# Tempe Adaptive Streets Implementation Design Guide

Tempe Council IRS August 25, 2022



## **Council Priorities**

**Quality of Life** 

### 3.26: 20 Minute City

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.

### 3.29: Transportation System Satisfaction

Achieve ratings of "Very Satisfied" or "Satisfied" with the "Overall Satisfaction with Transit System in Tempe" greater than or equal to 80% as measured by the City of Tempe Transit Survey.



- Provide an overview of the history and purpose of the Adaptive Streets Project
- Explain what adaptive streets are and provide examples
- **Outline** the Adaptive Streets Implementation Design Guide
- Identify next steps for the project











## **Tempe's Previous Successes**





An **adaptive street strategy** is a **change to the public right-of-way** (sidewalk, curb space, roadway, median) that:

- is implemented <u>temporarily</u> and relatively <u>quickly</u>
- includes a new feature that changes how <u>some/all of the right-of-way is used</u>
- is <u>location-specific</u> in response to a <u>community need</u>





- a project that permanently changes any aspect of the street
- a project that reduces safety or accessibility/ADA compliance of a public space
- a replacement for other established City programs/processes related to roadway construction or traffic mitigation/management

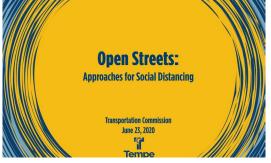
### **Background: The Open Streets Movement**

### Shift in what the community wanted or needed from public space

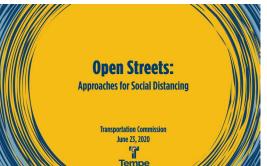
### Local governments responded ...in a short period of time

# 3 MINUTE PASSENGER LOAD ONLY

City of Tempe: June 2020 Transportation Commission Meeting – Open Streets as social distancing in response to COVID-19









### **Results of the Open Streets Movement**









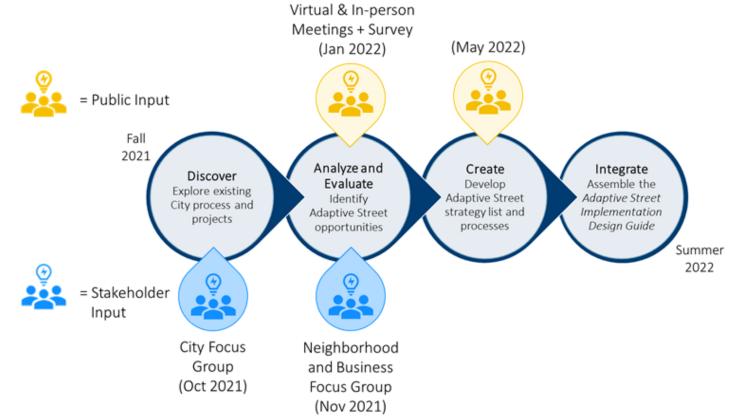






### **Project Process**









Timeframe	Activity
May 2022	Presentations to City Commissions
May/June 2022	Draft Adaptive Streets Implementation Design Guide and Public-Facing User Guide
June 2022	Complete Design Guide and Application Guidebook
July 2022	Initiate First Pilot Project (DTA + COT)
August 2022	Council IRS Presentation

11



- Adaptive Streets can support City's goals and initiatives
- Desire for placemaking and community in streets
- Need for a clear process and a faster process





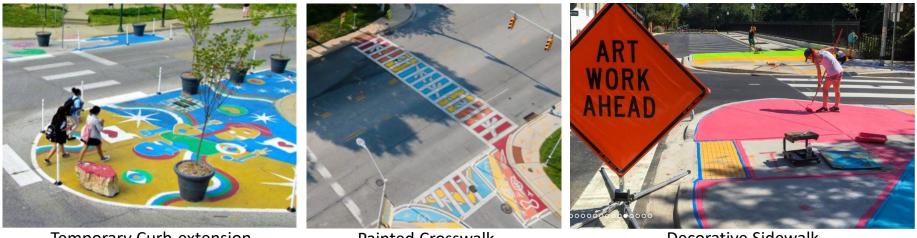








Need: enhanced pedestrian environment at an intersection



**Temporary Curb-extension** or Bulb-out

Painted Crosswalk

**Decorative Sidewalk** 



### • Need: more space to bike



Parklet for bike parking

Temporary Shared/Open Street: local vehicles allowed; street is open to pedestrians and bicyclists

