

City of Tucson

Transit Connections Focus Group

Strengthening Tucson's Frequent Transit Network

February 22, 2018 Kick-off Meeting

9-11am TDOT, 201 N Stone, 4th Floor Conf. Room



Agenda

- **Welcome and Introductions** *Jenn Toothaker, Project Manager*
- **Orientation to Purpose and Process** *Jenn Toothaker
Jan Waukon, Facilitator*
- **Transit Vision and Related Connections Presentation** *Project Team*
- **Small Group Breakouts** *All*
- **Review of Next Agenda and Meeting Dates** *Jan & Jenn*
- **Closing and *Thank You!***



Integrated Transportation Planning Project Team

Tucson Department of Transportation (TDOT)

Sam Credio, Interim TDOT Deputy Director

Park Tucson

Donovan Durband, Administrator

Planning Division

Andrew Bemis, Bicycle & Pedestrian Program

Tom Fisher, Project Manager

Shellie Ginn, Division Administrator

Transit Services

Steve Spade, General Manager

Davita Mueller, Transit Planner

**Housing and Community
Development (HCD)**

Glenn Moyer, Division Administrator

**Pima Association of
Governments / Regional
Transportation Authority**

James McGinnis, Transit Director

**Planning and Development
Services (PDSD)**

Rebecca Ruopp, Principal Planner

Tucson Police (TPD)

Thomas Hawke, Lieutenant

Transit Connections Focus Group

2012 Bond Oversight Commission	Ned Beman
Bicycle Advisory Committee, Tucson-Pima Co	Kylie Walzak
Commission on Disability Issues	Gabrielle Ficchi
Park Tucson Commission	Richard Oseran, Member
Pedestrian Advisory Committee	Maia Ingram
Transit Task Force	Robin Steinberg
Bus Riders Union	Suzanne Shafer
Downtown Tucson Partnership	Kathleen Eriksen, Executive Director
Fourth Avenue Merchants Association	Fred Ronstadt, Executive Director
Living Streets Alliance	Colby Henley
Marshall Foundation / Main Gate Square	Jane McCollum
Rio Nuevo Multipurpose Facilities District	Brandi Haga-Blackman
Southern Arizona Transit Association	Gene Caywood
Tucson Young Professionals	Tina Marie Summers
UA Transportation and Parking Services	David Heineking
Amphitheater School District	Marcela Arizpuro
Sun Tran Bus Driver	

Orientation to Focus Group Purpose and Process



8/8/17 Mayor and Council Direction

- Build from the Jarrett Walker Study and Transit Vision
- Address [at a minimum] the following topics
 - Pedestrian and bicycle connections with high-use bus routes
 - Strategies for how to increase ridership
 - Location of bus rapid transit (HCT) routes
 - Consider how parking revenues can support the Transit Vision
 - Ways to expedite implementing pilot programs (e.g. future bus routes)
- Expand membership of Focus Group and Project Team
- Return with List of Recommended Actionable Items



Existing Efforts to Integrate Transit, Parking, and Active Transportation

- Local Regulations and Policies
- Planning & Design Policies
- Modal Plans & Studies
- Funding & Investment Practices
- Operational Practices
- Convenience Features
- Outreach & Education

ATTACHMENT A

EXISTING EFFORTS TO INTEGRATE TRANSIT, PARKING, AND ACTIVE TRANSPORTATION

TRANSPORTATION PLANNING

REGULATIONS

City of Tucson, City Charter

- Chapter 29, Articles I-VII, "Travel Reduction Ordinance" (1988)
 - Focuses on reduction of single-occupancy vehicle and work-related trips by employees working for major employers (more than 100 employees)

City of Tucson, City Code

- Unified Development Code
 - Public Process Options
 - § Urban Overlay District
 - § Infill Incentive Districts
 - § Parking Ordinance 10886 (Chapter 23, Article III, Division 3)
 - § Design Development Options
 - § Rezoning conditions on applicant projects
 - § Variances
 - § Individual Parking Plan (IPP)
 - Administrative Options
 - § Major Streets and Routes Setback Relief
 - § Parking Design Modification Requests
 - § 'As Is' Permitting - if use is allowed in the zone, site improvements existing prior to 2005 can stay. Excludes restaurants and bars.
 - § Adaptive Reuse code relief tools
 - § Building Inspections / Code Staff
 - § Design Review Board
 - § Technical Services Manual Requirement
- Chapter 25, Streets and Sidewalks

Plan Tucson (2013)

- Overarching goals
- Land use, transportation, and urban design policies
- Revitalization policies

PLANNING & DESIGN POLICY

Regional

- Complete Streets Resolution (Dec. 15, 2015)

City of Tucson

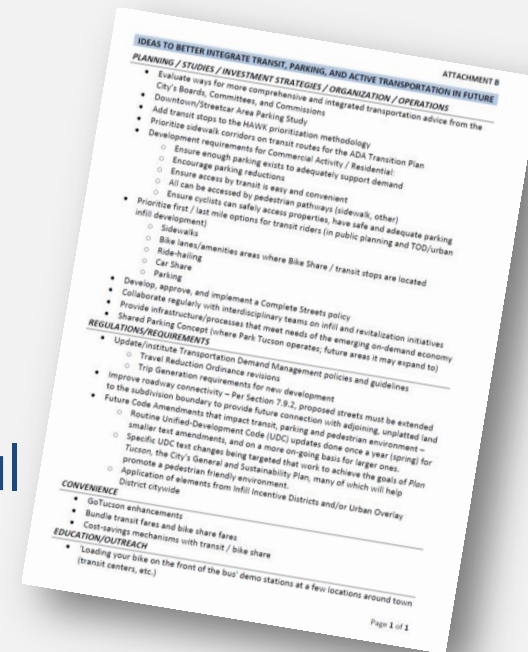
- Major Streets & Routes, Resolution 12045 in 1982 (multiple amendments since)
- City of Tucson Roadway Development Policies Ordinance 6593 (1998)
- Access Management Guidelines, Ordinance 9823 (2003; updated 2011)
- Neighborhood Traffic Management Plan (revised 2014)

Page 1 of 6



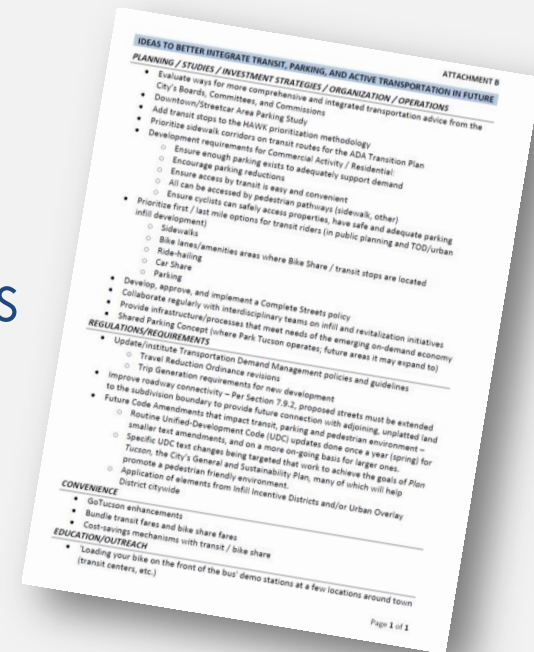
Initial Ideas to Better Integrate Transit, Parking, and Active Transportation

- Evaluate ways for more comprehensive and integrated transportation advice from BCCs
- Study the downtown/streetcar area parking
- Add transit stops to the HAWK prioritization methodology
- Prioritize sidewalks on transit routes in phasing recommendations of the Tucson ADA Transition Plan
- Develop requirements for Commercial Activity/Residential projects



Initial Ideas to Better Integrate Transit, Parking, and Active Transportation

- Prioritize first / last mile options for transit riders in public planning and TOD/urban infill development
- Develop, approve, implement City of Tucson Complete Streets policy
- Collaborate regularly on infill and revitalization initiatives
- Provide infrastructure that meet needs of emerging on-demand economy
- Shared Parking Concepts



Initial Ideas to Better Integrate Transit, Parking, and Active Transportation

Regulations / Requirements

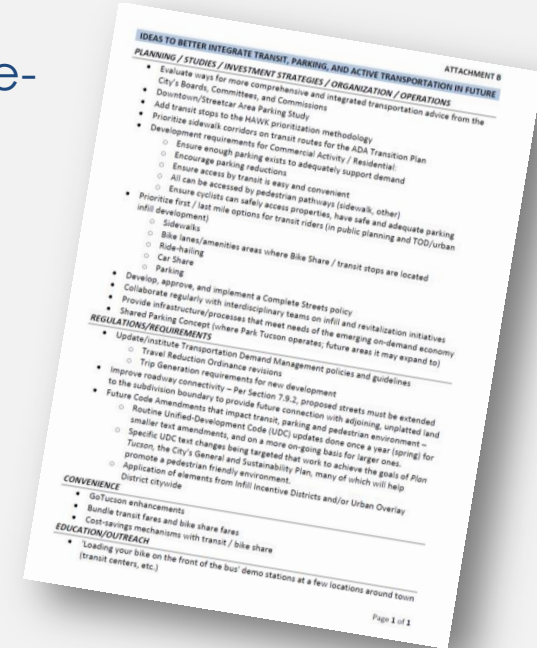
- Update / institute Transportation Demand Management policies and guidelines
- Improve roadway connectivity
- Future Code amendments

Convenience

- Go Tucson enhancements
- Bundle transit fees and tugo Bike Share fares
- Cost-savings mechanisms with transit/bike share

Education and Outreach / Marketing

- Demos such as the “Loading your Bike on the Front of the Bus” around town
- Coordinated marketing for events around streetcar and bus routes



Purpose Statement

To provide feedback to TDOT staff on proposed actionable items for Mayor and Council consideration aimed to support the success and growth of the Frequent Transit Network.

Through this effort, discussions will focus on opportunities to integrate and strengthen transportation planning, investments, and operations across multiple modes, including active transportation, first-/last-mile mobility options, and parking.



