

# Pinnacle Peak West ADMS: Tonight's Agenda

- 6:00 – 6:15 pm  
Open House
- 6:15 – 6:30 pm  
Presentation
- 6:30 – 8:00 pm
  - General Q&A
  - Open House





**PINNACLE PEAK WEST  
AREA DRAINAGE MASTER STUDY  
Northwest Area Watersheds**

May 6, 2015 Community Meeting  
Theresa Pinto  
Project Manager

# Flood Control District of Maricopa County

*MISSION:* Reduce county resident's risks of injury, death, and property damage due to flooding

## Major Activities

- Floodplain & Watershed Studies
- Floodplain Regulation
- Flood Hazard Mitigation
  - Structural
  - Non-structural
- Operations & Maintenance
  - Dams, channels, levees, and basins



# PPW ADMS Study Area

95 square miles

## Jurisdiction

Scottsdale	46%
Phoenix	45%
Unincorporated	8%

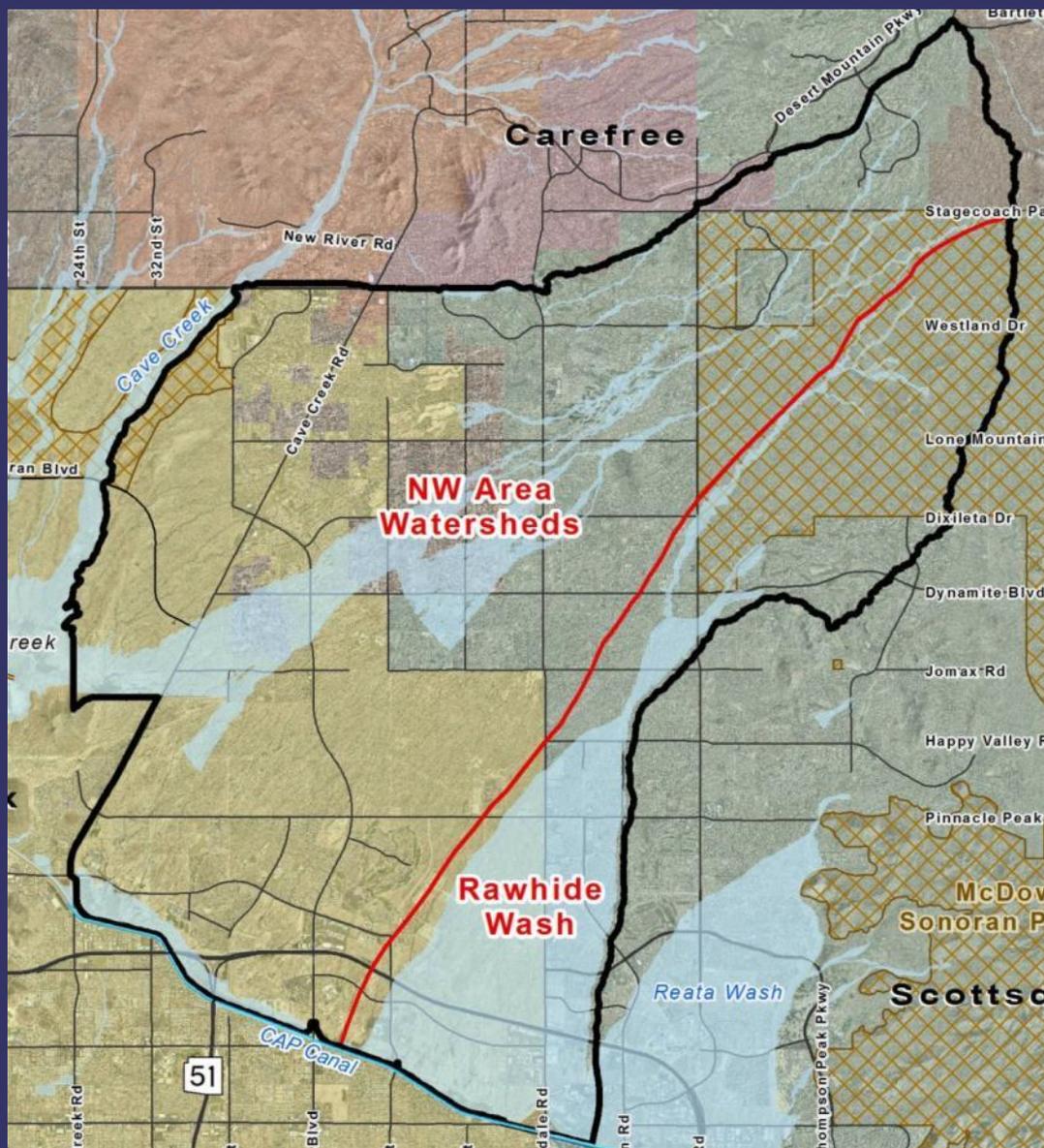
## Land Ownership

Private	48.7%
AZ State Land	41.4%
Federal	3.8%

## Project Partners

## Existing Floodplains

## Two Focus Areas



# Goal of Study: Help reduce flooding risks for residents

Identify



Inform



Involve

