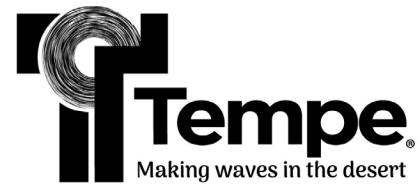


PUBLIC MEETING AGENDA



Sustainability Commission

MEETING DATE

Monday, May 17, 2021
4:30 p.m.

MEETING LOCATION

Virtual Meeting

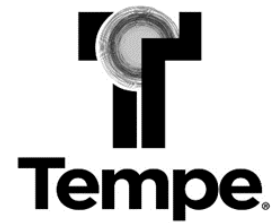
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+1 480-498-8745 United States, Phoenix (Toll)

Conference ID: 596 204 660#

AGENDA ITEM	PRESENTER	ACTION or INFORMATION
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 (4:30 – 4:33 pm)	Information
2. Approval of Meeting Minutes The Commission will be asked to review and approve meeting minutes from the April 19, 2021 meeting.	Kendon Jung, Commission Chair (4:33 – 4:35 pm)	Action
3. TDM & TDA Plan & Mobility Hubs Plan Staff will provide updates.	Robert Yabes, Principal Planner (4:35 – 4:55 pm)	Action
4. Keep Tempe Beautiful Joe Forte will provide information.	Joe Forte, (4:55 – 5:05 pm)	Information
5. Green Infrastructure Staff will provide updates.	Braden Kay, Sustainability Director (5:05 – 5:25 pm)	Action
6. Climate Action Plan Update Staff will provide updates.	Braden Kay, Sustainability Director (5:25– 5:35 pm)	Action
7. Sustainability and Livability Council Committee Staff will provide updates.	Kendon Jung, Commission Chair (5:35 – 5:45 pm)	Action
8. Housekeeping Items Commission positions Office of Sustainability name change Race to Zero	Kendon Jung, Commission Chair (5:45 – 6:00 pm)	Action
9. Future Agenda Items Commission may request future agenda items.	Kendon Jung, Commission Chair (6:00 – 6:15 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.



Minutes City of Tempe Sustainability Commission April 19, 2021

Minutes of the Tempe Sustainability Commission meeting held on Monday, April 19, 2021, 4:30 p.m. at a virtual meeting on MS Teams, through City Hall, 31 E. 5th Street, Tempe, Arizona.

(MEMBERS) Present:

Kendon Jung (Chair)
Barbie Burke
Sukki Jahnke
Steven Russell

Katja Brundiers
Gretchen Reinhardt
Anna Melis
John Kane

(MEMBERS) Absent:

Stephanie Milam-Edwards
Ryan Mores (Vice Chair)

City Staff Present:

Braden Kay
Grace DelMonte Kelly
Ausette Anderies
Terry Piekarz
Steve White
Braenda Clark
Cassandra Mac

Guests Present:

Councilmember Lauren Kuby
David Sokolowski
Shawn Swisher
Charles Rolsky
Siobhan Lyons

Chair Jung called the meeting to order at 4:32 p.m.

Agenda Item 1 – Public Appearance

Chair Jung asked the guests to introduce themselves.

Charles Rolsky introduced himself and said:

- Pandemic Plastics as a Valuable Resources for Upcycling: Plastic Waste for Advanced Manufacturing
- Medical Plastic is usually disposed of through incineration
- Single-use plastics have helped reduce spread of COVID-19

- Increase understanding of COVID-19
- COVID-19 tests have produced a lot of waste
- Looking for a way to reuse some of the plastic materials
- Create a closed-loop recycling process within the system of these medical plastics
- Proceeds from sales go back to testing efforts

Questions:

- What can the city do to help?
 - Looking for other medical facilities and organizations
 - Help to look for funding and grants to help this project

Answer:

- With commission approval, letters of recommendation can be written to help support the applications
- Contacting Waste Management

Agenda Item 2 – Approval of Meeting Minutes

Chair Jung introduced the minutes of the March 15, 2021 meeting. Commissioner Burke made a motion to approve the minutes with Commissioner Reinhardt's edits. Commissioner Jahnke seconded.

Motion: Commissioner Burke

Second: Commissioner Jahnke

Decision: Approved 8-0

Voted to Approve:

Kendon Jung (Chair)
John Kane
Barbie Burke
Sukki Jahnke
Gretchen Reinhardt
Katja Brundiers
Anna Melis
Steve Russell

Motion Passed 8-0.

Agenda Item 3 – Solid Waste Rate Study

Municipal Utilities Director Terry Piekarz provided an update of the solid waste rate study.

