ALAMEDA COUNTY TRANSPORTATION COMMISSION
New Mobility Framework

A Presentation to ACTAC
June 4, 2020

Presentation Overview

- Background
- Key Outcomes of the Framework
- New Mobility Goals
- Example Smart Strategies
- Next Steps

New Mobility Framework

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Background

- The New Mobility Framework is being developed to facilitate implementation of emerging transportation technologies and services in Alameda County.

- The Framework constitutes the technology policy element of the 2020 Countywide Transportation Plan.

- Development of the Framework is being guided by a Technology Working Group (TWG) comprised of members of local jurisdictions from each Planning Area and transit agencies.

Key Outcomes of the Framework

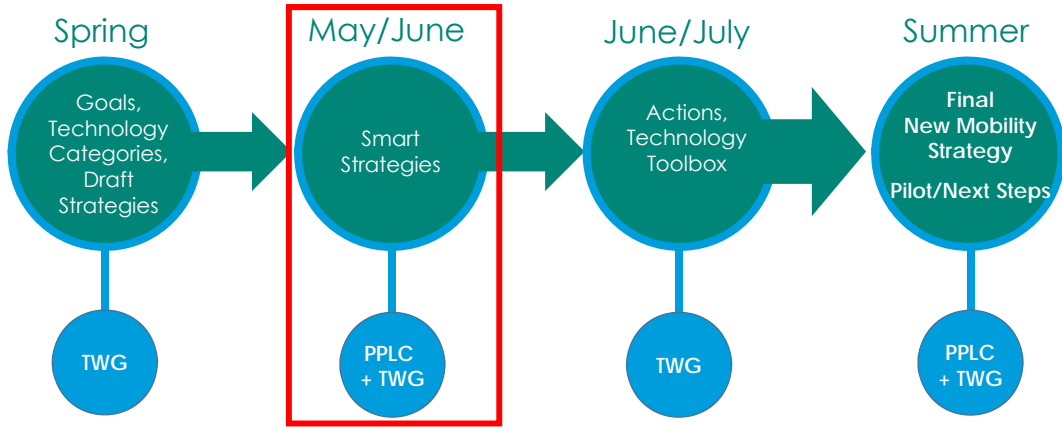**How will Alameda CTC use this Framework?**

- Inform agency work plan
- Resource for jurisdictions and agencies
- Guidance and coordination on technology-related issues

What are key outcomes of the framework?

- A consolidated set of strategies for addressing new mobility
- A catalogue of actions to consider for implementing the strategies
- Additional resources for technology implementation and planning

Framework Schedule

Spring	May/June	June/July	Summer
Goals, Technology Categories, Draft Strategies	Smart Strategies	Actions, Technology Toolbox	Final New Mobility Strategy / Pilot/Next Steps
TWG	PPLC + TWG	TWG	PPLC + TWG

Framework Elements

Goals
(Countywide Plans)

Technology Categories

Strategies
(Opportunities & Risks)

Desirable outcome

Multimodal & High Occupancy
Safety
Environment
Equity & Accessibility
Service Quality
Cost-efficiency
Connectivity
Economy
Data-sharing & Security

Connected
Electric
Shared
Autonomous
Data

Actions
Policies
Programs
Projects

New Mobility Goal	Goal Statement
Multimodal and High-occupancy	Complement public transit and shared trips, and support active transportation, by providing convenient travel options while considering the urban, suburban and rural contexts of Alameda County.
Safety	Improve traveler safety and reduce conflicts between modes.
Environment	Support system and environmental sustainability, promote convenient non-auto modes, and reduce vehicle miles traveled.
Equity and Accessibility	Be easily and equitably accessible to all travelers, including disadvantaged populations.
Service Quality	Support and complement convenient and reliable public transit options and offer high quality travel options.

New Mobility Goal	Goal Statement
Cost-efficiency	Promote a positive fiscal impact on infrastructure investments and delivery of publicly-provided transportation services
Connectivity	Improve connections across jurisdictions, offer seamless connectivity through improved modal transfers, and better connect and integrate land use, housing, jobs and transportation.
Economy	Support vibrant communities and engage in fair labor practices.
Data Sharing and Security	Engage and collaborate to share all relevant data to improve the transportation system and agency efficiency, and protect the traveling public and infrastructure from cyber security threats.

Smart Strategies

Our approach for advancing the goals

Smart Strategy: Broad approaches to address the anticipated opportunities and risks posed by the new mobility technologies and services.

Opportunity ←————————————→ **Risk**

| Promote the opportunities brought by advances in technology and mobility | Mitigate the risks associated with advances in technology and mobility |

Smart Strategies

Our approach for addressing the goals

- Strategies are outcome oriented.
- Strategies build on CTP work, and were developed to support identified goals.
- Most strategies will address more than one goal (cross-cutting).
- Each strategy will be supported by a series of **actions** (policies, programs, or projects) that will lead to the realization of the strategy.

Example Smart Strategy

Goal: Multimodal and High Occupancy

Use advances in technology to improve the effectiveness, affordability, and ease of access to transit

Image source: Alameda-Contra Costa Transit District - https://www.flickr.com/photos/rideact/14945660687/, CC BY-SA 2.0,

Example Smart Strategy

Goal: Safety

Ensure new mobility services and technologies are safe for travelers and all other users of the right of way

Example Smart Strategy

Goal: Environment

Promote the electrification of the vehicle fleet

Example Smart Strategy

Goal: Cost-Efficiency

Maximize utility of existing infrastructure

Example Smart Strategy

Goal: Connectivity

Facilitate communication, agreements, and partnership between agencies and jurisdictions operating within the county

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New Mobility Goals	
Multimodal and High-occupancy	Cost-efficiency
Safety	Connectivity
Environment	Economy
Equity and Accessibility	Data Sharing and Security
Service Quality	

Next Steps

What will happen next?

- Work with TWG to finalize strategies
- Develop actions (policies, programs, projects/pilots) to support the strategies
- Develop a "toolkit" of best practices for member communities and agencies to use when implementing technology projects
- Bring to Commission in the fall

Questions?

Backup Slides

Actions

- Policies, programs, or projects that are intended to support the identified strategies

- Actions generated through "strategy-down" and "action-up" approach

- Each action will have a timeframe, implementation role and responsibility, and a description of how the action supports the strategy(s)

Example: **Electrification**

Goals

Strategies

Environment

Cost-Efficiency

» Promote the electrification of the vehicle fleet

» Maximize utility of existing infrastructure

» Identify infrastructure risks brought by advances in new mobility and technology

» Consistent infrastructure standards across communities

Electrification Strategy — Action

Connected
Electric — **Technology Category**

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Example: **Mobility Hub**

Goals

Strategies

Multimodal and High Occupancy

Connectivity
Economy

» Better connect travelers to transit

» Promote a full mobility ecosystem

» Improve access to transit

» Promote frictionless mobility

» Provide better level of service, experience, and reduced cost for transit passengers

» Create agility and flexibility in using of new technologies

Mobility Hub — Action

Connected
Shared
Electric — **Technology Category**

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