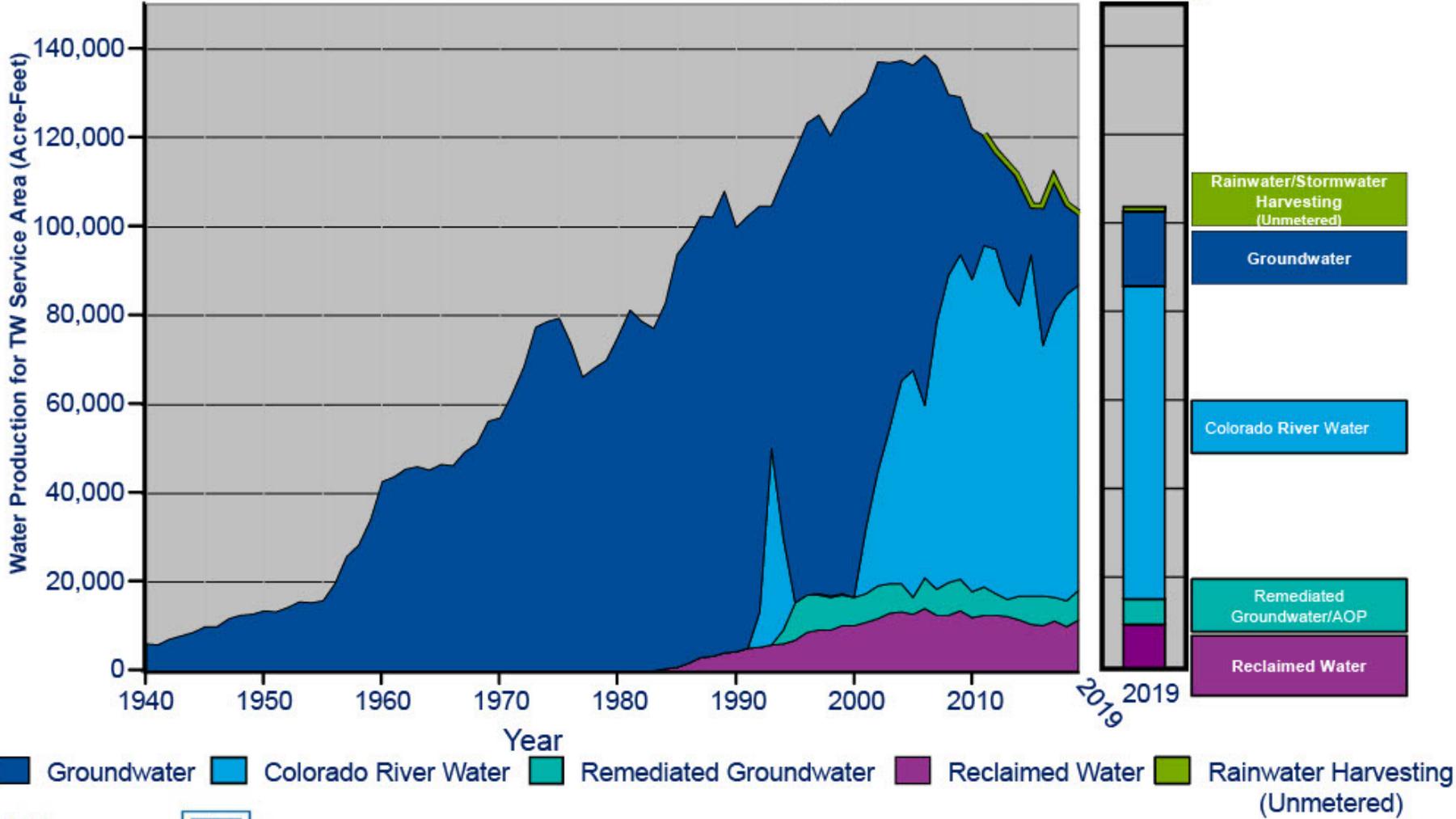
- ✓ Parks
- ✓ Greenways
- ✓ Neighborhood streets
- ✓ Bike boulevards
- ✓ Public parking lots
- ✓ Traffic circles