- Solid Waste Rate Study
 - Seeking feedback
- Strategic priorities and performances
- Provides the community with a safe and sustainable environment
- Rate study
 - Cost to provide solid waste services to the Tempe community
- Collecting, processing, residential, commercial front load, commercial roll-off
- Compost, alley maintenance, household products
- The city provides 1 per week collection
- 1000 tons of garbage collected
- Volume-based pricing offers the opportunity to downsize and decrease cost
- Green organics additional change
- Additional services

- Unconstrained garbage and green organic
- Zero waste day - donation day
- Self-haul to transfer station
- Commercial service
 - Garbage and recycling
 - Roll-off
 - Special events - garbage and recycling
 - Below cost recovery
 - Supporting zero waste or low waste events
 - Green organics
 - Returns compost to land
 - Removes green organic from landfills
 - Rates need to be identified to determine the possibility of continuing this service
 - Alley-way maintenance
 - Preventative and reactive maintenance
 - Manage illegal dumping of waste
 - The goal is to maintain alleyways throughout the city
 - Capital improvement program
 - Tempe.gov/UtilityRateStudy
- Revenue requirements
 - The total amount that must be collected to cover operating costs, financial politics, and level of service, capital cost
 - Cost allocation - evaluate data and review billing units
 - Rate design - evaluate objectives, structures, and customer impact
 - Seeking feedback from the council, community, etc.
 - Success of planning is in good communication and understanding the rate study purpose and goals
 - Transparency and input
 - Customer engagement
 - Public involvement in equity and inclusion
 - Community engagement
 - The public meeting, comment surveys, marketing campaign, social media to neighborhood organizations
 - Staff will provide a public input summary
 - Timeline - complete the process by Jan 2022
 - Input is important - comments and feedback
 - Public comment survey is open until May 8th
 - Two public meetings April 20th (tempe.gov/untilyratestudy)

Commissioner Questions:

- What happens in multi-family areas? Concerned about the equity in terms of reducing the cost.
 - Multi-unit complex - considered commercial customers
 - They are either serviced by us or a contractor
 - In terms of equity or cost, it is a lower cost per unit for multi-family units
- Smaller complexes? Are they treated as businesses?
 - We are compiling a list of complexes that do not have recycling services.
 - We want to determine how can the city help solve this issue?
- What criteria outside of monetary issues will be addressed?
 - Cost is evaluated in cost of service, financial viability
 - Some programs will not recover the full cost
 - Some programs are mission-based and council priorities

- In the context of the cost of business, the city's values are taken into account through the City Council
 - The main goal is to offer cost goals
 - Trying to create a whole picture of the system
- Terry Piekarz said the status of composting is:
 - The composting program over the past 18 months is a pilot program
 - We will present information to Council on cost recovery
 - We are looking at ending the pilot and having it as part of operations
- It would be interesting to see all paths of diversion and how much goes to landfill. What is the true cost to landfill?
- Commissioners said kudos to staff for keeping recycling operations during pandemic. We are grateful.

Agenda Item 4 – Green Infrastructure

Sustainability Director Braden Kay said highlight actions are:

- International Green Construction Code (IGCC)
- Resilient energy hub work
- Envision Hub
- Transportation demand management postponed to June
- Green Infrastructure - the City of Tucson has been leading the way
- Interview from City of Tucson:
 - Using stormwater
 - Having a stormwater fee that pays for greener infrastructure
 - Sustainable & Livable Community Council group discussed
 - Council commission will be getting green infrastructure update from Tucson
 - Staff meeting to debrief
 - Grant Urban forestry - Fire Station #7
 - Green infrastructure pilot project Burchett park Mill Avenue
 - The kickoff event for cool kids program
 - Youth council and Sustainable & Livable Communities group and neighbors, will be putting in green infrastructure project
 - Third demonstration
 - Working towards addition funding for green infrastructure pilots
 - Green infrastructure masterplan
 - Need an engineering firm for outreach
 - Advancing green infrastructure standards

Agenda Item 5 – Highlight Actions Overview

Chair Jung asked for Commissioners to work on tracking and coordinating individual Highlight Actions. The following commissioners will work on the following highlight actions:

The following commissioners will work on the following highlight actions:

- Resilient Energy Hubs - Commissioners Reinhardt and Burke
- Transportation Demand Management (TDM) – Commissioner Russell
- IGCC/Green building code – Commissioners Kane and Burke
- Business Community – Commissioner Jahnke
- Climate Justice Group – Commissioner Brundiers
- Youth – Commissioners Melis and Milam-Edwards
- Council representatives – Chair Jung and Commissioner Melis
- Vice Chair Mores- Keep schedules on track

- Livable and Sustainable Communities council group – Commissioner Burke

Agenda Item 6 – Arizona Thrives

Arizona Thrives is a nonprofit that works with businesses, nonprofits and universities, spearheaded by the Nature Conservancy:

- Statewide vision for clean energy and transposition
- Tucson, Flagstaff, Phoenix
- Opportunity for Tempe to join
- Presented to the sustainable and livable committee
- Interest in bringing to council for approval

Chair Jung made a motion to submit a letter of support for AZ Thrives.

