PEDESTRIAN WAYFINDING APP

Presentation to SacDOT
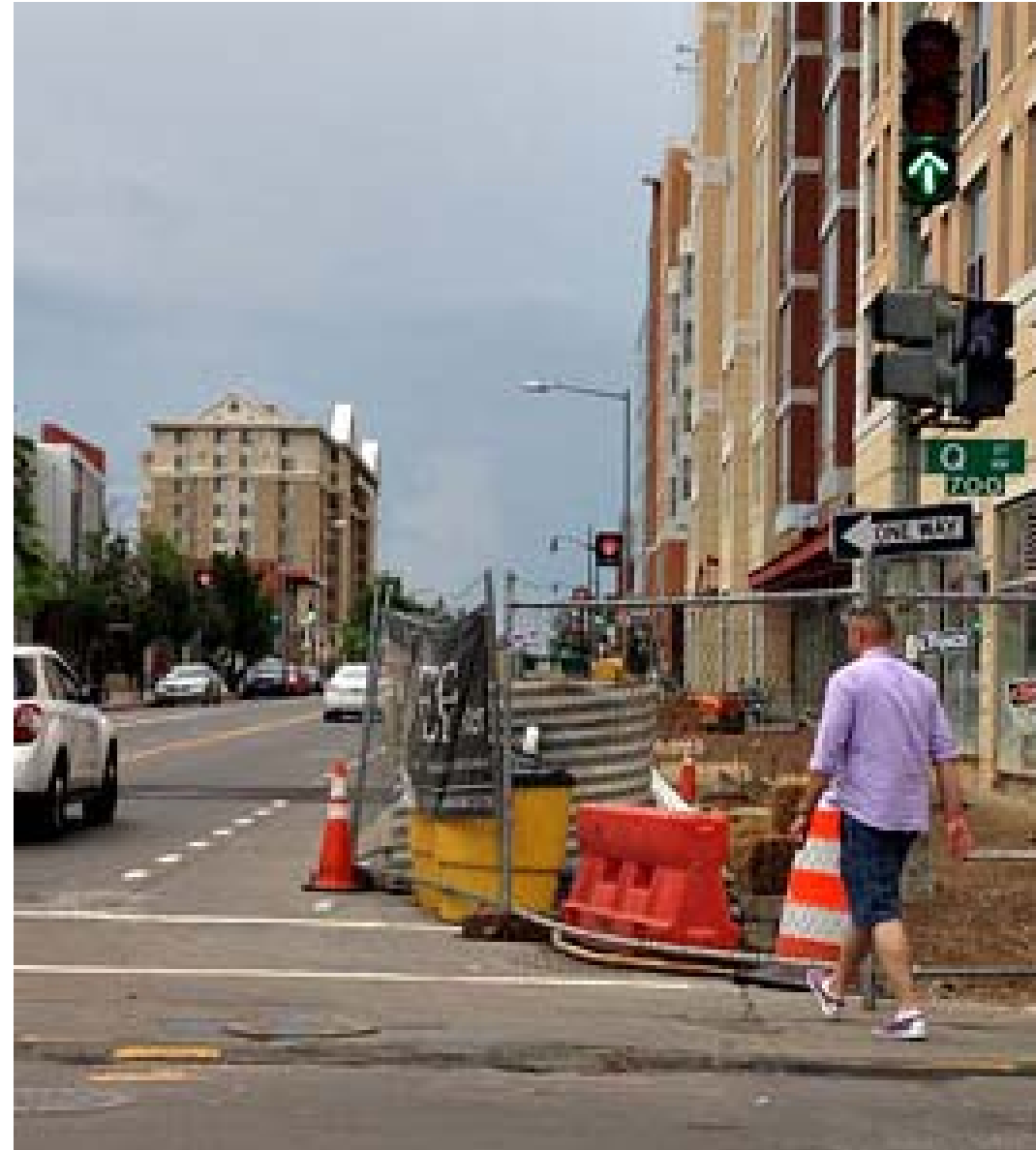Mikki McDaniel, Senior Planner
March 21, 2023

PROJECT BACKGROUND

NEED FOR WAYFINDING

- Sacramento County Disability Advisory Commission comment on the Active Transportation Plan (2022)

