

# New Money Public Infrastructure Projects

Board of Supervisors  
Work Session

October 15, 2014



P I N A L • C O U N T Y  
*wide open opportunity*

# Candidate Projects

Type of Public Infrastructure	Cost Estimate
Hunt Highway Improvements (Phases III-V)	\$20,000,000
Public Safety Radio Upgrades	\$19,000,000
Sheriff Office Substation	\$8,000,000
Judicial (Courts) Master Planning	\$15,000,000
County Complex – District 2	\$4,500,000
County Complex – District 4	\$4,500,000
Land Acquisition (Sheriff Office Substation & County Complexes – Districts 2 & 4)	\$4,000,000
Total	\$75,000,000



## Hunt Highway Improvements

- **Phase I: Empire Blvd – Thompson Rd**
  - **Construction completed July 2014**
  - **1.8 Miles**
  - **Widening, intersection & drainage improvements**
  - **4-lanes with select median turn lanes & 2-way left turn lane**
  - **\$5.5 million**



## Hunt Highway Improvements

- **Phase II: Thompson Rd – Gary Rd**

- **Design completed July 2014**
- **Construction start anticipated October-November 2014**
- **1.7 Miles**
- **Widening, intersection & drainage improvements**
- **4-lanes with 2-way left turn lane**
- **New traffic signal at Village Lane**
- **\$4 million**



## Hunt Highway Improvements

- Phase III: Gary Rd – Bella Vista Rd
  - Design underway
  - Land acquisition underway
  - 1.8 Miles
  - 4-lanes with 2-way left turn lane
  - Hunt Highway identified as a “High/Critical” Priority in the Regionally Significant Routes for Safety & Mobility Study – February 2008
  - \$6 million



## Hunt Highway Improvements

- **Phase IV: Bella Vista Rd – Magma Rd**
  - **Design underway**
  - **State Land acquisition underway**
  - **2.4 Miles**
  - **4-lanes with 2-way left turn lane**
  - **Hunt Highway identified as a “High/Critical” Priority in the Regionally Significant Routes for Safety & Mobility Study – February 2008**
  - **\$8 million**