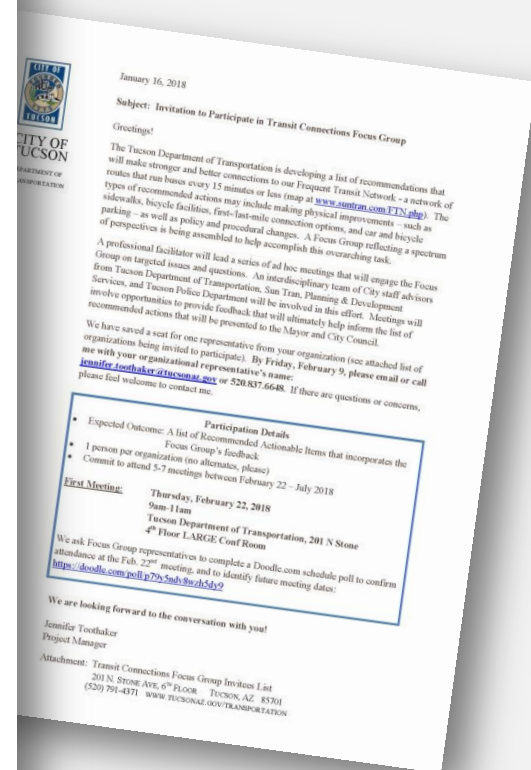
Letters of Invitation

TRANSIT CONNECTIONS FOCUS GROUP

Invitees

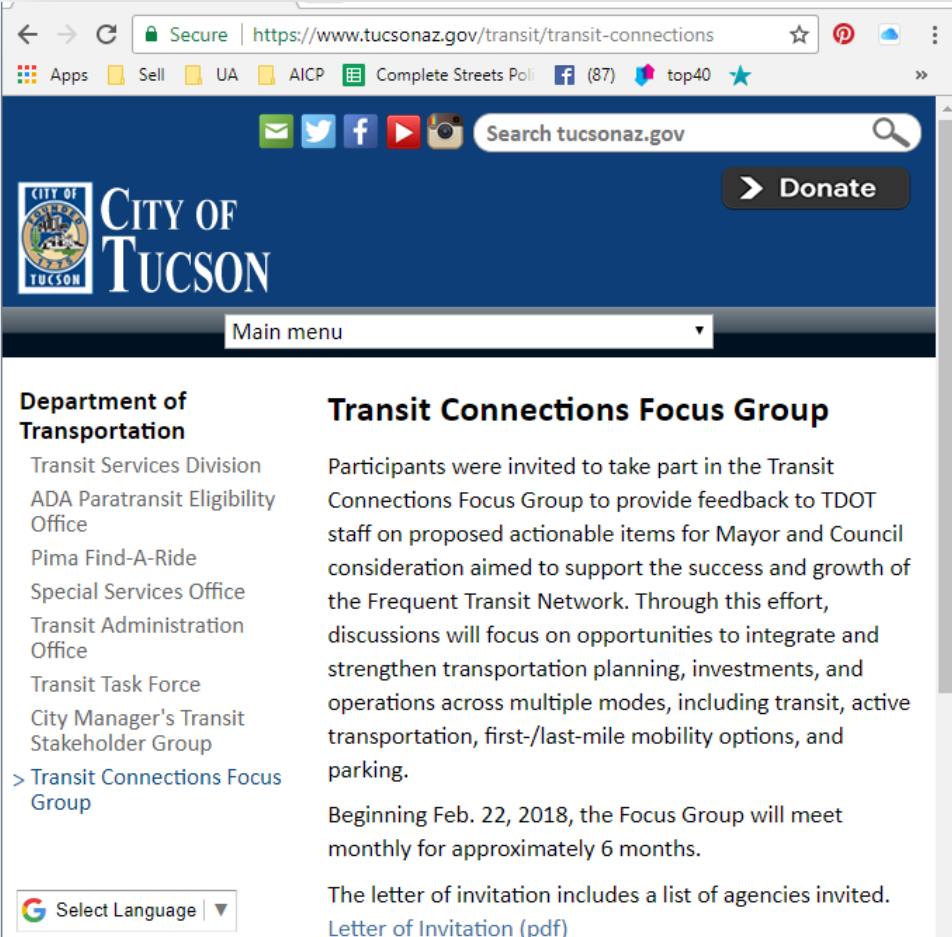
A representative from each of the following stakeholders will be invited to participate in meetings to provide input and recommendations:

- 2012 Bond Oversight Commission
- Bicycle Advisory Committee, Tucson-Pima County
- Commission on Disability Issues (or UA Disability Resources Center)
- Park Tucson Commission
- Pedestrian Advisory Committee
- Transit Task Force
- Bus Riders Union
- Downtown Tucson Partnership
- Fourth Avenue Merchants Association
- Living Streets Alliance
- Marshall Foundation / Main Gate Square
- Mercado San Agustin
- Regional Transportation Authority/Pima Association of Governments
- Rio Nuevo Multipurpose Facilities District
- School Districts (TUSD, Amphitheater, Sunnyside, Catalina Foothills, Flowing Wells)
- Southern Arizona Transit Association
- Tucson Metro Chamber of Commerce
- Tucson Young Professionals
- University of Arizona Transportation and Parking Services



Project and meeting materials will be posted online

Emails will be sent out in advance (~1 week)



The screenshot shows a web browser displaying the City of Tucson website. The address bar shows the URL <https://www.tucsonaz.gov/transit/transit-connections>. The page header includes the City of Tucson logo, a search bar, and a "Donate" button. A "Main menu" dropdown is visible. The main content area is divided into two columns. The left column is titled "Department of Transportation" and lists several offices: Transit Services Division, ADA Paratransit Eligibility Office, Pima Find-A-Ride, Special Services Office, Transit Administration Office, Transit Task Force, City Manager's Transit Stakeholder Group, and "Transit Connections Focus Group" (indicated with a right-pointing arrow). The right column is titled "Transit Connections Focus Group" and contains the following text: "Participants were invited to take part in the Transit Connections Focus Group to provide feedback to TDOT staff on proposed actionable items for Mayor and Council consideration aimed to support the success and growth of the Frequent Transit Network. Through this effort, discussions will focus on opportunities to integrate and strengthen transportation planning, investments, and operations across multiple modes, including transit, active transportation, first-/last-mile mobility options, and parking. Beginning Feb. 22, 2018, the Focus Group will meet monthly for approximately 6 months. The letter of invitation includes a list of agencies invited. [Letter of Invitation \(pdf\)](#)". At the bottom left of the page, there is a "Select Language" dropdown menu.



Purpose & Assumptions, Meeting Norms



TRANSIT CONNECTIONS FOCUS GROUP MEETINGS

Strengthening Tucson's Frequent Transit Network through Integrated Transportation Planning including Active Transportation, First-/Last-Mile Connections, and Parking Connections
www.tucsonaz.gov/transit/transit-connections

Purpose and Assumptions

Purpose: The purpose of the Transit Connections Focus Group is to provide feedback to TDOT staff on proposed actionable items for Mayor and Council consideration aimed to support the success and growth of the Frequent Transit Network. Through this effort, discussions will focus on opportunities to integrate and strengthen transportation planning, investments, and operations across multiple modes, including active transportation, first-/last-mile mobility options, and parking.

Assumptions:

- Five-six month timeline with completion estimated by mid-2018.
- The process will be led by TDOT staff.
- The meetings will be facilitated by a professional third-party consultant. Tucson Police Department, Planning & Development Services, and Sun Tran staff will participate as Focus Group Advisors.
- After the focus group provides its advice to TDOT staff, the TDOT Director will share the recommendations to the City Manager. The City Manager will then provide his recommendations to Mayor and Council for their consideration.
- Greater community participation/input on the recommendations may occur after the City Manager has made his recommendations to Mayor and Council.

Attendance requirements: We will hold 6 monthly meetings, and 1 field trip. We need everyone to participate, so:

- No substitutes or proxies.
- We will set up teleconference calls to help ensure your participation. Please give 24-hour notice.
- If you know you will be unable to attend at least 4 meetings, we respectfully ask you to find a new representative.

Materials distribution and review: Agenda and materials will go out a week in advance. Information will be made available on the web page:

Meeting Norms

Be prepared for each meeting.
When one person is talking everyone else is listening.
Wait to be recognized.
Allow facilitator to manage the meeting.

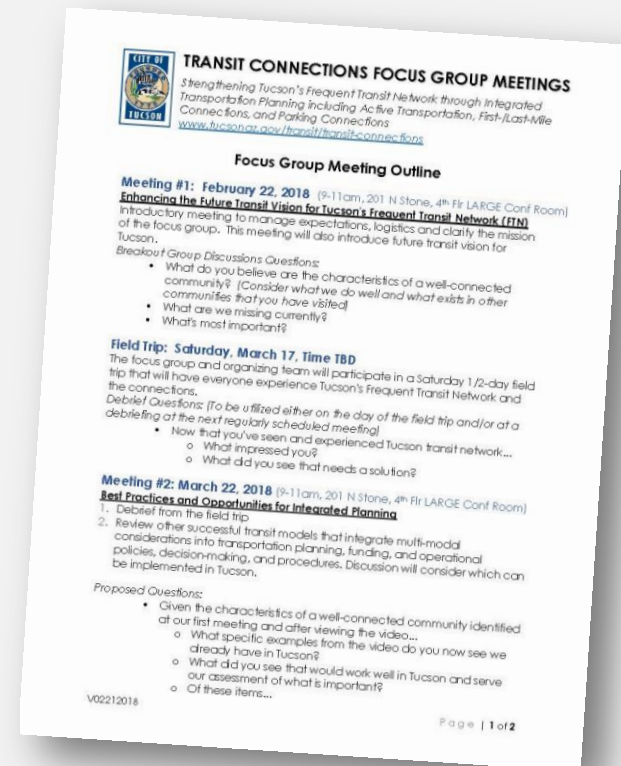
v02212018

Page | 1 of 1



Focus Group 2018 Meeting Outline

- 2/22 Meeting 1: Orientation
- 3/17 Field Trip: Experience
- 3/22 Meeting 2: Best Practices
- 4/19 Meeting 3: Preliminary List
- 5/17 Meeting 4: Funding
- 6/21 Meeting 5: Boards, Committees, and Commissions
- 7/19 Meeting 6: Review Staff Recommendations
- Mayor and Council Update



Transit Vision and the Related Connections



The Regional Transportation Network

- Purpose:
 - Provide efficient movement of people and goods
 - Provide equitable access to community for all
- Multi modal system
 - Streets
 - Transit
 - Bicycles
 - Pedestrian ways
 - Parking



City of Tucson Transportation Network

- **5,476** Street Lane-Miles
- **344** Miles of Drainage Ways
- **99,388** Traffic Signs
- **578** Traffic Signals with about 11,000 Signal Heads
- **645** Miles of Bike Ways
- **1,942** Speed Humps/Tables
- **156** Traffic Circles
- **9,495,000** Annual Miles of Fixed-Route Bus Service
- **4,974,800** Annual Miles of Paratransit Service
- **21,766** Street Lights
- **5,671** Right of Way Permits Issued in 2017