Motion: Chair Jung

Second: Commissioner Burke

Decision: Approved 8-0

Voted to Approve:

Kendon Jung (Chair)

John Kane

Barbie Burke

Sukki Jahnke

Gretchen Reinhardt

Katja Brundiers

Anna Melis

Steve Russell

Motion Passed 8-0.

Agenda Item 7 – Housekeeping

Chair Jung discussed State of the Neighborhood awards. Based on earth day, there are policy areas we need to make progress on.

Chair Jung recommended grouping highlight actions in a memo to council. Chair Jung will draft a memo and it can be discussed at the next meeting.

The sustainability office was making different arguments regarding how much money would save how much carbon for budget purposes. The calculations for municipal carbon is more accessible than community estimates. Council will be holding the next budget meeting on April 22nd.

Agenda Item 8 – Future Agenda Items

Keep Tempe Beautiful

20- minute City

Commissioner Burke made a motion to adjourn.

Motion: Commissioner Burke

Second: Commissioner Russell

Decision: Approved 8-0

Voted to Approve:

Kendon Jung (Chair)

John Kane

Barbie Burke

Sukki Jahnke

Gretchen Reinhardt

Katja Brundiers

Anna Melis

Steve Russell

Motion Passed 8-0.

The meeting was adjourned at 5:53 pm.

Prepared by: Ausette Anderies

Reviewed by: Grace DelMonte Kelly

TDM and TMA Plan & Mobility Hubs Plan

Sustainability Commission
May , 2021

Robert Yabes
Principal Planner
Engineering and Transportation



Agenda



- Overview

- Presentation

 - Transportation Demand Management


 - Transportation Management Association

 - Mobility Hubs

- Next Steps, Q&A



Sustainable Tempe

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



Quality of Life

3.26: Achieve a multimodal transportation system (20-minute city) where residents can walk, bicycle, or use public transit to meet all basic daily, non-work needs.

3.27: Achieve a Travel Time Index average at or below 1.25 along major streets during rush hour traffic with no individual segments exceeding 2.0.



Sustainable Growth & Development

4.18: Reduce community Greenhouse Gas (GHG) emissions by 80% of 2015 levels by 2050 and achieve community carbon neutrality by 2060.



● TDM & TMA Plan

- Transportation Demand Management (TDM) Evaluation & Plan
- Transportation Management Association (TMA) Evaluation & Plan

● Mobility Hubs Plan

- Active Transportation Trip Demand, System Potential, Hub Sites, Hub Amenities, and Hub Designs
- Draft and Final Plan

What do these projects accomplish?



- **Accomplish community sustainability goals and growth demands.**
- **Establish partnerships for private/public collaboration for transportation/mobility.**
- **Strategically assist at the scales between the Region and the Employment Site.**
 - **Transportation Demand Management (TDM)** – enhances system efficiency and promotes use of multi-modal investments.
 - **Transportation Management Associations (TMA)** – creates a forum for collaboration.
 - **Mobility Hubs** – provides the infrastructure for a variety of transportation choices.



TDM

Transportation Demand Management

TDM Defined



● **Transportation Demand Management (TDM)**

- Application of strategies aimed at improving efficiency and effectiveness of the transportation system
- Targeted policies focused on balancing land use and transportation

● **Results**

- Reduces travel demand, VMT and congestion (focuses on reducing single occupancy vehicle trips)
- Redistributes travel demand (routes and travel times)
- Provides travel choices and options
- Supports a healthier community
- Increases safety
- Improves air quality
- Provides healthy economic conditions
- Supports employers' recruitment/retention, sustainability and public relations goals

TDM Examples (infrastructure)



Public transportation



TDM Examples (infrastructure)



- Bicycle parking and support facilities (lockers, showers, repair)



TDM Examples (infrastructure)



Shared micro-mobility parking



TDM Examples (infrastructure)



- Car share parking (often with electric charging)



TDM Examples (infrastructure)



- Convenient passenger pick-up and drop-off



TDM Examples (infrastructure)



- Travel and trip planning information
- Comfortable waiting areas
- Wayfinding to surrounding destinations
- Kiosks, retail, mobile services, delivery lockers



TDM Examples (programs)



Incentives:

- Transit passes
- Rideshare programs
- Parking cash out
- Guaranteed ride home

Policies:

