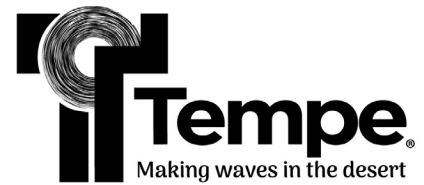


PUBLIC MEETING AGENDA



Sustainability & Resilience Commission

MEETING DATE
 Wednesday, June 22, 2022
 3:30 pm – 6:30 pm

MEETING LOCATION
 Tempe City Hall
 3rd Floor Conference Room
 31 E. 5th Street
 Tempe, AZ 85281

Microsoft Teams meeting
 Join on your computer or mobile app
[Click here to join the meeting](#)
 Or call in (audio only)
[+1 480-498-8745,713042282#](#) United States, Phoenix
 Phone Conference ID: 713 042 282#
[Find a local number](#) | [Reset PIN](#)
[Learn More](#) | [Meeting options](#)

AGENDA ITEM	PRESENTER	ACTION or DISCUSSION
1. Public Appearances The Sustainability Commission welcomes public comment for items listed on this agenda. There is a <i>three-minute time limit</i> per citizen.	Kendon Jung, Commission Chair (3:30 – 3:33 pm)	Action
2. Approval of Meeting Minutes The Commission will be asked to review and approve meeting minutes from the May 16, 2022 meeting.	Kendon Jung, Commission Chair (3:33 – 3:35 pm)	Action
3. Ice Breaker	Christy Pribish, Climate Youth Council Specialist Timara Crichlow, Climate Youth Council Specialist (3:35 – 3:55 pm)	Discussion
4. Climate Action Plan Highlight Action Strategy Session	Brianne Fisher, Climate Action Manager Eric Iwersen, Transit Manager (4:00 – 5:30 pm)	Discussion
5. Housekeeping Items Neighborhood Celebration March 26th	Kendon Jung, Commission Chair (5:30 – 5:40 pm)	Discussion
6. Future Agenda Items Commission may request future agenda items.	Kendon Jung, Commission Chair (5:40 – 5:45 pm)	Action

According to the Arizona Open Meeting Law, the Sustainability Commission may only discuss matters listed on the agenda. The City of Tempe endeavors to make all public meetings accessible to persons with disabilities. With 48 hours advance notice, special assistance is available at public meetings for sight and/or hearing-impaired persons. Please call 350-2775 (voice) or 350-8400 (TDD) to request an accommodation to participate in a public meeting.



Welcome!

Sustainability and Resilient Commission Retreat



Goals of the Retreat

- Establish an outline of work to guide the Commissions year of meetings and activity.
- Deeper understanding of the Climate Action Plan Highlight Actions
- Identified opportunities to engage with the three Highlight Actions
- Hearing from YOU on the TYPE of work you want to accomplish

Actions Update

ability and Resilience Commission identified immediate highlights for adoption and investment:

Approach

Step 1

Review Highlight

Step 2

Brainstorming



Green Codes and Standards (Green Stormwater Management and International Green Construction Code)
To establish resilience to extreme heat in n



Transportation Demand Management and
To increase convenience of low carbon transportations options



Resilient Energy Hubs and Resilience Hub
To increase community connections and th to support survival during disasters

Approach

Step 3

Level and Type
of Engagement

Step 4

Select Project Lead
and Next Steps



Letter of Support •

Competition •••

Social media campaign ••

Demonstration project •••

Listening tour ••

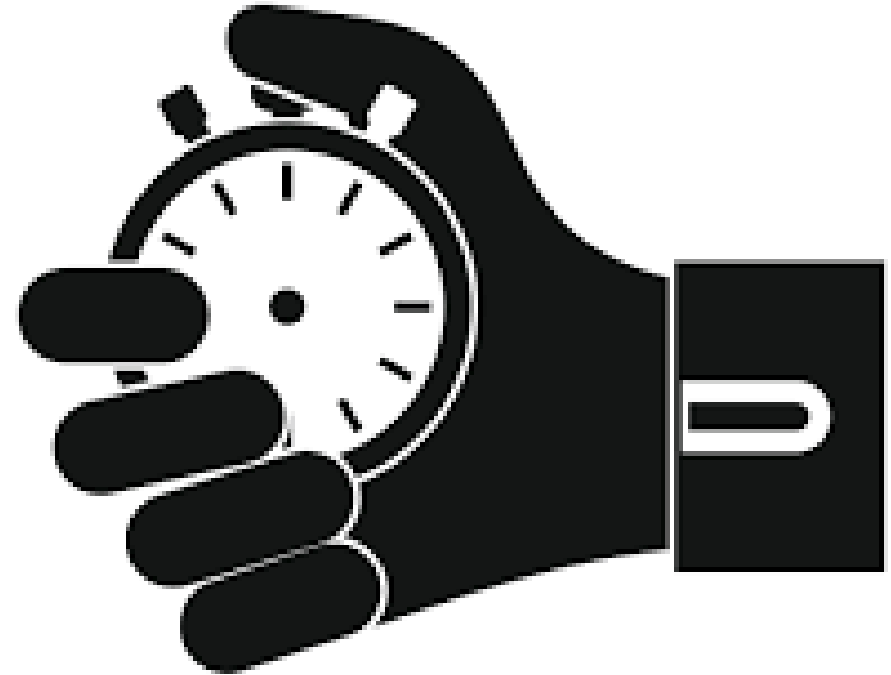
Agenda

Ice Breaker – 20 Minutes

Strategy Session – 1h 30 min

- Green Codes and Standards (25 min)
- BREAK (10 min)
- TDM and Mobility Hubs (25 min)
- Resilient Energy Hubs (25 min)

House Keeping (10 mins)



QUESTIONS?

Green Codes and Standards

International Green Construction Code Roadmap

Tempe is taking initial steps in green construction and can learn from Scottsdale, San Jose, and Israel's approaches to using building code to advance sustainability and urban cooling.

NOVICE



Tempe, AZ

- Testing pilot codes in city buildings
- Determining best city standards
- Not formally in building codes or ordinances

IgCC Fire Station 2 design.

BEGINNER



Scottsdale, AZ

- Adopted IgCC into green building codes and promotes private sector use
- Offers incentives for developers complying with IgCC
- Not a requirement in for all private development

Street view of IgCC-designed Optima Sonora Village.

INTERMEDIATE



San Jose, CA

- Building code requires LEED certification for large buildings
- Any major development must be constructed sustainably
- Building code limited to city and not county

IgCC-designed Immanuel-Sobrato Community apartments.

ADVANCED



Israel

- Regional: Green building code spans multiple cities
- Customized: Similar to LEED, the code applies to all types of buildings
- Mandatory: Code will become mandatory for all developments in 2022

Porter School of Environmental and Earth Sciences in Tel Aviv, Israel.

Green Codes and Standards

Green Stormwater Infrastructure Roadmap

Tempe has the opportunity to follow Phoenix, Norfolk, Oakland and Tucson in developing policy and permanent funding for GSI.

NOVICE



Tempe, AZ

- Multiple GSI pilot projects
- Determining cost, practicality, and areas of improvement
- Do not involve private developments yet

Volunteers build a bioswale at Dorsey and Lemon.

BEGINNER



Phoenix, AZ

- Private-public partnership surrounding GSI
- Implementing GSI projects on city and private land
- No GSI requirements

Bioretention basin at the Cancer Center at 7th St and Fillmore in Phoenix, AZ.

INTERMEDIATE



Norfolk, VA

- Adopted GSI into their zoning ordinances
- Requires developers to include GSI in their projects

Pocket stormwater wetland in Norfolk, VA.

INTERMEDIATE



Oakland, CA

- Adopted citywide GSI plan in 2019
- Identifies GSI projects, measures progress, secures funding, etc.
- Lacks permanent funding source for GSI projects

Curb cuts and bioretention at the Rainbow Recreation Center, Oakland CA.

ADVANCED



Tucson, AZ

- Citywide Plan: Prioritized GSI investments
- Permanent funding: Utilities bill fee will provide ~\$3M per year
- Operations and Maintenance: Allows the city to install more, and maintain all, future GSI infrastructure

Curb cuts at Pima County Service Center 2019, Tucson AZ.

Agenda

Youth

Sustainability Office



Highlight Action: Green Stormwater Infrastructure

Areas of Opportunity for Green Codes and Standards

- Solar Ready Code
- EV Ready Code
- International Green Construction Code
- Resilient Tempe Masterplan

Areas of Opportunity for Green Codes and Standards

- Solar Ready Code
- EV Ready Code
- International Green Construction Code
- Resilient Tempe Masterplan

Resilient Tempe Master Plan

Infrastructure Assessment

- Analysis of current stormwater infrastructure
- Opportunities for GSI in existing projects
- New GSI projects
- Review existing design criteria, codes and standards

Urban Forestry Master Plan

Utility Feasibility Study

- Alternative funding solutions for Urban Cooling and Stormwater Utility

GSI Standards and Codes

- \$250,000 Master Plan and Utility Feasibility Study
- \$150,000 Infrastructure

Timeline

2022 Summer – Request for Proposal process, selecting consultant, identifying Stage 1 pilot projects

Fall 2022 - Tempe City Council Water, Wastewater, Stormwater Rate Study

2022 Fall and Winter – Gathering data, review existing projects and analysis and develop goals and vision

2023 Spring – Drafting codes and standards, neighborhood engagement and implement initial Stage 1 pilot projects and design Stage 2 pilot projects

2023 Summer – Reviewing and editing codes and standards, neighborhood and community engagement, and education

2023 Fall and Winter – Complete data analysis and lessons learned from pilot projects to develop priority projects, craft implementation timeline, finalize codes and standards and develop Stormwater and Cooling Utility funding options and phases
(Opportunity for Sustainability and Resilience Design competition)

Timeline

2024 – Policy Decisions

Final rounds of resident and stakeholder engagement

Implement Stage 2 Pilot project(s)

Policy adoption

Green stormwater code changes in new development

Adopt GSI design standards

Cooling Utility community engagement and outreach

Updated Urban Forestry Masterplan

- *Stage 1 pilot project is staff designed and driven
- *Stage 2 pilot projects are consultant designed with resident input

Step 2 – Brainstorming



BRAINSTORMING

Step 3 – Level and Type of Engagement



Types of Engagement

Step 4 – Project Lead/Next Steps

Project Lead(s):

Next Steps

BREAK!