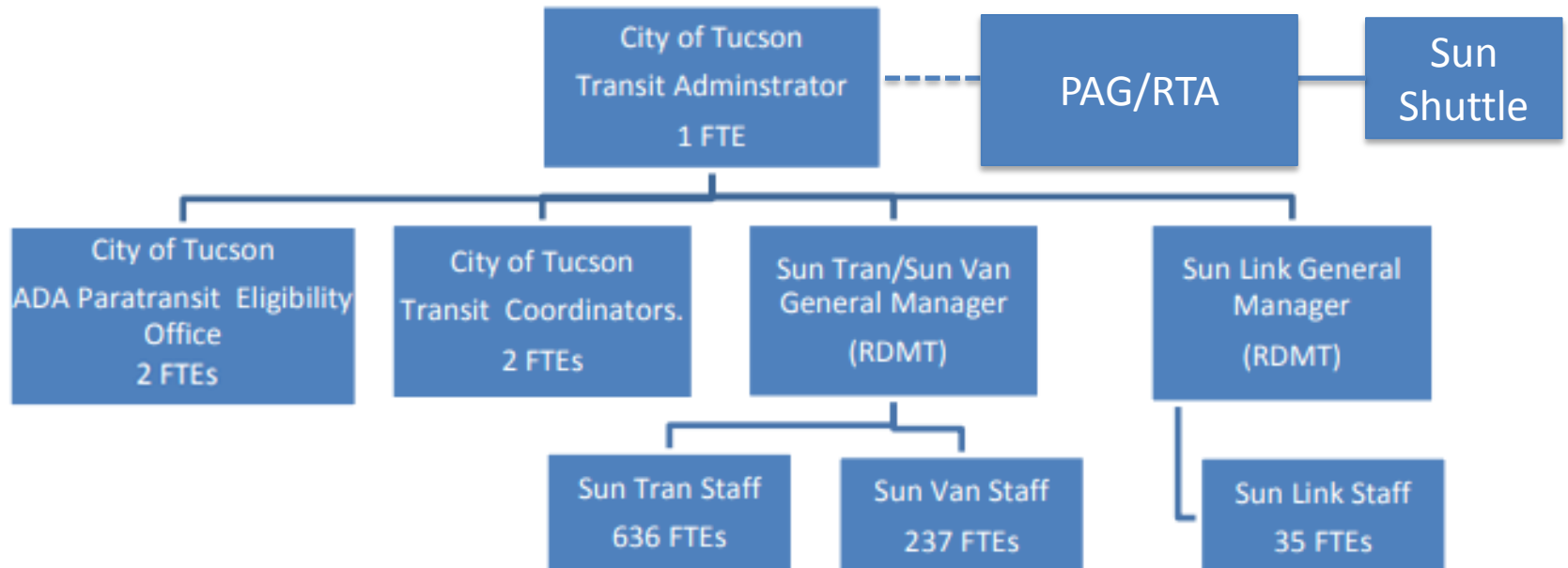


The People of TDOT

- Streets & Traffic Maintenance – **141**
- Engineering – **73**
- Traffic Engineering - **15**
- Planning & Programming - **7**
- Park Tucson - **18**
- Transit - **4**
- Administration & Technology – **30**
- Real Estate - **9**



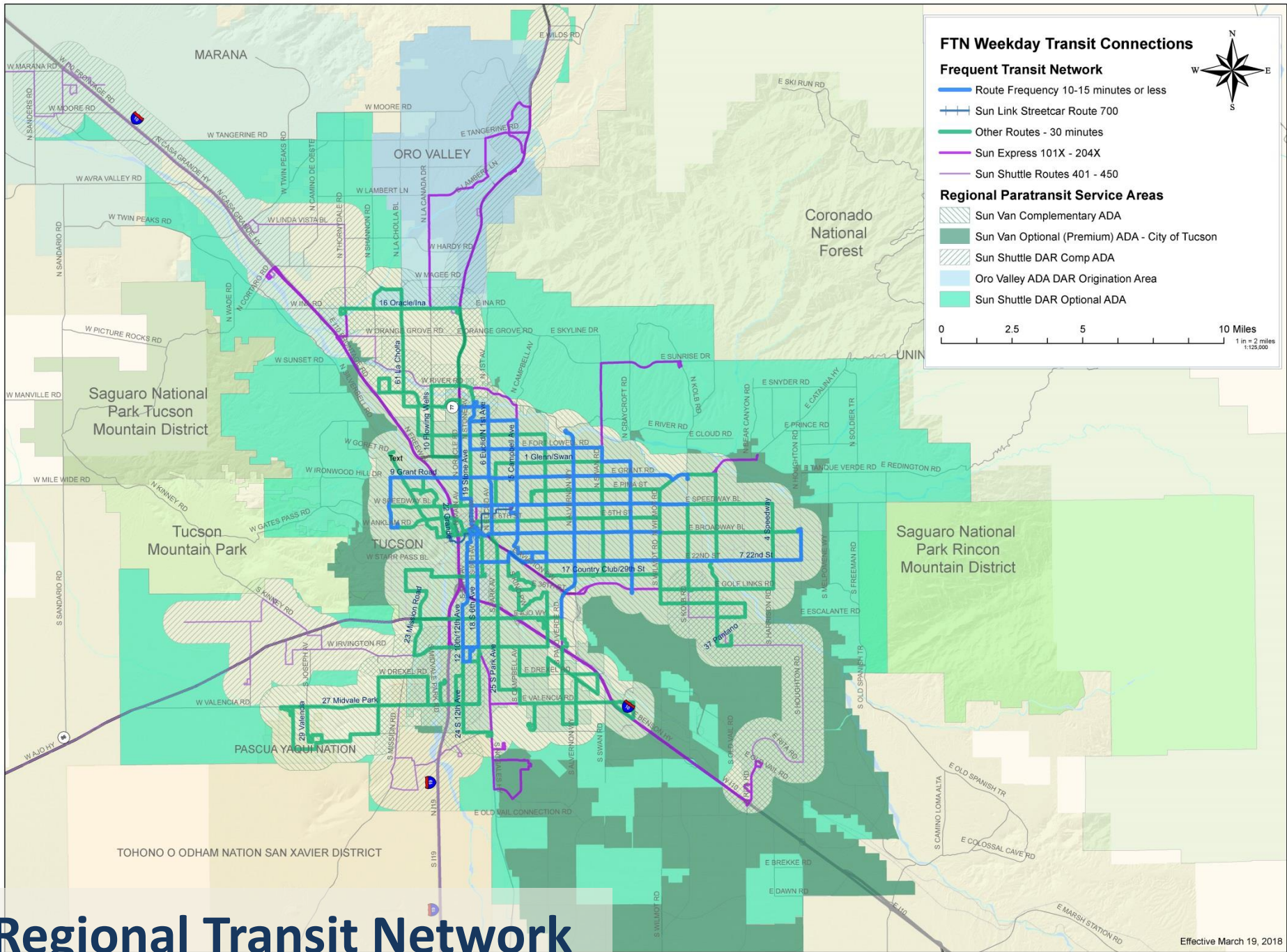
City of Tucson Transit Oversight



Tucson's Regional Transit Network

- Multiple providers
 - Sun Tran (COT)
 - Sun Link (COT)
 - Sun Van (COT)
 - Sun Shuttle (RTA)
- Various services
 - Regular fixed route/ express
 - Streetcar (rail)
 - Accessible paratransit
 - Regional connectors





Jarrett Walker and the Future Transit Vision

- Expert consultant hired by PAG and COT
- Two workshops held (April 2015, June 2015)
- Two reports produced
- Three priorities as a result of workshop:
 - *Prioritized Frequent Network routes and segments*
 - *Study corridors for High Capacity Transit*
 - *Study areas for future Coverage expansion*
- This is just the beginning of the conversation...



Frequent Transit Network (FTN)

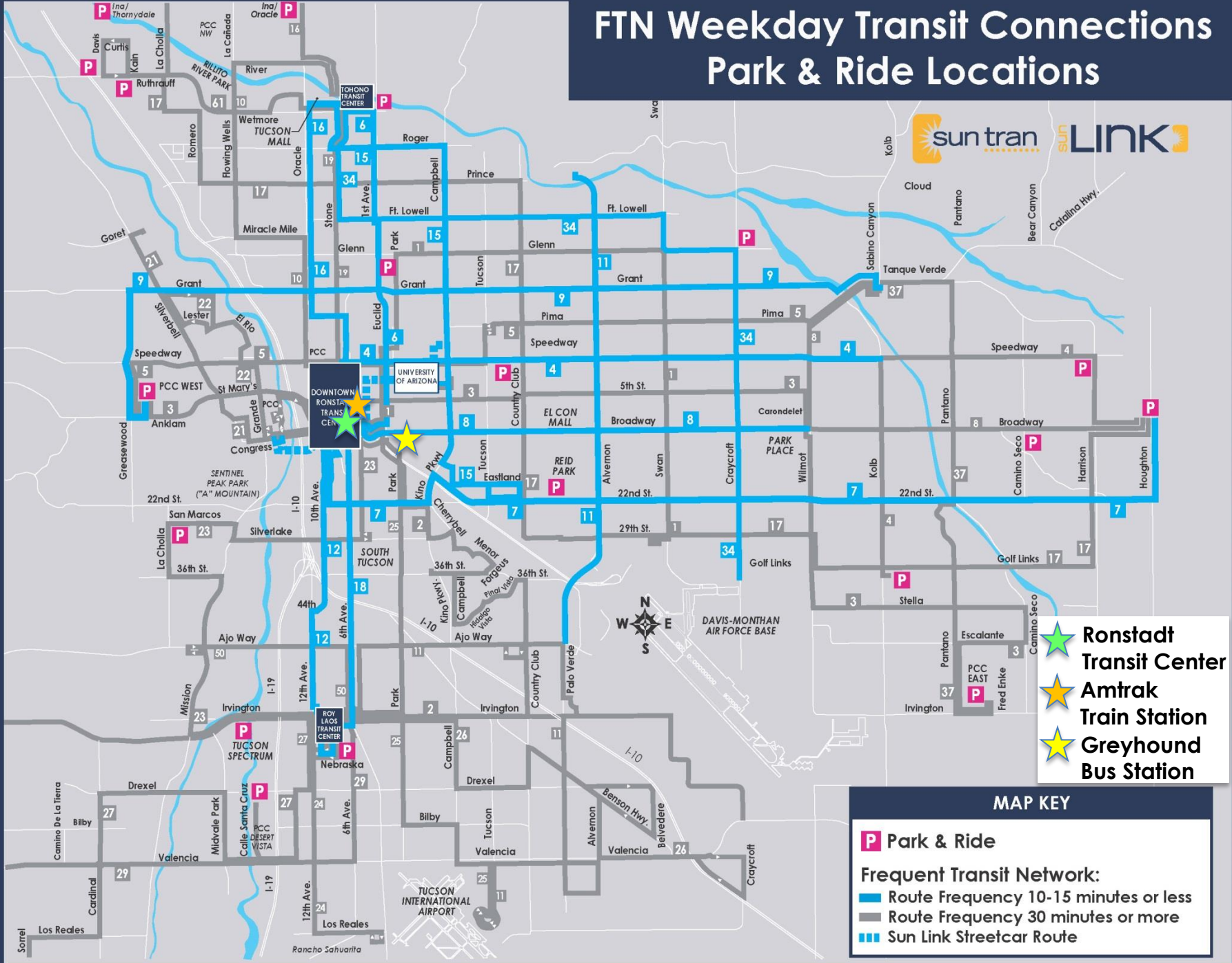
- Policy approved by Tucson Mayor and Council in April 2017
- Routes that operate every 15 minutes or less, Mon – Fri, 6 a.m. to 6 p.m.
- Sun Tran currently provides 11 Routes on the FTN
- Metrics considered in evaluating FTN:
 - Passenger/Mile
 - Passenger/ Hour
 - Cost/Passenger



