Pedestrian Wayfinding App:

Presentation to SacDOT;

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Slide 1 features a woman with a backpack, her back turned as she walks onward in the middle of a bustling city. She is on a median designed for pedestrians and cyclists, with cars traveling on both sides of the street.

# Slide 2: Project Background:

A man is seen walking on the side of a road, where sidewalk is obstructed due to an ongoing construction.

NEED FOR WAYFINDING:

* Sacramento County Disability Advisory Commission comment on the Active Transportation Plan. (2022.)
* Transportation Research Board, Innovations Deserving Exploratory Analysis Programs. (I-D-E-A or IDEA.)
* Input from Age Friendly Communities Committee.
* ADA Transition Plan. (2019.)

# Slide 3: Ped Wayfinding App:

A pair of hands is shown using a smartphone.

NATION FIRST PILOT AT COMMUNITY SCALE:

* Real time directions for walking and rolling, customized to the individual’s mobility needs, along the sidewalk network.
* Advance information on slope, presence of sidewalk, location of curb ramps, tripping hazards, and major obstructions.
* Crowdsourcing: users can report temporary obstacles, such as construction.
* Extend pedestrian minimum green time. (at selected major roadways.)
* Integrates with General Transit Feed Specification. (G-T-F-S.)

# Slide 4: Technology Vendors:

The background of Slide 4 is a Silicon circuit board.

## pathVu:

* US DOT Final Report: Development of pathVu Navigation app and API. (Link: <https://rosap.ntl.bts.gov/view/dot/55240/dot_55240_DS1.pdf>)
* Transportation Research Board IDEA Project Report: Development of a web version of a pedestrian navigation app. (Link: <https://onlinepubs.trb.org/onlinepubs/IDEA/FinalReports/Transit/Transit87.pdf>)

## Carnegie Mellon University:

* “Creating and Integrating Solutions to Enable the ‘Complete Trip’”, Final Research Report, Mobility21 University Transportation Center, January, 2023. (Link: <https://rosap.ntl.bts.gov/view/dot/66123>)
* “Technology to Make Signalized Intersections Safer for Pedestrians with Disabilities”, Public Roads, 84(4): 17-21, Winter, 2021. (Link: <https://highways.dot.gov/public-roads/winter-2021/technology-make-signalized-intersections-safer-pedestrians-disabilities>)

# Slide 5: Benefits:

Slide 5 shows a group of six senior citizens—or 3 couples—with trees and sunshine in the background. One is using a walker while their partner stands beside them, one is on a wheelchair getting pushed by their partner, and the last pair is using canes. They are all looking up in a hopeful manner while laughing and smiling.

With better, more reliable wayfinding information for pedestrians, seniors and people with disabilities will be able to reach community destinations and gain exercise.

# Slide 6: Community Engagement:

Slide 6 features a healthcare worker showing an elderly patient how to navigate a smartphone.

SENIORS AND PEOPLE WITH DISABILITIES:

* Pre- and post-pilot focus groups with residents, disability advocacy groups, and senior citizen groups.
* Distribution of information on low cost smartphones.
* Utility flyers and radio ads.
* Orientation mobility specialist.

# Slide 7: Deployment Location:

Environmental Justice Communities in Sacramento County.

A map of Sacramento County is shown, with the boundaries of each Environmental Justice Community highlighted in blue: North Highlands, West Arden-Arcade, South Sacramento, North Vineyard.

# Slide 8: Schedule:

On slide 8, a man who is blind is featured, sporting a fedora hat. He is also wearing protective sunglasses, and is leaning on a white cane with a wide smile on his face.

## Table 01: FEDERAL APPROPRIATIONS F Y 24:

The target date of task completion will be listed first, followed by the task name, and its expected duration.

1. April 2024:
   * App Development.
   * 1 year.
2. April 2025:
   * Install Infrastructure on Arden Way.
   * 2 months.
3. June 2025:
   * Technology Evaluation.
   * 3 months.
4. July 2025:
   * Outreach.
   * 2.5 years.
5. Sep 2025:
   * Technology Acceptance; Launch in App Stores.
   * Milestone.
6. June 2027:
   * Evaluation Study.
   * 1 month.

# Slide 9: Draft Budget & Funding:

## Table 02: Draft Budget:

The task will be listed first, followed by the organization/s that will carry out the task, and the cost for each.

1. App development and technology evaluation:
   * pathVu and Carnegie Mellon University.
   * $645,000.
2. Installation and maintenance of infrastructure; evaluation study; outreach:
   * SacDOT and contractors.
   * $105,000.

The total cost of the technology pilot is $750,000.

## Funding Sources:

* Congressional Representatives - Federal Appropriations F Y 24.
* US DOT RAISE.
* US DOT Safe Streets and Roads for All.
* FTA Innovative Coordinated Access and Mobility.
* US DOT SMART Program.

# Slide 10: Thank you!

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This last slide features word art on a sidewalk, drawn in chalk. Inside a speech bubble is the phrase, “Thank you!”

End of Pedestrian Wayfinding App Presentation.