Floodplain Management Plan 2020 Update
Meeting No. 4 – Activities

Kelli Sertich, AICP, CFM – Policy, Planning & Coordination Branch Manager, *FCDMC*

Mark Fountain, PE, CFM – *Black & Veatch*

December 5, 2019

Safety Moment – Holiday Travel Planning

- Winter driving
  - Prepare for being delayed or stranded
  - AZ511 for road closure updates
    - Call 511 or Mobile Device AZ511.gov

ADOT 511 AZ511.gov Arizona Traveler Information

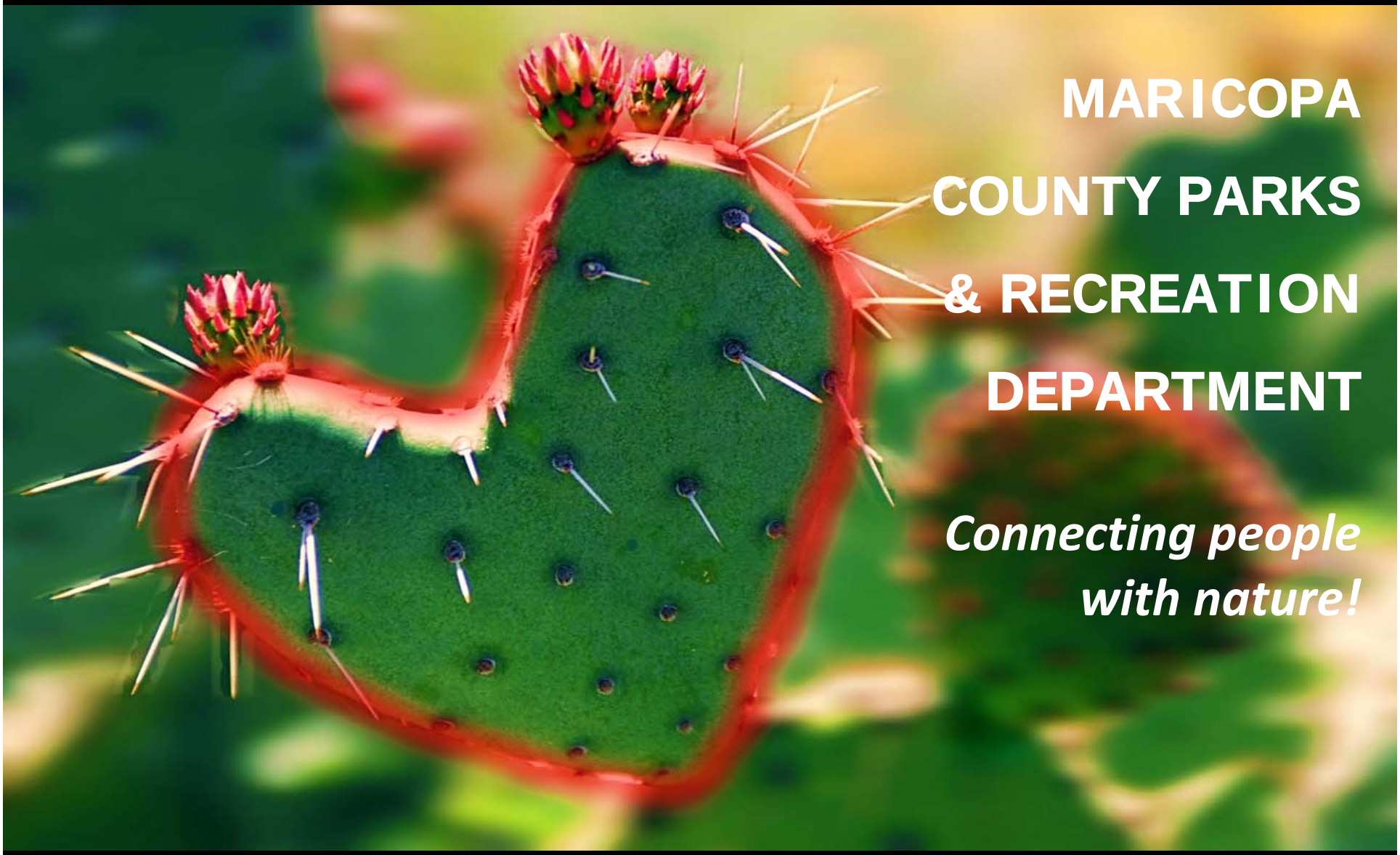
  - Wear warm clothes and pack emergency kit
    - Boots, blankets, healthy snacks, water, first aid kit, medications, cell phone charger
  - Tire chains and ice scraper
  - Slow down and leave extra room
  - Respect the plow! Never Pass.

Agenda

- Introduction
- Review Flood Thread Definition
- Review Potential 2020 FMP Goals
- - Break
- Discussion of Possible Activities
- Refine Possible Activities
- Next Steps

Introduction

- Opening Comments
- Around the Room
  - FMP Committee Alternates
  - Other Participants / Guests
- Presentations
  - Maricopa County Parks and Recreation Department
  - Central Arizona Conservation Alliance Program



MARICOPA COUNTY PARKS & RECREATION DEPARTMENT

Connecting people with nature!

Ken Vonderscher

Planning and Development Manager

www.maricopacountyparks.net

Maricopa County
Parks & Recreation Dept.

ABOUT US

Educational Programs

Trails

Concessions & Partnerships

Picnicking

Camping

Opportunities

ABOUT US - VOLUNTEERS

Volunteer Opportunities & Park Host Programs

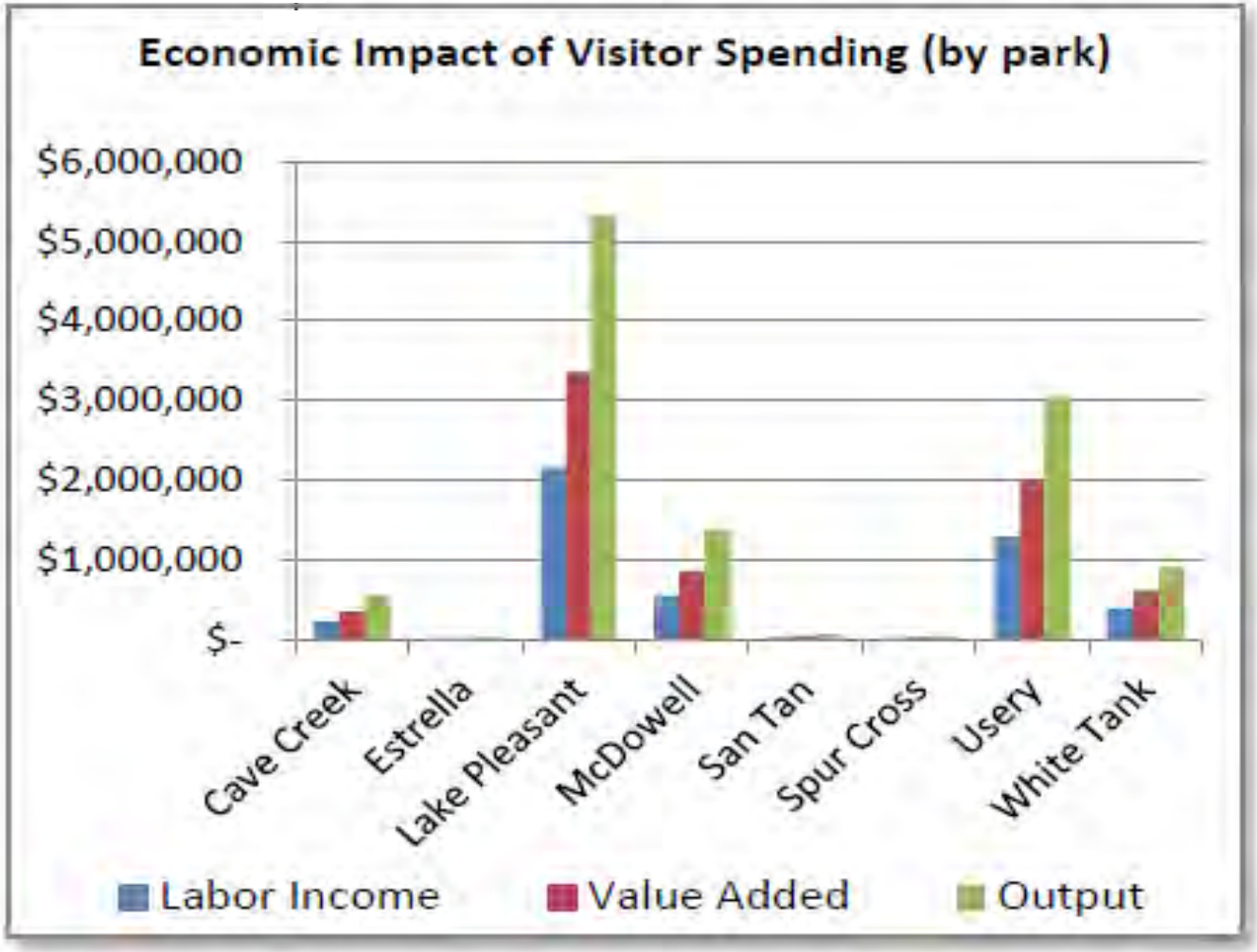
- Core Volunteers
- Community Volunteers
- Day of Service Volunteers