TDM and Mobility Hubs

Transportation Demand Management and Mobility Hubs Roadmap

Tempe has the opportunity to invest in Transportation Demand Management and Mobility Hubs using Denver, Austin, and San Diego as best practice examples.

NOVICE



Tempe, AZ

- One major mobility hub with more in planning
- Current hub has access to light rail, buses, electric scooters and bikes
- Only one hub located in Downtown Tempe

Orbit bus stop at the Tempe Transit Center mobility hub pilot.

BEGINNER



Denver, CO

- Multiple mobility hubs with differing size, programming, and design
- Hubs are specialized depending on the context and function of each location
- Regional planning does not focus on mobility hubs

Passenger exiting a free ride share vehicle in Denver, CO.

INTERMEDIATE



Austin, TX

- Policy: Adopted policy to help the creation of mobility hubs
- Funding: Allocated funding for mobility hubs

Cyclist renting electric bicycle in Austin, TX.

INTERMEDIATE



San Diego, CA

- Regional: Mobility hubs are centered in regional plan
- Network: Plan proposes a network of thirty specialized mobility hubs

Aerial view of the San Ysidro Transit Center.

Business Agenda

Business

Tempe Chamber of Commerce, Local First Arizona



Highlight Action: Mobility Hubs

TDM and Mobility Hubs

Transportation Demand Management (TDM) Plan

- Programs & policies designed to enhance system efficiency and promotes use of multi-modal investments.

Transportation Management Association (TMA) Plan

- Creates a forum for collaboration to improve the effectiveness of TDM efforts across agencies, businesses and locations.

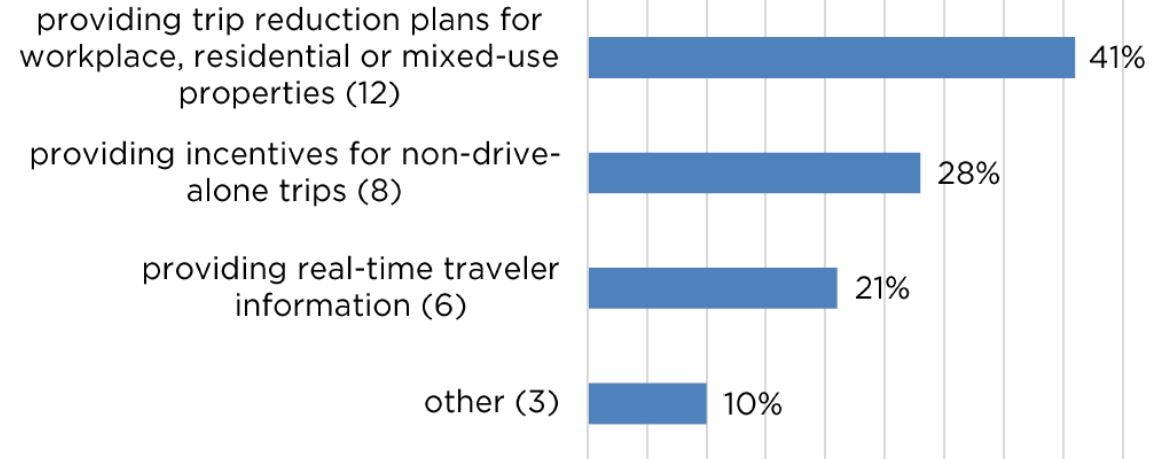
Mobility Hubs Plan

- Provides the infrastructure needed to support multimodal transportation choices at multiple sites across Tempe.

TDM and Mobility Hubs

- Education and awareness will be key to the success of any effort
- Businesses are interested in the ROI for investing in these strategies
- Positive response about the potential value of a TMA in addressing transportation issues and facilitating efficient travel

What programs and services should the Transportation Management Association (TMA) focus on in its first year of operation?



TDM and Mobility Hubs

- Many are open to using other transportation options than driving alone
- We need to provide more complete (and real time) information
- Key Mobility Hub elements include comfortable waiting areas, secure bicycle parking and convenient transit

Who should the Tempe TMA's primary audience(s) be? Please rank in order:

1. large employers and their employees
2. small to midsize employers and their employees
3. residential or mixed-use properties and their tenants/visitors
4. individual Tempe residents
5. visitor destinations
6. other

Step 2 – Brainstorming



BRAINSTORMING

Step 3 – Level and Type of Engagement



Types of Engagement

Step 4 – Project Lead/Next Steps

Project Lead(s):

Next Steps

Resilient Energy Hub

NOVICE



Tempe, AZ

- First resilience hub will open in 2022
- Constructed to support workforce development and housing assistance during normal times and can act as an emergency cooling center

Community members outside EnVision Tempe, a resilience hub pilot.

BEGINNER



Orlando, FL

- Developing six resiliency hubs
- Hubs will provide services to lower-income communities after extreme weather events
- Will take time to develop

LEED-certified neighborhood center with rooftop solar array.

INTERMEDIATE



Austin, TX

- Creating two resiliency hubs by the end of 2023
- Engaging with community to create a people-centered resilience hub plan
- Granted \$3M from American Rescue Plan to build hubs

Mendez Middle School, a potential resilience hub in Austin, TX.

ADVANCED



Baltimore, MD

- Has twelve resilience hubs
- Placing hubs in different types of buildings, not just city buildings
- Provide food, education, health resources, and more

Fan and food distribution at a resilience hub in Baltimore, MD.

EXCEPTIONAL



Puerto Rico

- Network: Transformed seventeen local community centers to resilience hubs
- Multiple services: Hubs are equipped with combinations of solar energy, water storage, gardens, communications systems, emergency kits, and psychological services
- Always active: Provides critical services absent of disaster

Mercy Corps resilience hub including food, water and emergency preparedness solutions.

Why Hubs and Centers

Two frameworks are emerging to address community resilience, wellbeing, and self-reliance:

1. Resilience Hub (USDN concept)

- Localized approach to emergency preparedness that utilizes well-trusted community spaces

2. EnVision Center (HUD concept)

- Centralized facilities designed to provide greater access to economic, social, and health services

Main Findings

Health and Wellness

- Before and afterschool programs
- Cooking classes
- Yoga, Tai Chi, exercise for elderly and disabled
- Information on voter registration, elections, and community organizations
- Mental health center and support groups

Workforce Development/ Affordable Housing

- Financial assistance with work related equipment
- College prep and financial aide
- Career counseling
- Renters' assistance
- Housing navigators

Emergency Management/ Community Resiliency

- Shade protection for pedestrians
- Hydration station
- Travel assistance programs
- Backup generator

EnVision Overview

Open Fall 2022

Services Offered:

- Finding a job
- GED classes
- Housing assistance
- Parenting programs
- Before and after school care
- Heat relief location

Resilient Energy Hubs & Microgrid

- Master Plan for up to 20 sites
- Microgrid – solar and battery storage systems

Total Five -Year CIP \$1,300,000

FY22/23 \$500,000

FY23/24 \$200,000

FY24/25 \$200,000

FY25/26 \$200,000

FY26/27 \$200,000

Resilient Energy Hubs

Schedule of Activity

Fall Opening Celebration

Programs and services

READI Volunteer Program Grow and Expand

Green Infrastructure Investment

Battery storage

Affordable housing

Solar powered

Master Planning for City-Wide



Step 2 – Brainstorming



BRAINSTORMING

Step 3 – Level and Type of Engagement



Types of Engagement

Step 4 – Project Lead/Next Steps

Project Lead(s):

Next Steps

Resilient Tempe Master Plan

March 14, 2022



Tempe Climate Action Plan Update

Highlight Actions Update


The Sustainability and Resilience Commission identified immediate highlight actions in the first plan that still need policy adoption and investment:



Green Codes and Standards (Green Stormwater Infrastructure and International Green Construction Code adoption):
To establish resilience to extreme heat in new construction 16



Transportation Demand Management and Mobility Hubs:
To increase convenience of low carbon transportations options 19



Resilient Energy Hubs and Resilience Hubs:
To increase community connections and the ability to support survival during disasters 21



Green Stormwater Infrastructure

- Supports Urban Cooling
- Creates Shade
- Saves Water
- Captures Stormwater
- Keeps Streets Clean During Storms



Green Stormwater Infrastructure Partners & Collaboration

Internal Partners

- Office of Sustainability and Resilience
- Municipal Utilities Department
 - Water Conservation
 - Environmental (Stormwater Quality, Reporting)
- Engineering and Transportation Department
 - Transportation Planning (CIP Projects)
 - Streets Maintenance (Pilot Projects)
 - Engineering (CIP Projects, Floodplain Management)
- Community Development Department (Private Projects)

External Partners

- Sustainability and Resilience Office
- Arizona State University
- Tempe Residents
- Private Businesses (Pilot Projects)

College Avenue Pilot Project

- Stormwater diverted from streets into landscaping
- Trees and vegetation help with cooling
- Reduced pavement



Dorsey Lane and Lemon Street Pilot

- Stormwater diverted from the gutter into landscaping
- Trees and vegetation help with cooling
- Compost from city green waste



Examples of Green Infrastructure in Tempe



● Rio Salado Parkway & Hardy Drive

- Stormwater diverted from the gutter into landscaping
- Trees and vegetation help with cooling
- Compost from city green waste



Next Level of Coordination

Funding

- \$250,000 Master Plan and Utility Feasibility Study
- \$150,000 Infrastructure

Scope of Work

- Regulations
- Infrastructure
- Programs
- Operations and Maintenance

Elements of Scope of Work

Infrastructure Assessment

- MS4 Permit Compliance and Program Cost
- Assessment of current stormwater infrastructure
- Opportunities for green infrastructure within existing projects
- Opportunities for NEW GSI projects
- Assessment of schools and parks for increased GSI capacity
- Assessment of private infrastructure

Elements of Scope of Work

Infrastructure Assessment Continued...