- Transportation Research Board, Innovations Deserving Exploratory Analysis Programs (IDEA)

- Input from Age Friendly Communities Committee

- ADA Transition Plan (2019)

PED WAYFINDING APP

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 (GTFS)

TECHNOLOGY VENDORS

+ pathVu

- USDOT Final Report: Development of pathVu Navigation app and API
- Transportation Research Board IDEA Project Report: Development of a web version of a pedestrian navigation app

+ Carnegie Mellon University

- "Creating and Integrating Solutions to Enable the 'Complete Trip'", Final Research Report, Mobility21 University Transportation Center, January, 2023
- "Technology to Make Signalized Intersections Safer for Pedestrians with Disabilities", Public Roads, 84(4): 17-21, Winter, 2021
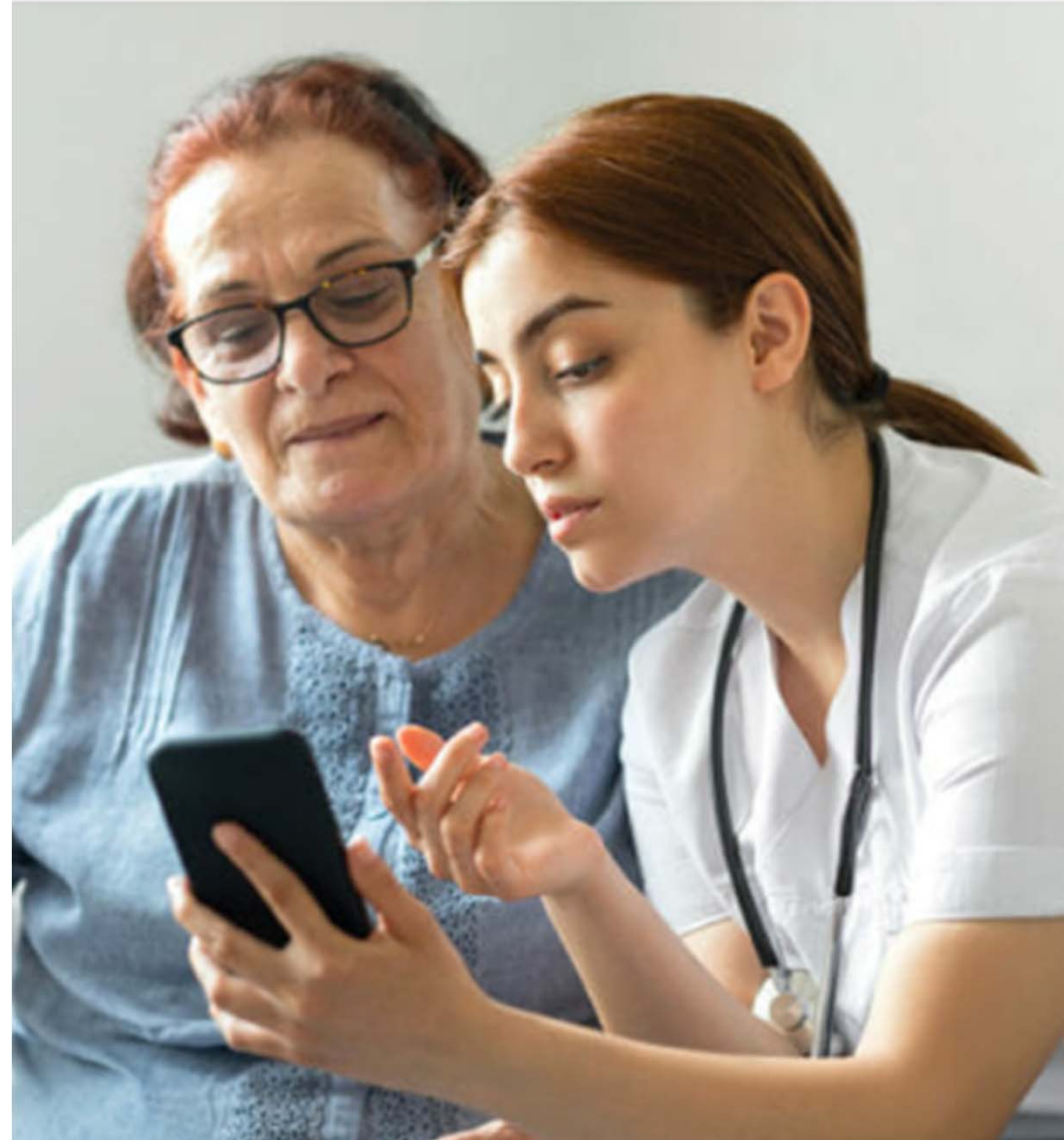
BENEFITS

