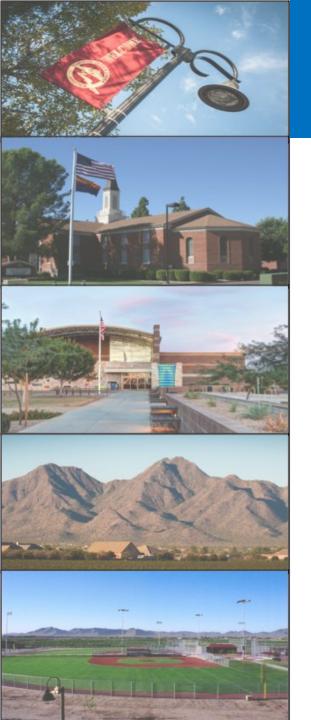


# **Queen Creek and Pinal County Small Area Transportation Study Update**

Meridian Road/Ray Road/CAP Canal/Combs Road

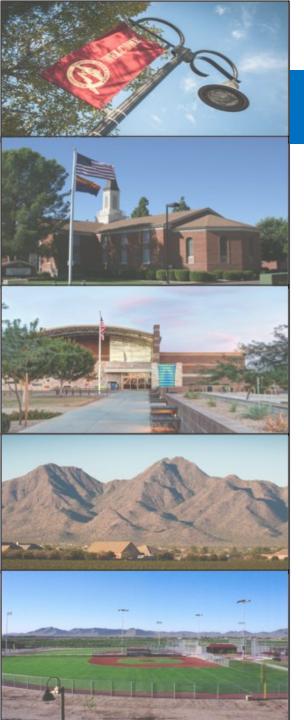


### Mohamed Youssef, PE, PTOE Public Works Director



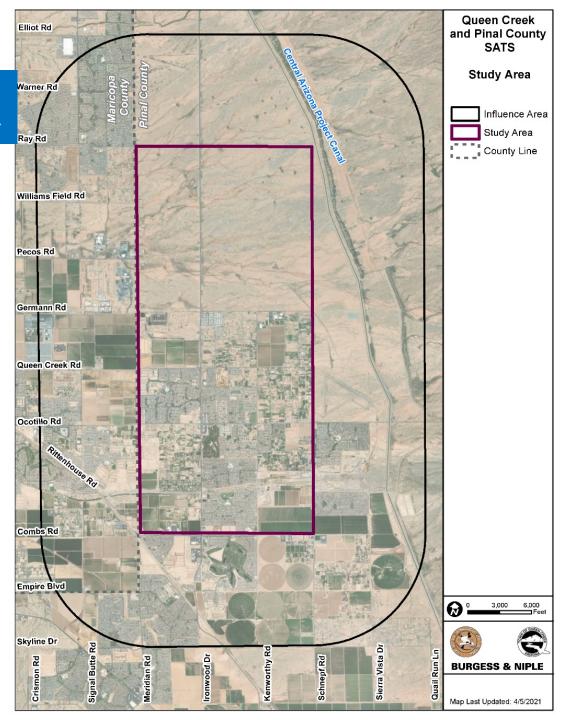
#### Presentation Overview

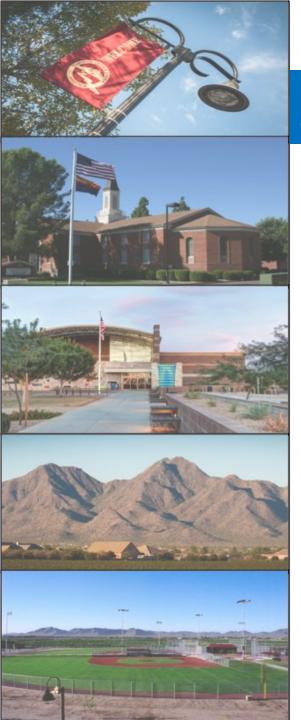
- Study area & updated study area
- Existing and 2030 Population and Employment
- Existing and 2030 Traffic Volume and Level of Service
- Open Discussion



#### 2020 Study Area

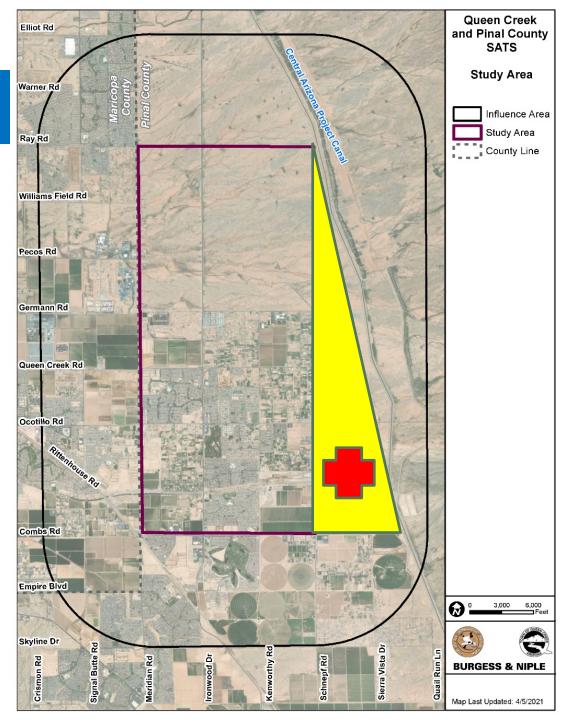
- ☐ The **study area**
- The study influence area includes a two-miles buffer surrounding the study area