- Land use patterns
- Strategy compliance
- Enforcement
- Telework / Compressed Work Week / Flex Schedule

TDM Examples (scale of applications)



Context Considerations:

- Region*
- City
- Neighborhood, District, or Corridor
- Employment Site*
- Residential Site

* Existing TDM programs in the region

TDM Impact



TDM Strategies Have Impact

- National research shows that TDM strategies can reduce vehicle miles traveled by the following percentages*

*Based on data from the research report, "Quantifying Greenhouse Gas Mitigation Measures," by the California Air Pollution Control Officers Association. August 2010



MARKETING/EDUCATION
1% - 5%
Motivating people with information and incentives to modify travel behavior.



PARKING MANAGEMENT
2% - 7%
Managing parking supply and demand, encouraging turnover of parking spaces and use of other modes of travel.



CAR SHARING
1% - 2%
Using car-sharing services to easily rent a car only when you need one.



CARPPOOLING
1% - 15%
Encouraging and facilitating the sharing of rides. A vehicle is twice as efficient with two people in it!



TRANSIT SUBSIDIES
3% - 10%
Encouraging use of public transit with financial incentives.



VANPOOLS/SHUTTLES
1% - 13%
Sharing rides on steroids – great for longer commutes not served by public transit.



ORDINANCES
5% - 15%
Using policy to incorporate TDM strategies into developments and employer commute programs.



TELECOMMUTING
1% - 5%
Working from home takes away the dreaded commute entirely!



LAND USE
5% - 20%
Reducing the need to travel by vehicle through land use policy.

What TDM is About



- Shifting priority away from driving alone
- Collaborating with employers and residents
- Improving travel options
- Educating people about their travel options



TMA

Transportation Management Association
(a TDM strategy)

TMA Defined



Transportation Management Association (TMA)

- Provide the institutional framework
- Support for TDM programs and services
- Establishes public-private partnerships
- Can be custom-designed to local needs

Results

- Technical and policy resource
- Pool resources
- Commute strategist



TMA Example (community oriented)



abettercity.org/our-work/transportation-and-infrastructure/management-association/

HOME OUR WORK PUBLICATIONS NEWS & EVENTS ABOUT US JOIN US

TRANSPORTATION & INFRASTRUCTURE LAND USE & DEVELOPMENT ENVIRONMENT & ENERGY

TRANSPORTATION MANAGEMENT ASSOCIATION

- TRANSIT INFRASTRUCTURE
- HIGHWAYS AND ROADS
- FINANCE AND POLICY
- TRANSPORTATION DEMAND MANAGEMENT
- ▶ TRANSPORTATION MANAGEMENT ASSOCIATION

A Transportation Management Association (TMA) is a non-profit membership organization made up of employers, developers, and property managers working together to address transportation, air quality, and commuter issues in a defined geographic area.

WHY IT'S IMPORTANT

TMA services can help reduce the number of drive-alone commuters, minimize vehicle emissions, and improve access to transportation options.

Source: A Better City, Boston TMA

TMA Example (member led)



Quarterly meetings of the Board of Directors feature discussions on major issues concerning the business community and focus on A Better City priorities.

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AECOM

Tom Walsh
General Manager
Renaissance Boston
Waterfront Hotel

David Wilkinson
Senior Director
Tishman Speyer

Brent Zeigler
Divisional President/Director

Source: A Better City, Boston TMA

TMA Example (results focused)



FOCUS AREAS

Transportation & Infrastructure

Well-managed and funded regional transportation infrastructure is critical to economic vitality and growth. It is a top criteria considered when businesses and skilled workers make location decisions.

Land Use & Development

Strategies for land development, zoning, access, environmental regulations, and transit-oriented development support critical components of an integrated, effective approach to regional growth. Public realm enhancements and strategies that create high quality and vibrant street scenes.

Energy & Environment

A clean, reliable, and affordable energy supply is essential for long-term economic growth. Mitigating climate change and incorporating resilience into decision-making ensures lasting and competitive investments.



We employ technical expertise and research capabilities to develop solutions and amplify member voices by convening and building consensus among a broad range of stakeholders.

ACTIVITIES & INITIATIVES

- Conduct independent research and analysis that drives public-policy initiatives and infrastructure investments
- Develop consensus between the public and private sectors to foster the Boston region's economic competitiveness and growth
- Advocate for the business community to city and state agencies and legislators
- Engage a broad range of stakeholders to influence change
- Facilitate joint initiatives among our members to achieve mutual goals and strategic objectives
- Convene thought leaders from across the Boston region to educate, connect, and engage

WAYS TO ENGAGE

Advisory Committees: Advise, shape, and engage in developing the work plan and policy priorities for each focus area.