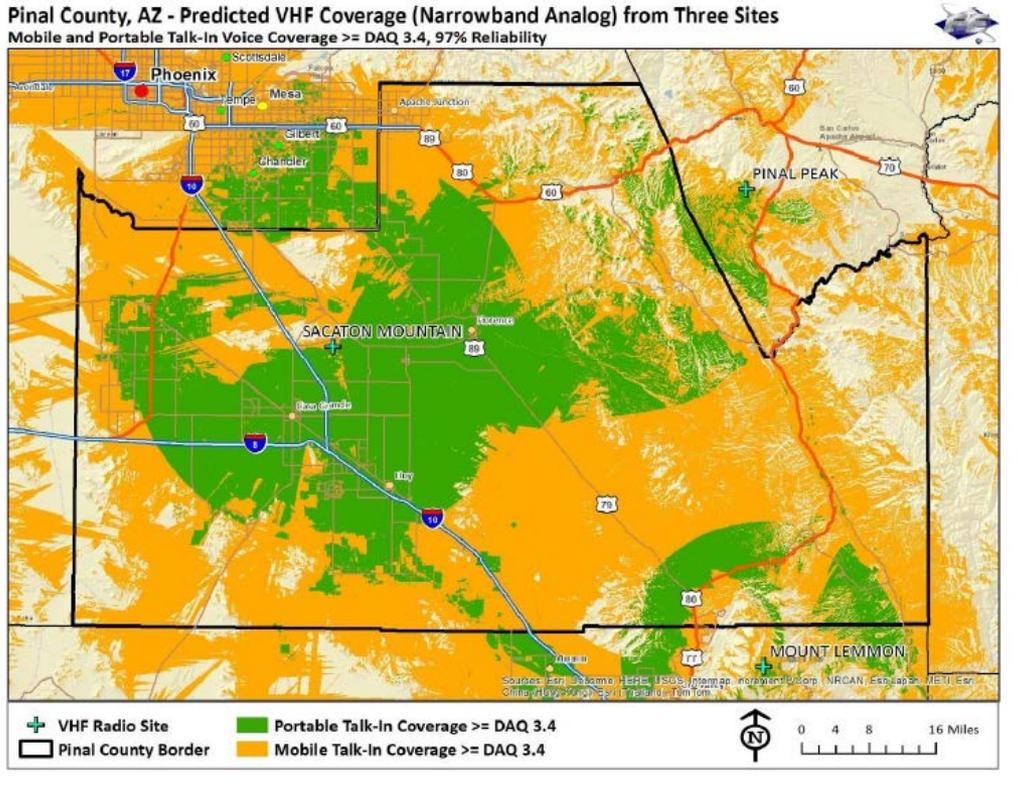
## Hunt Highway Improvements

- **Phase V: Magma Rd – Arizona Farms Rd**
  - **Design underway**
  - **1.4 Miles**
  - **4-lanes with 2-way left turn lane**
  - **Hunt Highway identified as a “High/Critical” Priority in the Regionally Significant Routes for Safety & Mobility Study – February 2008**
  - **\$5 million**

## Public Safety Radio System Upgrade

### New Project 25 (P25) 700 MHz Trunked Radio System

- **Identified in Pinal County Public Safety Communication Roadmap – June 2014**
- **Replaces existing analog conventional radio system**
- **Complies with new federal standards**
- **Improves coverage, capacity & interoperability with enhanced operational & security features**
- **Critical for officer safety**



Existing Analog Coverage Map

## Public Safety Radio System Upgrade

### Current Environment

- **Analog, VHF, Conventional**
- **1000 Active 2-way Radio Devices** (single band VHF)
- **7 Radio Channels** (Uni-Cast)
- **5 Existing Radio Sites**
- **Critical for officer safety**
- **81% Mobile Radio Coverage**
- **31% Portable Radio Coverage**



### Where we should be....

- **Digital 700 MHz, Trunked, Networked System**
- **Dual –Band Radio Devices** (VHF and 700MHz for interoperability)
- **Simulcast** (better channel operations)
- **~14 Radio Sites** (increase of 9 to achieve optimal coverage)
- **Critical for officer safety**
- **~90% Area Of Operations**
- **~90% Area Of Operations**

## Public Safety Radio System Upgrade

Reasons for improvements.....

- **Officer Safety – Better coverage and better quality**
- **Agency interoperability – Must be able to talk to other agencies**
- **Security – Ability to encrypt audio to protect operations and confidential citizen information .**
- **Invest in new standard P25 technology – Current radio system is 1980's – 1990's technology. Improvement efforts over the last several years have primarily kept up with mandates.**