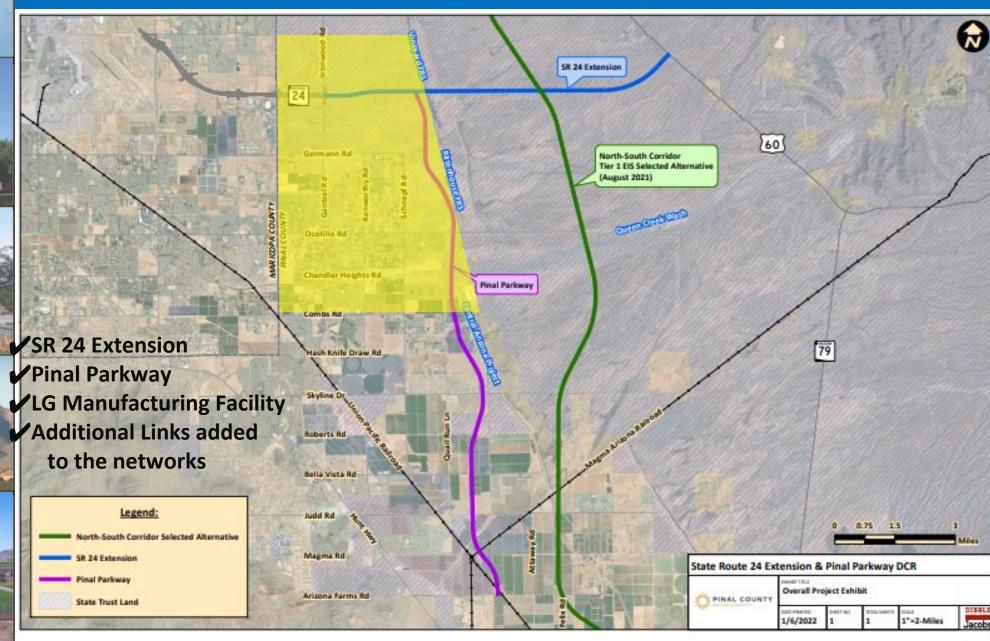


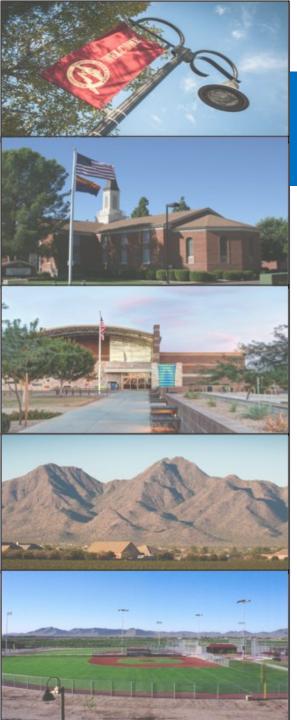
#### 2022 Study Area

- Updated study area
- New Major Developments includes
  - ✓ SR 24 Extension
  - ✔ Pinal Parkway
  - ✓ LG Manufacturing Facility
  - Additional Links added to the networks