- Permeability analysis
- Review of existing design criteria codes and standards
- Data review for stormwater and urban forestry
- Racial equity and heat vulnerability mapping

Elements of Scope of Work

Pilot Projects

- Review existing pilot projects
- Development of GSI project typologies for each character area of the city

Elements of Scope of Work

Urban Forestry Master Plan

- Update of UFSMP including tree banking system, code updates, and review of upcoming investments
- Coordination with Arizona State University to determine how investment can improve biodiversity, soil quality and water quality (Handshake: CAP-LRT)
- Benefits of increased vegetation

Elements of Scope of Work

Utility Feasibility Study

- Development of alternative funding solutions for Urban Cooling and Stormwater Utility
- Determine alternatives to determine utility cost burden per customer type
- Development of a phased approach for developing utility overtime
- Coordinate with Utility Rate Study by Municipal Utility

Elements of Scope of Work

GSI Standards

- Co-develop revisions to Engineering Design Criteria for Engineering and Transportation (City projects)

GSI Codes

- Co-development new GSI standard and codes for Community Development and Design Criteria Matrix that is used in private development (private property) – Public/Stakeholder Engagement – (International Green Construction Code Chapter 5)

Questions?

City of Tempe

TDM/Mobility HUB/TMA

Project Update

Sustainability Commission
March 14, 2022





● Regional and State

- Maricopa Association of Governments; Maricopa County Trip Reduction Program; Valley Metro- (Tempe TMA at the I-10 Corridor); Arizona Department of Transportation; Arizona Department of Environmental Quality.

● Local

- Downtown Tempe Authority; ASU Parking and Transit; Development Review Commission; Tempe Chamber of Commerce; Sustainability Commission; Transportation Commission; local businesses and civic associations.

● City Departments

- Engineering and Transportation; Development Services; Economic Development; and Parks and Recreation.

Tempe's Sustainable Vision



The City of Tempe is dedicated to growing a sustainable and resilient city alongside community stakeholders. Tempe is taking action to reduce emissions and cultivate resilience by focusing on the guiding principles of fiscal responsibility, enterprise, equity, engagement, and effectiveness.

This includes goals to:

- Achieve a multimodal transportation system that supports a “20-minute city”
- Reduce travel times along major streets during rush hours
- Reduce community Greenhouse Gas (GHG) emissions by 80% of 2015 levels by 2050 and achieve community carbon neutrality by 2060.



● **Transportation Demand Management (TDM) Plan**

- Programs & policies designed to enhance system efficiency and promotes use of multi-modal investments.

● **Transportation Management Association (TMA) Plan**

- Creates a forum for collaboration to improve the effectiveness of TDM efforts across agencies, businesses and locations.

● **Mobility Hubs Plan**

- Provides the infrastructure needed to support multimodal transportation choices at multiple sites across Tempe.

Stakeholder Engagement



Key takeaways

- Enthusiasm for TDM, TMA, & Mobility Hubs
- Education and awareness will be key to the success of any effort
- Need to start conversations regarding TDM strategies during “phase 1” of project development
- Businesses are interested in the ROI for investing in these strategies
- Positive response about the potential value of a TMA in addressing transportation issues and facilitating efficient travel



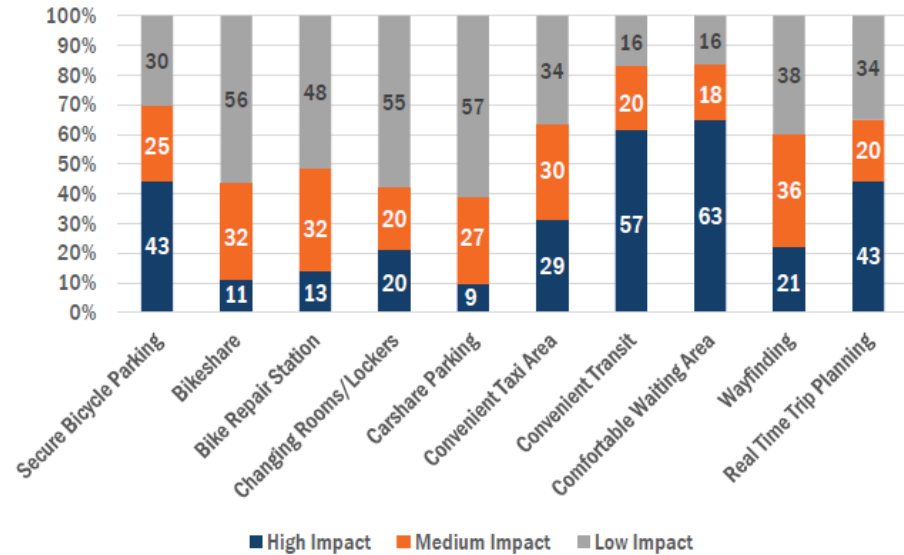
Public Meeting and Survey Responses



Key takeaways – Round 1

- Many are open to using other transportation options than driving alone
- Bicycle, pedestrian, rideshare and transit modes are used by respondents
- Pockets within Tempe have convenient transportation choices

What Would Encourage You To Use Alternative Transportation Choices?



Public Meeting and Survey Responses



Key takeaways – Round 2

- These efforts can increase mobility and improve quality of life and environment in Tempe
- They can make getting around Tempe without a car easier
- We need to provide more complete (and real time) information
- Look for ways to support multiple user groups and tie into & support regional efforts
- Key Mobility Hub elements include comfortable waiting areas, secure bicycle parking and convenient transit



The background features a central light blue circle surrounded by multiple concentric rings of varying thicknesses in dark blue and yellow, creating a tunnel-like or ripple effect.

Mobility Hubs

Mobility Hubs (Defined)



- Mobility Hubs are places which combine the resources of multiple modes of transportation together in one physical location, designed to help reduce the need for vehicle ownership and single occupancy driving trips.

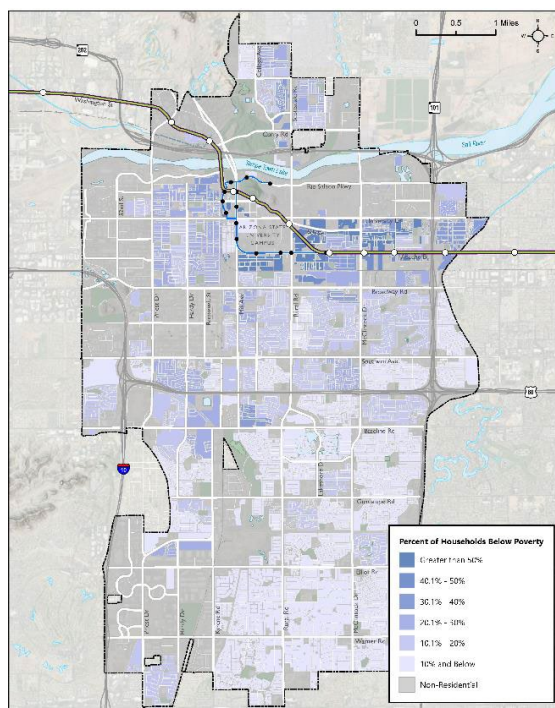


Equity Focus of Mobility Hubs

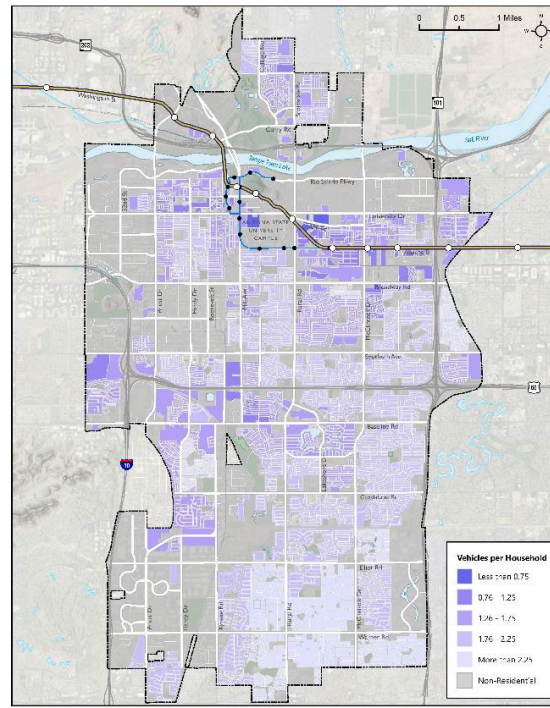


- Emphasis on siting mobility hubs in areas that will benefit lower income, car-free or car-light, and structurally underserved populations