climateaction.tucsonaz.gov

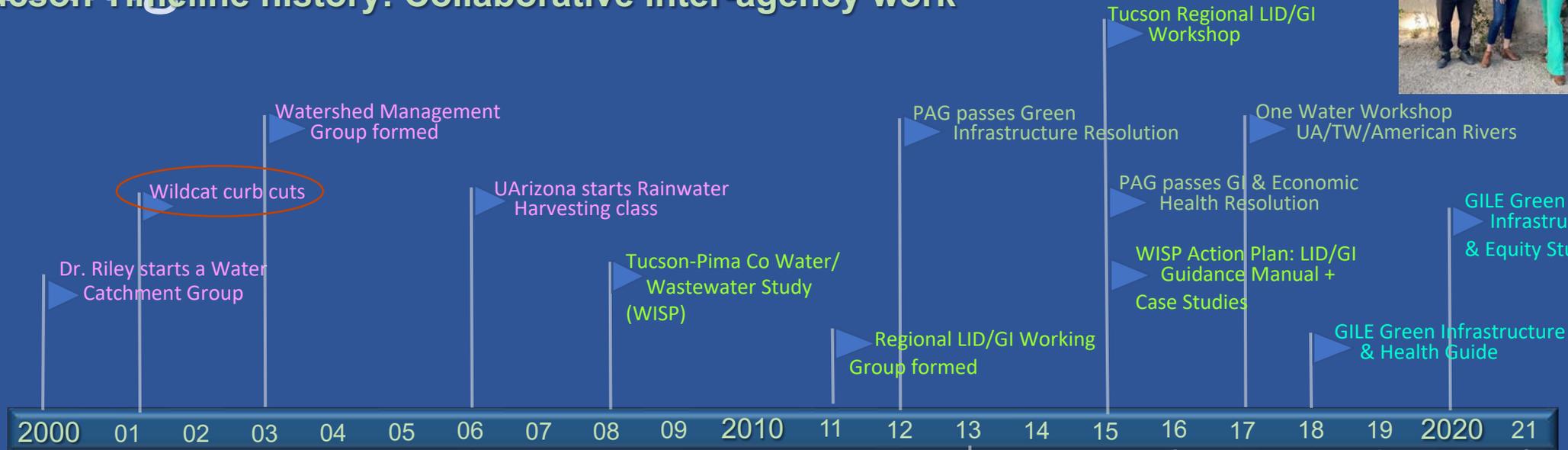


“Wet” Water Production for Tucson Water Service Area (1940-2019)



Institutionalizing Rainwater Harvesting

Recent Tucson Timeline history: Collaborative inter-agency work



Color Key

- Community/UAArizona activity
- Tucson region LID/GI activity
- Regional PAG activity
- COT Transportation action
- COT M&C action
- Pima County BOS/Dept action
- COT TW actions
- National Green Infrastructure Leadership Exchange