ABOUT US - VOLUNTEERS

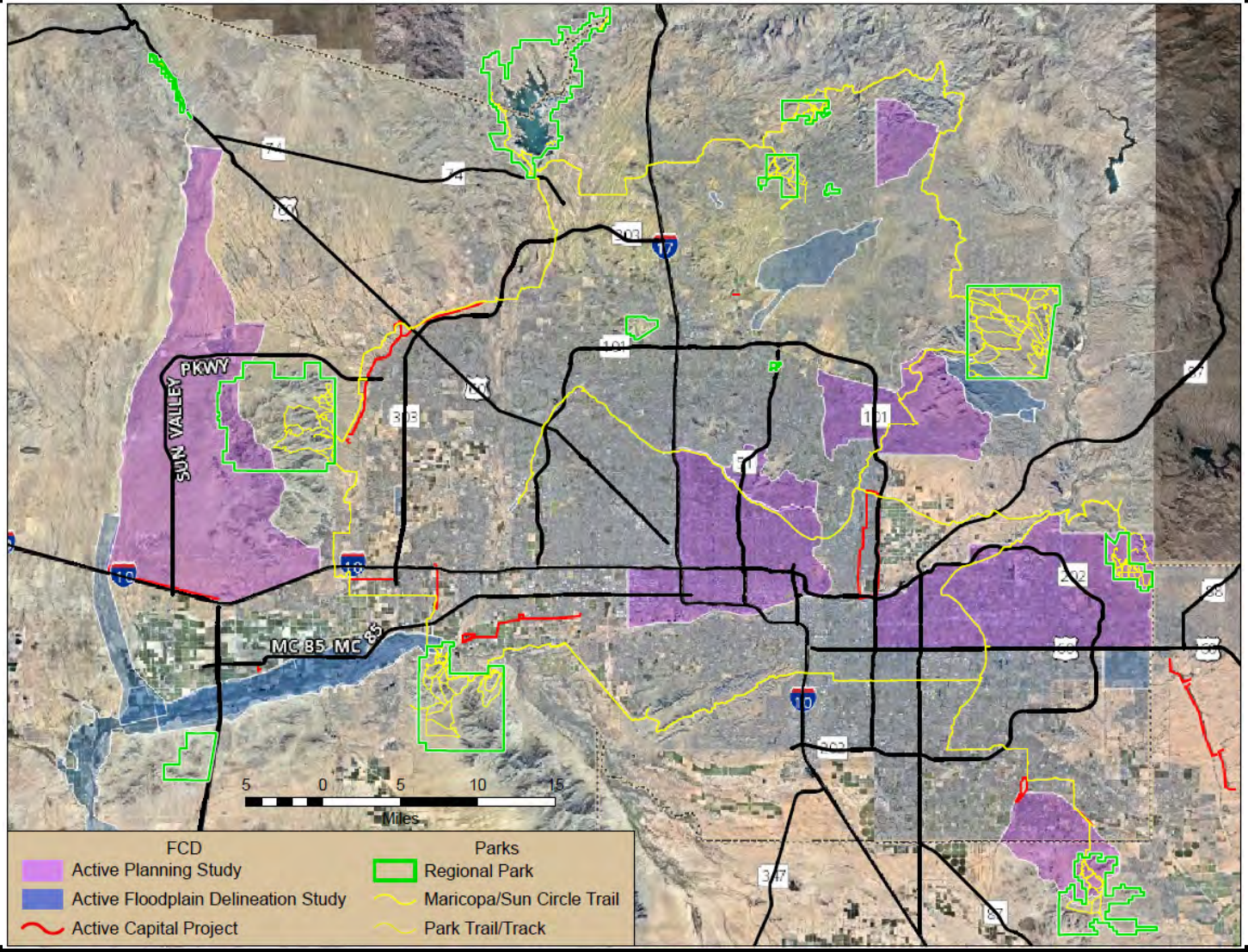
FY18/19 departmental savings from volunteer and park host programs.

VOLUNTEER PROGRAM	
FY18/19 Total Hours	95,536
FY18/19 Financial Savings	$2,250,828

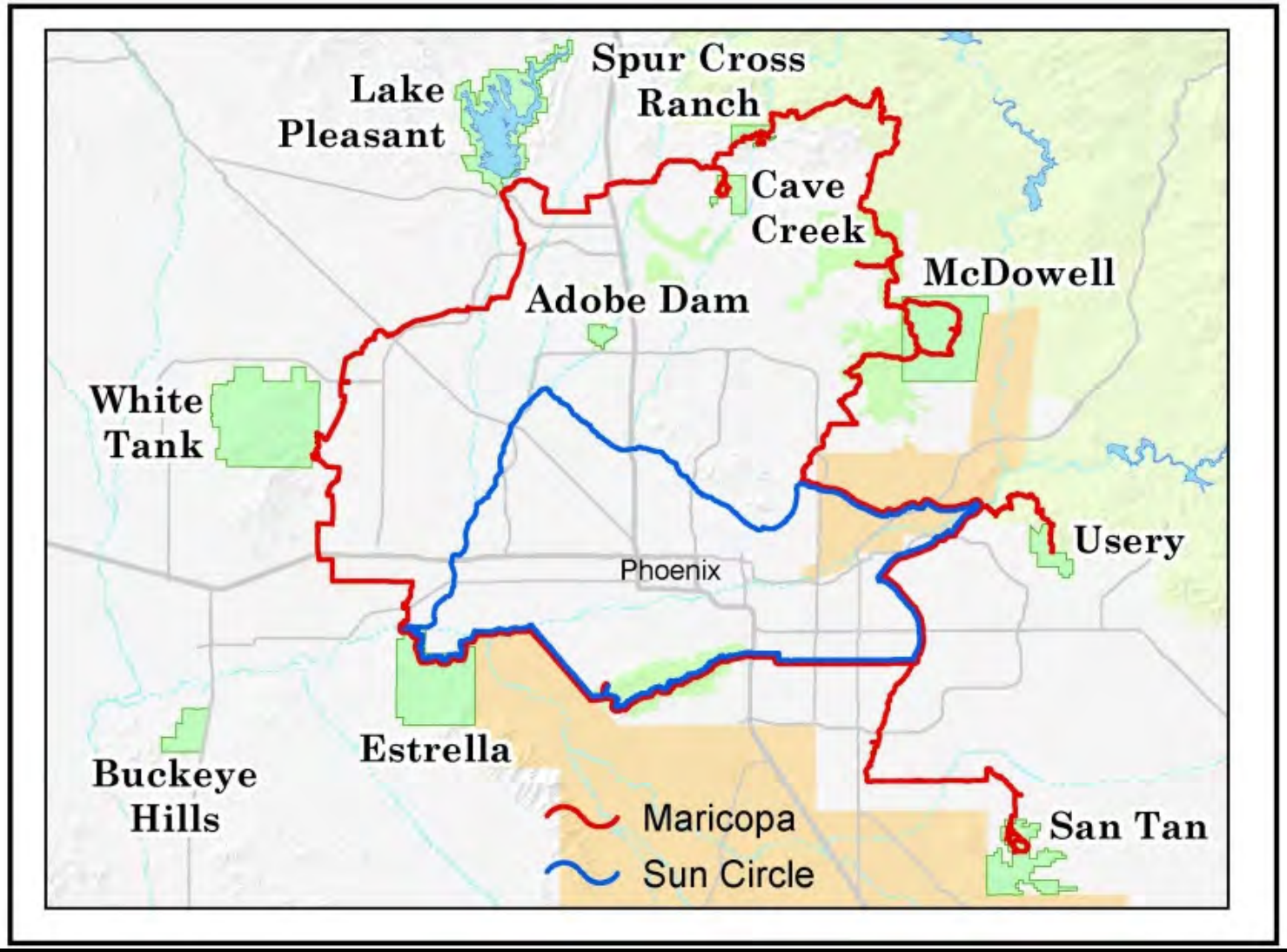
ECONOMIC IMPACT
From Parks and Recreation



County Parks & Flood Control



MARICOPA REGIONAL TRAIL SYSTEM



ADOBE DAM REGIONAL PARK

Concessions

BUCKEYE HILLS REGIONAL PARK

Partnerships

CAVE CREEK REGIONAL PARK

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Parks & Recreation Dept.