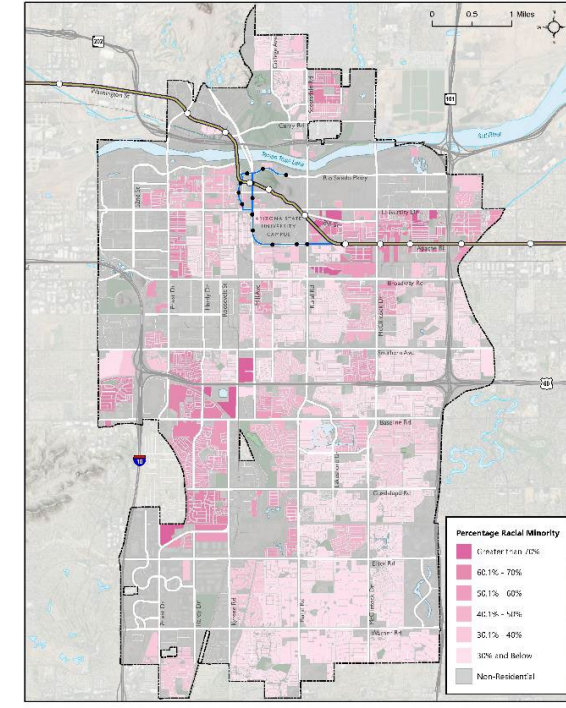
Households Below Poverty



Low Vehicles per Household



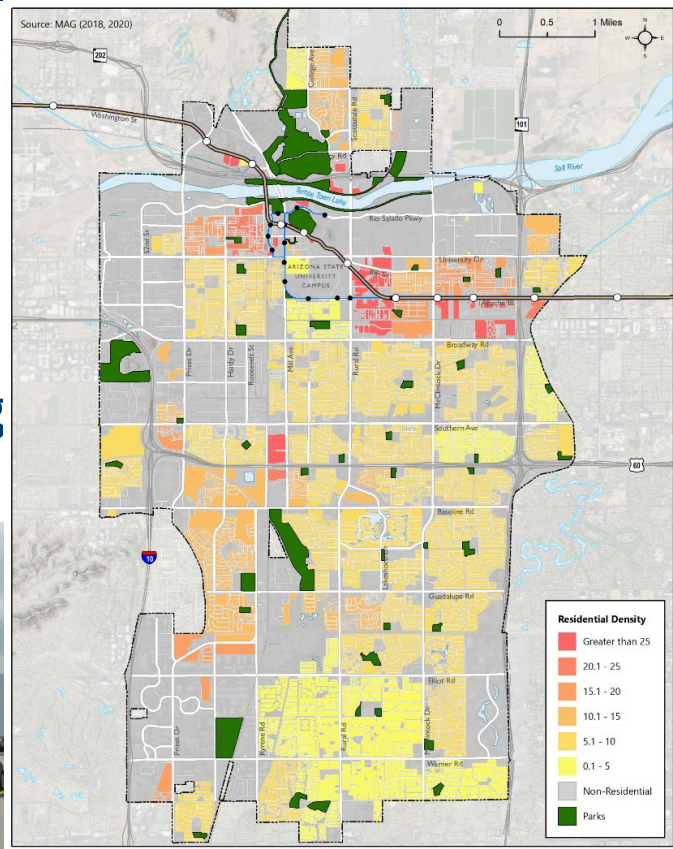
BIPOC Populations



Mobility Hubs on Public Property



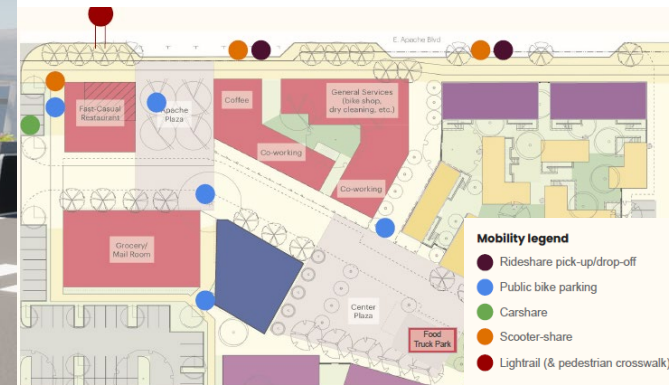
- Parks have dispersed neighborhood geographic coverage
- Reduces the reliance on cooperation with private landowners
- Abundant space within makes programming mobility hub amenities more feasible



Public-Private Partnership Mobility Hubs



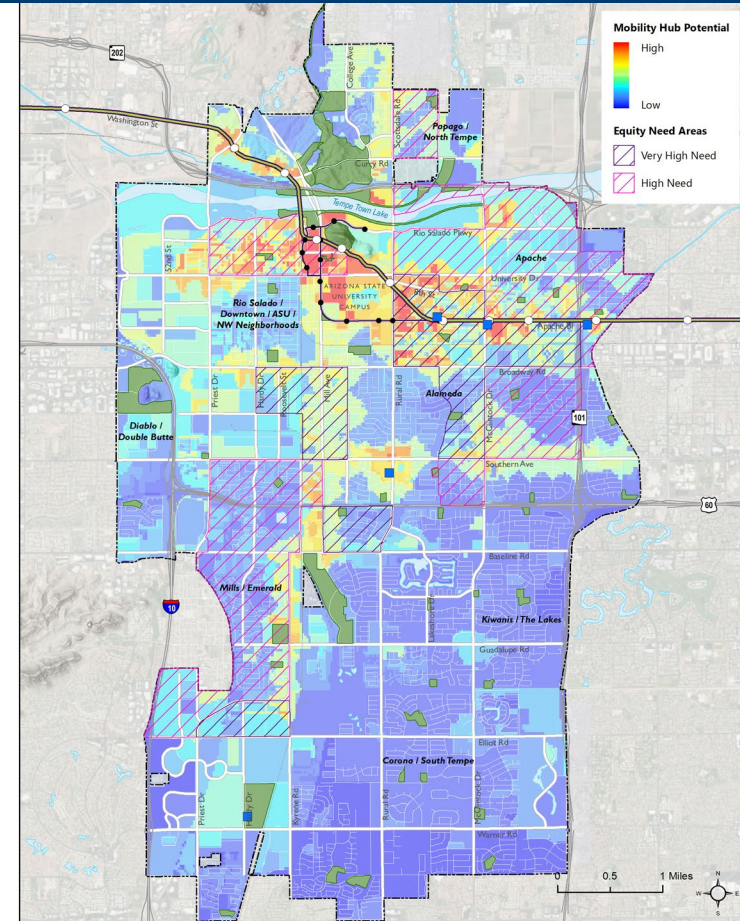
- Private developments hosting amenities on-site; may be used by the public
- Core strategy for developments seeking to reduce parking obligations, driving trips and VMT



Mobility Hub Potential Locations



- The following indicators were used identify locations with high mobility hub potential:
 - Residential Density
 - Employment Density
 - Near Transit Stops w/High Daily Transit Ridership
 - Near High Frequency Transit Stops
 - High Accessibility to Employment (by Transit and Walking)
 - Scooter & Bike share origin & destination historic trip data



The logo features a central light blue circle surrounded by a thick, swirling border of dark blue and yellow lines, creating a tunnel-like effect.

Transportation Management Association

What is a TMA?



A Transportation Management Association (TMA) is a collaborative agency or initiative that exists to provide a variety of TDM services. TMAs work best in environments with...

- Agreed upon transportation challenges
- Demand for services that call for greater coordination for effective delivery
- Regulatory context that requires new effort on behalf of individuals/organizations
- Support and leadership from key public and private partners



TMA Programs & Services



- TDM Strategies
- Transportation Planning Services
- Employee/commuter travel information and resources
- TDM/Trip Reduction regulatory compliance
- Parking management
- Targeted programs for distinct user groups
- Performance measurement & reporting



Commuter Benefits Ordinance

Are you a business with 20 or more employees? Learn about the ordinance, how to comply and the benefits it offers you and your employees. [Learn More](#)



Talk to Nick Abel
Senior Transportation Specialist
(206) 613-3233

[Email me](#)

[Schedule a meeting](#)



Transportation Management Program & Property Managers

Does your property have a transportation management agreement? Learn how your building can further its sustainability goals. [Learn More](#)



Talk to Olivia Holden
Senior Program Manager
206-613-3257

[Email me](#)

[Schedule a meeting](#)



Flexwork/Telework

Learn about the benefits of teleworking! We'll help your business craft a Flexwork solution that works for you. [Learn More](#)



Talk to Nick Abel
Senior Transportation Specialist
(206) 613-3233

[Email me](#)

[Schedule a meeting](#)



West Seattle Bridge Closure Support

Do you have employees or an office located in West Seattle? We can help develop solutions during the bridge closure. [Learn More](#)



Talk to Wren Barulich
Senior Transportation Specialist
(206) 613-3243

[Email me](#)

[Schedule a meeting](#)