- FTN and Parking Connections







FTN Weekday Transit Connections Park & Ride Locations

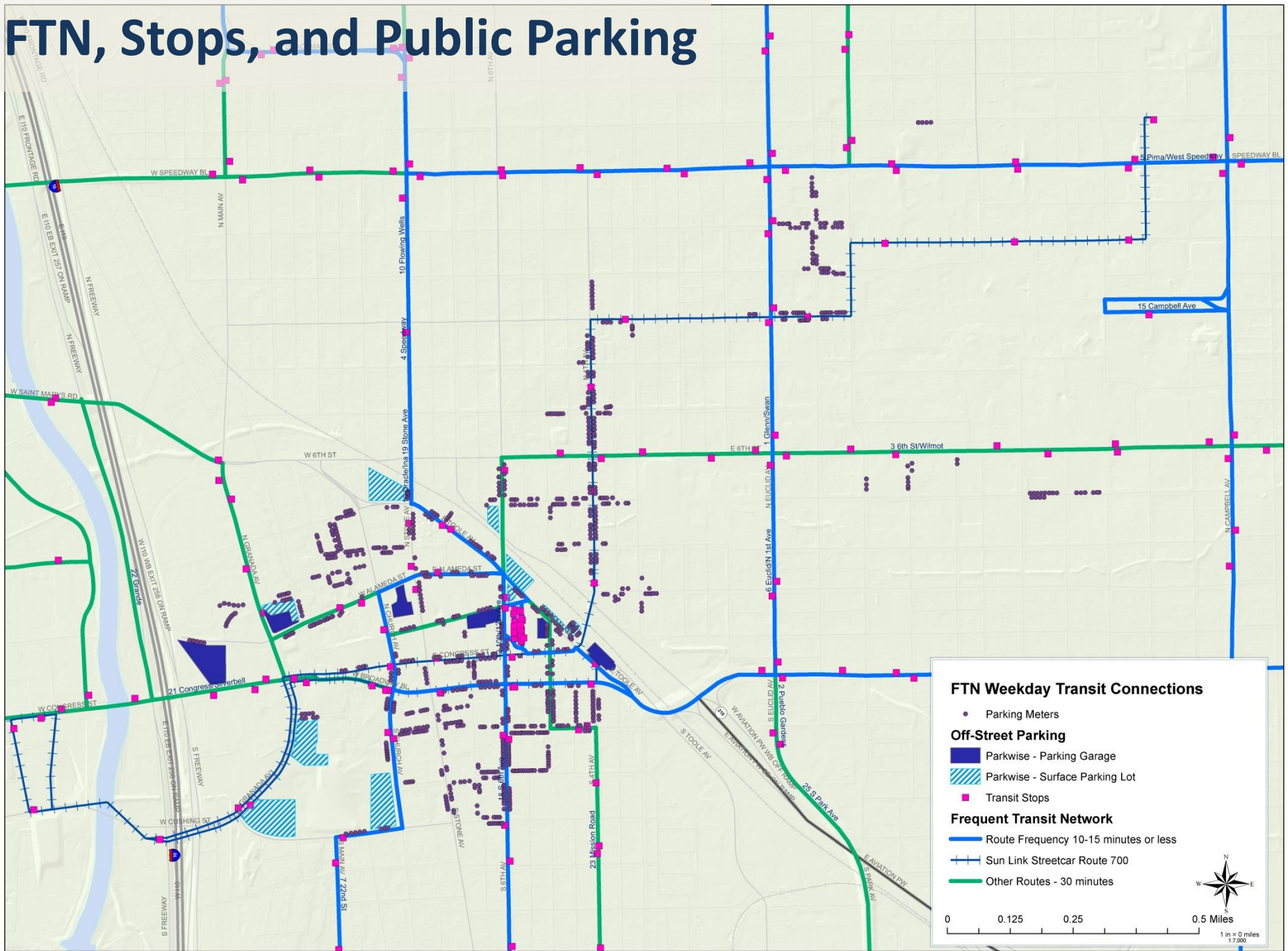


-  Ronstadt Transit Center
-  Amtrak Train Station
-  Greyhound Bus Station

MAP KEY

-  Park & Ride
-  Frequent Transit Network: Route Frequency 10-15 minutes or less
-  Route Frequency 30 minutes or more
-  Sun Link Streetcar Route

FTN, Stops, and Public Parking



FTN Weekday Transit Connections

- Parking Meters

Off-Street Parking

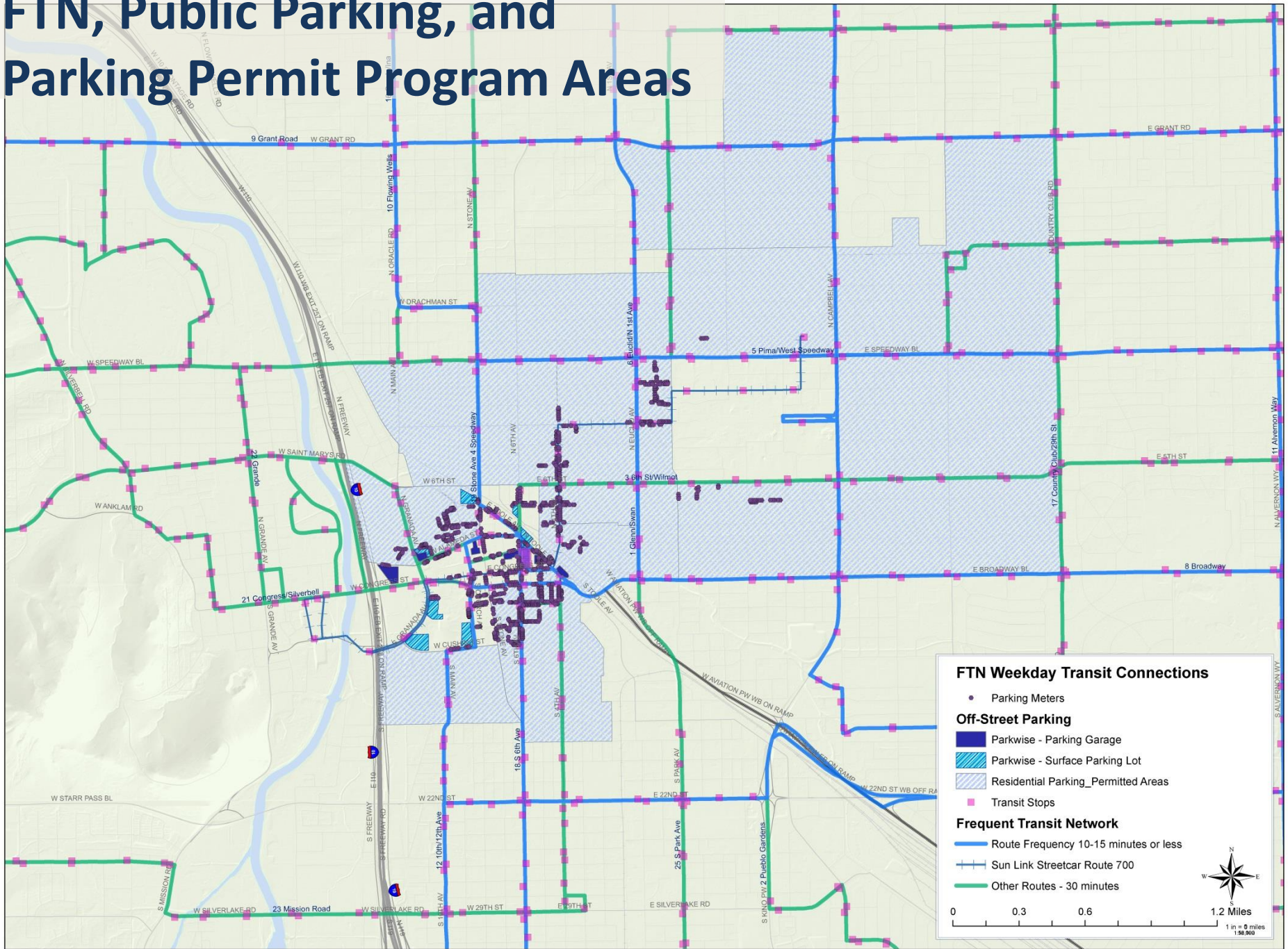
- Parkwise - Parking Garage
- ▨ Parkwise - Surface Parking Lot
- Transit Stops

Frequent Transit Network

- Route Frequency 10-15 minutes or less
- + Sun Link Streetcar Route 700
- Other Routes - 30 minutes

0 0.125 0.25 0.5 Miles
1 in = 0 miles / 1:7,000

FTN, Public Parking, and Parking Permit Program Areas



- FTN and Bicycle and Pedestrian Connections



TDOT Bicycle and Pedestrian Program

2017-2018

- Tugo Bike Share - 330 bikes/36 stations
- 8 new bike/ped HAWKS installed or designed
- 5 miles of new bike lanes installed
- Bicycle Boulevard Master Plan Adopted
- 2 Cycloviva Tucson events on new routes
- Expanded Safe Routes to School program
- Pedestrian Safety Action Plan
- Awarded 3-year Big Jump Project Grant



Overall Goals:

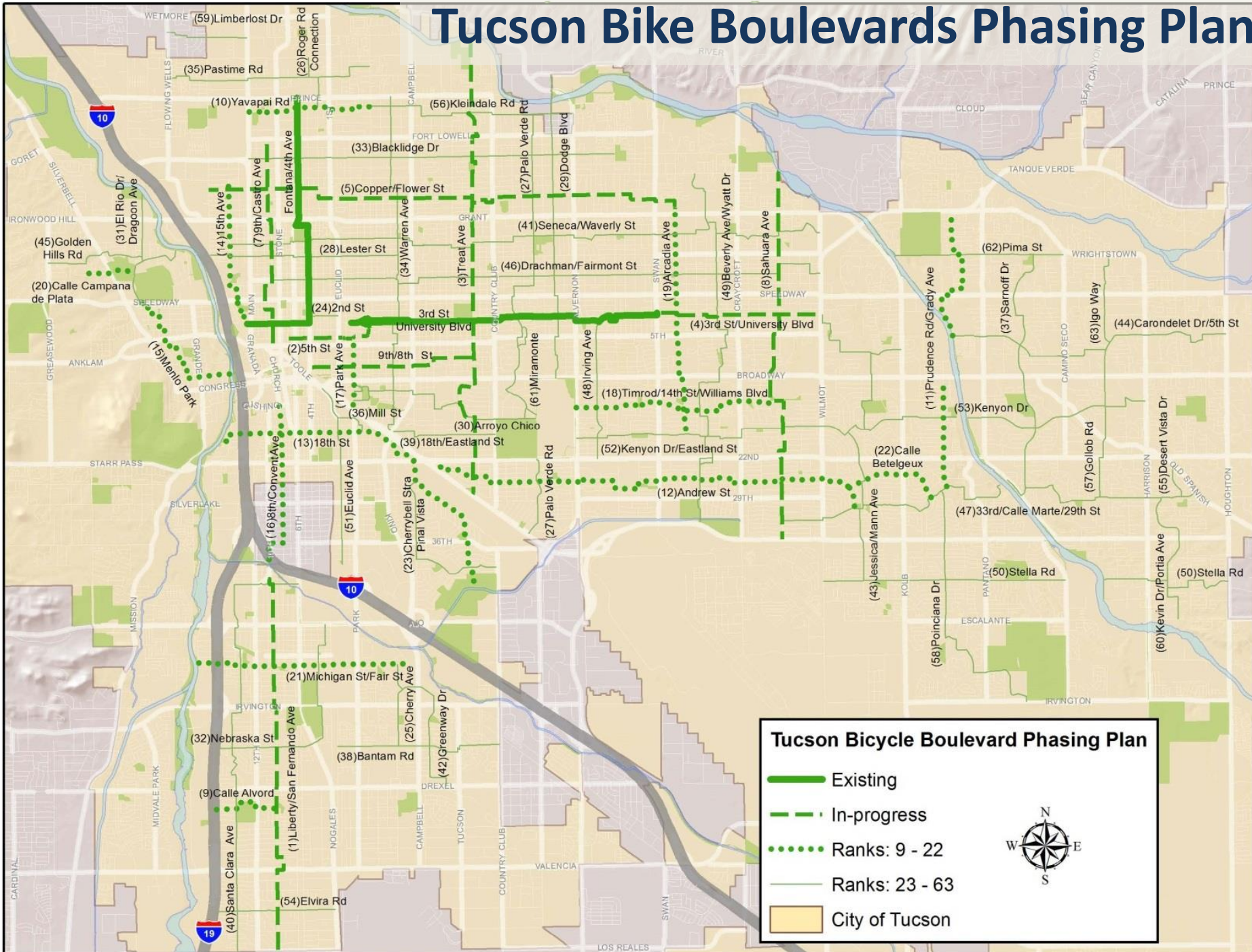
1. **Networks:** Create comprehensive bicycle and pedestrian networks that connect people to their destinations.
2. **Trips:** Increase walking and bicycling trips.
3. **Safety:** Reduce frequency and severity of crashes involving people walking and bicycling.
4. **Equity:** Prioritize high-need, underserved, and vulnerable communities in public engagement and infrastructure investment.