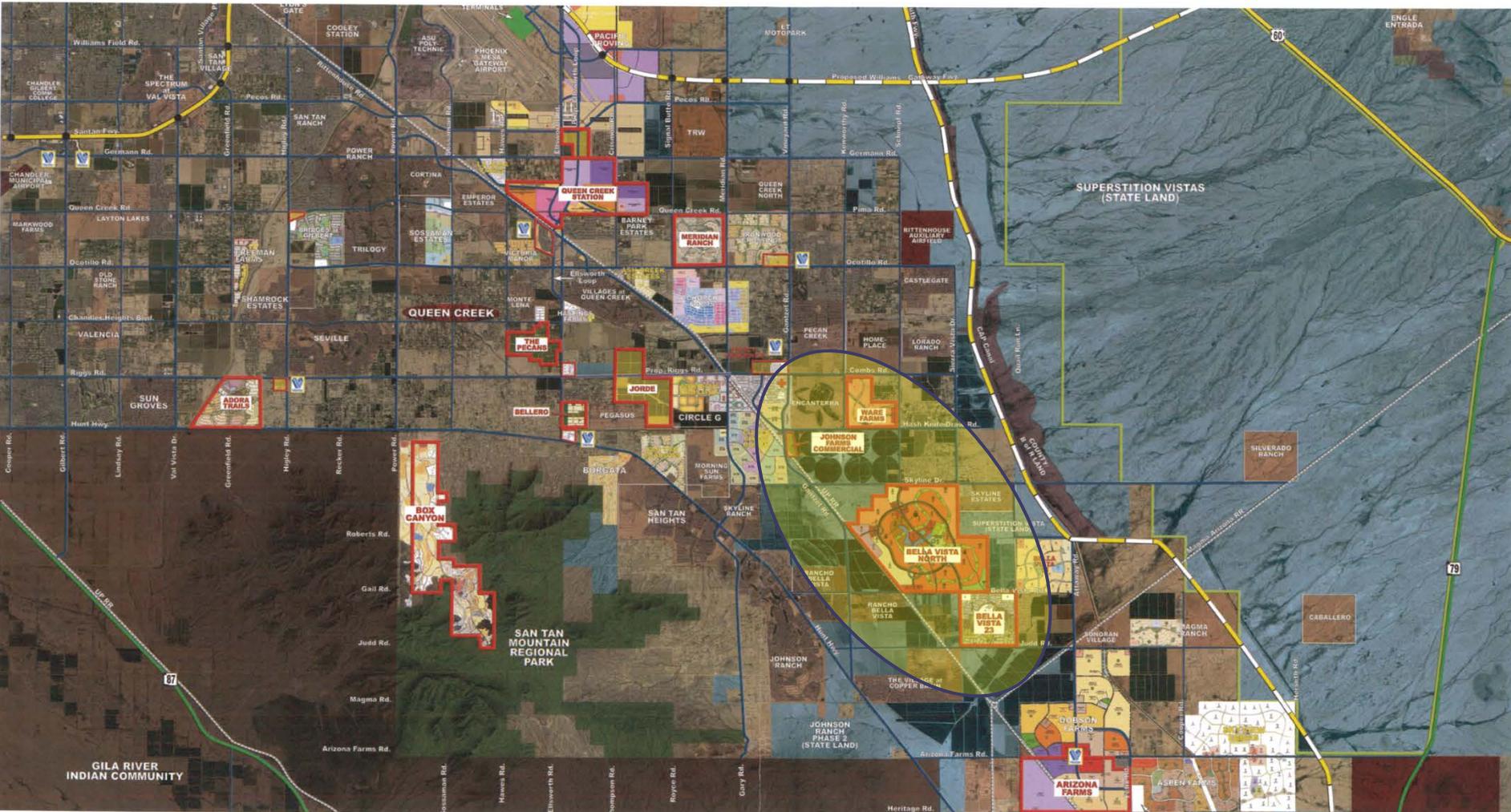
Estimated Cost .....

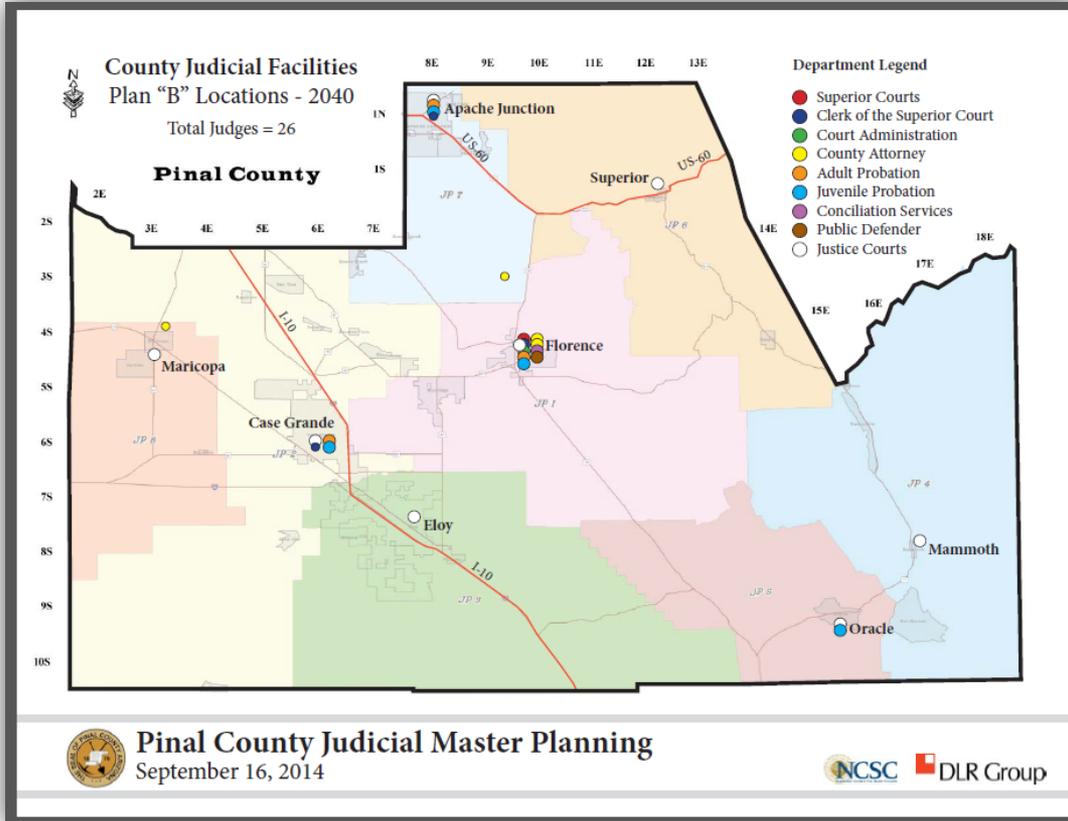
- **\$19,000,000 - \$20,000,000**
- **Ongoing maintenance and support will increase from current levels. Typically maintenance costs for hardware and software are 5% - 8% of purchase cost.**