Source: Commute Seattle

Tempe Context



- Development is increasingly intense, leading to traffic congestion and accessibility concerns
- “20-minute city” focus, coupled with goals of reducing GHG emissions and travel times
- Significant recent planning and investments in multimodal infrastructure
- Tempe has an active Downtown and significant anchor businesses & institutions
- Existing regulatory framework leaves room for improvement and need for more coordination
- Public and private partners are committed to this work and are ready to lead

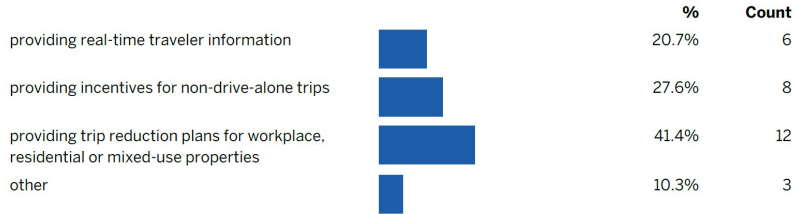


Tempe TMA Survey Response



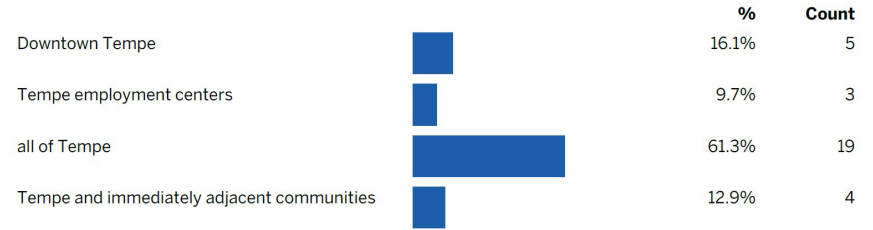
QUESTION 1

What programs and services should the Transportation Management Association (TMA) focus on in its first years of operation?

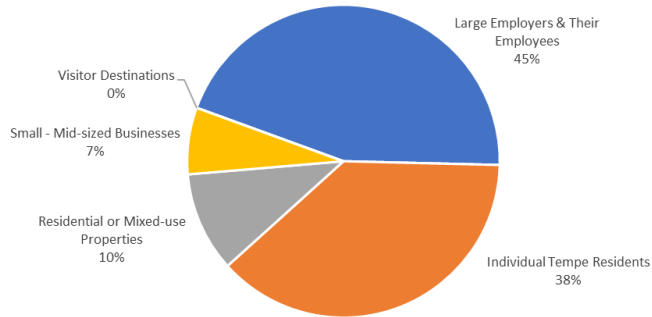


QUESTION 2

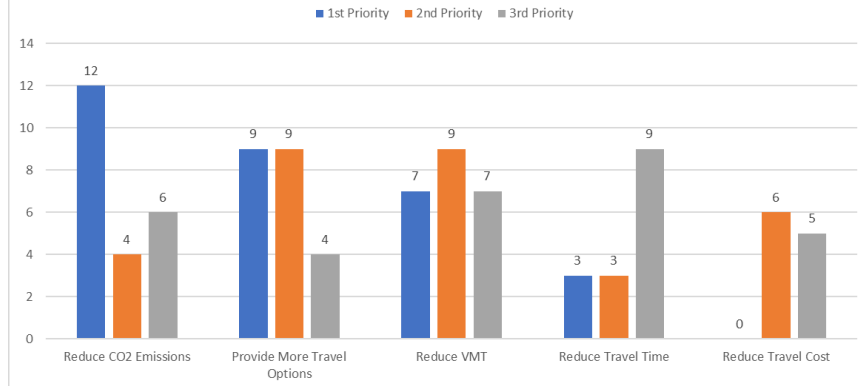
What area should the Tempe TMA serve?



Who should the Tempe TMA's primary audience(s) be?



Rank the Importance of the Following Goals for the TMA



Stakeholder Response



- Need to set the stage for change and improvement *before* travel returns to peak levels
- Support the needs of both businesses and individual travelers
- Align goals with other planning efforts, including Climate Action Plan and Vision Zero Action Plan
- TMA organization should be external to the City of Tempe with strong public-private collaboration
- Position this effort to capitalize on unique and generational funding opportunities
- Tempe is poised to be a leader in the region and others will learn from the model we establish

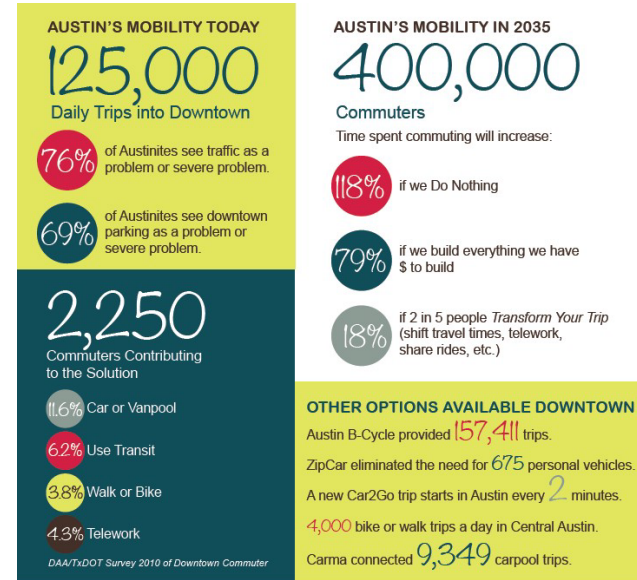


Setting up the TMA



Next Steps:

- Confirm the TMA's mission, vision and goals
- Establish the organization structure and cross-sector partnerships
- Outline key strategies, programs and services
- Identify resources and funding
- Develop performance measures and reporting methods



EMPLOYERS, HERE IS YOUR OPPORTUNITY



Source: Movability

Schedule



- Public Meeting (Virtual) and Open House Jan. 25 & 29, 2022
- Tempe Chamber of Commerce February 2, 2022
- Tempe Technical Working Group February 9, 2022
- Tempe Development Review Commission February 22, 2022
- Community & Employer Stakeholders February 23, 2022
- Tempe City Council Subcommittees March 2022
- Tempe Transportation Commission March 15, 2022
- Tempe Sustainability Commission March 14, 2022
- Tempe City Council March 24, 2022

Questions



● **Shannon Scutari**, Consultant,

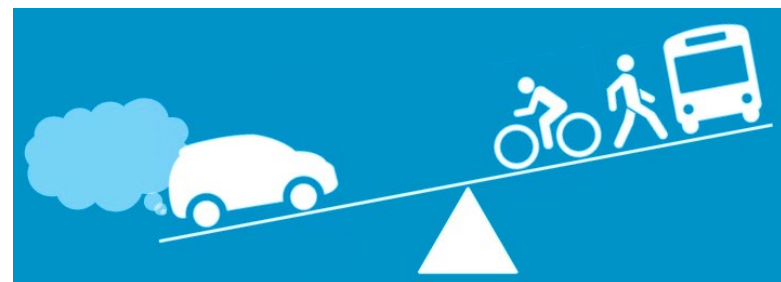
shannon@scutariandcompany.com

● **Robert Yabes**, Transportation Planning Manager,

Robert_Yabes@tempe.gov

● tempe.gov/TDM

● tempe.gov/mobilityhubs



Source: Mobility Lab



Mobility Hubs and Transportation Demand Management Public Input Summary – February 2022

I. Background

Tempe is developing strategies that will lead to sustainable solutions for the city's transportation network. The first round of public meetings provided an overview and desired outcome for each project, presented preliminary analysis findings and solicited input and comments about habits and opinions on driving alone versus alternative forms of transportation, such as walking, biking, transit and rideshare. It also explored what policy measures or incentives would encourage the use of alternative transportation modes, resulting in a reduction of automobile trips.

The second round of public meetings was held to present draft recommendations and to solicit feedback on the recommendations for the two transportation projects, [Transportation Demand Management](#) and [Mobility Hubs](#).

II. Outreach

- A virtual public meeting was held on Tuesday, Jan. 25, 2022; a total of 18 people attended online
- An in-person transportation open house was held on Saturday, Jan. 29, 2022 with approximately 200 attendees
- The topic was posted online from Jan. 25 – Feb. 8, 2022 on Tempe Forum with 31 responses received
- Emails were sent to stakeholders

Below is a summary of digital outreach that provided information to the public regarding the meetings, project and opportunities for input:

FACEBOOK

1/21 – open house | Reach/Impressions: 356 | Engagement: 14
1/25 – open house reminder (Adaptive Streets focus) | Reach/Impressions: 1604 | Engagement: 279
1/26 – open house reminder (Adaptive Streets focus, Sustainable Tempe page) | Reach/Impressions: 83 | Engagement: 8
1/27 – open house reminder (Transit shelter focus) | Reach/Impressions: 6887 | Engagement: 182
1/28 – open house reminder (CAP focus) | Reach/Impressions: 29713 | Engagement: 1272
1/29 – day of meeting | Reach/Impressions: 3776 | Engagement: 110
2/7 – input reminder | Reach/Impressions: 272 | Engagement: 17

TWITTER

1/21 – open house | Reach/Impressions: 565 | Engagement: 5
1/25 – open house reminder (Adaptive Streets focus) | Reach/Impressions: 1124 | Engagement: 32
1/27 – open house reminder (Transit shelter focus) | Reach/Impressions: 5044 | Engagement: 116
1/28 – open house reminder (CAP focus) | Reach/Impressions: 4054 | Engagement: 198
1/29 – day of meeting | Reach/Impressions: 5203 | Engagement: 94
2/7 – input reminder | Reach/Impressions: 829 | Engagement: 34