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ESTRELLA MOUNTAIN REGIONAL PARK

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Parks & Recreation Dept.

www.maricopacountyparks.net

HASSAYAMPA RIVER PRESERVE

Maricopa County
Parks & Recreation Dept.

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LAKE PLEASANT REGIONAL PARK

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Parks & Recreation Dept.

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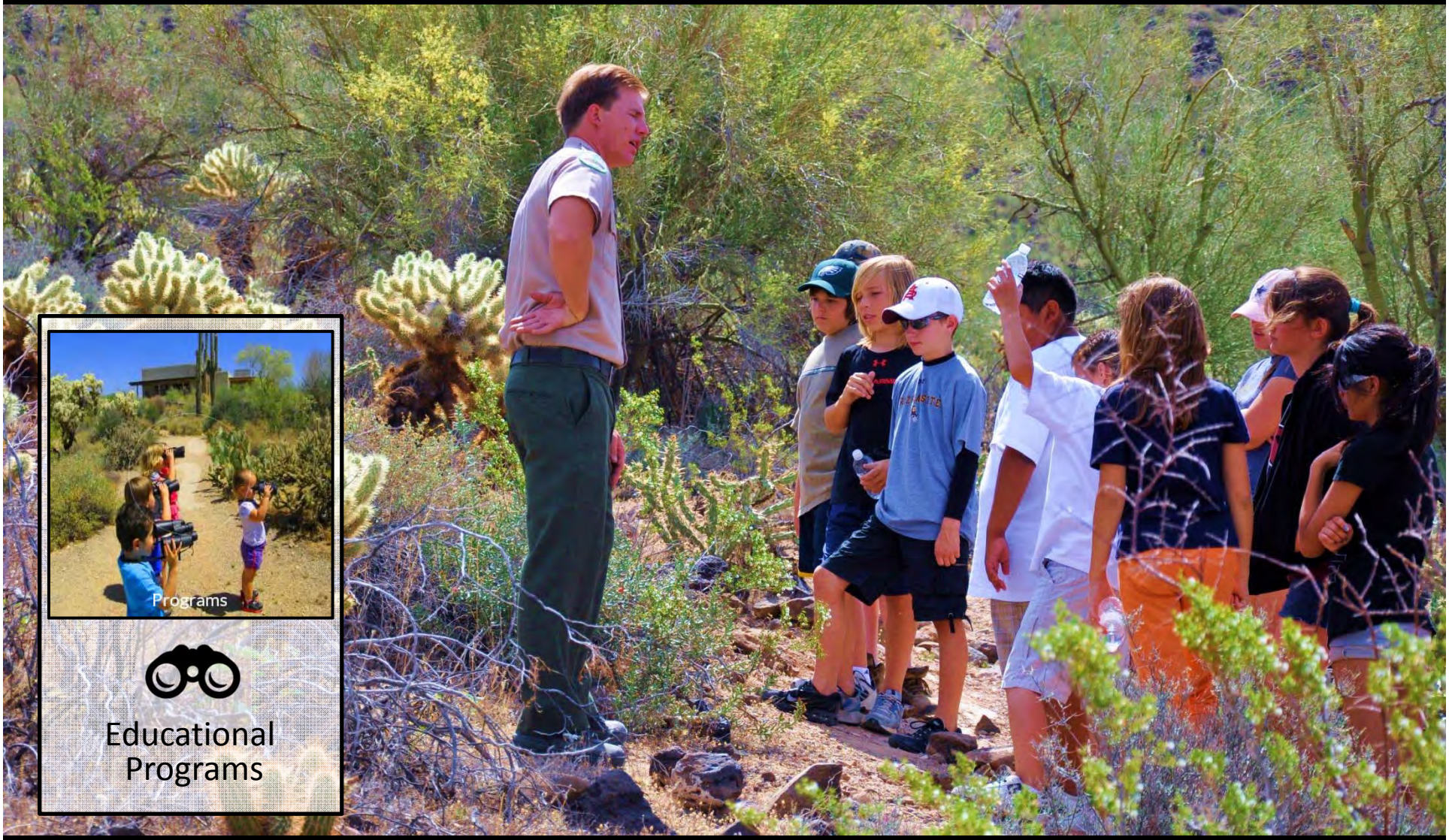
DESERT OUTDOOR CENTER
AT LAKE PLEASANT



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MCDOWELL MOUNTAIN REGIONAL PARK

Maricopa County
Parks & Recreation Dept.

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SAN TAN MOUNTAIN REGIONAL PARK

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SPUR CROSS RANCH CONSERVATION AREA

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USERY MOUNTAIN REGIONAL PARK

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VULTURE MOUNTAINS RECREATION AREA