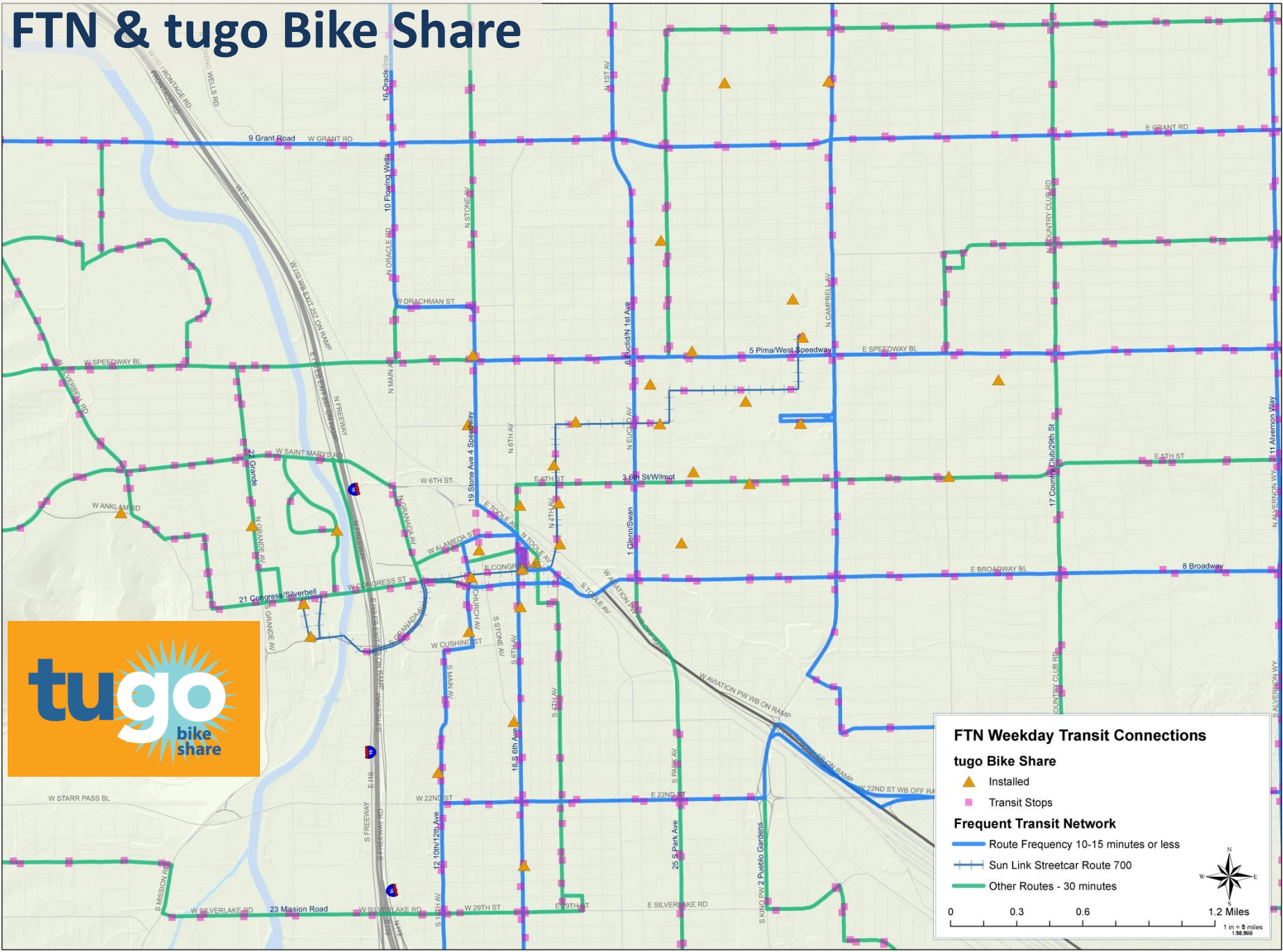
City of Tucson Department of Transportation



Tucson Bike Boulevards Phasing Plan



FTN & tugo Bike Share



FTN Weekday Transit Connections

tugo Bike Share

- ▲ Installed
- Transit Stops







Frequent Transit Network

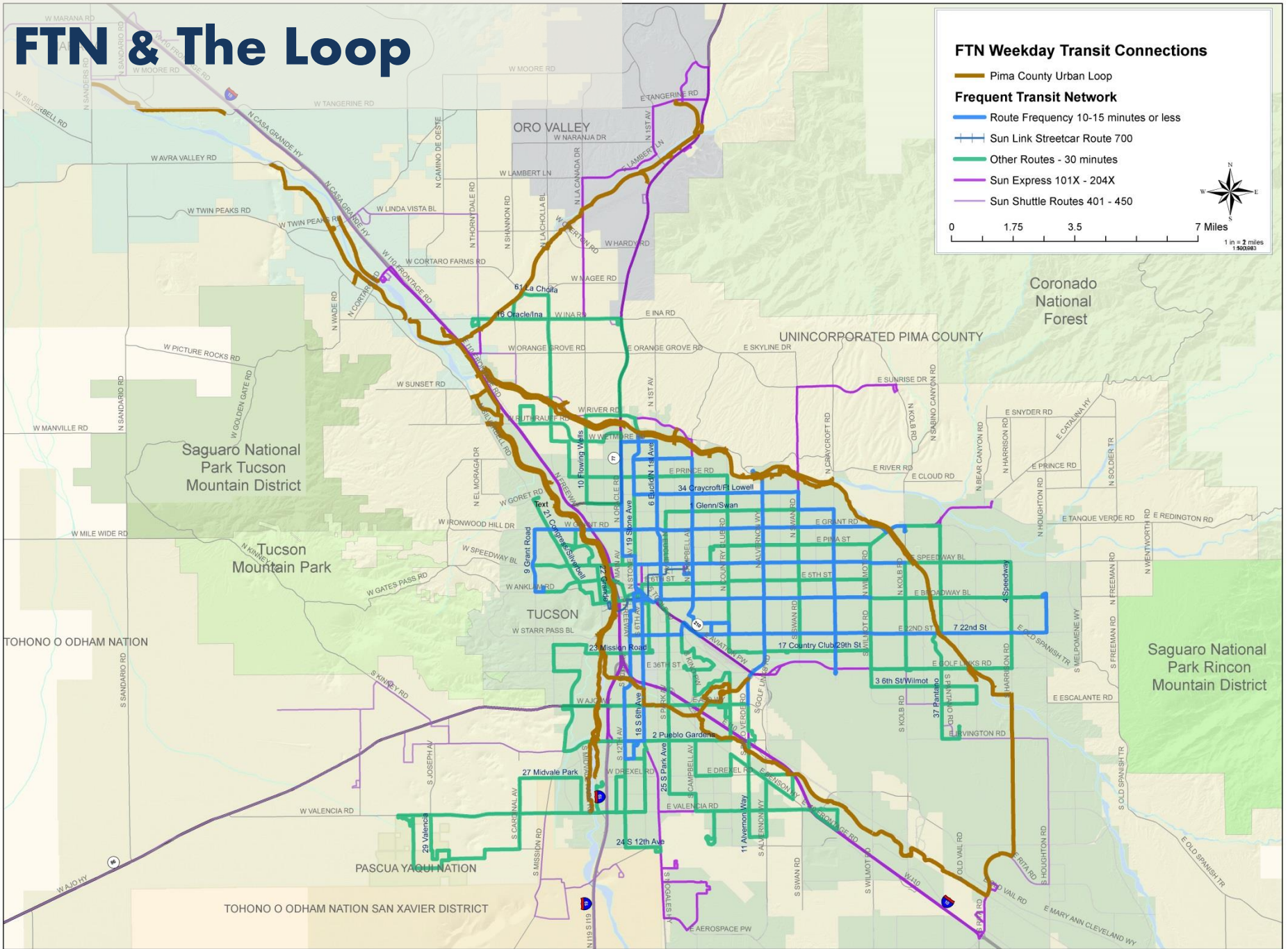
- Route Frequency 10-15 minutes or less
- Sun Link Streetcar Route 700
- Other Routes - 30 minutes

0 0.3 0.6 1.2 Miles
1 in = 0 miles
1:50,000

FTN & The Loop

FTN Weekday Transit Connections

-  Pima County Urban Loop
- Frequent Transit Network**
-  Route Frequency 10-15 minutes or less
-  Sun Link Streetcar Route 700
-  Other Routes - 30 minutes
-  Sun Express 101X - 204X
-  Sun Shuttle Routes 401 - 450