NEXTDOOR

1/21 – open house | Reach/Impressions: 1107 | Engagement: 5
1/27 – open house reminder | Reach/Impressions: 1291 | Engagement: 4
2/7 – input reminder | Reach/Impressions: 988 | Engagement: 0

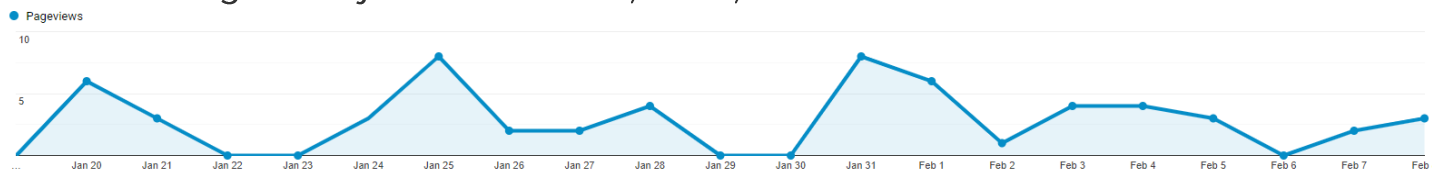
INSTAGRAM

1/25 – open house reminder (Adaptive Streets focus) | Reach/Impressions: 2172 | Engagement: 186
1/28 – open house reminder (Transit shelter focus) | Reach/Impressions: 2249 | Engagement: 172
1/29 – day of meeting (IG Story) | Reach/Impressions: 506 | Engagement: 5

PRESS RELEASE

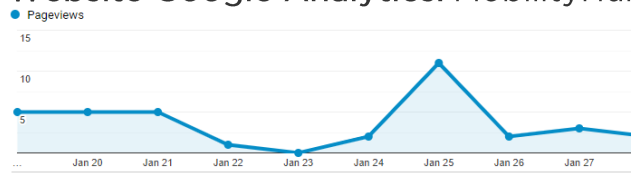
1/20/22 – transportation open house (Adaptive, TDM/MH, Shelters) | 3266 emails sent, 34% open rate, 2.8% click rate
2/4/22 – provide input (Adaptive, TDM/MH, Shelters) | 3253 emails sent, 33% open rate, 1.9% click rate
2/7/22 – Coronavirus news (Adaptive, TDM/MH, Shelters) | 7114 emails sent, 39.9% open rate, 2.9%

Website Google Analytics: TDM from 1/19 – 2/8



- 59 views
- Top Sources:
 - Google
 - Direct
 - Open Town Hall
 - Mailchimp
 - Bing
- Spikes:
 - 1/20 – 6 pageviews
 - 1/25 – 8 pageviews
 - 1/31 – 8 pageviews

Website Google Analytics: MobilityHubs from 1/19 - 2/8

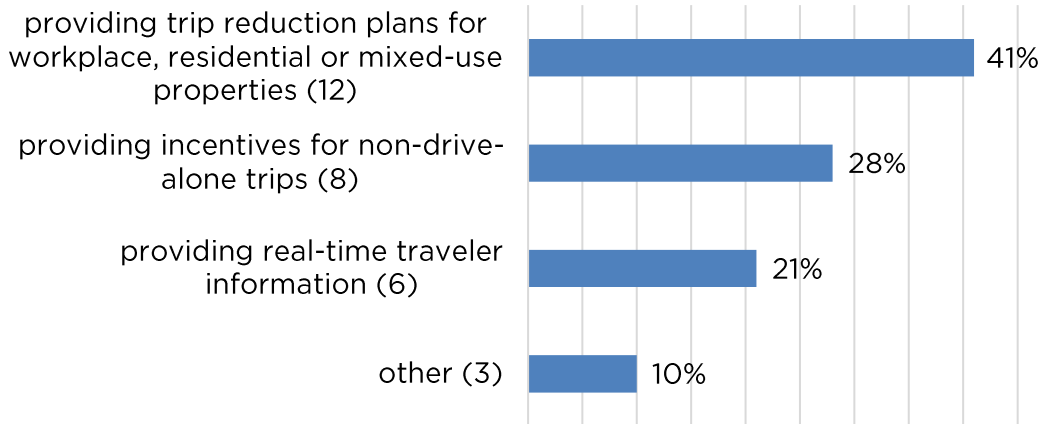


- 85 views
- Top Sources:
 - Google
 - Open Town Hall
 - Direct
 - Mailchimp
 - Bing
- Spikes:
 - 1/25 - 11 pageviews
 - 1/31 - 8 pageviews
 - 2/3 - 7 pageviews
 - 2/7 - 7 pageviews

III. Survey Results

A total of 31 unduplicated survey responses were received.

1. What programs and services should the Transportation Management Association (TMA) focus on in its first year of operation?

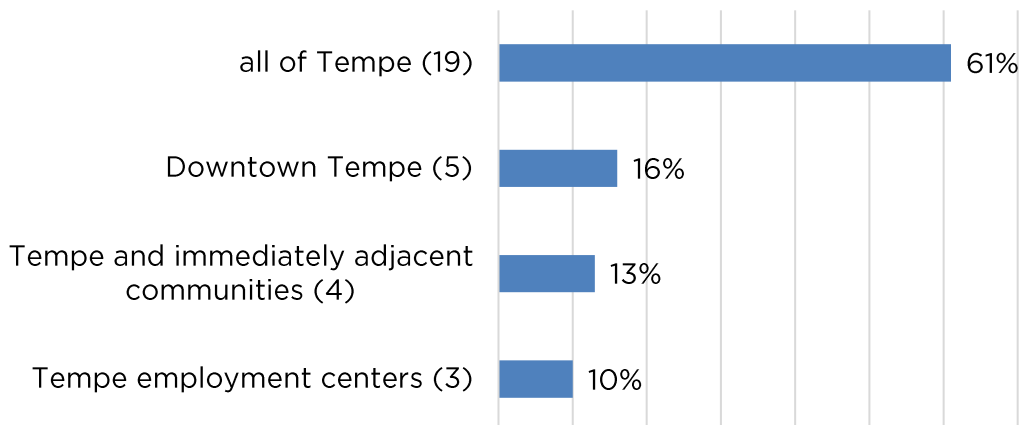


Other:

- All of the above
- Providing and incentivizing people to use other modes of transportation such as bikes, e-bikes, walking, e-scooters. Stop building parking and parking garages in the city and have people use public transit in order to enter Tempe. #abettertempe
- Take away roads and parking for cars and replace with walking paths and bicycle lanes. Plan for people not cars.

Responses: 29

2. What area should the Tempe TMA serve?



Responses: 31

3. Who should the Tempe TMA's primary audience(s) be? Please rank in order:

1. large employers and their employees
2. small to midsize employers and their employees
3. residential or mixed-use properties and their tenants/visitors
4. individual Tempe residents
5. visitor destinations
6. other

4. Please rank in order of importance to you the following goals for the Tempe TMA.

1. reduce carbon dioxide (CO2) emissions
2. reduce vehicle miles traveled (VMT)
3. provide more travel options for Tempe travelers
4. reduce travel time
5. reduce travel cost

5. How would a TMA benefit you?

1. as a retired person, if TMA objective is to get businesses & facilities with larger #'s of people involved in finding transportation alternatives for their clients & employees -- then I'm not a focus. But, if TMA wants to consider people who don't drive -- then I'm a potential user of whatever wider transportation ideas are implemented.
2. I could get around without a car much more easily.
3. i don't mind one, as long as this is a volunteer association and doesn't cost the city anything
4. I use my bike for 90% of my transportation needs. More accessible transit options and less/slower car traffic would make my getting around safer and more flexible.
5. I would love to see a healthier Tempe where residents put public transportation, biking, walking, or using an e-scooter before driving. Our society is catering to entitled, lazy people not wanting to change for a better future.
6. I would love to take the orbit but it takes forever because of the loop it does at the library. More direct routes in the Orbit and better tracking for the bus would be awesome
7. If you build better bicycle infrastructure with protected bike lanes. Pathways dedicated to pedestrians will increase people walking to more places instead of choosing to drive.
8. I'm using more public transportation as I get older.
9. In all modes of travel.
10. Increased mobility and better quality of life and environmental quality.
11. it would benefit by providing real time travel info, providing better info for transit. TMA will hopefully provide more pressure to fill holes in bike infrastructure

12. It would help me to safely ride my bike to places of businesses, improving health and my role in reducing ozone and CO2 emissions
13. less automobile VMT would allow for more active forms of transportation to use the right of way. Our rights of way are currently dominated by space for cars with travel by bicycle, walking, or taking transit an afterthought if considered at all in the road right of way.
14. less congestion around the ASU area. Rural and University are very slow-going.
15. Less single passenger vehicles on the streets.
16. Potential support for my employer to implement programs for non-SOV users
17. Receive relevant information regarding transportation options within the city.
18. Reducing emissions and contributing to climate change solutions.
19. Safer streets to ride and walk on
20. Shared use vehicles, real-time updates on traffic conditions, ride-share services would all be beneficial.