## Sheriff Substation

- Facility in San Tan Valley
  - Replaces existing leased facility
  - Identified in 2014 Public Works Capital Improvement Plan
  - Includes design & construction of new facility
  - Proposed 20,000 square foot, single story structure
  - Evaluating project sites in the San Tan Valley area



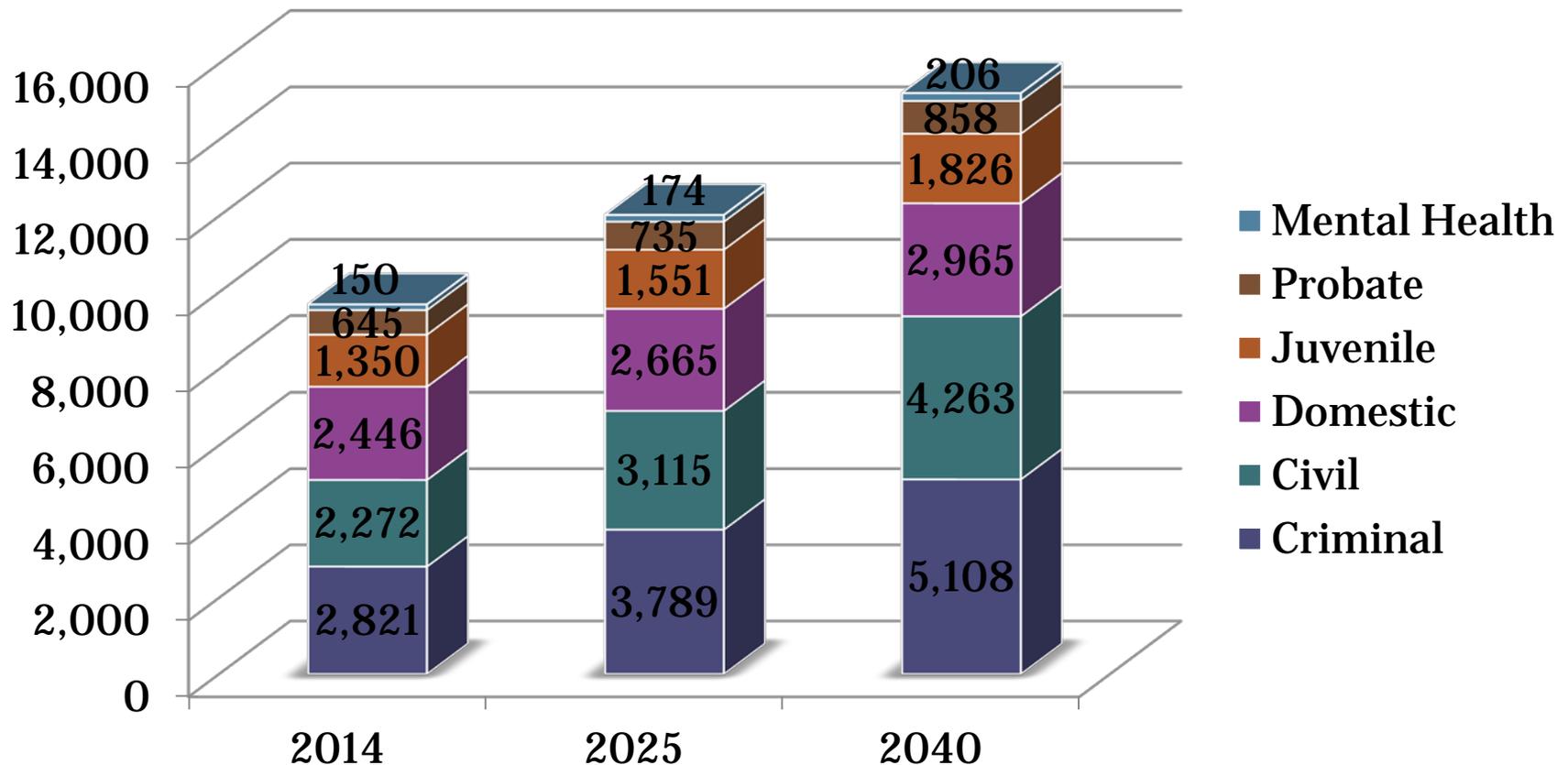


## Judicial (Courts) Master Planning

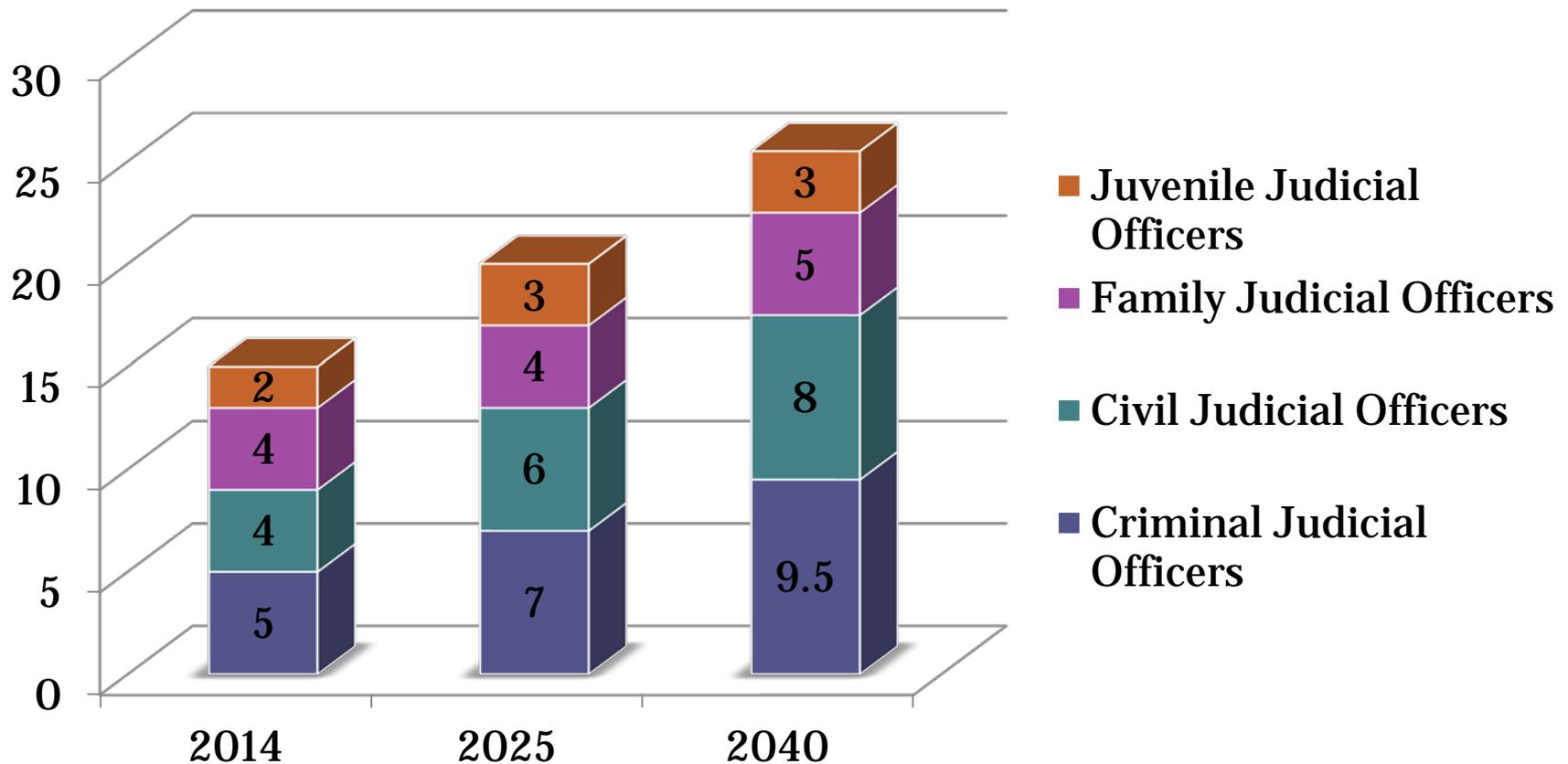
### • Expansion of Facilities Countywide