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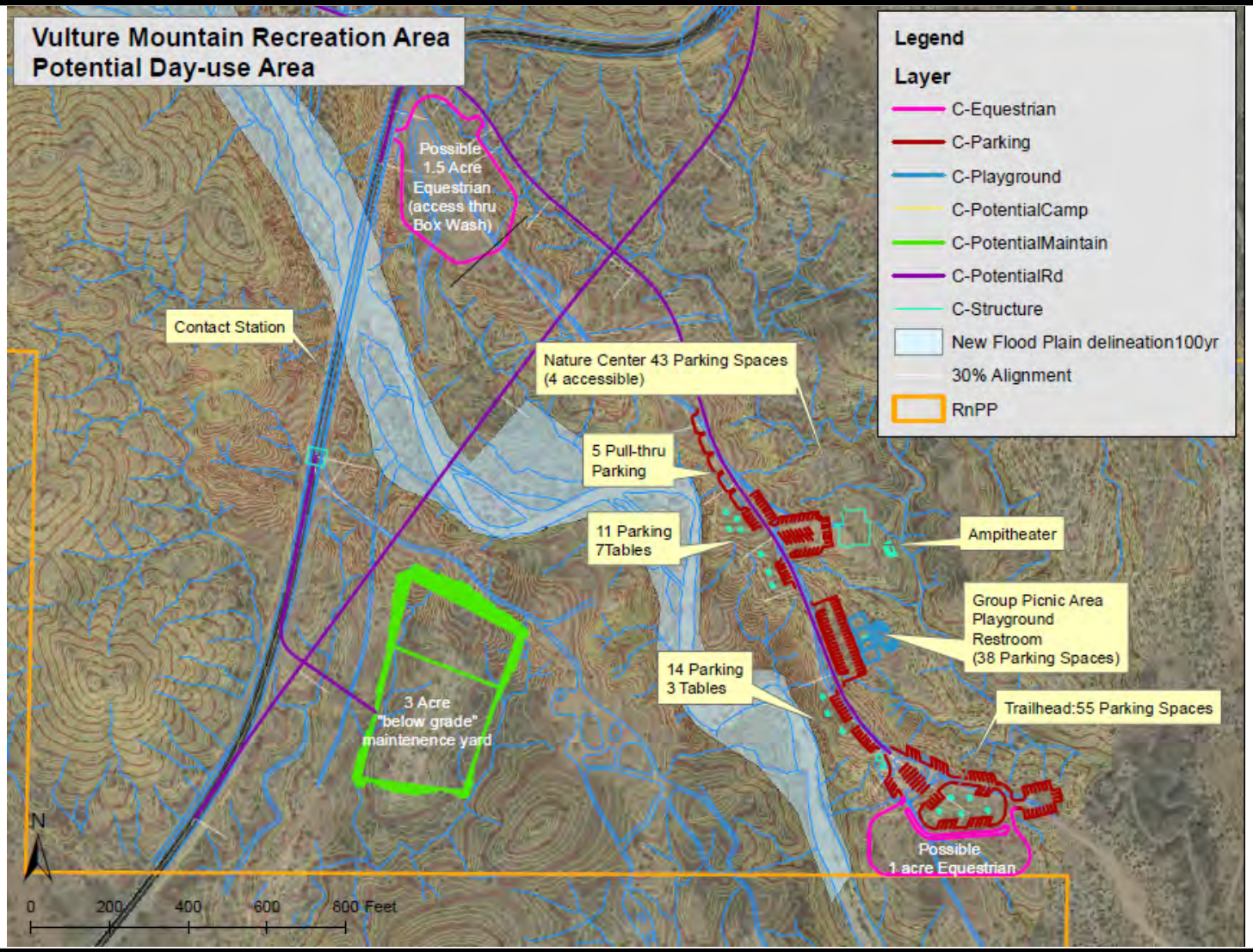
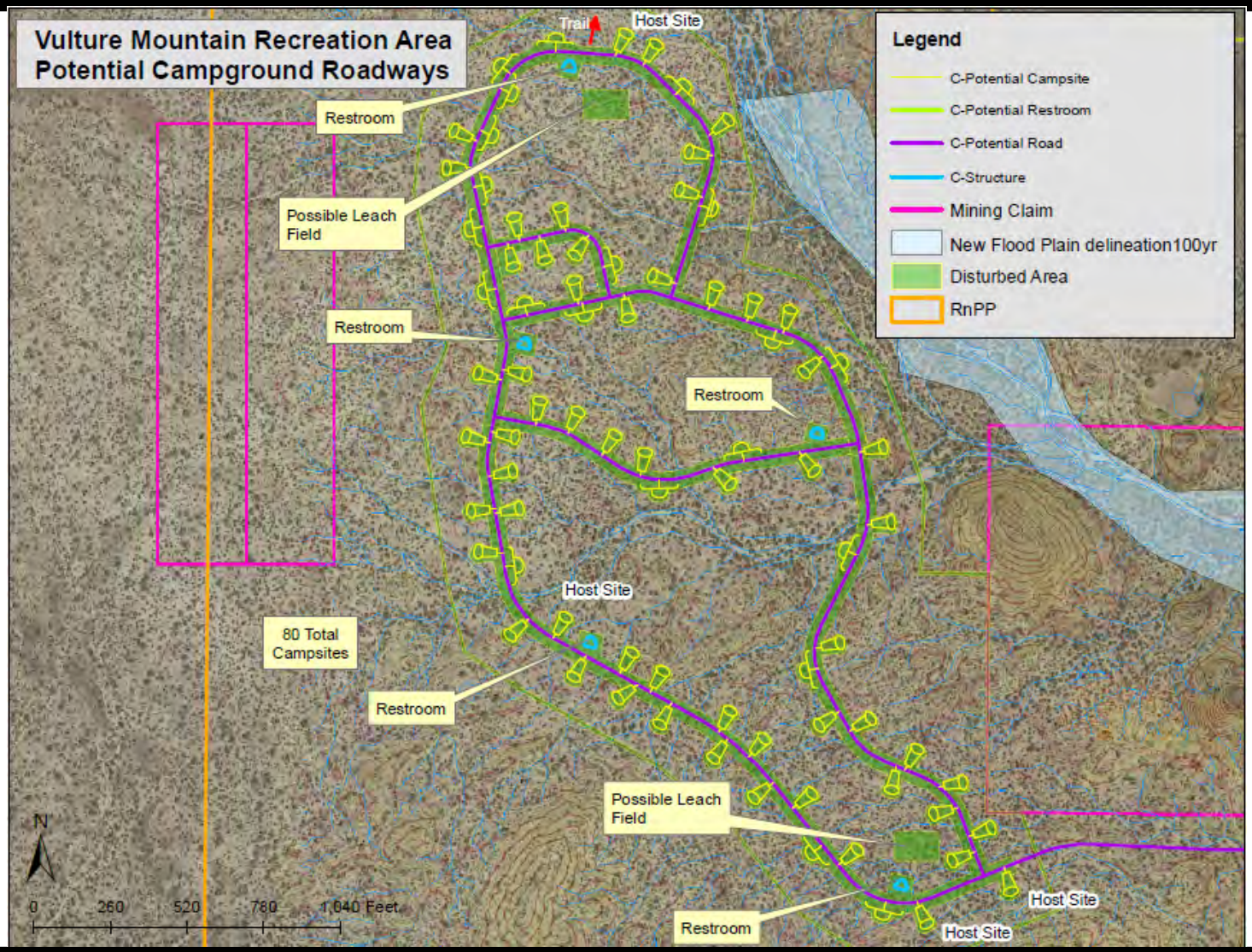
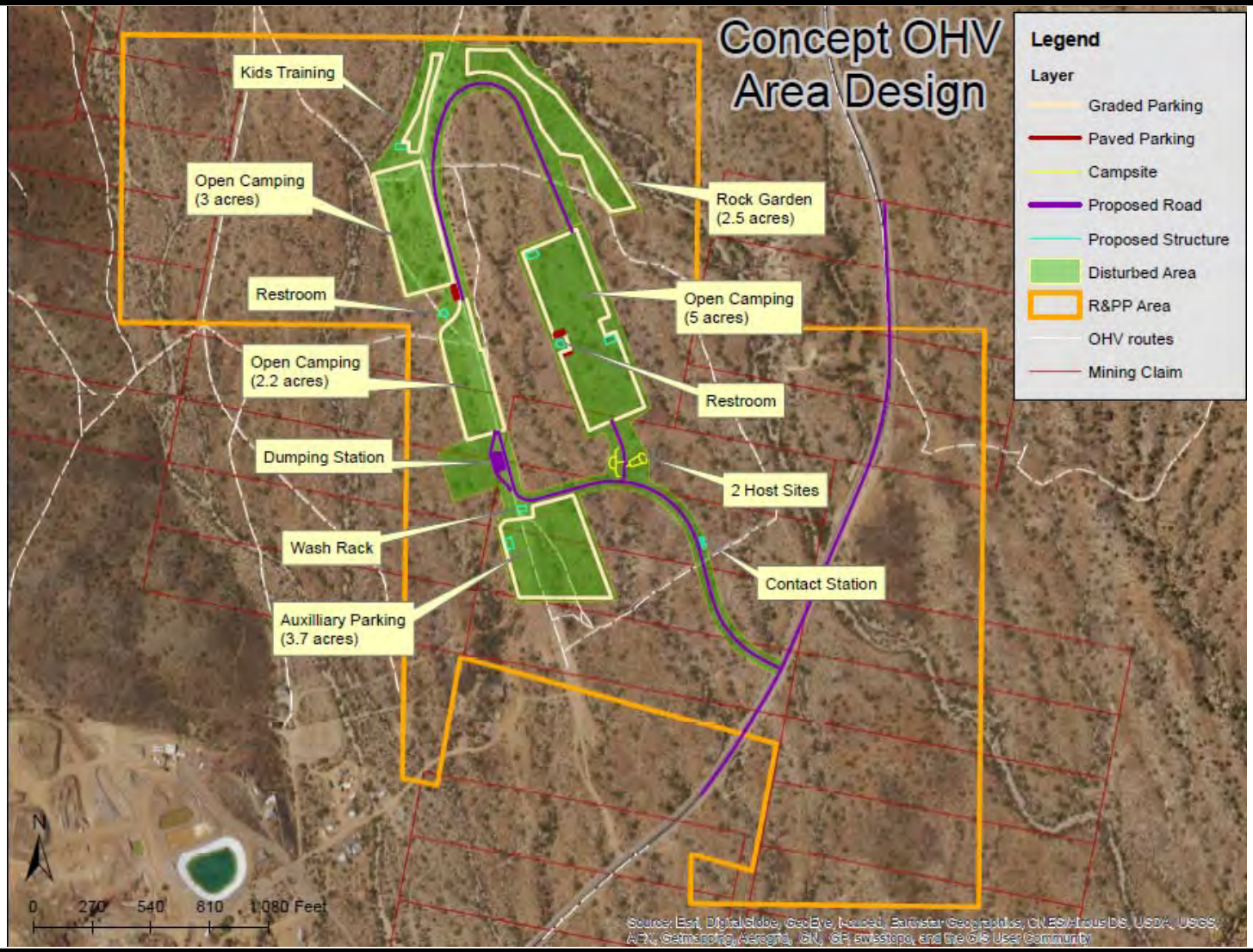
VULTURE MOUNTAINS RECREATION AREA - 95% Plans