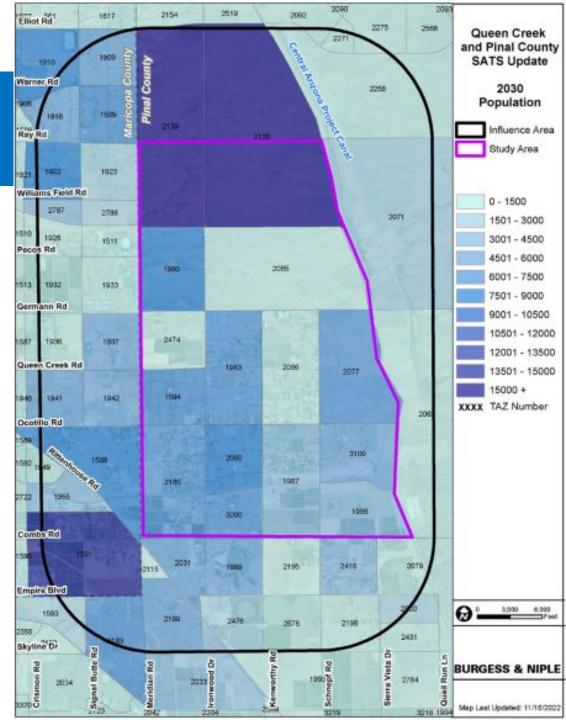
#### **Updated Study Area**

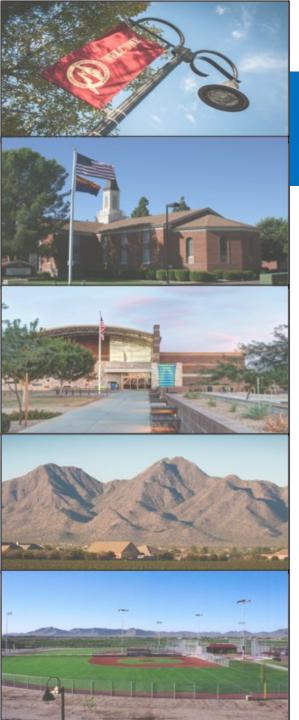




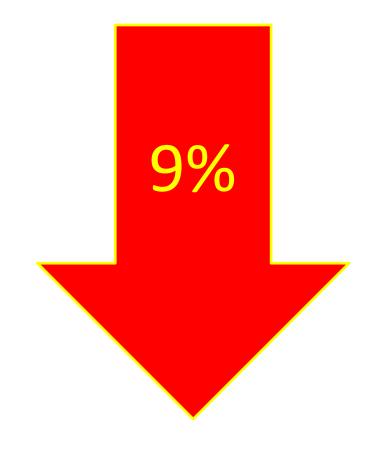
### Projected 2020-2030 Population Growth

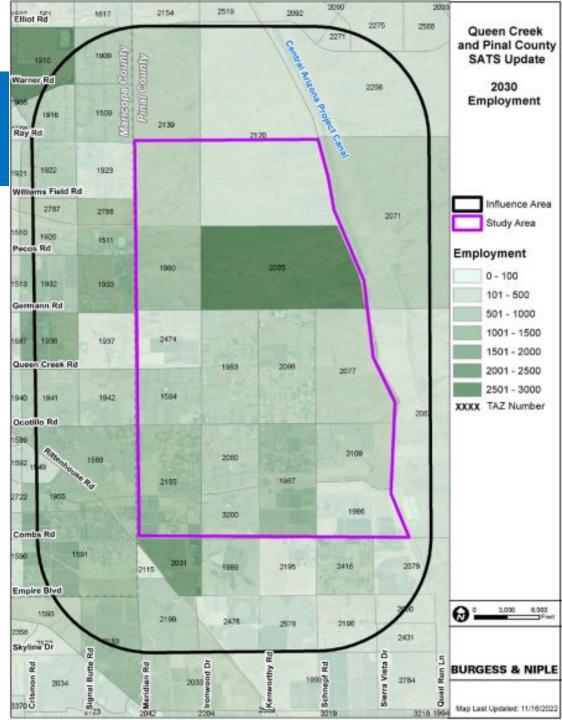






#### Projected 2020-2030 Employment Growth















#### Travel Demand Model Evaluation Methodology

Step 1: Base 2022 Model Run

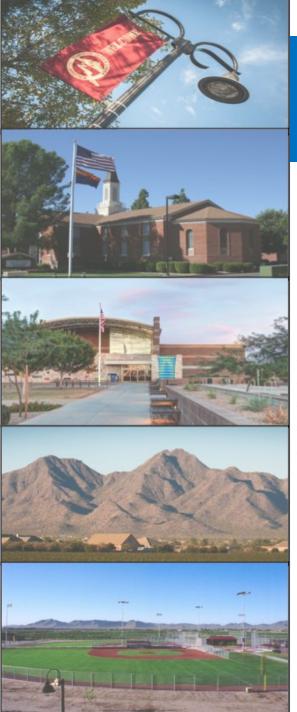
Step 2: Identify Discrepancies and Model Refinement