6. What are we missing related to TDM and TMAs?

1. Bike lane planning in Tempe appears to be haphazard and uncoordinated - routes are disjointed. Need for strategic connection of the existing amazing stretches of bike routes with major destinations.
2. Consider how this effort can tie into and support regional efforts. How will you address the traffic that does not have an origin or destination in Tempe but is merely passing through?
3. Construction-related travel burdens.
4. Do more emissions reductions.
5. Ease of use/instructions for bicycle parking
6. How do I, as a person in their 80's, find a convenient way to use alternative transportation instead of driving my car? To get to an orbit in my neighborhood (north of Shalimar Golf Course) I have to walk or drive about a mile. I'm not going to be able to walk that if I can't drive anymore -- & the only alternative at present is to pay for a ride.
7. Look to Utrecht, Netherlands for how to implement options that truly work for residents. You need dedicated bicycle parking that is monitored and has security.
8. Lower car speed limits, protected bike lanes on routes to grocery stores, more cycling stations for locking up bikes, more train transit.
9. More protected bike lanes
10. Tempe is a Vision Zero community. We shouldn't forget that congestion is not always a bad thing. Wide streets with limited crossings and high speeds create conditions where the likelihood for serious injuries and fatalities to occur. As part of TDM and TMAs it doesn't seem appropriate to try and think that we can eliminate all congestion as there is a positive correlation between congestion and traffic safety.
11. the TMA should be volunteers. Try a TDM for a couple years and be ready to scrap it if it doesn't make a difference. A TDM costs money. I'd rather Tempe

spend money on resurfacing bad roads like Warner road between Rural and McClintock.

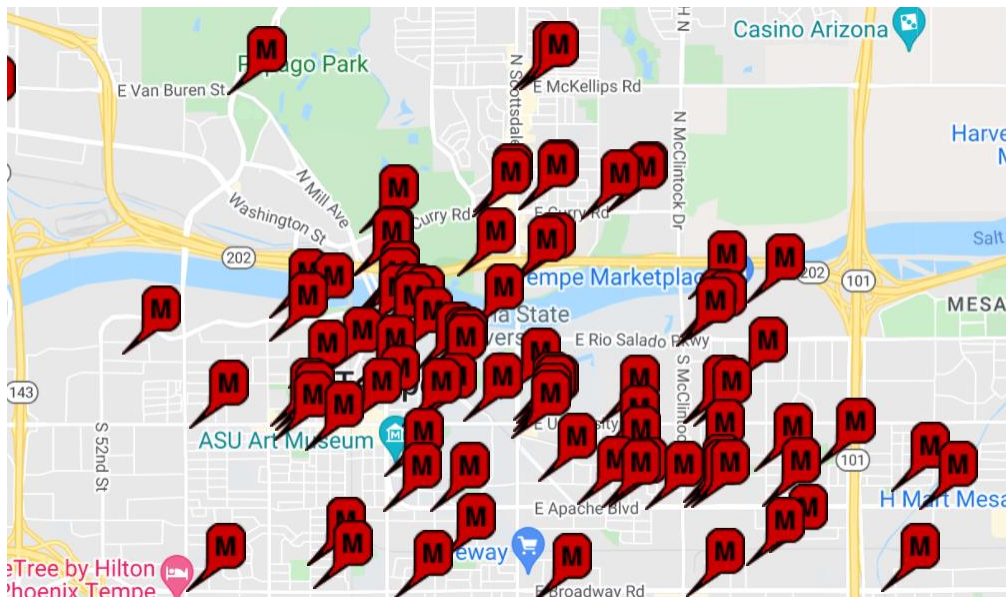
12. You need to force people in our society into a position to try something new such as public transit (bus, light rail, etc.), and/or biking, e-biking, walking, e-scooters. This would require converting unneeded parking for vehicles into walking, biking areas or even outdoor spaces for businesses. Stop giving priority to cars and start charging to park cars in all of Tempe in order to raise revenue for a better Tempe.

7. Which are the three most important factors that should influence where to concentrate mobility hubs in the city? Please rank your top three from areas/places with:

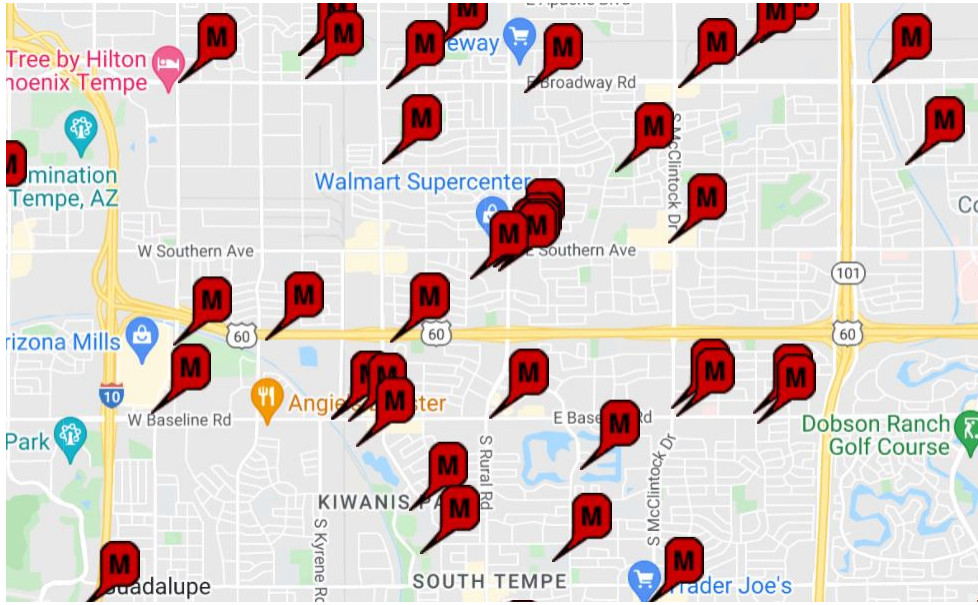
1. high population/household density
2. low income/high poverty
3. high ridership transit stops/stations
4. high employment density
5. low household vehicle ownership rates
6. poor connections to Transit
7. many major destinations
8. low availability of parking (or difficult/expensive to drive)

8. Where do you think mobility hubs should be located in Tempe?

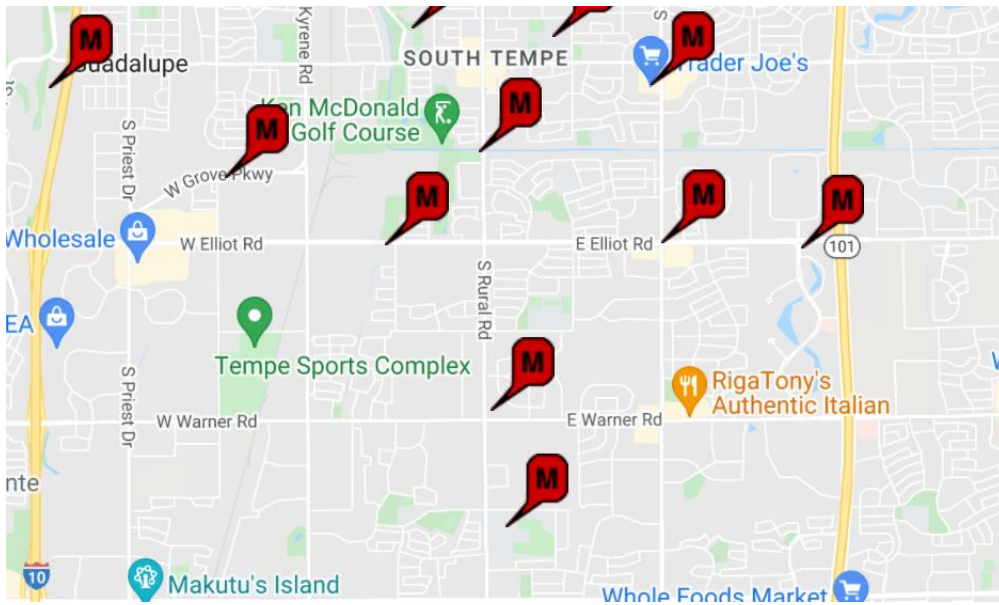
Northern border to Broadway Road:



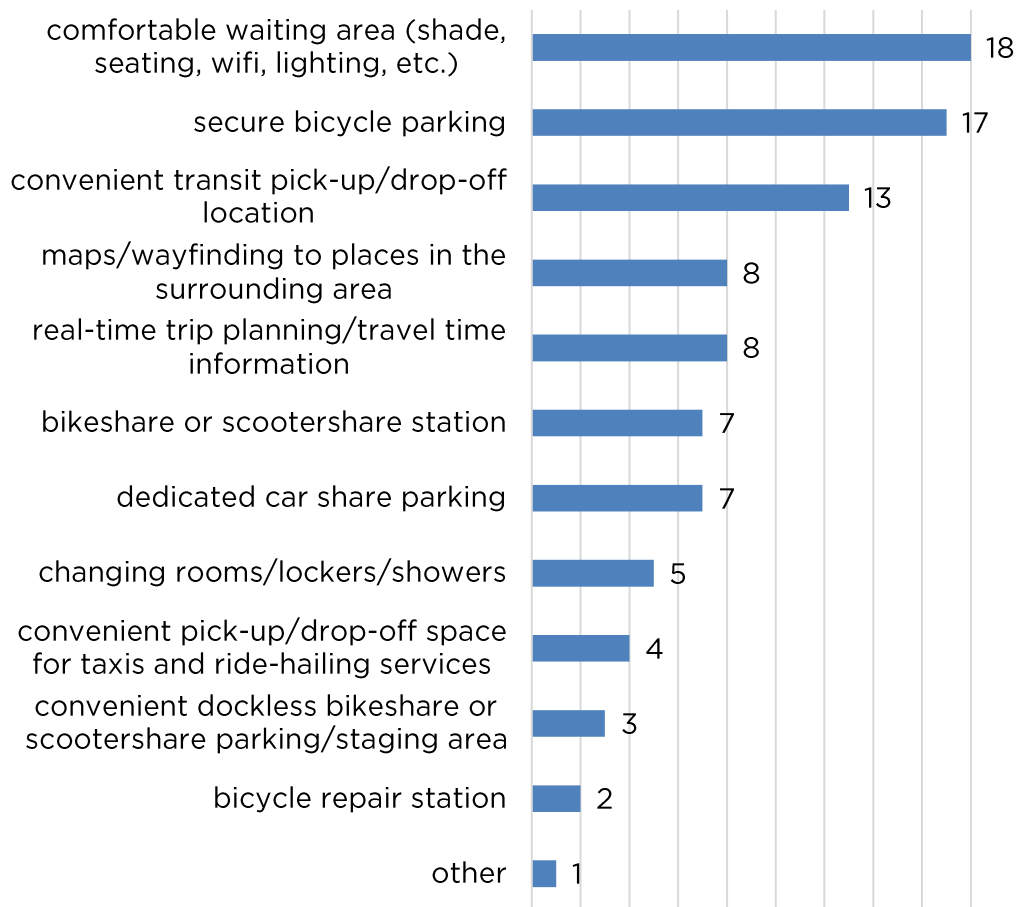
Broadway Road to Guadalupe Road:



Guadalupe Road to southern border:



9. Which three amenities are most essential to have at a mobility hub? Please select your top three.

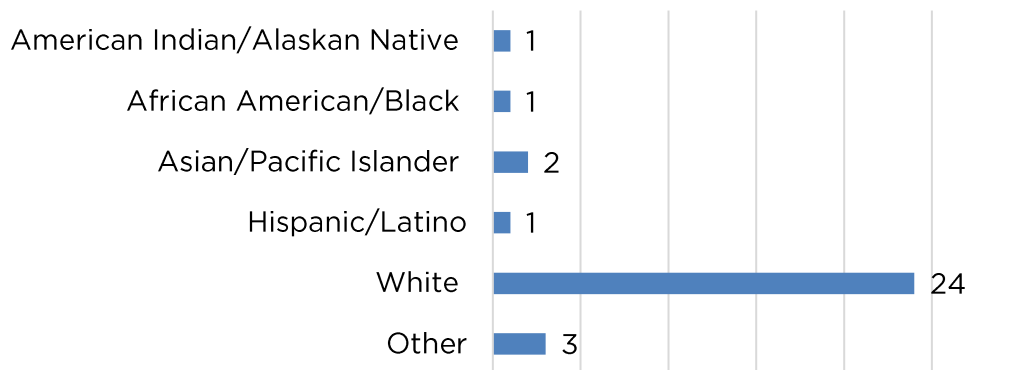


Other:

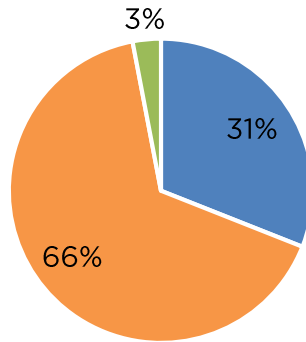
- Cameras installed to make sure the homeless don't strip and deface the nice amenities for tax paying residents and travelers. You need a form of security.

IV. Demographics

Race, select all that apply (will not appear if you chose to share other responses)



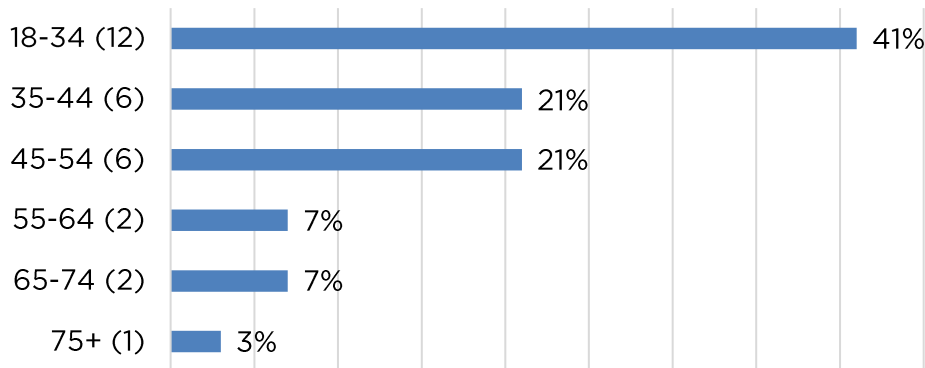
What gender do you identify with? (will not appear if you chose to share other responses)



■ Male (9) ■ Female (19) ■ Non-confirming (1)

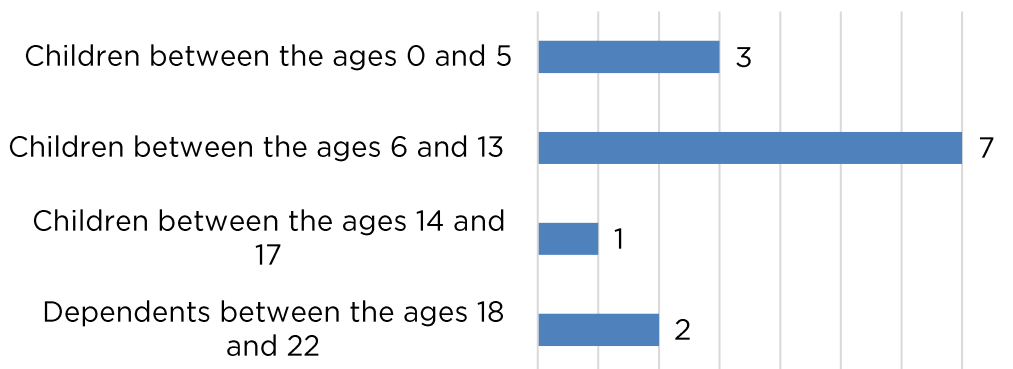
Responses: 29

What is your age? (will not appear if you chose to share other responses)



Responses: 29

Does your household have dependents in any of the following age groups? (will not appear if you chose to share other responses)



EnVision Tempe Update

March 14, 2022



Unlimited Potential Partnership

June 19, 2021 - Climate Justice Forum

June 22, 2021 - Neighborhood/Community
Forum

October 19, 2021 - Neighborhood Resiliency
Event

November 6, 2021 - EnVision Tempe Event



Main Findings

Health and Wellness

- Before and afterschool programs
- Cooking classes
- Yoga, Tai Chi, exercise for elderly and disabled
- Information on voter registration, elections, and community organizations
- Mental health center and support groups

Workforce Development/ Affordable Housing

- Financial assistance with work related equipment
- College prep and financial aide
- Career counseling
- Renters' assistance
- Housing navigators

Emergency Management/ Community Resiliency

- Shade protection for pedestrians
- Hydration station
- Travel assistance programs
- Backup generator

Why Hubs and Centers

Two frameworks are emerging to address community resilience, wellbeing, and self-reliance:

1. Resilience Hub (USDN concept)

- Localized approach to emergency preparedness that utilizes well-trusted community spaces

2. EnVision Center (HUD concept)

- Centralized facilities designed to provide greater access to economic, social, and health services

National Models

BEGINNER



Orlando, FL

- Developing six resiliency hubs
- Hubs will provide services to lower-income communities after extreme weather events
- Will take time to develop

LEED-certified neighborhood center with rooftop solar array.

INTERMEDIATE



Austin, TX

- Creating two resiliency hubs by the end of 2023
- Engaging with community to create a people-centered resilience hub plan
- Granted \$3M from American Rescue Plan to build hubs

Mendez Middle School, a potential resilience hub in Austin, TX.

National Models

ADVANCED



Baltimore, MD

- Has twelve resilience hubs
- Placing hubs in different types of buildings, not just city buildings
- Provide food, education, health resources, and more

Fan and food distribution at a resilience hub in Baltimore, MD.

EXCEPTIONAL



Puerto Rico

- Network: Transformed seventeen local community centers to resilience hubs
- Multiple services: Hubs are equipped with combinations of solar energy, water storage, gardens, communications systems, emergency kits, and psychological services
- Always active: Provides critical services absent of disaster

Mercy Corps resilience hub including food, water and emergency preparedness solutions.

Core Pillars

Economic Empowerment: Opportunities to improve economic sustainability

Educational Advancement: Educational and skills training opportunities

Health and Wellness: Improving access to better health outcomes

Character and Leadership: Molding productive citizens through service efforts

Resilience to Extreme Heat: Providing immediate and long-term heat relief

Community Resilience: Ensuring community wellbeing and self-reliant emergency preparedness

EnVision Overview

Open Fall 2022

Services Offered:

- Finding a job
- GED classes
- Housing assistance
- Parenting programs
- Before and after school care
- Heat relief location

Apache & Dorsey 1310 E Apache Blvd.



Capital Improvement Budget

Resilient Energy Hubs & Microgrid

- Master Plan for up to 20 sites
- Microgrid – solar and battery storage systems

Total Five -Year \$1,300,000

FY22/23 \$500,000

FY23/24 \$200,000

FY24/25 \$200,000

FY25/26 \$200,000

FY26/27 \$200,000



Questions?