Transportation Dept. develops curb cut standards

TW launches RWH Rebates

M&C Adopt Commercial Rainwater Harvesting Ordinance

M&C Approve Water Conservation Fee

Plan Tucson: COT General & Sustainability Plan

Green Streets: TDOT Admin. Directive

BOS Climate Protection Resolution

TW Low Income RWH Rebates

PC Stormwater Harvesting Systems Amendment

Pima Prospers: PC General Plan

PC Dev Standards for Stormwater Detention/Retention Manual

PC Subdivision & Development Street Standards

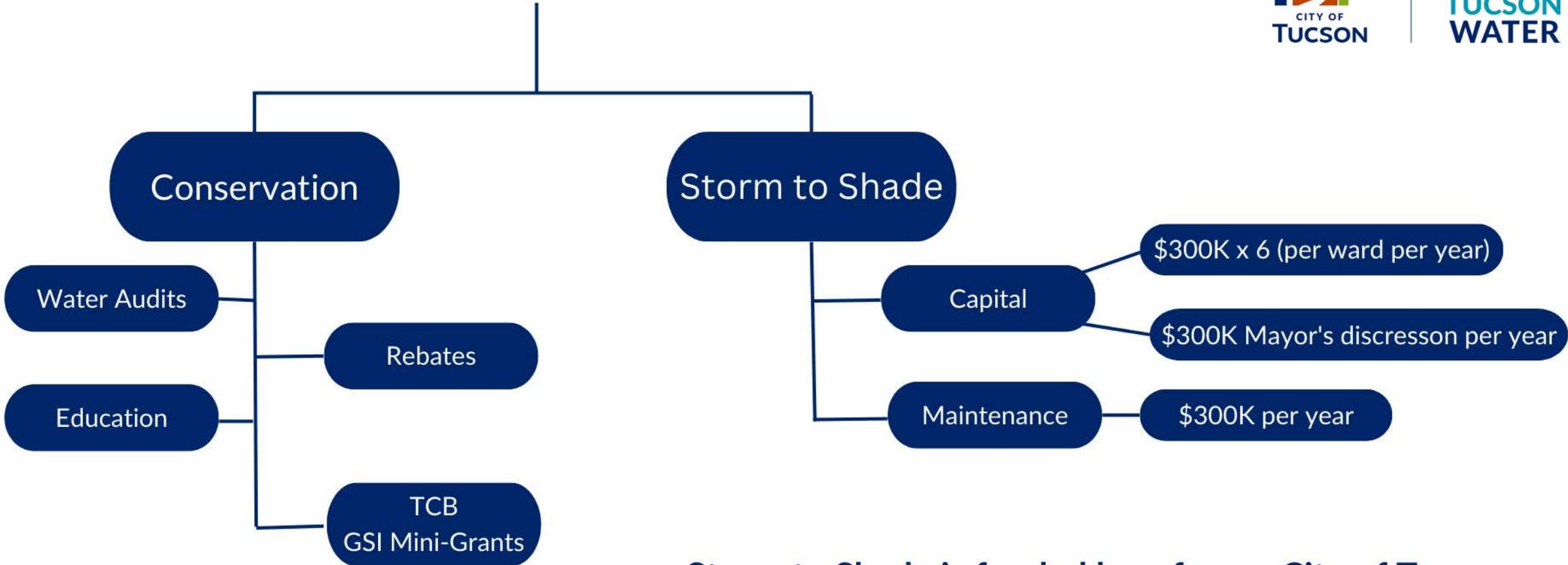
TW Pilot Neighborhood Scale Stormwater Harvesting Program

Pima Co Administrator approves GI Plan

COT hires GSI Program Staff

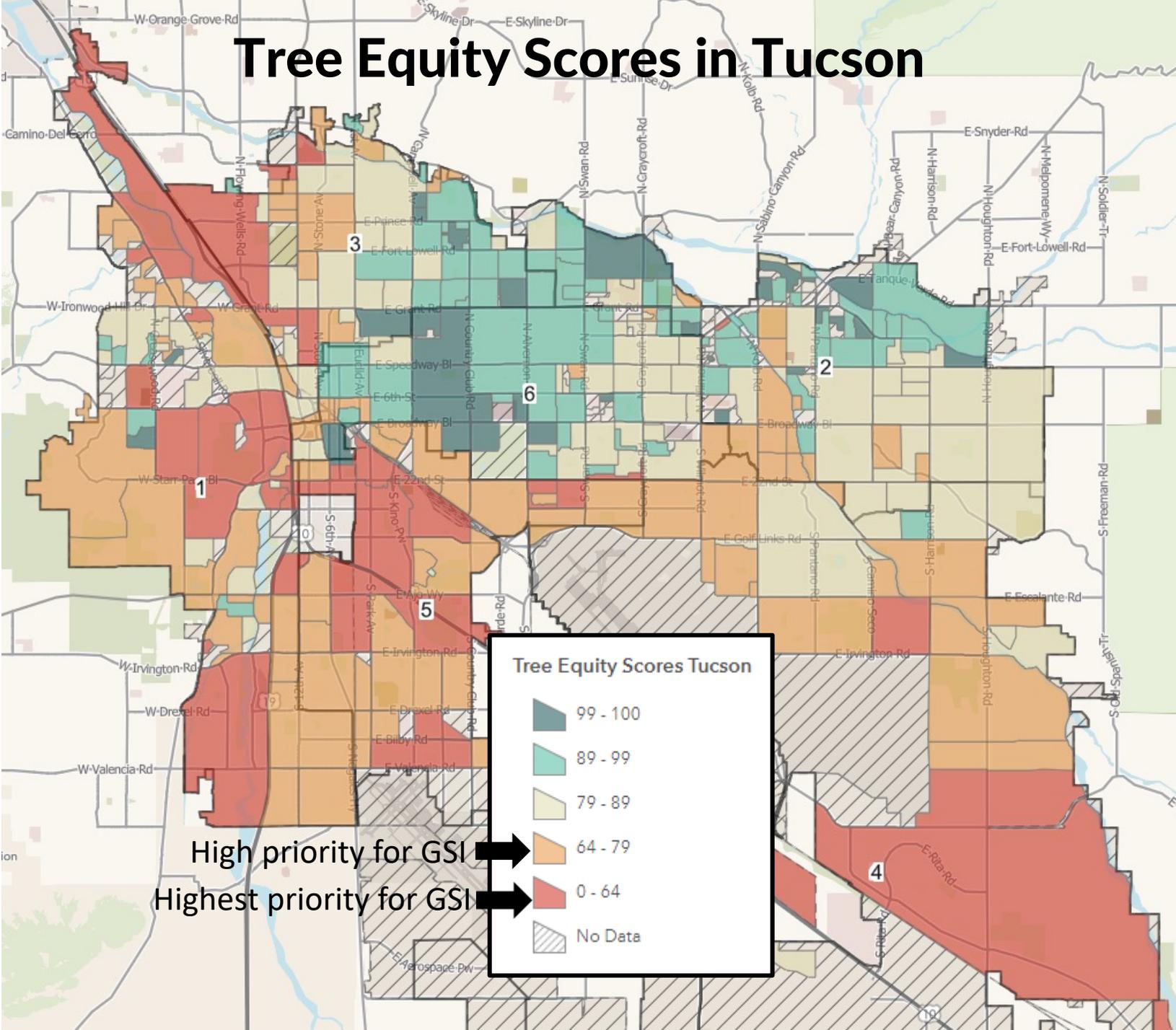
M&C approves TW GSI Fee for city residents