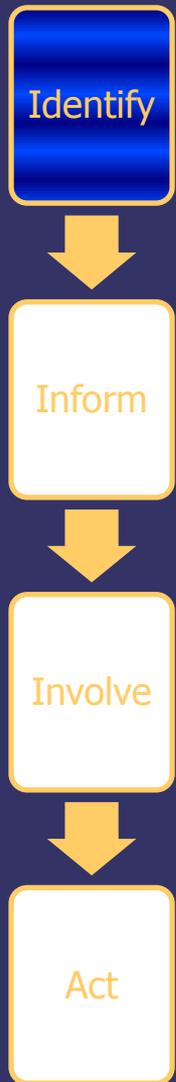


Act

- Identify Existing Flood Hazards & Risks
- Inform Public & Share Results
  - Residents, Engineers, Floodplain Managers, and Decision Makers
  - Community/Public Meetings, Newsletter, Conferences, Meetings, & On-line
- Involve Public & Decision Makers
  - Discuss potential flood risk reduction measures
  - Next steps
- Take Actions to Help Reduce Flood Risk



# Identify Existing Flood Hazards & Risks



## Hydrology & Hydraulic Models

### ○ Data Used

- Surveyed culverts, bridges, wall openings
- Updated topographic mapping, rainfall, land uses
- Public & stakeholder information

### ○ Models

- Complex & advanced
- Required a lot of care, thought, and evaluation
- Highly detailed; over 6 Million data sets



# Identify Existing Flood Hazards & Risks

## Key Results

- Over 1900 houses and buildings at *potential* risk
- 380+ transportation hazards identified
- Some floodplain maps do not represent the flood hazards
- Flooding problems are widespread
- Animation