Working Groups: Collaborate with a small group of members to provide feedback and devise innovative solutions.

Member Engagement Events: Attend member-only topic-focused briefings to highlight major initiatives, policies, and innovations.

ADDITIONAL PROGRAMS

Transportation Management Associations

Promote commuter programs and services, develop commuter mobility strategies, and encourage sustainable transportation solutions to reduce congestion, provide climate mitigation and improve air quality in the Greater Boston region.

Seaport Leadership Group

The Seaport Leadership Group (SLG) includes a diverse array of stakeholders located in the South Boston Waterfront Seaport area, including major tenants, employers, and representatives of dozens of large and small businesses. The SLG's guiding principle is to advocate for and support the implementation of transportation systems and related public realm improvements in the Seaport district that serve employees of large and small businesses, residents, and visitors. The group also reviews climate resiliency strategies.

Emerging Leaders

An opportunity for young professionals from A Better City member companies to engage in programs related to transportation & infrastructure, land use & development and the energy & environment. Program participants are nominated by their company and attend events including speaker-orientated presentations featuring lead policy makers and experts from the business community, guided tours, and social events to encourage professional networking.

Greenway BID

The Greenway Business Improvement District (BID) is comprised of property owners abutting the Greenway Parks and is managed by A Better City. Together, the BID contributes to a portion of the park maintenance and horticulture costs, while also controlling funds for Greenway enhancement projects.



Mobility Hubs

(a TDM strategy)

Mobility Hubs Working Definition



- 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.



Five Mobility Hub Contexts to be Envisioned



- Gateways to major destinations/transit centers
- Neighborhood park locations
- Park and ride facilities
- Curbside locations
- Private developments

Five Mobility Hub Contexts to be Envisioned



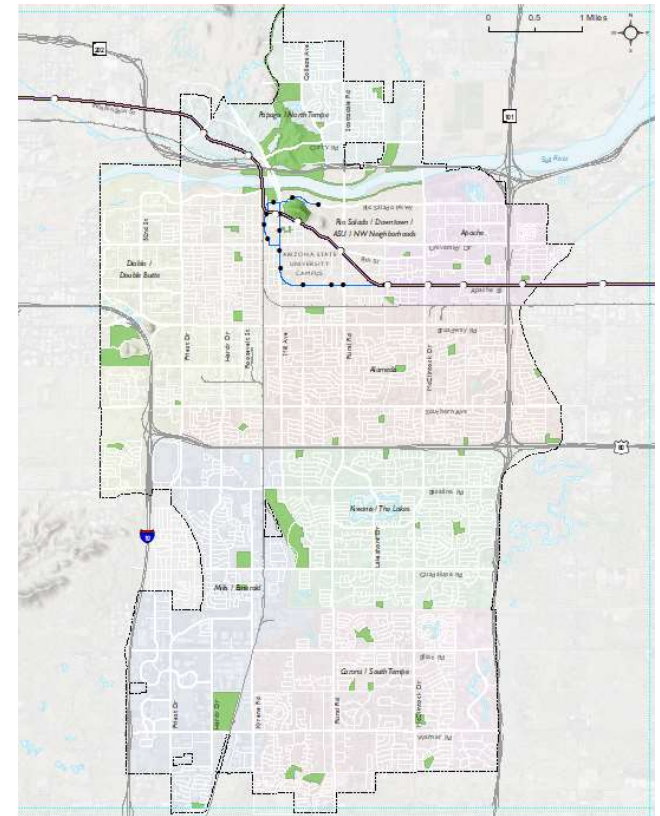
- Gateways to major destinations/transit centers