VULTURE MOUNTAINS RECREATION AREA - 95% Plans



VULTURE MOUNTAINS RECREATION AREA - 95% Plans



WHITE TANK MOUNTAIN REGIONAL PARK

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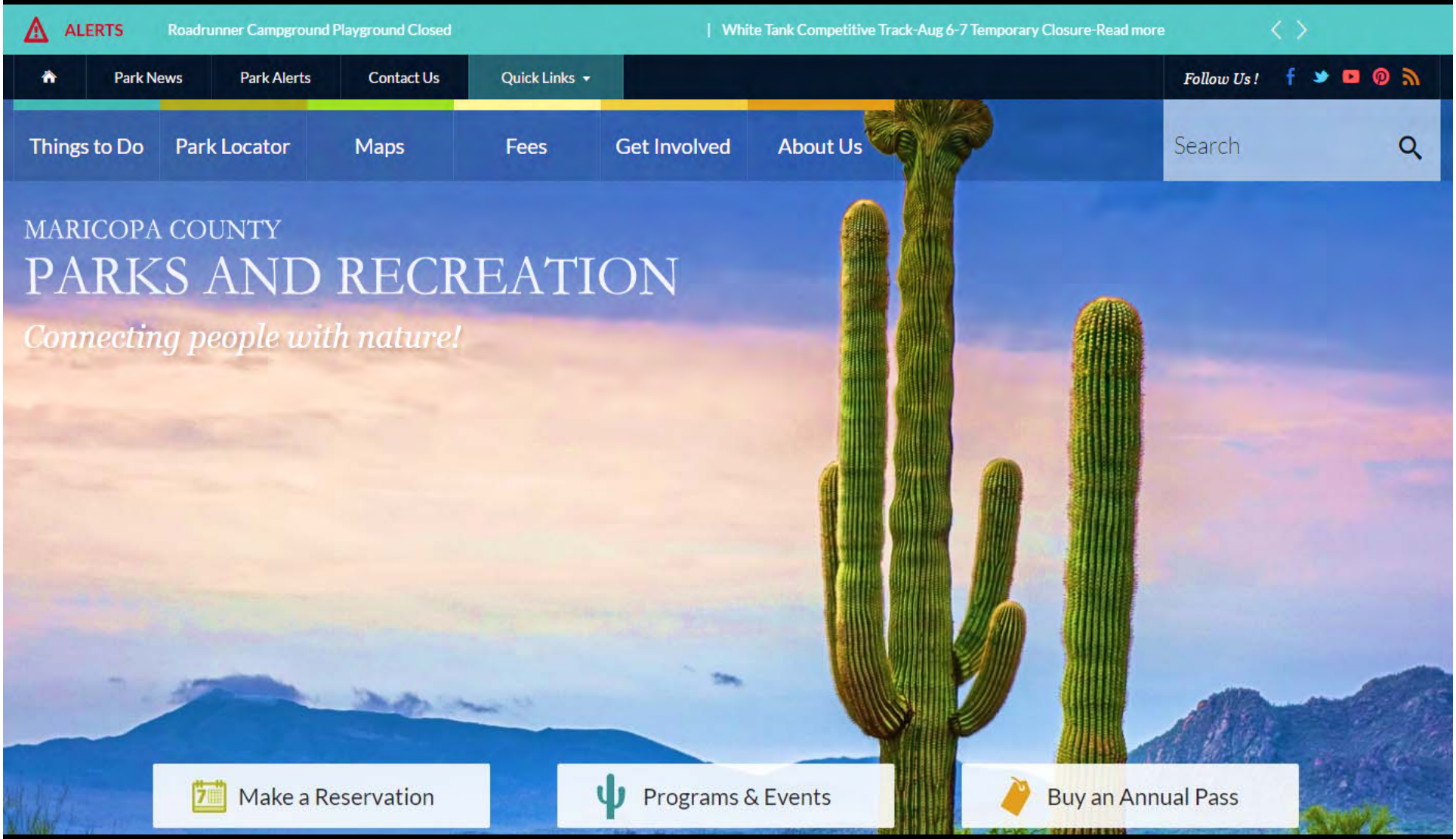
TO LEARN MORE ABOUT US, VISIT…



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QUESTIONS ?

Multi-Service Use of Desert Washes in Maricopa County

Central Arizona Conservation Alliance

Aireona Raschke, Ph.D.
Conservation Alliance Program Director

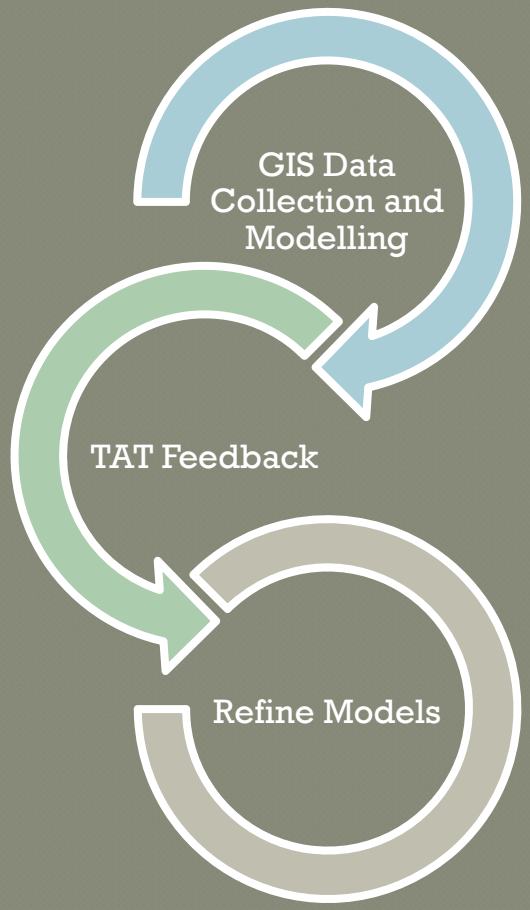
Natural cover in desert washes have immense value for the people and animals of Maricopa County.