Identify

Inform

Involve

Act

Westland Dr

Valley Rd

Scottsdale Rd

County

Dixileta Dr

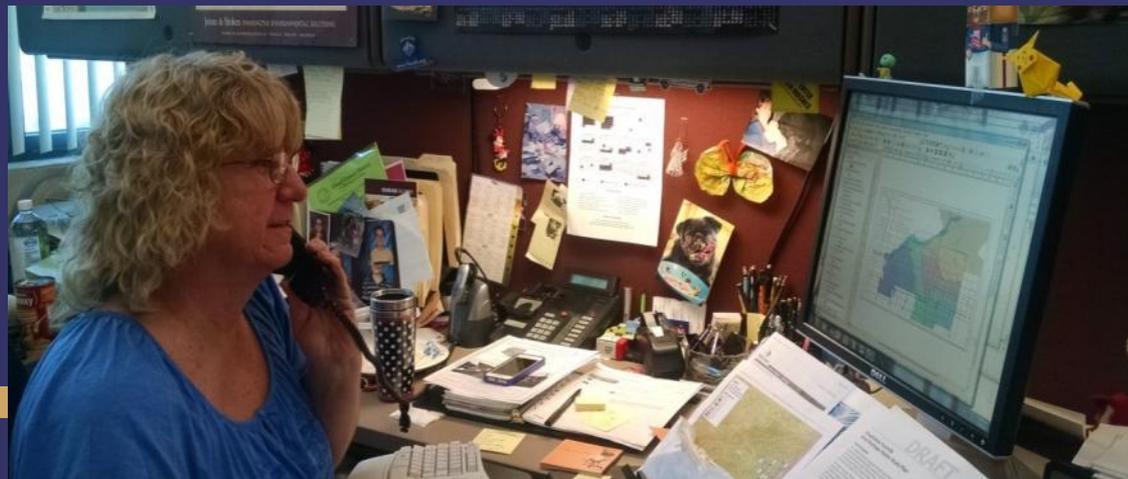
Dynamite Blvd

6th St

County

# Inform & Share Results

- Residents, Engineers, Floodplain Managers, and Decision Makers
  - Over 100 data inquiries
  - Conferences
- Community & HOA Meetings
- Met with School Districts
- Individuals
  - Meetings
  - Emails
  - Phone calls
- Ongoing



Identify

Inform

Involve

Act

# Involve

Identify



Inform



Involve



Act

- Public, Stakeholders, Decision Makers
  - Next steps & recommendations
  - Citizen's voices are powerful
- Ongoing



# Actions to Reduce Flood Risk

Who can take action?

- County, Cities, Residents, Developers, Engineers
- County & Cities
  - Promote and regulate for safe development
  - Update flood hazard studies
  - Educate residents, developers, and engineers
  - Implement flood risk reduction measures
    - Structural
    - Non-structural

Identify

Inform

Involve

Act



# Actions to Reduce Flood Risk

Identify

Inform

Involve

Act

- Existing Residents & Homebuilders Actions
  - Be aware of hazards and risks
  - Work with cities and county
  - Consider purchasing flood insurance
  - Landscaping, grading and erosion protection
  - Structural fixes
  - Floodproofing
  - Don't forget to get permits