Conservation and Stormwater Resources



Storm to Shade is funded by a fee on City of Tucson utility bill based assessed at .13 per CCF averaging \$1 per month for the average household.

Tree Equity Scores in Tucson



Tree Equity Score evaluates data from each neighborhood's:



Existing tree canopy



Population density



Surface temperature



Race



Income



Employment



Age

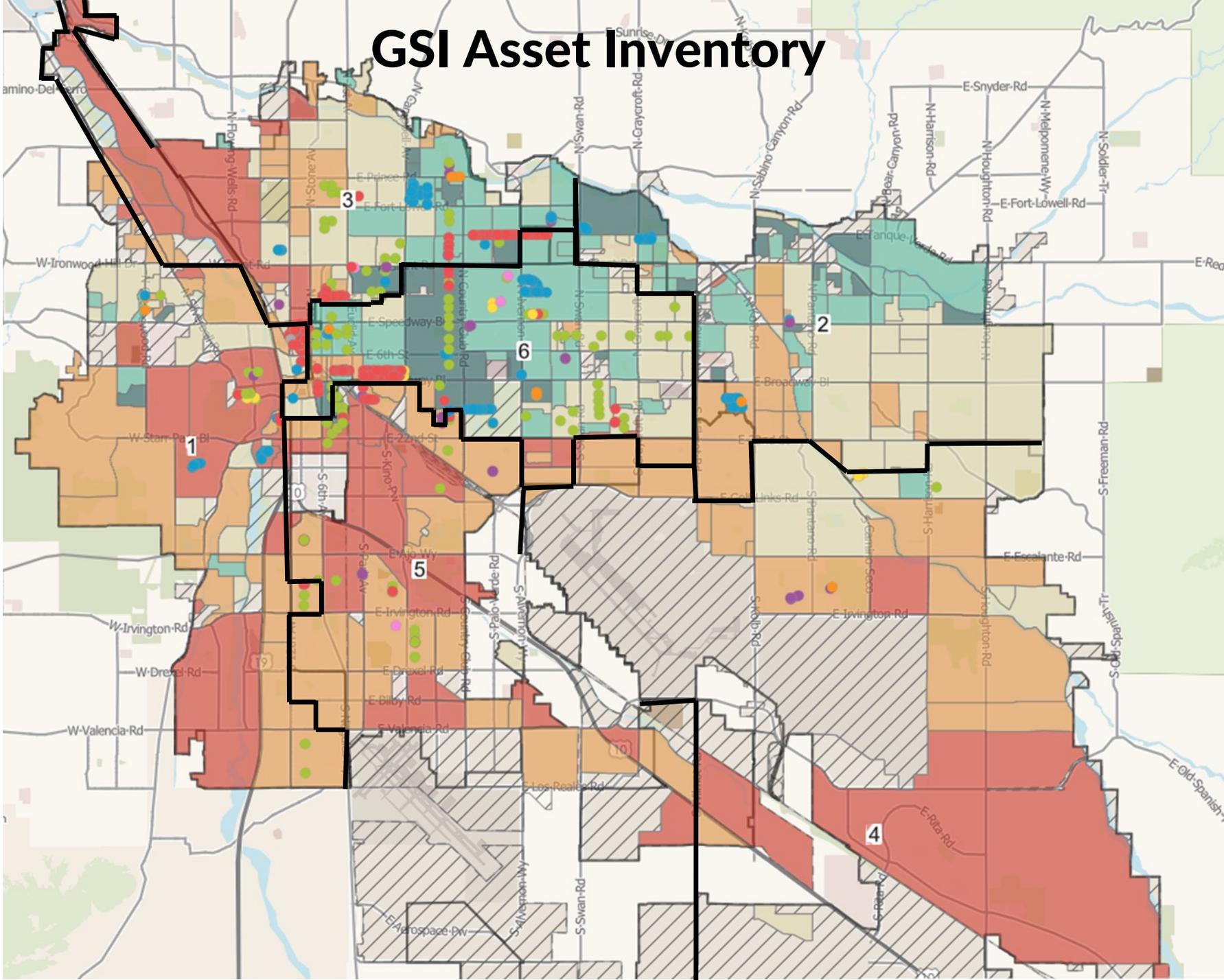


Health

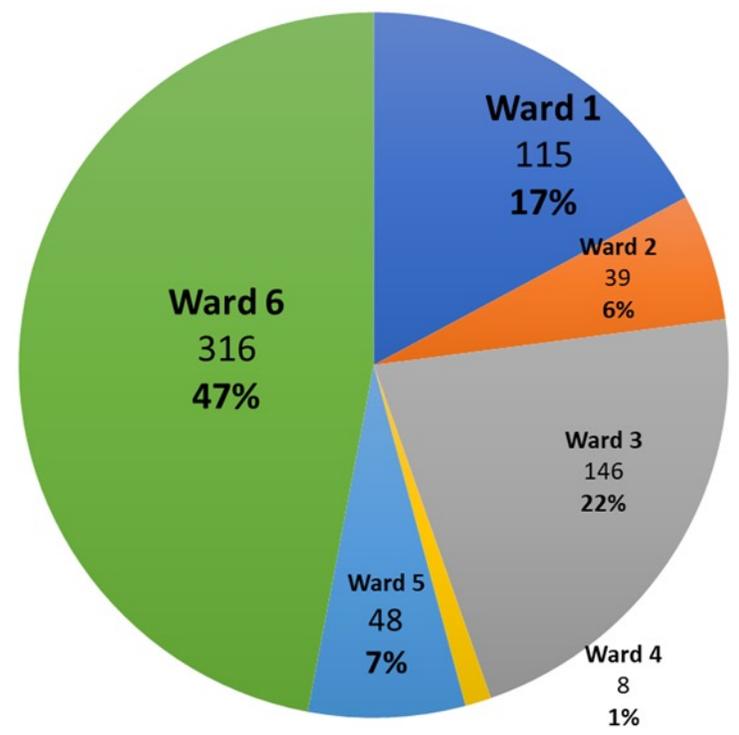
Hiring Maintenance Contractors

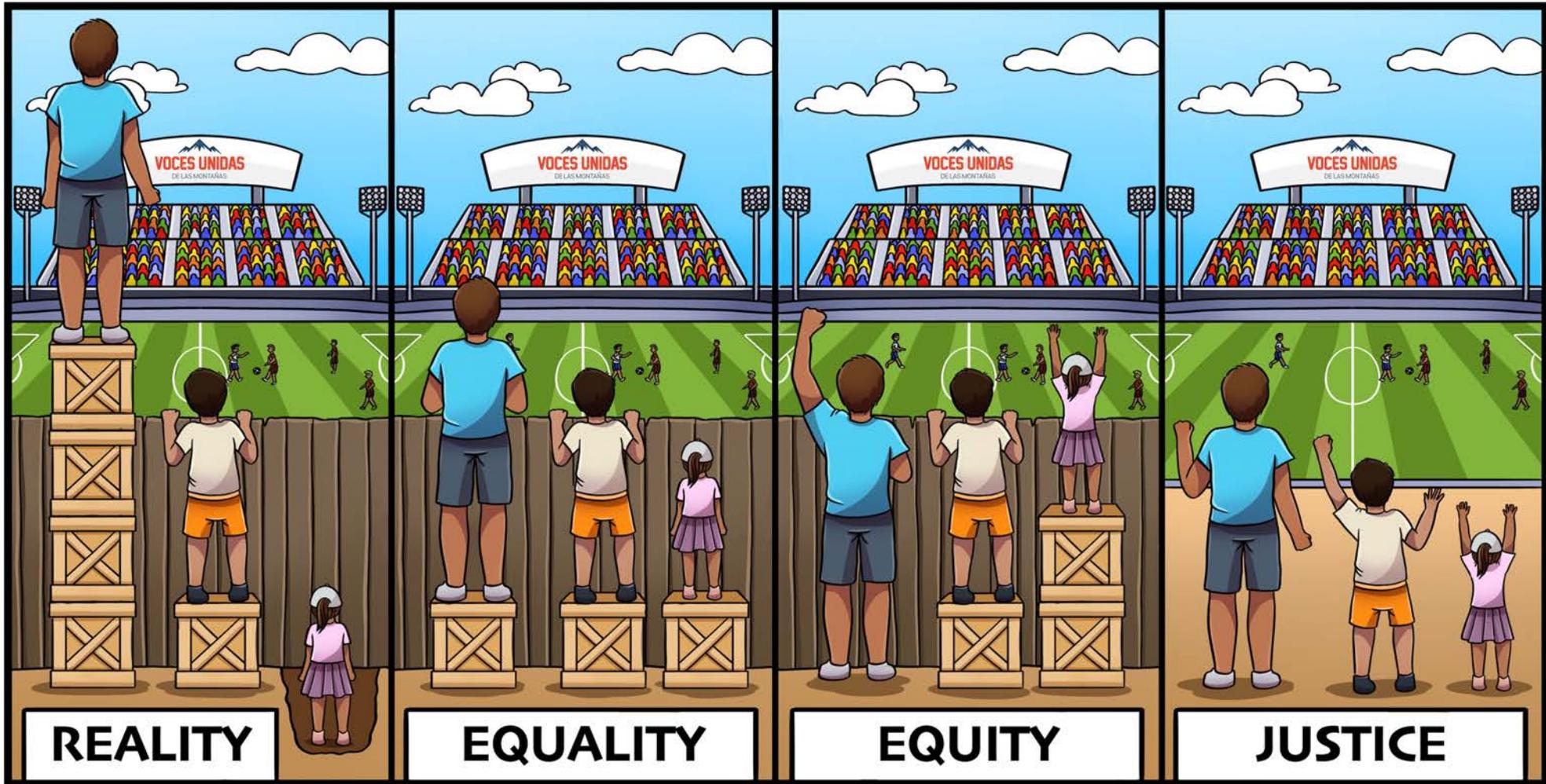


GSI Asset Inventory



GSI Asset Inventory per Ward





Some get more support while others get less, creating disparity.

Everyone gets the same support regardless of what is needed.

Everyone gets the support they need

Cause of inequity is addressed. Systemic barrier has been removed.



Thank you!

Questions?



@Storm
to Shade

<https://climateaction.tucsonaz.gov/pages/gsi>



THE SEVEN EQUITY GOALS

1. Internal Readiness
2. Centering Community
3. Siting + Investment
4. Benefits-Driven Project
Development
5. Economic Stability
6. Preventing Displacement
7. Programs + Policies