Saguaro National Park Tucson Mountain District

Tucson Mountain Park

ORO VALLEY

TUCSON

UNINCORPORATED PIMA COUNTY

Coronado National Forest

Saguaro National Park Rincon Mountain District

TOHONO O ODHAM NATION SAN XAVIER DISTRICT

TOHONO O ODHAM NATION

PASCUA YAQUI NATION

N 119 S 119

W STARR PASS BL

W GORET RD

W ORANGE GROVE RD

W LAMBERT LN

W MAGEE RD

W MOORE RD

W MARANA RD

E AEROSPACE PW

E VALENCIA RD

E DREXEL RD

E 36TH ST

E PRINCE RD

E ORANGE GROVE RD

E INA RD

E TANGERINE RD

E NAVAJO RD

E AVRA VALLEY RD

S WILMOT ST

S KOLBE RD

S HARRISON RD

S 2ND ST

S SWAN RD

S WILMOT RD

S WILMOT RD

S WILMOT RD

S WILMOT RD

S WILMOT RD

E RIVER RD

E CLOUD RD

E BEAR CANYON RD

E PRINCE RD

E SNYDER RD

E SKYLINE DR

E ORANGE GROVE RD

E TANGERINE RD

E AVRA VALLEY RD

E AVRA VALLEY RD

E MARY ANN CLEVELAND WY

E HOUGHTON RD

E ESCALANTE RD

E OLD SPANISH TR

E HARRISON RD

E SKYLINE DR

E ORANGE GROVE RD

E TANGERINE RD

E AVRA VALLEY RD

E AVRA VALLEY RD

E AVRA VALLEY RD

E AVRA VALLEY RD

E AVRA VALLEY RD

E AVRA VALLEY RD

E AVRA VALLEY RD

E AVRA VALLEY RD

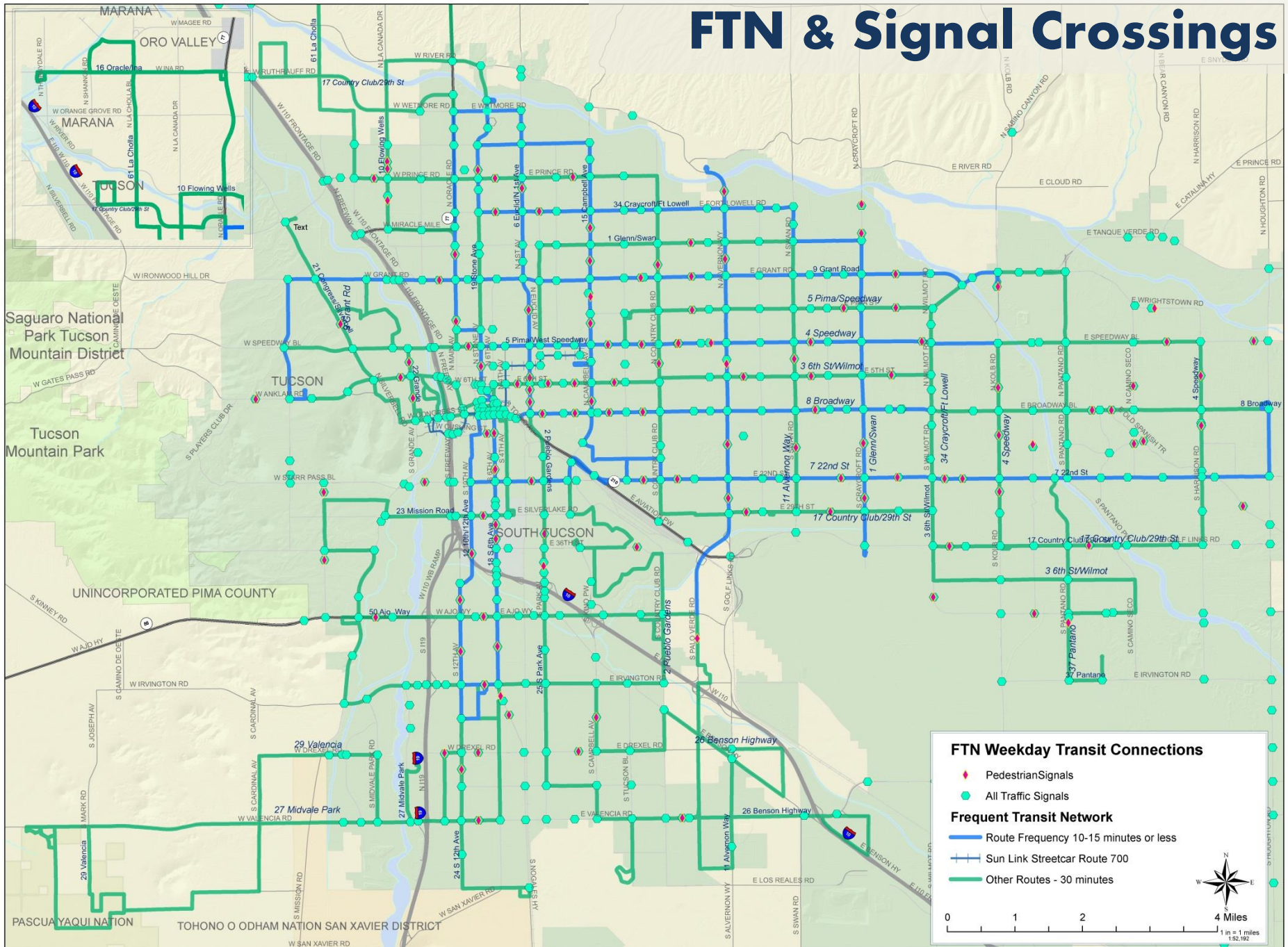
E AVRA VALLEY RD

E AVRA VALLEY RD

E AVRA VALLEY RD

E AVRA VALLEY RD

FTN & Signal Crossings



FTN Weekday Transit Connections

- ◆ Pedestrian Signals
- All Traffic Signals

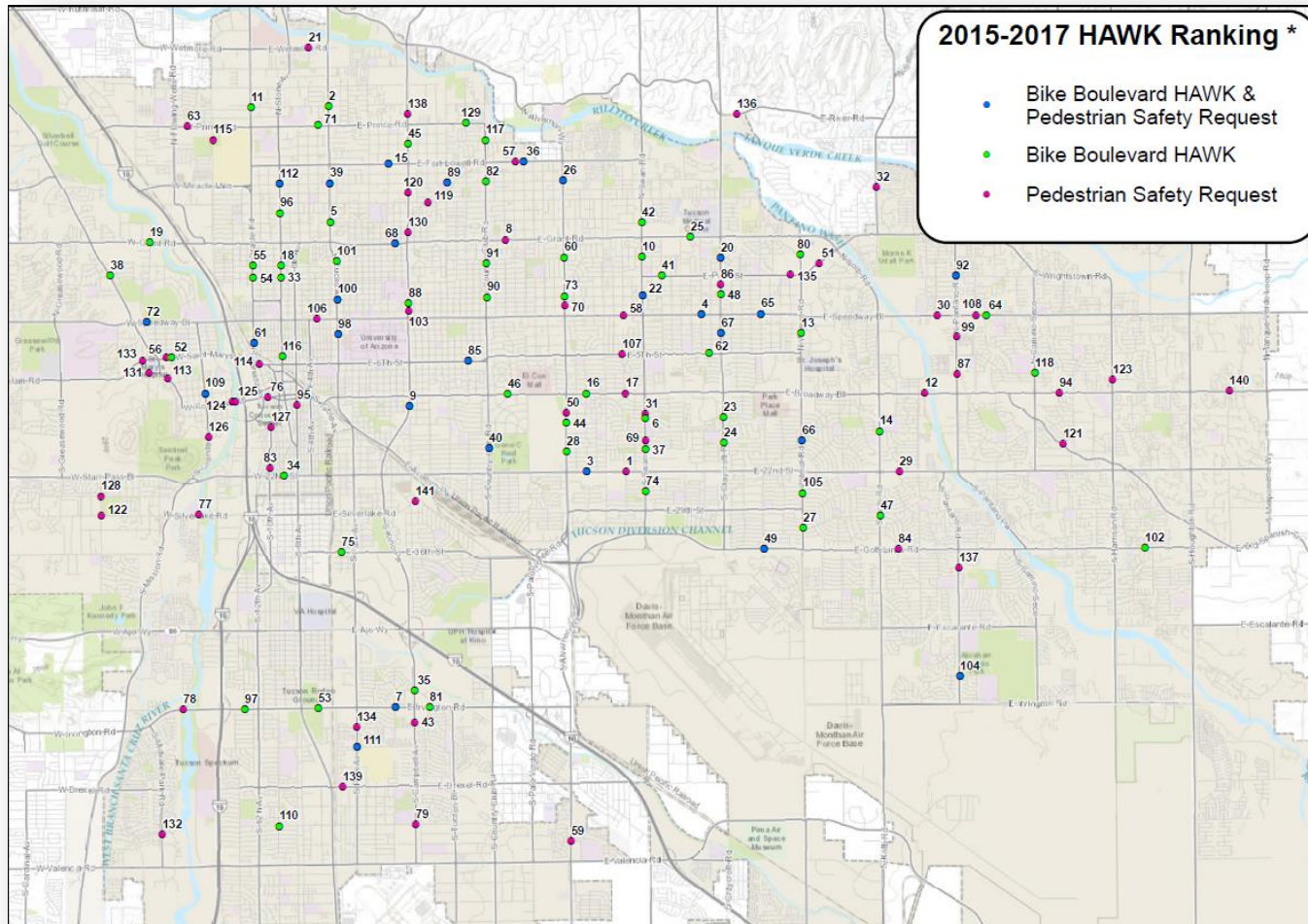
Frequent Transit Network

- Route Frequency 10-15 minutes or less
- Sun Link Streetcar Route 700
- Other Routes - 30 minutes