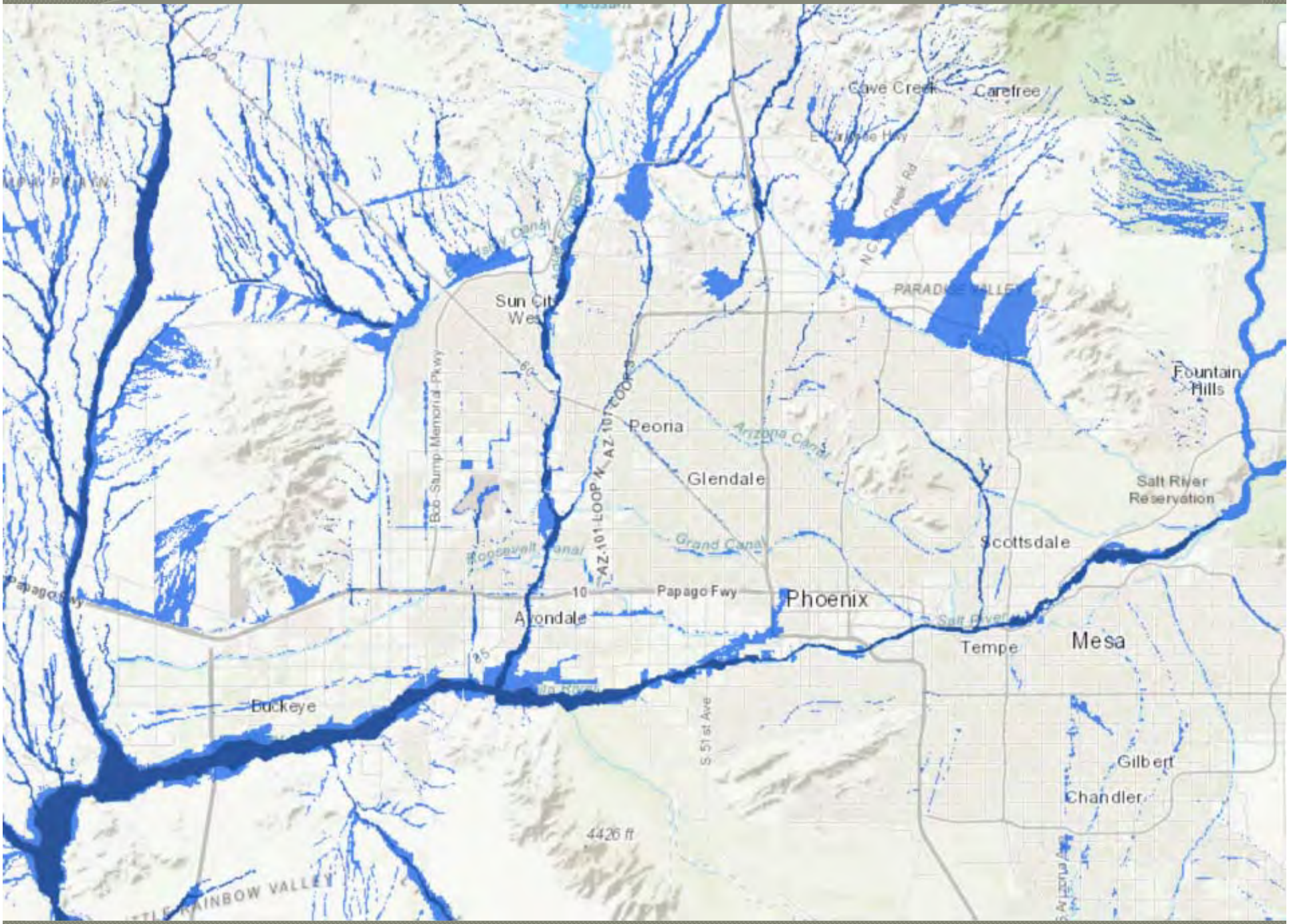
Presentation Outline

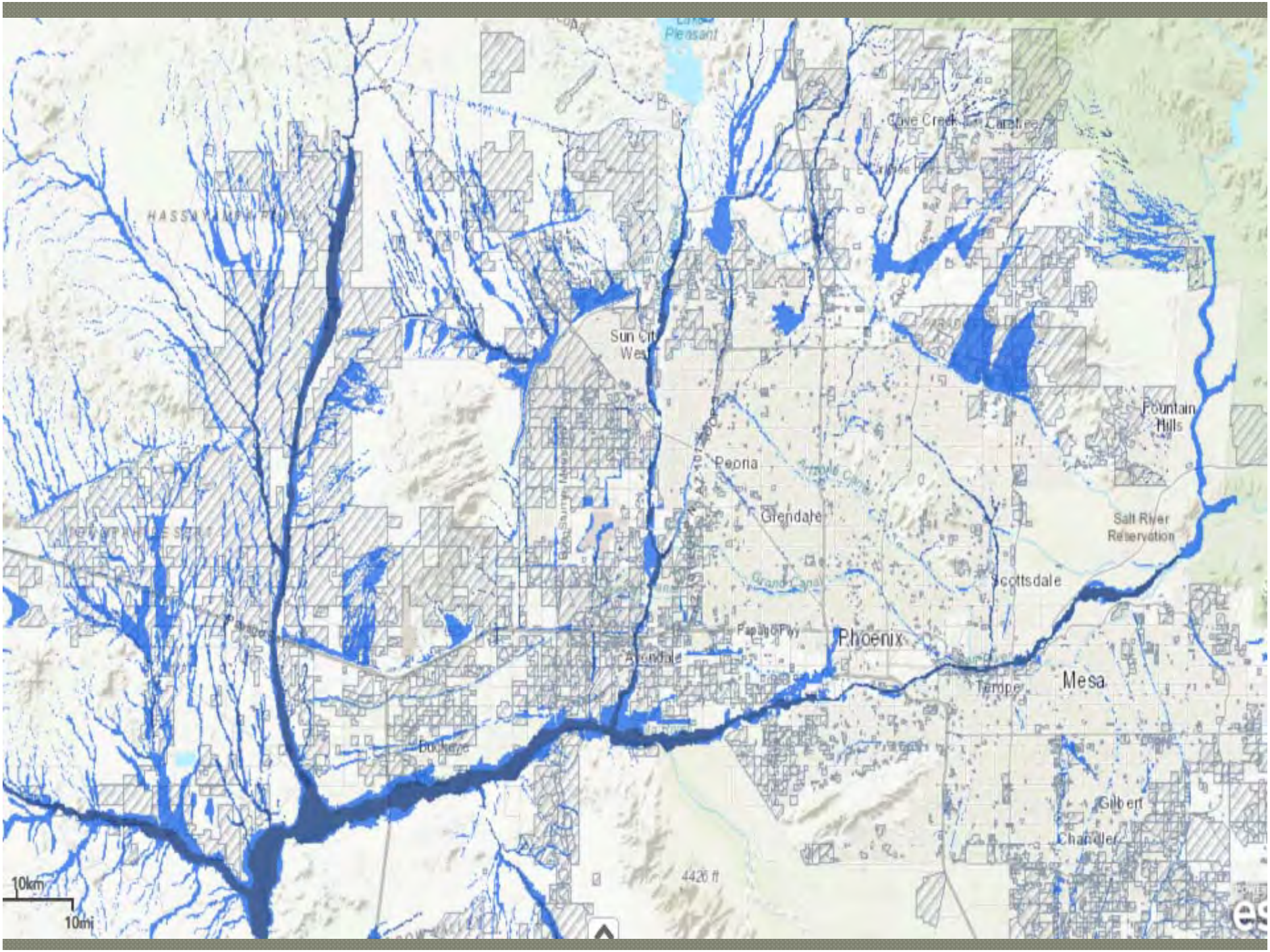
- Key values for desert washes in Maricopa County
  - Natural water flow
  - Recreation
  - Habitat connectivity
- CAZCA Greenprint as a tool for decision-making

Producing the Greenprint

- Expertise from all corners of Maricopa County:
  - TNC, AZGFD, CAZCA, Sonoran Institute…
- Advise the creation of the DST
  - Identify and weigh criteria
  - Verify methodology
  - Ensure defensible science
  - Recommend best data sources
  - "Groundtruth" GIS modeling




Cave Creek
Carefree
Sun City West
Peoria
Glendale
Fountain Hills
Salt River Reservation
Scottsdale
Phoenix
Tempe
Mesa
Avondale
Buckeye
Gilbert
Chandler
Papago Fwy
AZ-101 LOOP
Bob Stump Memorial Pkwy
Arizona Canal
Grand Canal
Salt River
S 51 st Ave
4426 ft
PARADISE VALLEY
RAINBOW VALLEY