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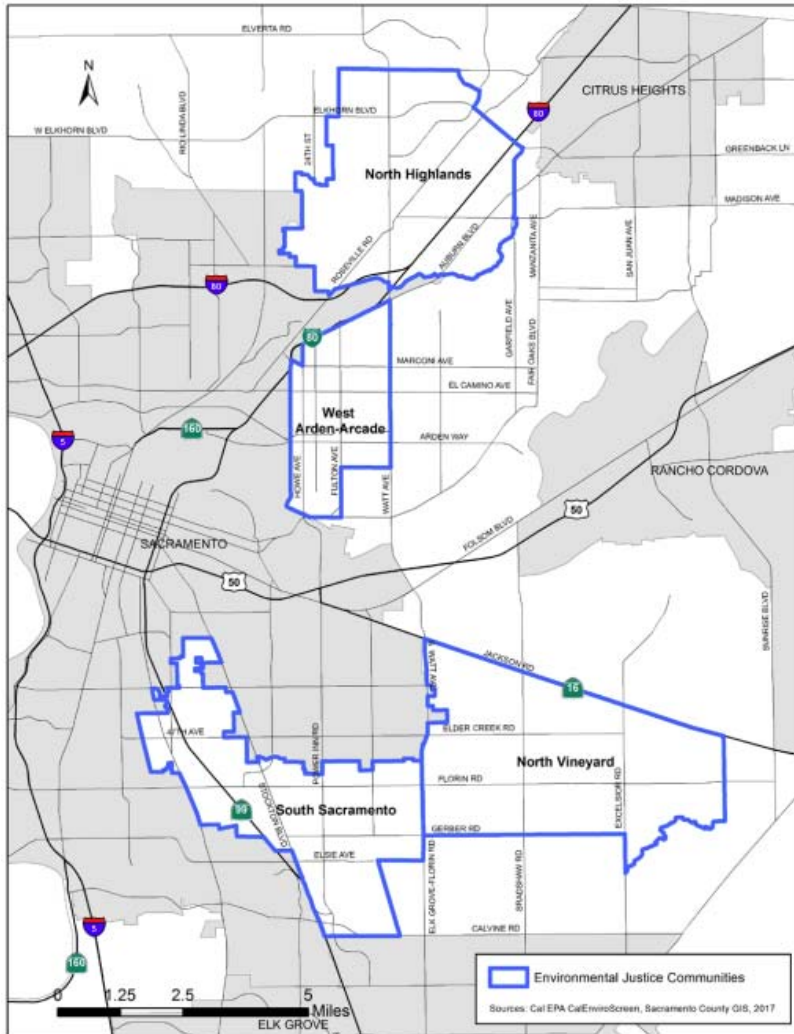
COMMUNITY ENGAGEMENT

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

DEPLOYMENT LOCATION

Environmental Justice Communities in Sacramento County

SCHEDULE

FEDERAL APPROPRIATIONS FY24

Date	Task	Duration
April 2024	App Development	1 year
April 2025	Install Infrastructure on Arden Way	2 months
June 2025	Technology Evaluation	3 months
July 2025	Outreach	2.5 years
Sep 2025	Technology Acceptance; Launch in App Stores	Milestone
June 2027	Evaluation Study	1 month

DRAFT BUDGET & FUNDING

TASK	ORGANIZATION	COST
App development and technology evaluation	pathVu and Carnegie Mellon University	$645,000
Installation and maintenance of infrastructure; evaluation study; outreach	SacDOT and contractors	$105,000
	Total	**$750,000**

- Congressional Representatives - Federal Appropriations FY 24

- USDOT RAISE

- USDOT Safe Streets and Roads for All

- FTA Innovative Coordinated Access and Mobility

- USDOT SMART Program

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