Alternative Curbside Use for temporary protected bike lane



10



### • Need: enhanced environment for transit riders



Temporary Shade along pedestrian waiting areas

Decorative Sidewalk at transit stops

Alternative Curbside Use for temporary dedicated transit lanes or separated transit stop

# ſ

### • Need: more room for outdoor business or community use



Alternative Curbside Use for dining or gathering



### Parklet for greenscape or shade





Alternative Curbside Use for retail or community space



### Need: placemaking



Decorative Sidewalk with temporary wayfinding

**Painted Roadway** 

Painted Intersection



# **Proposed Implementation Process**

### Internal City Processes

Fielding adaptive street applications
Design review process/City Traffic Engineer Approval

## Public Processes

- Using the Design Guide
- Following the Application process
- Identifying project funding opportunities
  - Self funding (Applicant can partner with businesses, non-profits, etc.)
  - Potential city grants (Transit Program/Transit Fund, Neighborhood Services)



### **Painted Pavements**



### How Painted Pavements Work

Painted pavements includes mural projects on paved surfaces at street-level (i.e., not sidewalks) such as intersections, crosswalks, cul-de-sacs and other roadway surfaces. A painted pavement project may be as large as an intersection or even an entire block, depending on the goal of the project and the surrounding land use, and they are a great way to add beauty and create community identity through placemaking.

### Where Painted Pavements Work Best

Streets with speed limits of less than 40mph

Streets with no more than four travel lanes

 For painted intersections, crosswalks or cub-extensions, prioritize locations where there is an existing stop-controlled intersection or where a vehicle is already required to stop due to a stop sign, traffic signal, or pedestrian crossing

### Starting The Process

1

Review the City's guidelines for painted pavements in the Adaptive Street Design Guide to make sure the proposed location meets criteria

Reach out to neighbors to gather feedback and gain support for the adaptive street project

Reach out to potential artists on the City of Tempe's approved list of artists to work through design concepts and costs.

If approved, apply for a barricade permit allowing for temporary closure during the painting of the pavement.

### **Design Considerations**

 Pavement to be painted must be in good condition and free of potholes, large cracks, or breaks.

 Design can not infringe upon or mimic official existing street markings or traffic control devices (i.e. white or yellow striping or markings).

 A combination of the design and materials should ensure a non-slip surface that allows for adequate roadway grip.

 Design can not use copyrighted materials without permission and can not include insensitive words, logos, or imagery.

 Freshly paved areas will absorb more paint. Make sure to account for extra layers of paint if painting over a recently paved surface.

Enhanced Pedestrian Environment

- Decorative Sidewalks (paint, wayfinding 'stickers')
- Painted Crosswalk
- Decorative Curb Extension/Bulb-Out
- Painted Pavements (mid-street murals, cul-de-sacs, intersections)
- Temporary Shade (sidewalks, ped waiting areas)
- Parklets (bike parking, shade, seating, dining)
- Alternative Curbside Use (walking, biking, transit, dining/retail)
- Open/Shared Street

# Adaptive Street Design Guide + Public User Application Guidebook



· Your Street must have a speed limit less

· Best suited for streets that already have

Can be used on residential or commercial

high amounts of walking, such as near

emergency vehicles or block access to

· Any curb extensions must still allow a

· Curb extensions must maintain ADA

· Curb extensions must not impede

streets but recommended for streets with

then 40mph

cross walks

schools

fire hydrants

truck to turn

access

# **Questions**?









Bonnie Richardson City of Tempe Project Manager bonnie richardson@tempe.gov

Amy Garinger, AICP Kimley-Horn amy.garinger@kimley-horn.com

> Eileen O. Yazzie Y2K Engineering LLC eyazzie@y2keng.com