Lake Pleasant
Cave Creek
Carefree
Sun City West
Peoria
Glendale
Fountain Hills
Salt River Reservation
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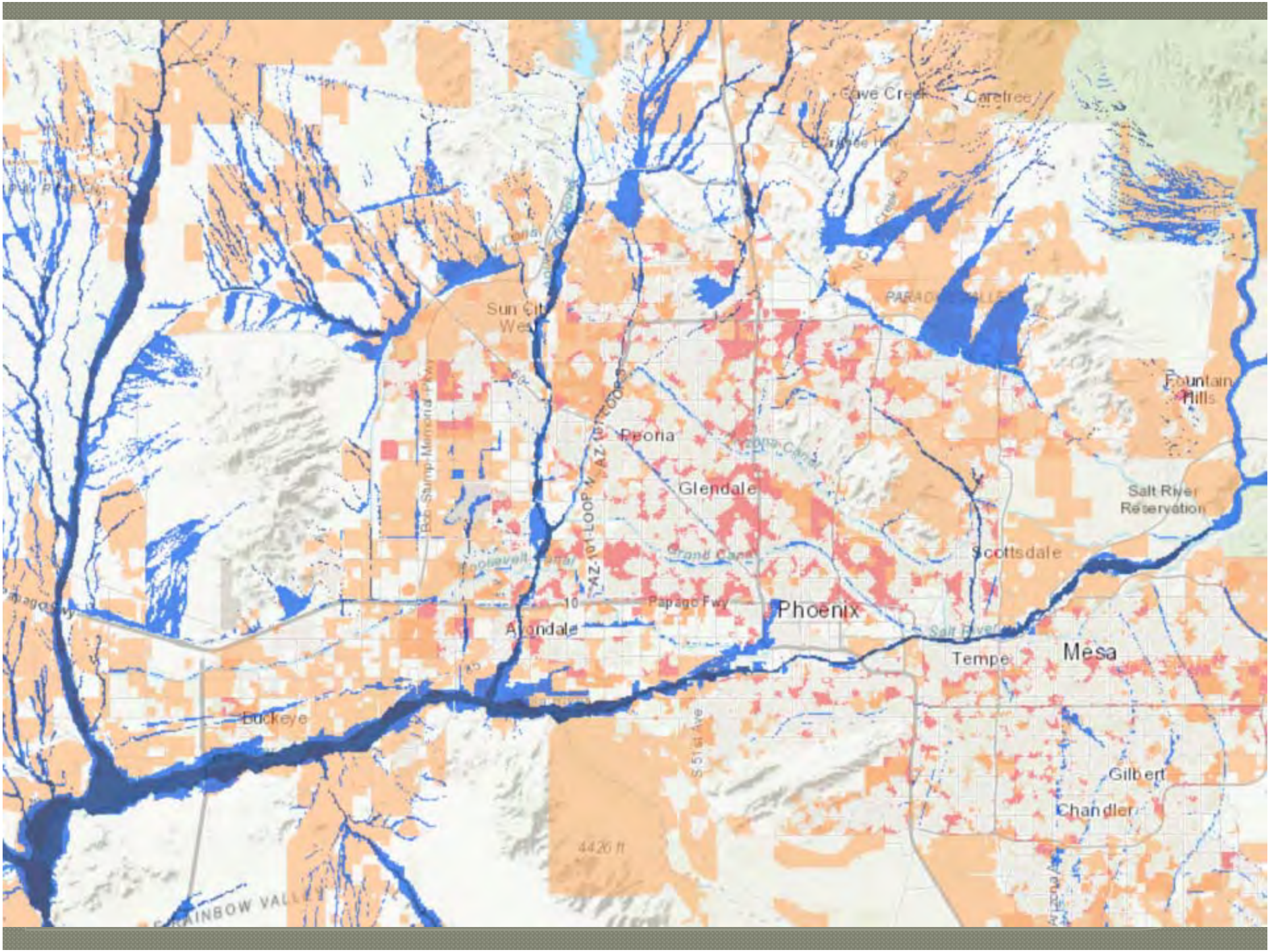
Buckeye
4426 ft
10km
10mi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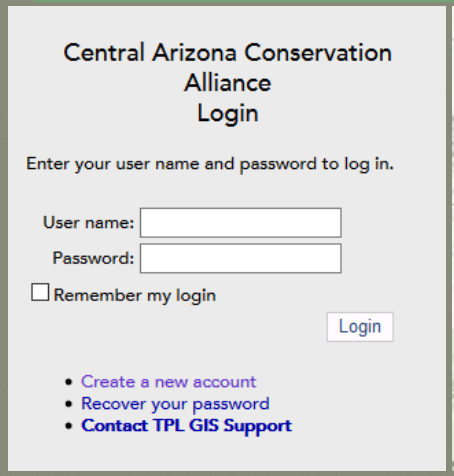
Bob Stump Memorial Pkwy
AZ 101 LOOP
Grand Canal
Roosevelt Canal
Salt River Reservation
S 51st Ave
PARADISE VALLEY

Visualizing Equity and Habitat Integrity

- CAZCA Greenprint
- Key analyses available:
  - Mitigate heat risk through nature-based solutions
  - Protect water resources
  - Ensure habitat integrity
- Context layers

Accessing the Greenprint



- https://web.tplgis.org/CAZCA
- A username and password is required to access the mapping portal
- Click "Create a new account" to set up your free account

Flood Threat Definition

- Review Definition
- Group Discussion of Definition
- Develop Consensus of Definition

Review of Flood Threat Definition

Outcome – Develop Consensus on Committee Definition

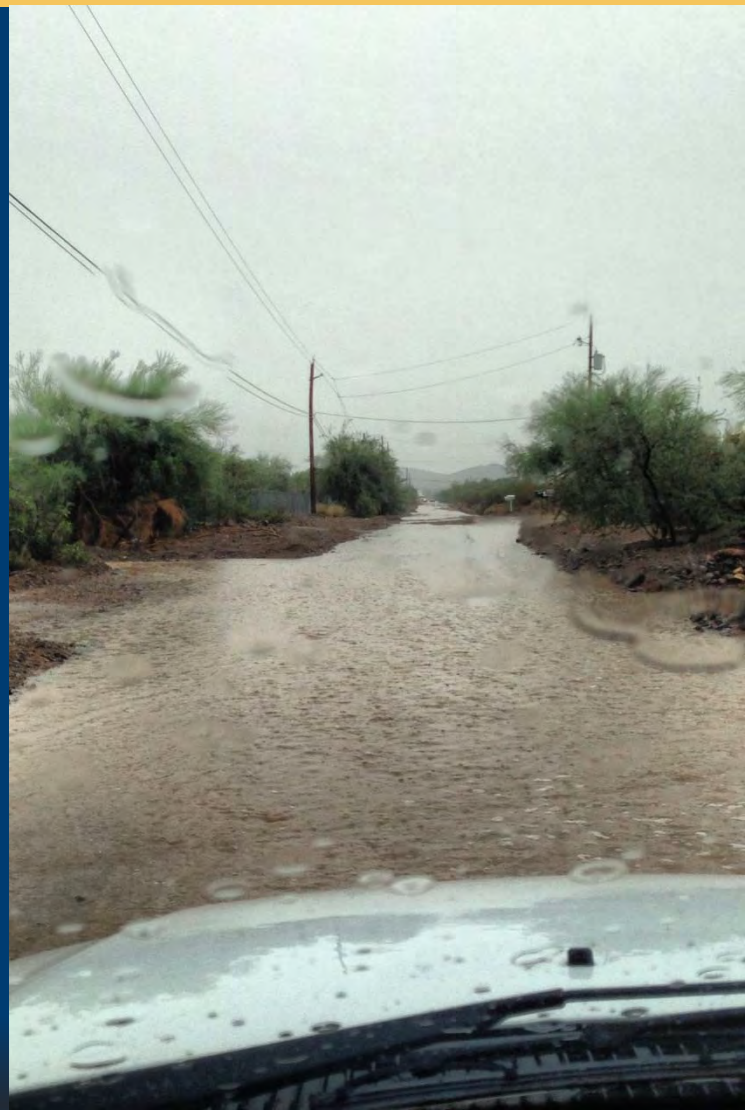
Option 1: Risk to life, property, and infrastructure due to rising floodwaters.

Option 2: The vulnerability of people, property, structures, infrastructure, the environment, critical facilities, and economic development due to flooding impacts in Maricopa County

Option 3: Potential risk to life, property, environment, economy, structures, or infrastructure anticipated from a flood event which causes interruptions to a normal operating condition or way of life.

Review of Potential 2020 FMP Goals

- Five Goals Developed
- Formulated from FMP Committee Feedback
- Complimentary to Industry Examples
- Review of Goals and Objectives Definitions
- Develop Consensus of Goals



Discussion of 2020 FMP Goals

Goals are general statements concerning an aspect of the agency's desired ultimate physical, social and/or economic environment. Goals set the tone for development decisions in terms of the citizens' desired quality of life.

Objectives (Action Items) express the kinds of action that are necessary to achieve the stated goals without assigning responsibility to any specific action.

