



AGENDA REPORT

City Council

DATE:	December 19, 2023
TO:	Mayor Martinez and Members of the City Council
FROM:	Councilmember Cesar Zepeda and Councilmember Claudia Jimenez
Subject:	Feasibility Study of Dynamic Personal Micro Transit System to Connect West County Cities to Local Transportation Hubs.
FINANCIAL IMPACT:	The fiscal impact has not been determined. Staff will provide a cost analysis when the item is brought back to the City Council for a budget allocation.
PREVIOUS COUNCIL ACTION:	The City Council has approved projects that assist riders with connecting the first and last mile of their transportation needs.
STATEMENT OF THE ISSUE:	Public transportation users in Richmond and neighboring cities would benefit from additional options to complete the first and last mile to and from their transportation destination. Dynamic Personal Micro Transit Systems can assist with connecting users to destinations and create opportunities with neighboring cities.
RECOMMENDED ACTION:	DIRECT staff to conduct a Feasibility Study for implementation of a Dynamic Personal Micro Transit (DPMT) system to connect the Richmond Ferry Terminal, BART, and Hilltop Mall – Councilmember Zepeda (510-620-6593) and Councilmember Jimenez (510-620-6565).

DISCUSSION:

Public transportation is a necessity for many residents. Gaps within the first and last mile are an issue that we continue to look for viable solutions. Micro mobility systems could provide and create partnering opportunities with neighboring cities to connect

West County cities to the Richmond Ferry, Richmond BART, Hilltop, and other transit deserts in Richmond.

The goals of the project are to complement fixed route transit service, close gaps in the first-mile-last-mile services, reduce congestion and greenhouse gas emissions, increase safety, spur economic development, and provide equitable transportation access for all our residents.

BACKGROUND

In the fall of 2020, the Cities of Antioch, Brentwood, Oakley, and Pittsburg partnered with Glydways LLC to complete the East Contra Costa County DPMT Feasibility Study (Study) to support potential deployment of the system in the region. The cost of the Study was \$80,000.

The Study ultimately concluded that DPMT is feasible to deploy in the East County with the following potential benefits:

- Support economic development and create jobs
- Congestion relief by way of converting vehicle trips to transit trips
- Increased transit access for underserved communities
- Cost effective and scalable solution
- Environmentally sustainable solution
- Speedy deployment delivered through public/private partnership (P3) in a Design Build Finance Operate Maintain (DBFOM) environment

In spring 2021, the East County cities each adopted a resolution of support for the project with a recommendation that implementation of the DPMT Project be further explored. Subsequently, Contra Costa Transportation Authority (CCTA) and Eastern Contra Costa County Transit Authority (Tri Delta), collectively referred to as the 'Authorities' have signed a Memorandum of Understanding to partner to deliver the project. In early 2022, the Authorities held an Industry Outreach to gauge industry interest in, and the potential to deliver a viable project. Following this extensive outreach, a P3 public procurement process was initiated in November 2022. The Authorities ultimately selected the East County Connection Partners (ECCP) developer team using the Glydways technology to advance the DPMT project in East Contra Costa County.

Staff is encouraged by the Study findings and the advancement of the East County project and proposes to conduct a similar feasibility study on a conceptual alignment that connects the Richmond Ferry Terminal and BART, with Hilltop Mall.

City staff has met with Glydways to review the system technology and recommends exploring the viability of this service and it is our belief that investments in this innovative initiative will help complement fixed route transit service, reduce congestion and greenhouse gas emissions, increase safety, spur economic development, and provide equitable transportation access for all our residents.

Proposed Outline of DPMT Feasibility Study

Executive Summary

Introduction

The purpose of the Study

Goals and Objectives

Context and Technology Feasibility

Technology Options

Concept of Operation

System Requirement

Potential Benefits

Concept Design

Technology Evaluation

Evaluation Criteria

Planning and Programming

Conceptual Design

System Infrastructure

Environmental Constraints

System Implementation

Operation and Maintenance

Travel Demand Forecasting

Cost Comparison

Cost Benefit and ROI

Technical Issues

Institutional and Societal Issues

Risk Analysis

Evaluation Criteria Matrix

Feasibility of Business Case

Revenue Model

Model Deployment

Capital Cost Estimate

Potential Business Models

Conclusion and Recommendations and Next Steps

DOCUMENTS ATTACHED:

None