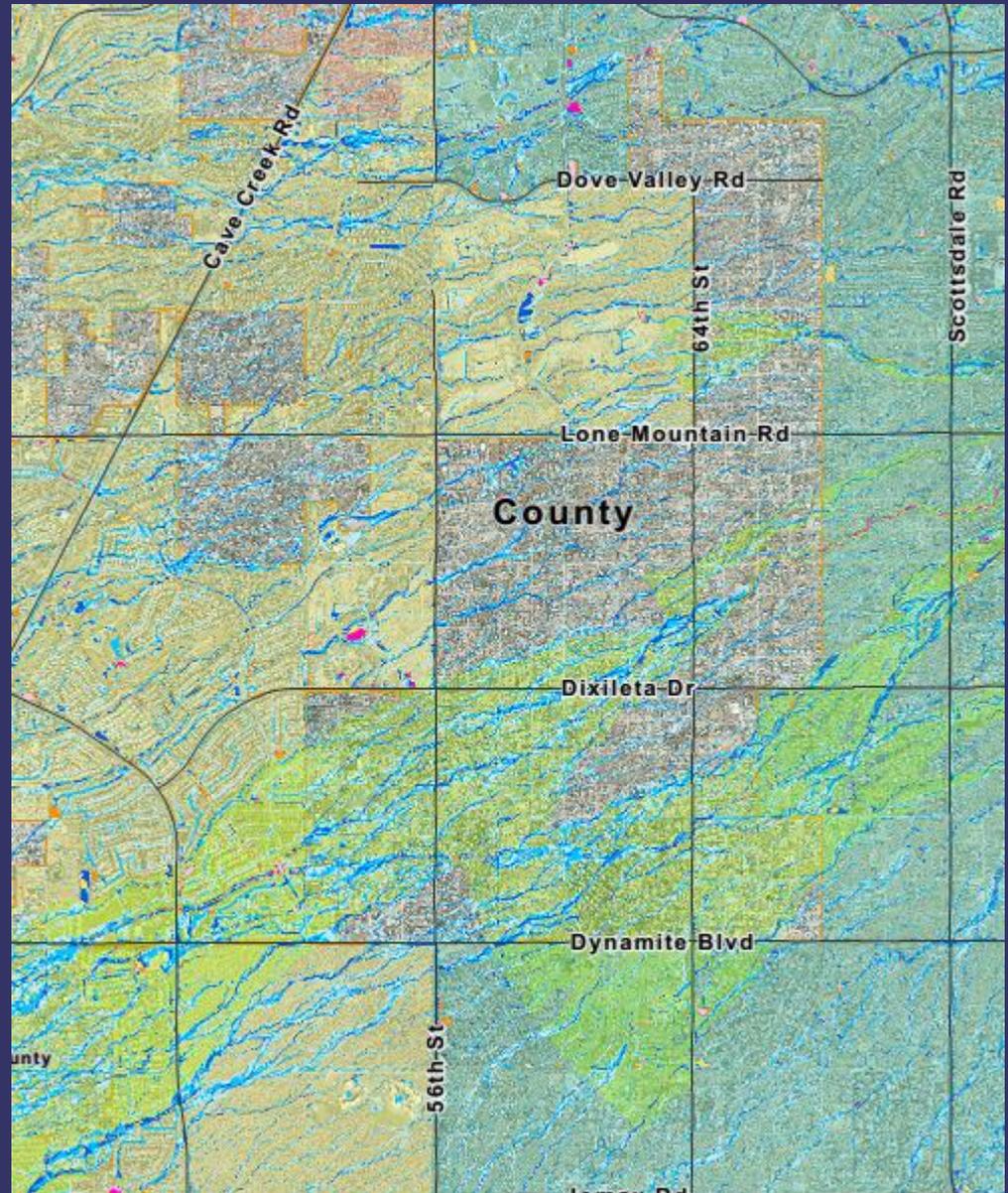
Flood Wall for Individual House

# Key Results of Study

- Over 1900 Houses or Buildings at **Potential** Risk
  - Based on predicted water depths next to house
- Flooding problems are widespread
  - Structural mitigation is not feasible in most cases

## Specific Actions & Response

- Inform residents of flooding risk and actions
- Small fixes could be feasible for some areas