- **Facilities for Superior Courts, Clerk of the Superior Court, Court Administration, County Attorney, Adult & Juvenile Probation, Conciliation Services, Public Defender & Justice Courts**
- **Identified in Pinal County Judicial Master Planning Study – September 2014**
- **Identified in 2014 Public Works Capital Improvement Plan**

# Superior Court Case Filing Growth Model

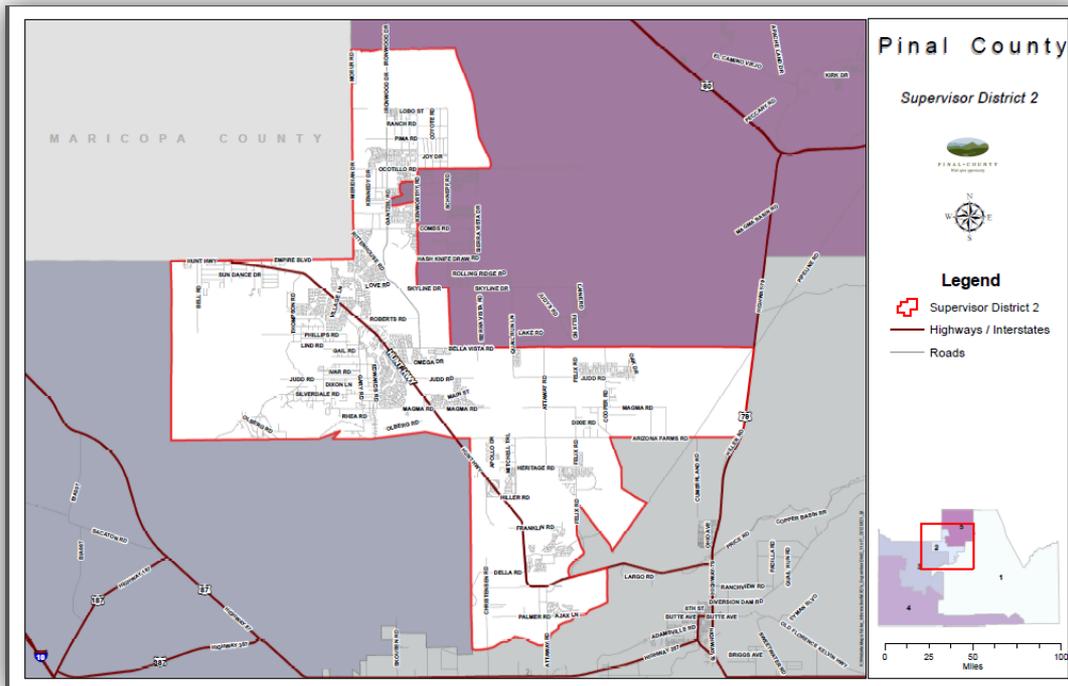


# Superior Court Judicial Officer Growth Model

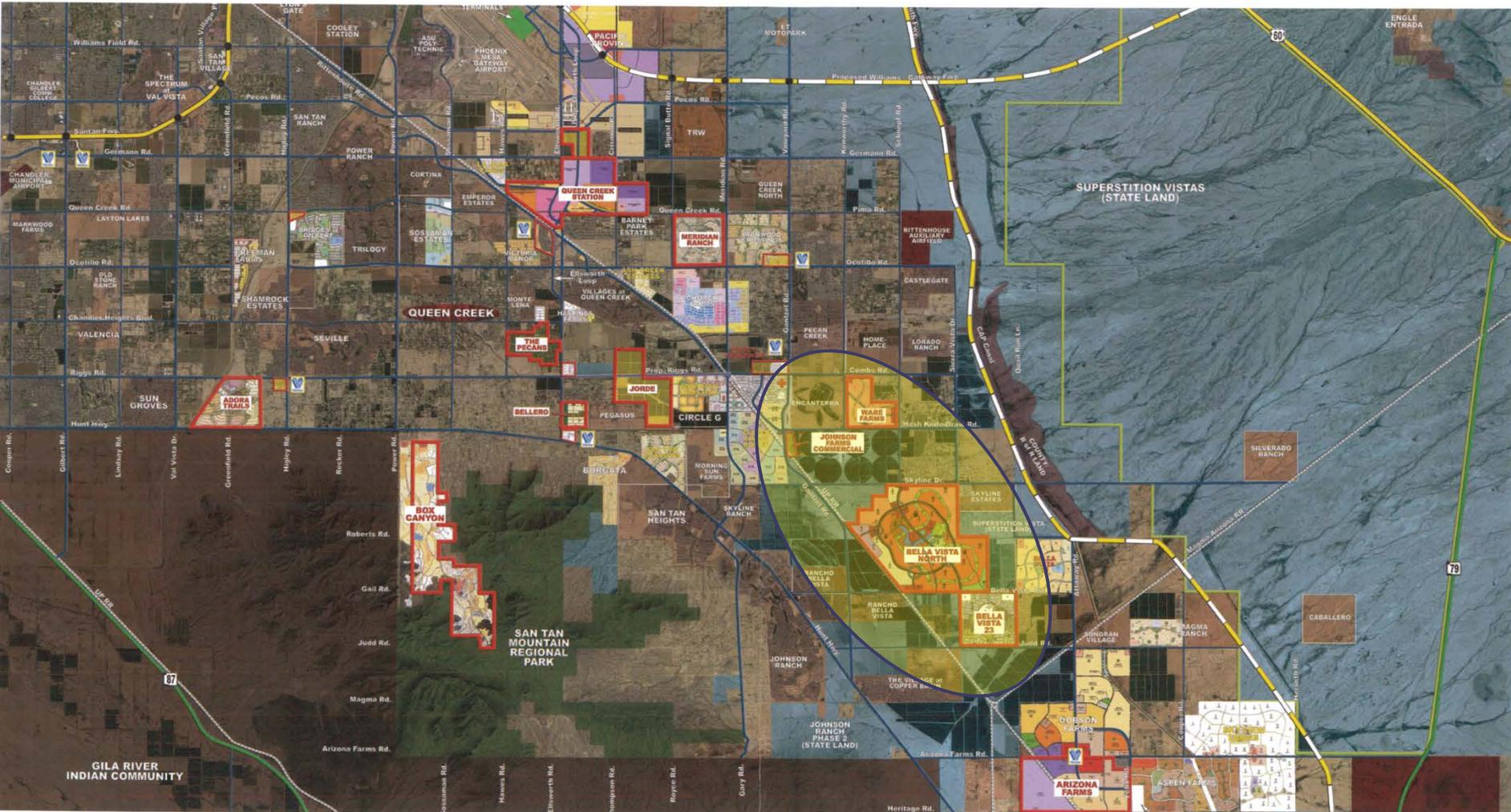


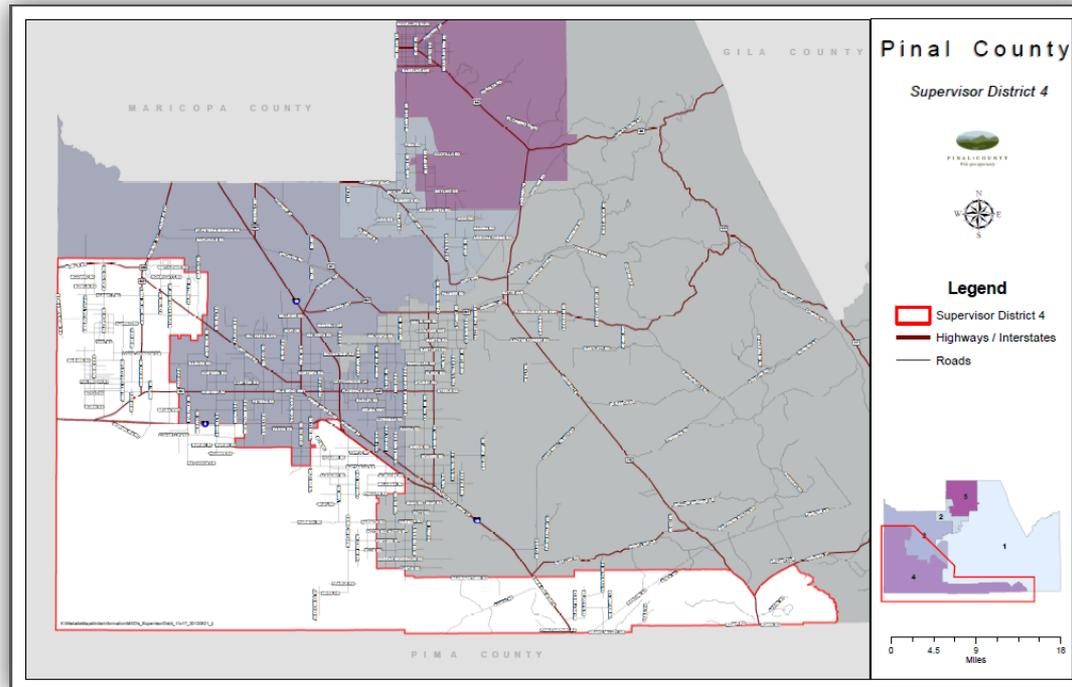
## County Complex - District 2

### • New Construction of Administrative Offices



- **Construction of new administrative offices for District 2**
- **Identified in Pinal County Space & Needs Assessment Study - 2006**
- **Identified in 2014 Public Works Capital Improvement Plan**
- **Evaluating project sites in the San Tan Valley area in conjunction with the Sheriff Substation**





## County Complex - District 4

- **New Construction of Administrative Offices**

- **Construction of new administrative offices for District 4**
- **Identified in Pinal County Space & Needs Assessment Study - 2006**
- **Identified in 2014 Public Works Capital Improvement Plan**
- **Evaluating project sites in the Maricopa area**





## Land Acquisition

- Sheriff Substation & County Complexes for District 2 & 4
  - **Property for construction of new facilities**
  - **Evaluating project sites in the San Tan Valley and Maricopa areas**

# Other Project Candidates

Type of Public Infrastructure	Cost Estimate
Ironwood Drive Safety Turnouts (Various Locations)	\$4,000,000
Ironwood Drive Center Turnarounds (Various Locations)	\$1,000,000
Total	\$5,000,000



## Ironwood Drive Improvements

- **Safety Turnouts & Center Turnarounds at Various Locations: Germann Rd-Elliot Rd**

- **Arizona Department of Transportation conducted a Roadway Safety Assessment – June 2014**
- **Assessment team recommended improvements to address roadway safety**
  - **Increase roadway shoulder width to allow for turnouts & designate areas for center turnarounds**
  - **Rumble strips implemented – April 2014**