Five Mobility Hub Contexts to be Envisioned



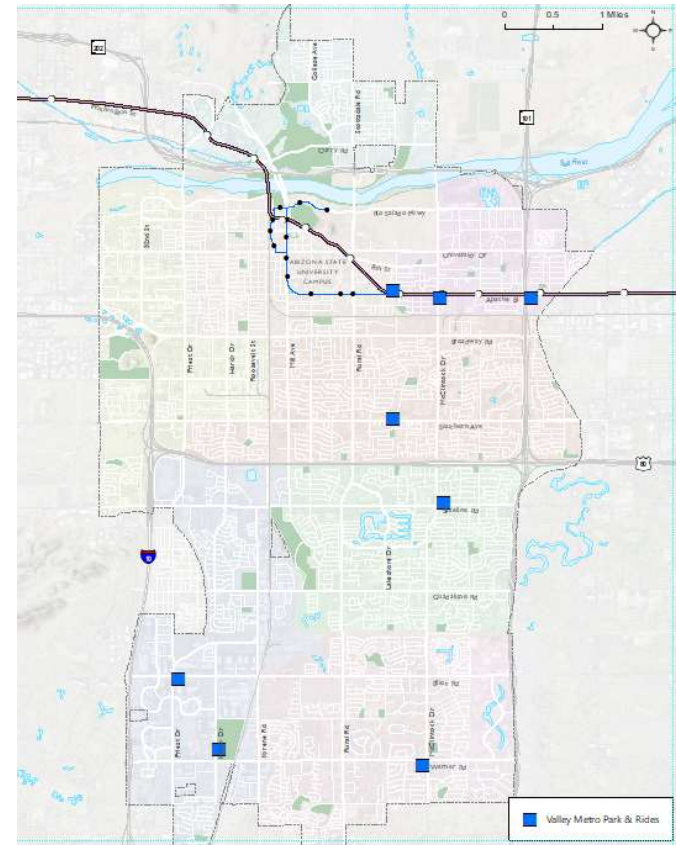
Neighborhood park locations



Five Mobility Hub Contexts to be Envisioned



Park and ride facilities



Five Mobility Hub Contexts to be Envisioned



● Curbside locations



Five Mobility Hub Contexts to be Envisioned



● Private developments





Next Steps

TDM, TMA and Mobility Hubs

PUBLIC MEETING



● **May 22, 2021 at 9:30 a.m.**

● **Join the meeting at tempe.webex.com**

● **Event number: 187 578 0828**

● **Event password: TIM**

● **Audio conference: To receive a call back, provide your phone number when you join the event, or call the number below and enter the access code. United States Toll +1-408-418-9388**

● **Access code: 187 578 0828**






● **May 26, 2021 at noon**


● **Available on Either Project Webpage**

www.tempe.gov/TDM or www.tempe.gov/mobilityhubs



May 26, 2021 at noon

-  **Join the meeting at tempe.webex.com**
-  **Event number: 187 004 9898**
-  **Event password: TIM**
-  **Audio conference: To receive a call back, provide your phone number when you join the event, or call the number below and enter the access code. United States Toll+1-408-418-9388**
-  **Access code: 187 004 9898**

-  **Available on Either Project Webpage**
www.tempe.gov/TDM or www.tempe.gov/mobilityhubs



● **Online Community Survey**

- Travel Behavior, Preferences, and Parking
- Locations and Destinations
- Programs and Amenities
- Demographic Data

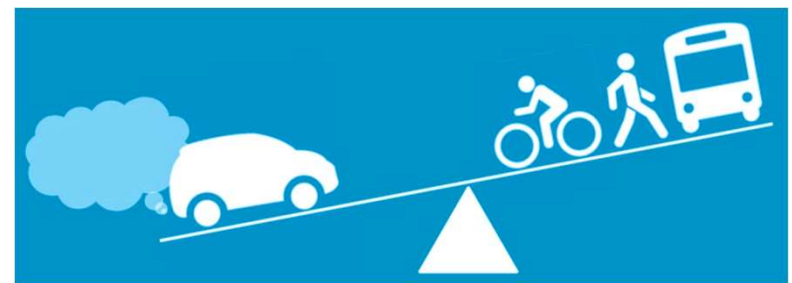
● **Available on Either Project Webpage**

www.tempe.gov/TDM or www.tempe.gov/mobilityhubs

Questions



- Shannon Scutari, Consultant, shannon@scutariandcompany.com
- Robert Yabes, Transportation Planning Manager, Robert_Yabes@tempe.gov
- www.tempe.gov/TDM
- www.tempe.gov/mobilityhubs



Source: Mobility Lab

The image features a central blue circle with the text "PROJECT SCHEDULE" in white, bold, uppercase letters. This circle is surrounded by a decorative border of concentric, wavy lines in shades of blue and yellow, creating a tunnel-like effect. The background outside the circle is white.

PROJECT SCHEDULE

Aligned Schedule



TDM & TMA

	1	2	3	4	5	6	7	8	9	10	11	12
Project Kick-off	█											
Background & Analysis	█	█	█	█								
Stakeholder & Public Engagement		█	█ ⊗	█	█ ⊗	█	█	█	█	█ ⊗	█ ⊗	█
Best Practices & Performance Metrics			█	█								
Goals & Objectives					█	█						
Strategy Options						█	█	█				
TDM Implementation & Monitoring Plan								█	█			
TMA Feasibility & Plan										█	█	█