Flood Control District Strategic Plan FY2017-FY2022

Mission

The Flood Control District of Maricopa County reduces risk from flooding so that property damage and loss of life is minimized, economic development is supported in a safe and responsible manner, storm water is recognized as a resource for the long-term benefit of the community and environment.

Vision

The Flood Control District of Maricopa County is a community partner working with citizens and stakeholders to reduce the risk from flooding. The District accomplishes this through exceptional customer service, technical expertise, fiscally responsible actions and multi-use projects.

Values

Public Interest First
Open and Honest
Accountable
Measure Results
Relentless Improvement
Communicate and Collaborate
All Employees Realize Their Full Potential

Review Potential 2020 FMP Goals

Goal 1:

TRANSPORTATION and LOW WATER CROSSING MITIGATION (top noted item from group break outs)

The District will work with transportation agencies and the communities to address public concerns on transportation routes that result in interruptions to normal operating conditions, delays of emergency services, negatively impact the economy, and pose safety risks due to flooding.

Review Potential 2020 FMP Goals

Goal 2:

FUNDING EVALUATION OF PROCESS AND DEDICATED SOURCES

The District shall work in partnership with stakeholders to evaluate its various programs, fiscal opportunities, and funding processes to assure funds continue to be invested back into the communities.

Review Potential 2020 FMP Goals

Goal 3:

EDUCATION/TECHNICAL RESOURCES

The District shall work with stakeholders and local organizations on consistent county-wide technical and educational materials for flood preparedness with materials available in physical locations as well as electronically.

Review Potential 2020 FMP Goals

Goal 4:

MANAGED OPEN SPACE

- The District shall continue pursuing nature based solutions for flood mitigation, working with stakeholders, to identify and acquire open space in conjunction with flood control projects.

Review Potential 2020 FMP Goals

Goal 5:

REGIONAL LEADERSHIP

The Flood Control District of Maricopa County shall continue to perform duties as the regional leader in floodplain management. District shall provide and communicate information, guidelines, and regulations to agencies and communities throughout Maricopa County and to adjacent Counties.

Break – 10 Minutes

Review Potential 2020 FMP Goals

Goals:

1) TRANSPORTATION and LOW WATER CROSSING MITIGATION (top noted item from group break outs)
2) FUNDING EVALUATION OF PROCESS AND DEDICATED SOURCES
3) EDUCATION/TECHNICAL RESOURCES
4) MANAGED OPEN SPACE
5) REGIONAL LEADERSHIP

2015 FMP Action Plan Items

- **Preventative**
  - Pages E-1 & E-2
- **Property Protection**
  - Page E-2
- **Natural Resource Protection**
  - Pages E-2 & E-3
- **Emergency Services**
  - Pages E-3 & E-4
- **Structural Projects**
  - Page E-5
- **Public Information**
  - Pages E-5 & E-6

Top Priorities

- Increase CIP program funding
- Educate the public on flood risk

Refine Possible Activities – 2020 FMP

Preventative & Emergency Services

GOAL 1: TRANSPORTATION and LOW WATER CROSSING MITIGATION (top noted item from group break outs)

- The District will work with transportation agencies and the communities to mitigate public concerns on transportation routes that result in interruptions to normal operating conditions, delays of emergency services, negatively impact the economy, and pose safety risks due to flooding.

Possible Activities

- Identification of alternative traffic routing
- Installation of depth gages
- Installation of flashing signs
- Partnership with MCDOT/Cities to replace critical low water crossings with all-weather culvert crossings

Refine Possible Activities – 2020 FMP

Structural Projects

GOAL 2: FUNDING EVALUATION OF PROCESS AND DEDICATED SOURCES

- The District shall evaluate its various programs and funding processes working with stakeholders to assure funds continue to be invested back into the communities.

Possible Activities

- Increase capital funding for infrastructure and expand funding allocations toward current and future projects
- Funding for ADMS/P's – Develop new or perform updates as documents age and development occurs

Refine Possible Activities – 2020 FMP

Preventative & Public Information

GOAL 3: EDUCATION/TECHNICAL RESOURCES

- The District shall work with stakeholders and local organizations on consistent county-wide technical and educational materials for flood mitigation with materials available in physical locations as well as on the District's web page.

Possible Activities

- Update manual for operations and maintenance (HOA and citizens guide), details on causes of failure
- Brochures for HOAs – Define their responsibilities and actions they can take
- Info on permitting requirements and issues for fences and walls
- Schools – bring home the knowledge to the parents
- Agency and municipality outreach
- Programs: Example – citizen rain gage program to compliment data for District, Adopt-A-Structure
- Info made available for public awareness and preparedness for storms and flooding
- Different messages and sources of materials for time of crisis and non-crisis
- Low impact development and green infrastructure manuals

Refine Possible Activities – 2020 FMP

Natural Resource and Property Protection

GOAL 4: MANAGED OPEN SPACE

- The District shall continue pursuing nature based solutions for flood mitigation, working with stakeholders to identify open space opportunities in conjunction with flood control projects.

Possible Activities

- Floodplain delineations and open space preservation
- Natural resources, wildlife, and habitat protection
- Removal of invasive plant species within waterways
- Groundwater recharge opportunities
- Partnership with Parks and Recreation department to protect/expand lands within regional parks
- Complimentary value with Maricopa County regional trail program

Refine Possible Activities – 2020 FMP

Public Information

GOAL 5: REGIONAL LEADERSHIP

- The Flood Control District of Maricopa County (District) shall continue to perform duties as the regional leader in floodplain management communicating information, guidelines, and regulations across communities in Maricopa County and to adjacent Counties.

Possible Activities

- FCD Annual outreach to partners presenting changes to guidelines, regulations, and legislative updates
- Agencies to communicate changes of rules, requirements, and best practices
- Common regulations and standards across jurisdiction
- Finished floor elevation inspection services
- Permitting and enforcement of regulation – District/cities helping each other

Next Steps

- FMP Committee Meeting #5 – Draft Action Plan
  - Thursday – January 16, 2020
- Public Meeting No.2
  - Thursday – February 13, 2020
- Please continue to solicit feedback for online survey
  - Floodplain Management Plan Survey 2019

Discussion of 2020 FMP Goals

Review of 2015 FMP Goals:

1. ***Continue/Expand Public Outreach***

   Public education of flood hazards is essential to protecting lives and property. The District's existing program is very beneficial and should be expanded and directed to specific audiences of residents, managers of local, state, and federal agencies, and elected officials.

2. ***Improve Quality of Life***

   Implementing sound floodplain management practices will improve public safety and property protection and will help residents receive the full benefits of living in Maricopa County. Economic benefits of lower flood risk include reduced residential and commercial flood losses and reduced disruption of transportation and commerce due to flooding.

Discussion of 2020 FMP Goals

Review of 2015 FMP Goals:

3. Strengthen Role as Regional Leader

The District provides floodplain regulation and management for the unincorporated portions of Maricopa County and for 14 of the 24 municipalities. The District also provides technical training and expertise, educational materials, design manuals, and flood warning services. The District's continued leadership role should further integrate with other regional planning efforts, and the District should actively seek public and private partnerships to maximize the value of infrastructure and support long-term sustainability.

4. Develop Lists of Resources

Severe flooding during the 2014 monsoon season created challenges in meeting the public's requests for flood-fighting resources and post-flood site visits. The District could improve its response to public information requests by developing pre-programmed web pages and field-ready response kits.

Discussion of 2020 FMP Goals

Review of 2015 FMP Goals:

5. Enforce/Enhance Regulatory Standards

The District is committed to enforcing floodplain regulations and identifying flood hazards. This commitment could be enhanced to incorporate emerging flood control technologies, improve technical analysis tools, and support alternate solutions such as floodproofing or acquisition of flood prone properties.

Discussion of 2020 FMP Goals

Review of 2015 FMP Goals:

6. Protect Natural Resources

Floodplains serve to capture and convey runoff through and away from the county during storms. Storm drainage is one of many important benefits provide by floodplains; other values to the community include:

- Aggregate resources needed for local development
- Cultural resources
- Recreational opportunities
- Visual aesthetics
- Water conservation opportunities
- Wildlife habitat and migration corridors