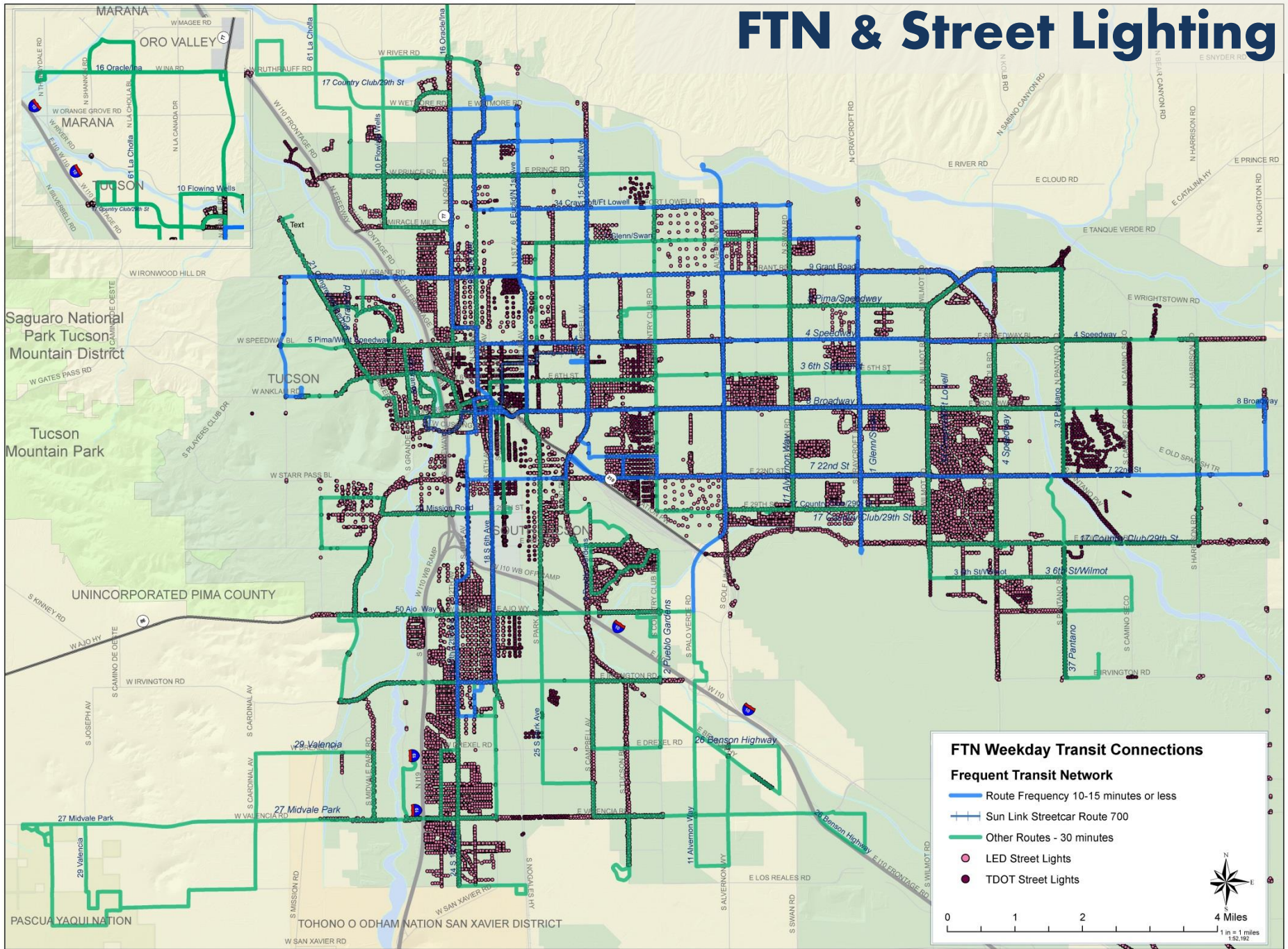
0 1 2 4 Miles
1 in = 1 mile
1:52,192

HAWK Crossings & Prioritization

- 133 existing HAWK crossings in Tucson
- 141 proposed HAWK locations ranked bi-annually
- 13 designed HAWK projects expected in FY 18/19



FTN & Street Lighting



FTN Weekday Transit Connections

Frequent Transit Network

- Route Frequency 10-15 minutes or less
- + + Sun Link Streetcar Route 700
- Other Routes - 30 minutes

● LED Street Lights
● TDOT Street Lights

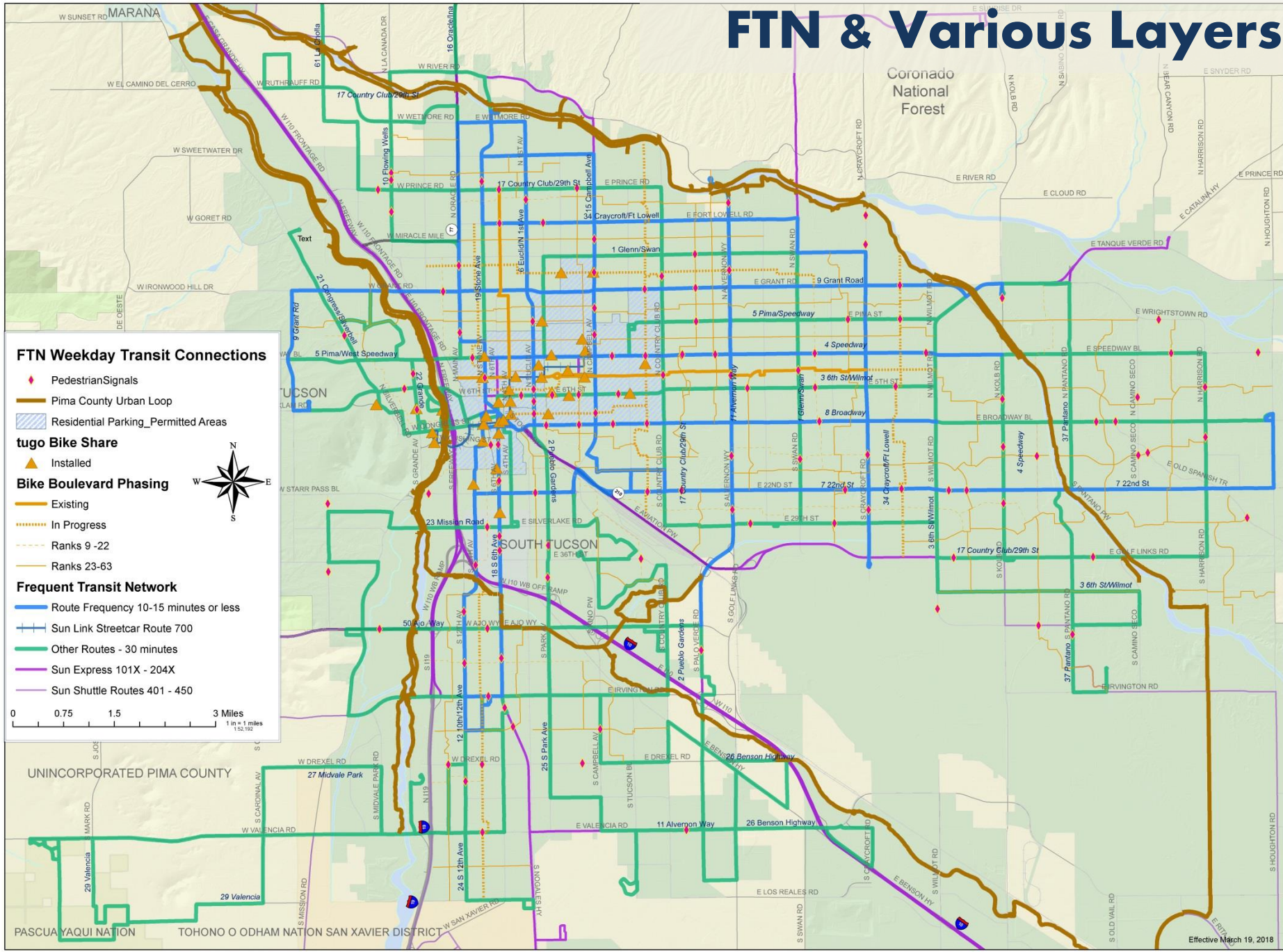
0 1 2 4 Miles
 1 in = 1 mile
 1:52,192

Thoughts on Safety & Security

- Lighting plays a big role in one's perceived sense of safety
- Issues and Challenges TPD has faced:
 - Stop and Station security
 - Driver security
 - Loitering and negative behaviors



FTN & Various Layers

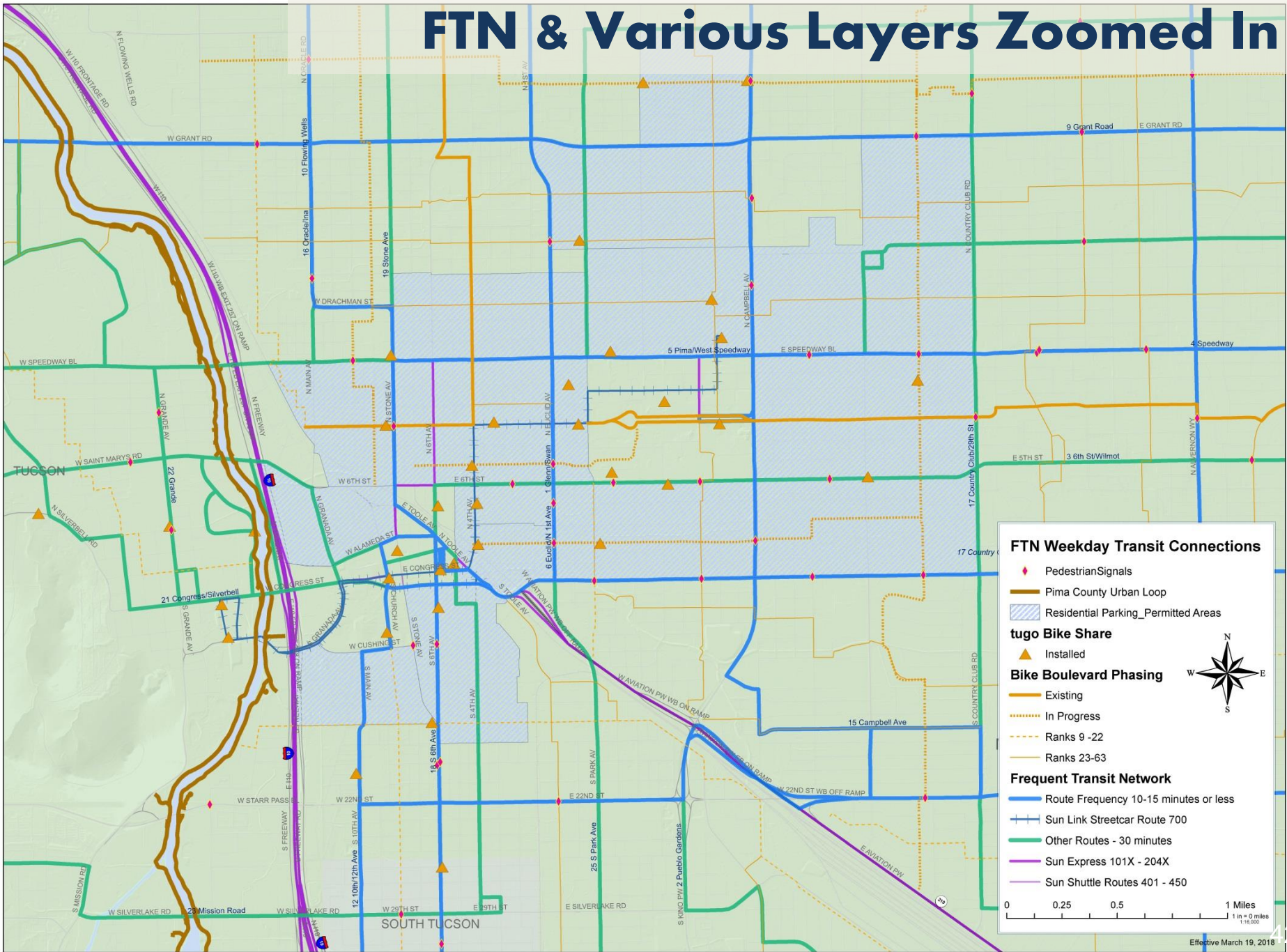


FTN Weekday Transit Connections

- ◆ Pedestrian Signals
- Pima County Urban Loop
- Residential Parking Permitted Areas
- tugo Bike Share**
- ▲ Installed
- Bike Boulevard Phasing**
- Existing
- In Progress
- Ranks 9 -22
- Ranks 23-63
- Frequent Transit Network**
- Route Frequency 10-15 minutes or less
- Sun Link Streetcar Route 700
- Other Routes - 30 minutes
- Sun Express 101X - 204X
- Sun Shuttle Routes 401 - 450