Mobility Hubs

	1	2	3	4	5	6	7	8	9	10	11	12
Project Kick-off	█											
Stakeholder & Public Engagement		█	█ ⊗	█	█ ⊗	█	█	█	█	█ ⊗	█ ⊗	█
Data, Field Conditions, System Potential		█	█	█	█							
Identification of Mobility Hub Sites						█	█					
Menu of Mobility Hub Amenities								█	█			
Mobility Hub Concepts										█	█	
Draft and Final Plan												█

Memorandum

Date: May 13, 2021
Subject: Arizona Thrives Alliance
From: Sustainability Commission, City of Tempe
To: Mayor and Council, City of Tempe

The Sustainability Commission has learned of a growing initiative called the Arizona Thrives Alliance. Arizona Thrives unifies individuals, organizations, local and state government, small businesses and corporations around a common goal of a healthy and thriving Arizona environmentally, economically and in our communities. This initiative is charting a path forward, aligning strategies and efforts to transition from carbon-based fuels to clean energy, cleaning our air and enabling a booming economy.

Joining this alliance is in Tempe’s best interest. Working together we can attract more high-wage jobs, improve the air we breathe, reduce the impact of heat to improve the livability of communities, and sustain energy independence. 68 partners that have already joined the alliance including cities (e.g. Phoenix, Scottsdale, and M.A.G.), business advocacy groups, utilities (e.g. SRP and APS), education (all state universities and the Maricopa Community Colleges), and companies - just to name a few.

Joining this alliance aligns with Tempe’s goals. Like Tempe, Arizona Thrives seeks to achieve carbon neutrality by 2050. They also aim to meet the Clean Air Act quality standards through alternative transportation options; Tempe already embodies this goal via our 20 minute city initiative.

Joining this alliance embodies Tempe’s values. The alliance uses data and expertise to map a path of effective solutions that are integrated, durable, credible and actionable; tactics that Tempe is already very familiar with. The alliance also aims to ensure a process that values equity, access, and healthier communities and environment which is core to Tempe’s vision.

Joining this alliance comes at a critical junction. The pandemic has shown us that our most vulnerable populations are affected the most. The alliance strives to help Arizona recover faster, more secure, and get Arizonans back to work. The time is now. Arizona can thrive if we act now. We can attract more high-wage jobs, improve the air we breathe, and reduce the impact of heat and improve livability.

This is a solution created for Arizona, by Arizonans. No single entity can do this alone. Tempe should be part of this movement. The Sustainability Commission recommends and encourages Mayor and Council to sign the City of Tempe as an alliance partner.

- Sustainability Commission Members:**
- Commissioner John F. Kane
 - Commissioner Kendon Jung, M.Ed. (Chair)
 - Commissioner Anna Melis
 - Commissioner Ryan Mores (Vice Chair)
 - Commissioner Stephanie Milam-Edwards
 - Commissioner Katja Brundiars, Ph.D.
 - Commissioner Gretchen Reinhardt
 - Commissioner Barbie Burke
 - Commissioner Steven E. Russell
 - Commissioner Susan “Sukki” Jahnke

Staff Assisting the Commission Members: _____ Braden Kay, Sustainability Director
Grace DelMonte Kelly, Energy Management Coordinator

Memorandum

Date: May 13, 2021
Subject: EnVision Tempe - Resilience Hub
From: Sustainability Commission, City of Tempe
To: Mayor and Council, City of Tempe

The Sustainability Commission had the pleasure of [date] receiving a presentation from Levon Lamy regarding the EnVision Tempe - Resilience Hub demonstration project. We were inspired by the goals of this project and excited for the resources this project would create for Tempe residents. In addition, we were struck by how the values of this project mirror the values of the Tempe's Climate Action Plan, specifically the resilient energy hub highlight action.

Resilient energy hubs are fire stations, community centers, schools, and churches (etc.) that are outfitted with solar panels, battery storage, and other resilient technologies. In the event of an emergency that compromises the electric grid, these hubs will ensure that first responders and evacuees have access to electricity. Outfitting areas of first refuge with an independent energy source means Tempe residents will have a place to get cool on extremely hot days or in the event of a power outage.

Resilient Energy Hubs that run on stored solar energy will keep residents safe during heat and storm-related emergencies. Current energy policy is a barrier when installing solar on the community spaces that will serve as resilient energy hubs. By partnering with APS and SRP, the City of Tempe can seek to create an energy policy that uses renewable energy to keep Tempe residents cool and safe.

The EnVision Tempe - Resilience Hub currently embodies all of the characteristics of a resilient energy hub, minus the renewable energy. With this project in its early stages of development, it would be a fantastic opportunity to make the EnVision Tempe - Resilience Hub a Resilient Energy Hub too.