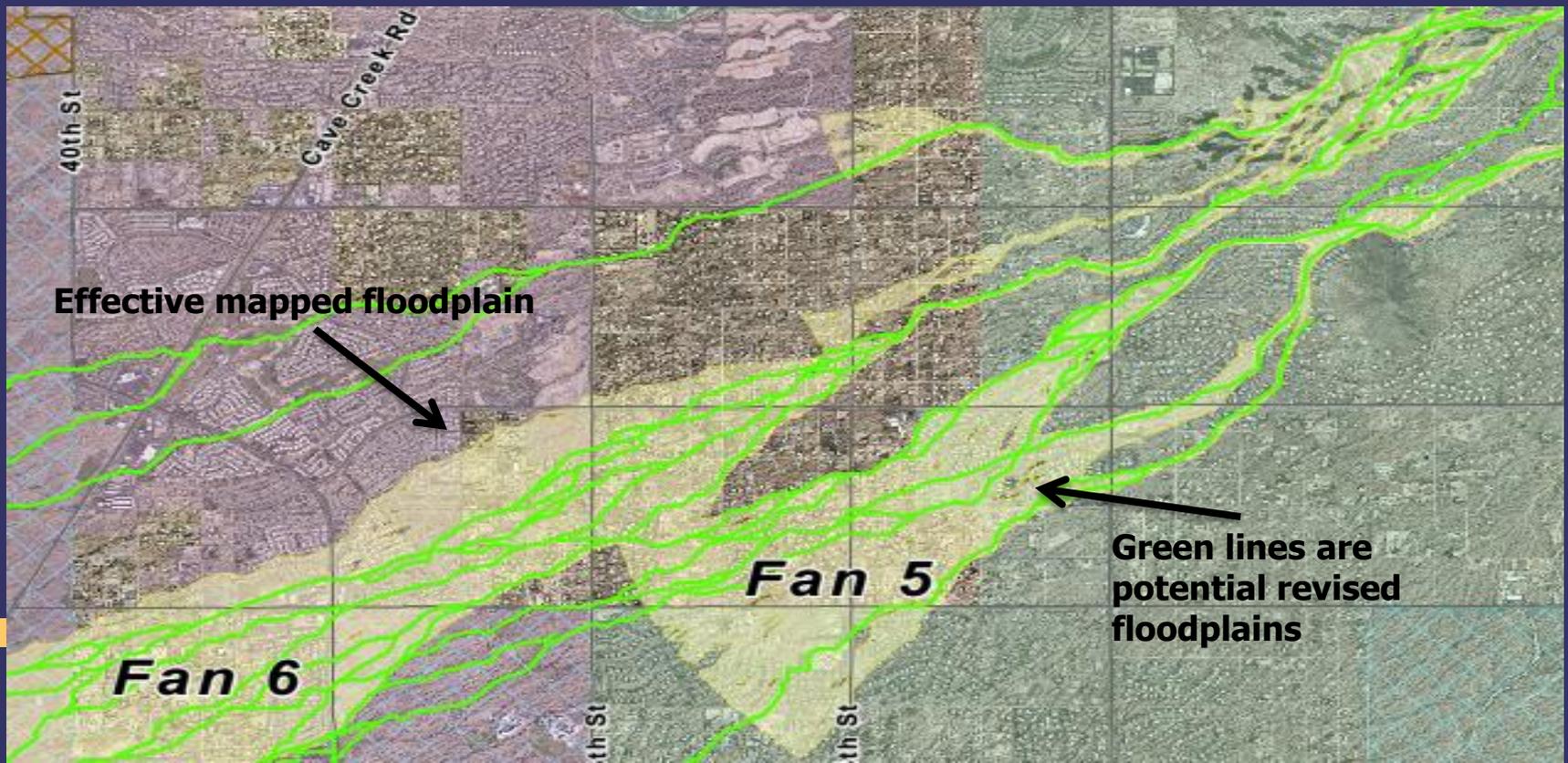


## Key Results of Study

- Some floodplain maps don't reflect the actual flood hazards

## Specific Actions & Response

- Remap Fans 5 & 6 Floodplain (Pending FEMA approval)



# Key Results & Concerns from Public

- Significant road flooding
  - Which roads should they avoid?
  - Over 380 road hazards identified
- Damaged roads after floods
  - Who is responsible?
  - Who to call?



# Specific Actions & Response

- Prepared a road hazard map
- Provided information to local jurisdictions
- Developing a Flooding Resource Guide



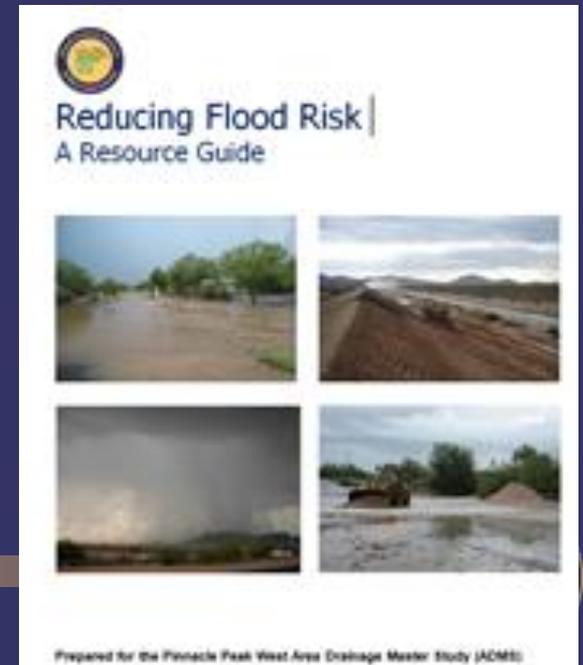
# Key Results & Concerns from Public

- Didn't know where to get information
  - Who is responsible for wash maintenance?
  - When do I need a permit?
  - What can I do to reduce my flood risk?



## Specific Actions & Response

- Developing a Flooding Resource Guide (Need input)
- Online Map
- Updated District's website