FTN & Various Layers Zoomed In



- FTN and Other First-/Last-Mile Connections



Tucson's Smart Mobility

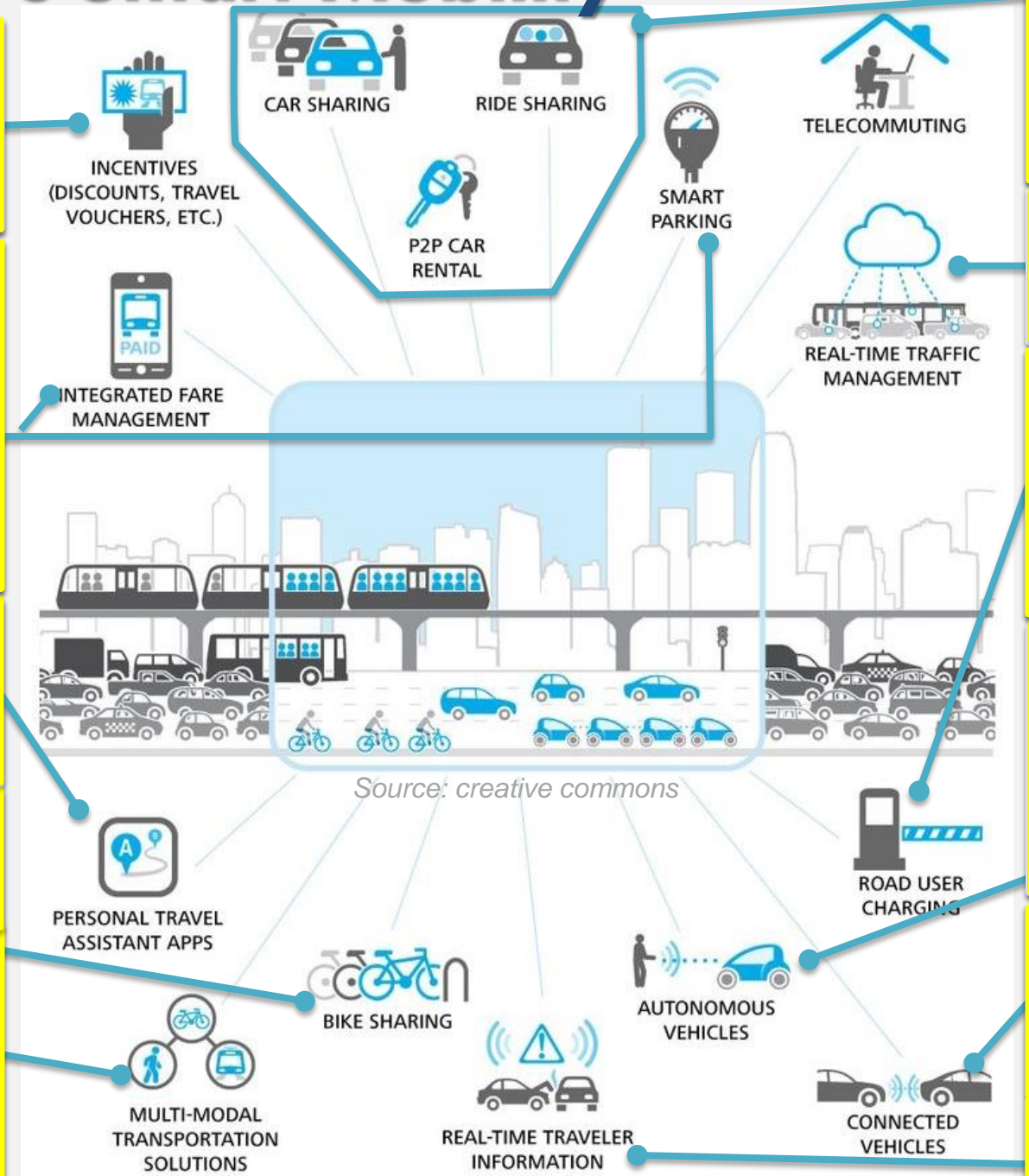
- PAG's RideShare
- Metropia
- Down for the Count
- Business-specific

- GoTucson Parking
- GoTucson Transit
- US DOT Sandbox MOD Demo Project with Ruby Ride

- Metropia
- Navigation Apps & Maps (Google)

- TuGo Bike Share: 330 bikes @ 36 stations

- Sun Tran, Sun Link, Sun Van
- Safe sidewalks and crossings
- Bike routes



- Sharing Economy (ZipCar, Enterprise)
- Metropia's Duo
- Ride-hail Services (Uber, Lyft, Via, Veyo, Taxis)

- UA Collaborations with CoT and PAG
- ADOT

- Taxes funding road needs:**
- 2006-2026 Regional Transportation Authority
 - 2012-2017 Bonds
 - 2017-2022 Sales Tax

- Autonomous Vehicle R&D/Deployment Projects:**
- Uber, TuSimple
 - Musselman Honda Track
 - UA Tech Park

- Connected Vehicle R&D/Deployments:**
- MMITSS sister corridor
 - SPaT Challenge

TransView; ATIS

New Mobility – Integrating Fixed and MOD

- Self driving vehicles are still an unknown...
- Mobility On Demand (MOD) provides new approaches for fixed transit routes
 - Fixed circulators
 - On Demand circulators
 - Hybrids
- MOD provides new options for how we build and design our buildings



Source: Lisa Nisenson, alta planning



- FTN and Other Considerations



FTN Marketing & Convenience Tools

PAG

- RideShare Program
- Travel Reduction Program (working with employers)
- Metropia

Sun Link / Park Tucson / UA Coordinated Marketing for events

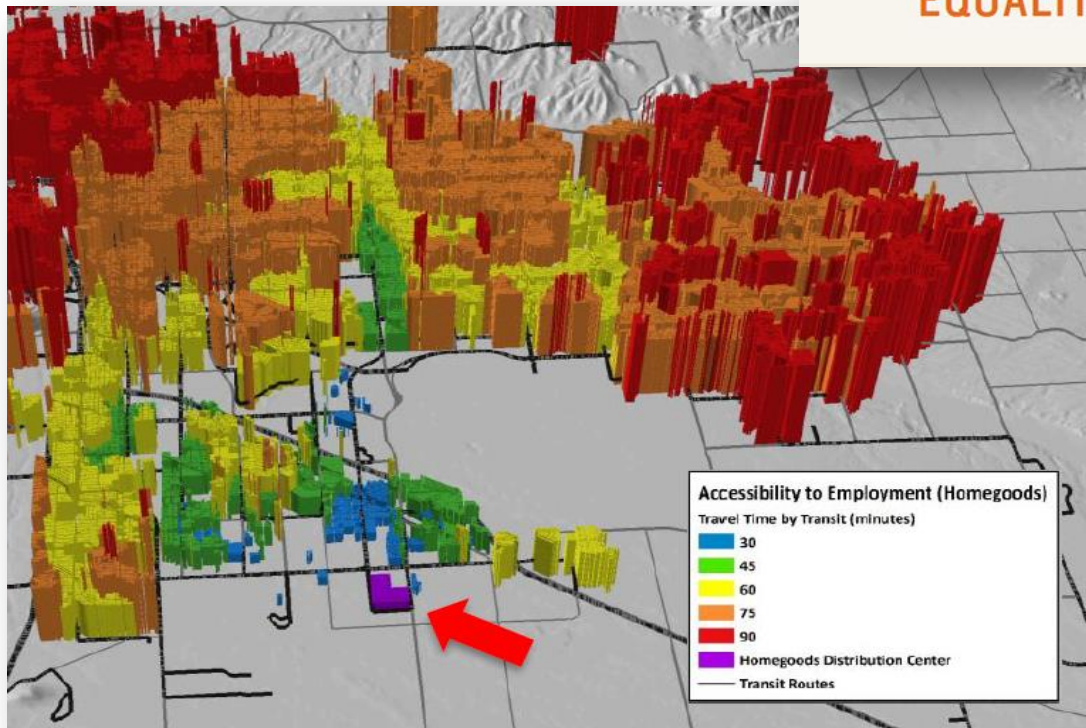
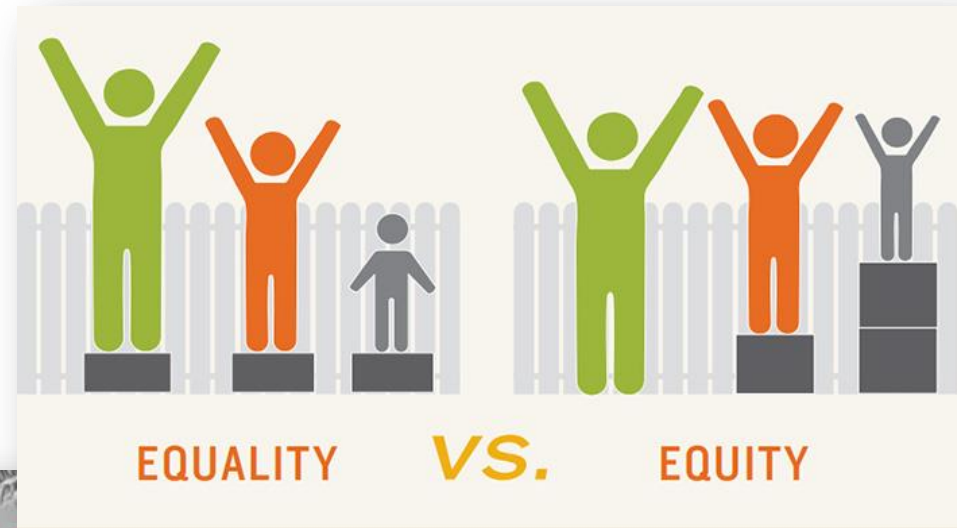
Apps & Offboard Payment

- Sun Tran Buses and Sun Link Streetcar
- Tucson Parking
- Tugo Bike Share



Equity, Access, and Economic Mobility

- Equality vs. Equity
- Access to jobs
- Reasonable travel times
- Housing location



Small Group Breakout Discussion



Small Groups Breakout Discussion

Conversation about the core values and practices that can and should be considered as we develop recommendations

- 1. What do you believe are the characteristics of a well-connected community?**

Consider what we do well and what exists in other communities that you have visited

- 2. What are we missing currently?**
- 3. What's most important?**



Review Next Agendas & Meeting Dates



Field Trip – March 17, 2018

Saturday 1/2-day field trip to experience Tucson's Frequent Transit Network and the connections.

Debrief Questions:

- **Now that you've seen and experienced Tucson transit network...**
 - **What impressed you?**
 - **What did you see that needs a solution?**



March 22, 2018 Focus Group Meeting

Best Practices and Opportunities for Integrated Planning – Review other successful transit models and discuss which can be implemented in Tucson

- **Given the characteristics of a well-connected community identified at our first meeting and after viewing the video...**
 - **What specific examples from the video do you now see we already have in Tucson?**
 - **What did you see that would work well in Tucson and serve our assessment of what is important?**
 - **What could be implemented with limited resources or at no cost to the city? What needs funding and resources?**



Thank you!