It is in this light that the Sustainability Commission enthusiastically recommends two motions. First, we submit this letter as support for the EnVision Tempe - Resilience Hub demonstration project. And second, we recommend that Tempe designates the EnVision Tempe - Resilience Hub a Resilient Energy Hub and ask Mayor and Council to request a partnership with Salt River Project (SRP) to bring this idea to fruition.

Sustainability Commission Members:

Commissioner Kendon Jung, M.Ed. (Chair)

Commissioner Ryan Mores (Vice Chair)

Commissioner Katja Brundiars, Ph.D.

Commissioner Barbie Burke

Commissioner Susan "Sukki" Jahnke

Commissioner John F. Kane

Commissioner Anna Melis

Commissioner Stephanie Milam-Edwards

Commissioner Gretchen Reinhardt

Commissioner Steven E. Russell

Staff Assisting the Commission Members:

Braden Kay, Sustainability Director

Grace DelMonte Kelly, Energy Management

Coordinator

Memorandum

Date: May 13, 2021

Subject: International Green Construction Code and Green Infrastructure

From: Sustainability Commission, City of Tempe

To: Mayor and Council, City of Tempe

On November 7, 2019, the Tempe Mayor and Council voted unanimously to adopt Tempe's first and Arizona's second Climate Action Plan. That was a historic moment for Tempe, marking our commitment and leadership to actively shape the future for Tempe. But more importantly, it set a precedent to the kind of community we wanted to be. The Climate Action Plan was a middle of the road plan that created the policy space for us to explore the things that were important to Tempe, like extreme heat, transportation, and energy; all the while elevating Tempe's leadership among our peers here in the Valley of the Sun. Tempe has passed the first Climate Action Plan in the valley, netted over \$2 million in sustainability grants, and collaborated in innovative ways to advance renewable energy in Tempe. We are moving the needle... in almost all areas.

Green Construction Code: The International Green Construction Code (IGCC) encourages more structural shade, more tree canopy coverage, and supports the use of smart surfaces and cool materials to keep the city cooler, day and night. Buildings constructed to the IGCC are more sustainable than buildings constructed under traditional codes. Tempe buildings should keep occupants and pedestrians cool.

Green Infrastructure Code and Standards (GI): Tempe can save water and cool the city by enhancing landscapes to capture more stormwater, while also growing more vegetation for shade and cooling. Design standards for GI and Low-Impact Development ensure cities and developers consider stormwater and urban cooling when creating the landscape of new developments, parks, and streetscapes. We've examined City of Tucson (the leader in this space) and believe that Tempe needs to catch up. Scottsdale and Phoenix have led an effort with ASU's Sustainable Cities Network to develop design standards for stormwater management to cultivate cool landscapes and urban shade. GI and Low-Impact Development Design Standards will save water and keep Tempe cool.

For about 36 months, the Sustainability Commission has been circling around these policy solutions and we need to see policy action now. We were there when they were under development in the Climate Action Plan. We have requested many presentations and extensively interviewed experts of these codes, including the City of Scottsdale and City of Phoenix. We have even tried to incorporate elements of the codes into height extensions as part of the Urban Core Master Plan. We have been dedicated to finding a solution.

Per the recommendation from staff on Monday, March 15, 2021, the Sustainability Commission recommends to Mayor and Council the following actions:

- Move forward with in-depth review/analysis of the 2018 IgCC and potential GI codes/standards.
- Work with our neighboring communities best practices for code holistic implementation.
- Adopt the IgCC and updates of GI code and standards for use as soon as possible.
- By the end of 2021, require all new city buildings and retrofits to adhere to the IgCC and GI.
- Early 2022, require all new city developments (i.e. parks/streetscapes) to adhere to IgCC and GI.

Memorandum Continued...

- By the end of 2022, integrate core elements of IgCC and GI code throughout the Urban Core Master Plan in addition to the density/height bonus criteria.

Tempe has been experiencing a massive economic boom, in part to the vision of this council many years ago. And the buildings that are being constructed now will be with us for many decades. While these recommended actions may seem aggressive, they have already been done in our neighboring communities, and adhere to all of the state legislation. We can not afford to lag any longer. Adopting IGCC in Tempe would guide new developments to provide shade, as well as using smart surfaces and cool materials to keep the city cooler, day and night. The GI and Low-Impact Development Design Standards will protect outdoor spaces in Tempe against extreme heat and floods, save water and keep Tempe cool.

We submit this memorandum in support of adopting the most recent International Green Construction Code and the Green Infrastructure Code.

Sustainability Commission Members:

Commissioner Kendon Jung, M.Ed. (Chair)
Commissioner Ryan Mores (Vice Chair)
Commissioner Katja Brundiers, Ph.D.
Commissioner Barbie Burke
Commissioner Susan “Sukki” Jahnke

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Staff Assisting the Commission Members:

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