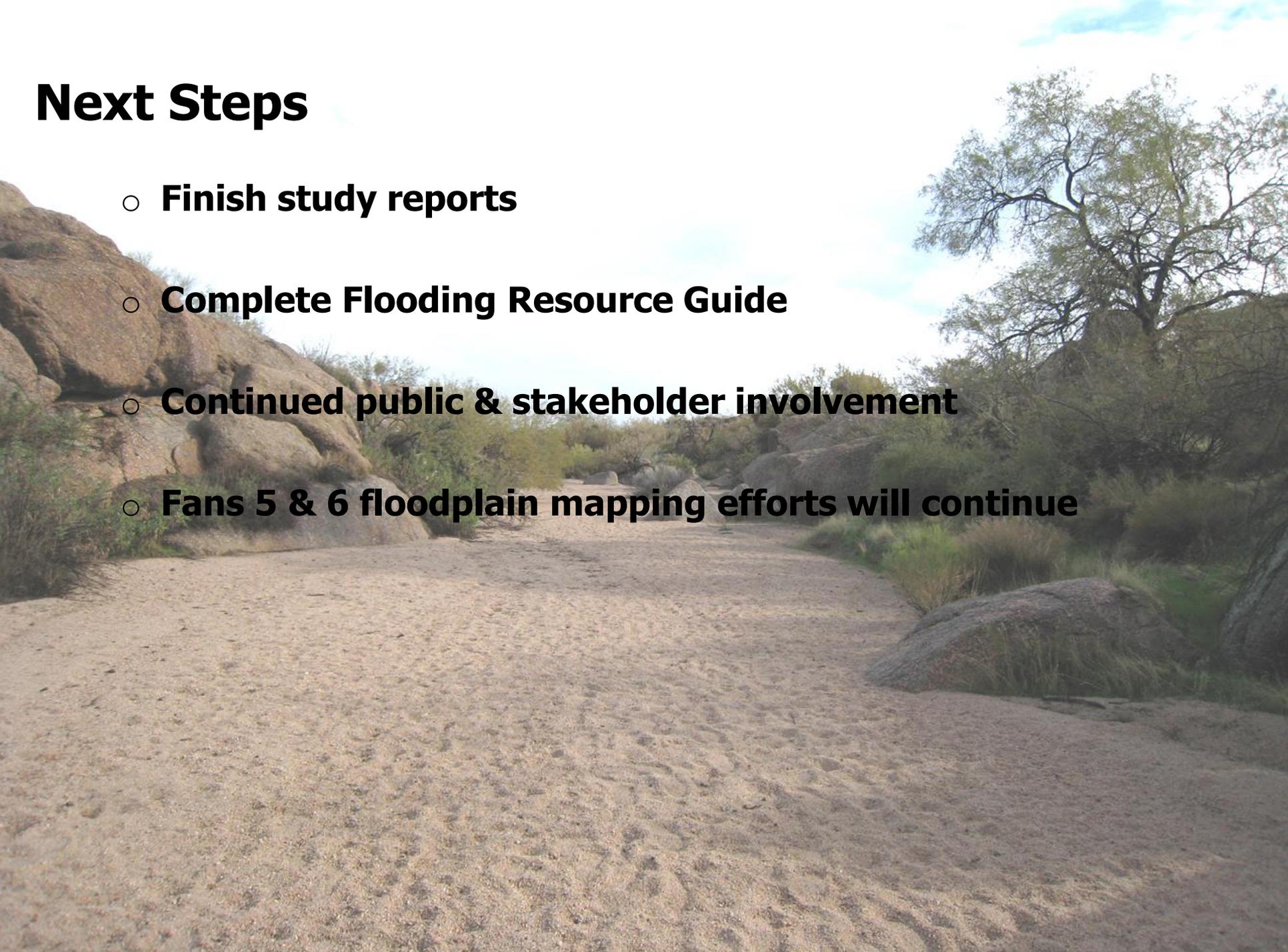
# Summary & Key Messages

- Identified flood hazards and risks
  - Model results are online
  - Some floodplain maps do not accurately depict hazards
- Significant Flooding Risks
  - Houses & Transportation
  - Dispersed & not concentrated
  - Small/local projects may be feasible
  - Options to reduce flood risk



# Next Steps

- **Finish study reports**
- **Complete Flooding Resource Guide**
- **Continued public & stakeholder involvement**
- **Fans 5 & 6 floodplain mapping efforts will continue**



# Open House: 6:45 to 8:00

## ○ Review Results

- Maps & Exhibits
- Laptops

## ○ General Flooding Info

- Exhibits
- Handouts
- Cities, MCDOT, P&D

## ○ Provide Input

- Flooding resource guide
- General comments