Step 3: Apply Updated 2030 Socioeconomic Data Sets to Future 2030 Model

Step 4: Future 2030 Model Run and ADT Projections

Step 5: Traffic Volume Refinements

Step 6: Roadway Capacity Analysis and Recommendations

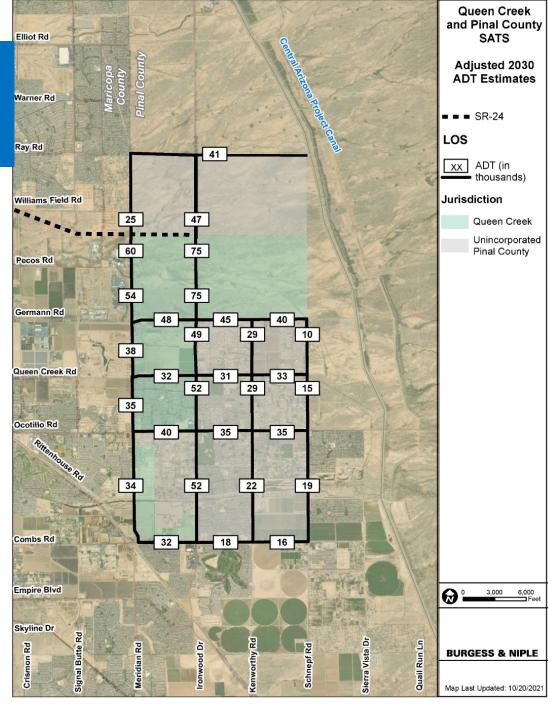


# 2030 ADT Estimates 1.0

\*Arterial Daily Volumes at Capacity

Type of Roadway	Number of Lanes	Capacity (vehicles per day)
Arterial	2	16,500
Arterial (no median)	4	32,000
Arterial (with median)	4	35,500
Arterial (no median)	6	49,000
Arterial (with median)	6	54,000

<sup>\*</sup>Per the 2020 Queen Creek Transportation Master Plan Update



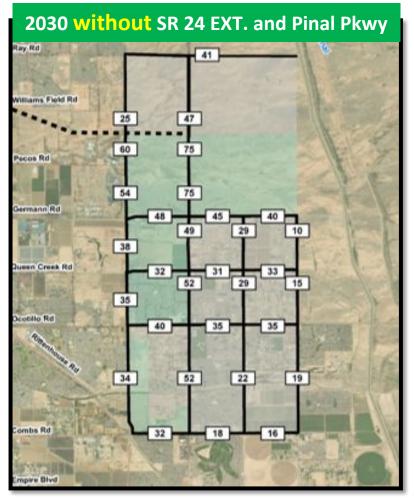


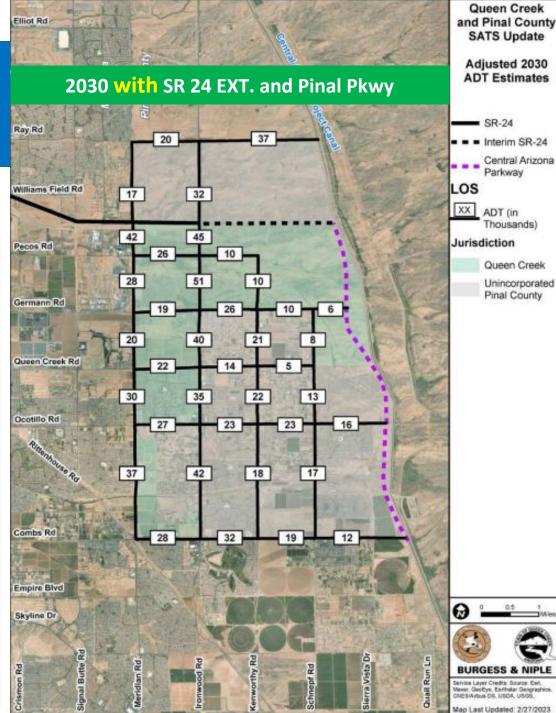






# 2030 ADT Estimates 2.0



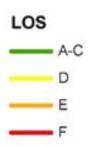


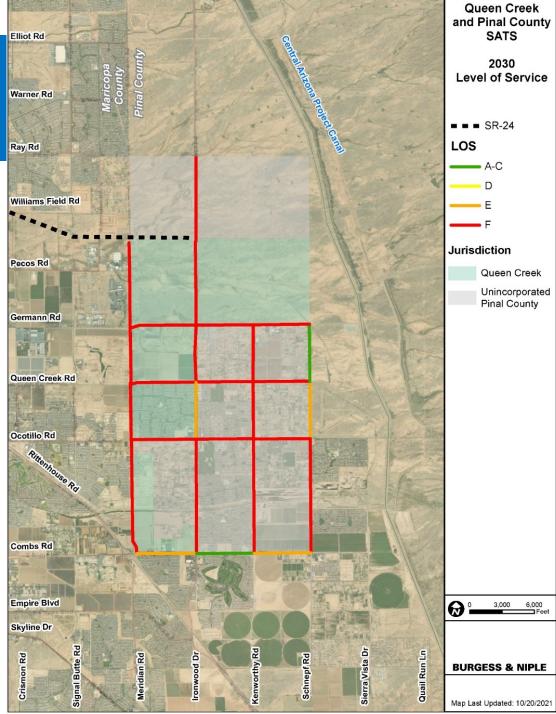


# 2030 Level of Service 1.0



















### 2030 Level of Service 2.0

