

## Agenda for Today's Discussion

- Summary of Needs Assessment
- Summary of Strategies to be Evaluated for the Countywide Goods Movement Plan
  - Strategies are projects, programs, and policies
- Action Recommendation to Commission to Approve the List of Strategies to be Evaluated
  - The results of evaluation will be used to inform selection of strategies that will be included in the Plan after consultation with Stakeholders, Technical Team, and Executive Team

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### Purpose of Needs Assessment

Evaluate the existing and future conditions of freight assets against goals and performance measures (established in prior tasks)

Identify gaps, issues and opportunities for each functional element based on performance measure ratings

Help **develop** strategies to meet performance goals

Strategies will be evaluated against all performance measures and all goals should be met through "balanced portfolio" of strategies

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### Linking Needs and Strategies

- Develop strategies to meet goals for any functional elements that need improvement based on performance measure evaluation in needs assessment
- Develop combinations of strategies to pursue opportunities
- Strategies will be evaluated against ALL performance measures
  - If a strategy makes performance better in one area but worse in another additional strategies will be incorporated in plan to "balance portfolio"

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### Getting the Most Out of Goods Movement - Opportunities

- Goods Movement to Support Emerging Industries (biotech, artisanal foods, clean energy & transportation, advanced manufacturing, recycled materials)
- E-Commerce and Advanced Retail Distribution capture valueadded economic activity; best practices for addressing neighborhood & commercial center impacts
- Goods Movement Workforce Development key source of job diversity; need to focus on access to jobs for impacted communities
- Bulk Exports and Expanded Rail Services growth in bulk exports; state and national priority; increased demand on rail corridors
- National Model of Sustainable Goods Movement System

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### Aligning Strategies with Federal, State, Local Priorities



#### Global Gateways Issues

- Global gateways are seaports and airports handling international trade.
- Alameda County Gateways are critical and unique national asset – 5<sup>th</sup> largest container port, West Coast e-commerce hub, high value export gateways



### Interregional and Intraregional Highway and Rail Corridors Issues

- Interregional corridors link Alameda County and the Bay Area with domestic markets
- Alameda Highway corridors are significant in National Priority Freight Network and rail lines are part of State's Tier 1 system



#### **Local Streets and Roads Issues**

- Local streets and roads are first and last-mile link to goods movement system.
- National Freight Advisory Committee recommended more attention on last-mile connectors and CA FMP identified freight and Complete Streets as an emerging need.

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### Cross-Cutting Issues • Air quality and public

- Air quality and public health
- Industrial land supply
- Alameda County can play a national leadership role while addressing critical local needs and building a strong economy



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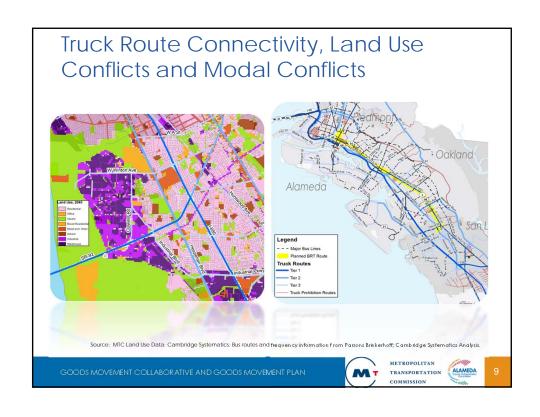
# Needs Assessment and Strategies Summary Local Streets and Roads

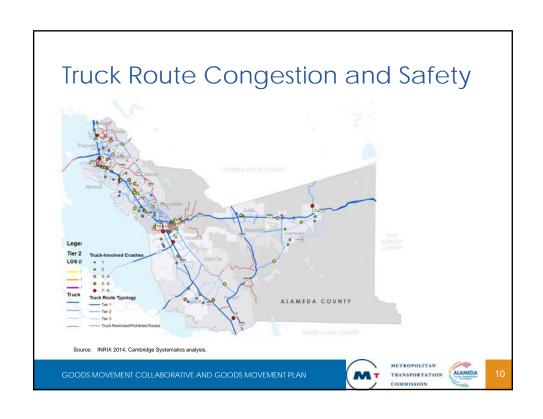
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### Truck Parking Issues



Port-related parking in West Oakland



Corridor parking for long haul





Urban delivery parking

Corridor parking photo: http://www.gonewiththewynns.com/free-camp-walmart: Urban Delivery photo: NACTO Webinar, Freight Considerations in World Class Street Design, Stacey Hodge, March 13, 2014

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### Summary of Local Street and Roads Strategies

#### Truck route connectivity and conflicts

- Complete Streets and truck route planning guidance
- Night delivery pilots and time of day management of truck routes
- Bike an pedestrian separations on truck routes
- Revisit overweight network needs Oakland/San Leandro
- Land use buffers and industrial land use planning guidance

#### Truck route performance (congestion and safety)

- Signal timing improvements and signal prioritization for trucks
- Ramp metering
- Turns pockets, intersection geometric improvements, freeway ramp improvements
- Selective arterial widening
- Smart arterial corridors coordinated with freeway ITS

#### Iruck Parking

- Re-examine locations and strategies for I-880 corridor public truck parking from 2008 analysis
- Monitor implementation of OAB truck parking provisions

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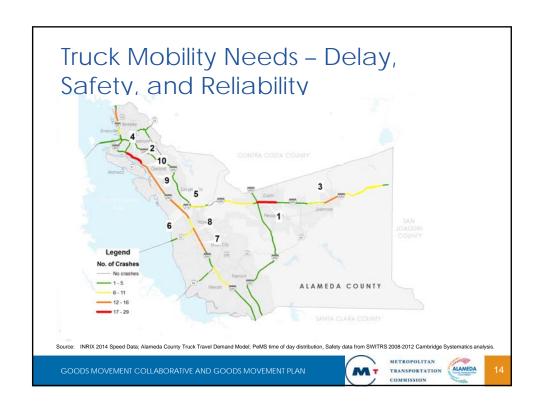


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# Needs Assessment and Strategies **Summary** Interregional and Intraregional Highway Corridors





## Summary of Inter-Regional and Intra-Regional Highway Strategies

- Selective lane widening/additions
- Expand truck uses on highways managed lanes/shared use of HOT/HOV lanes, outside commute
- Expanded aux lanes to help eliminate bottlenecks
- •Truck-only lanes (potential on I-580 and I-880)
- Reduce or eliminate freeway truck restrictions
- Expanded domestic intermodal capacity in Alameda County and long-term development of alternate modes (e.g., short haul rail)

- •Interchange operations (geometrics, aux lanes, lengthen merge sections)
- Truck interchange bypasses
- $\bullet \textbf{Selective use of center lanes for trucks (potential off-peak use of HOV/HOT lanes for trucks)} \\$
- •Improved signage for truck movements

### Innovative Technology Strategies

- Link corridor ATISTL1 ort ITS to manage long haul access to marine terminals Link arterial ITS/DMS on truck routes to freeway ITS

•Targeted bridge and pavement reconstruction linked to increasing vertical clearances



Needs Assessment and Strategies Summary Interregional Rail Corridors

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### Slide 15

### TL1

Spell out ATIS Tess Lengyel, 2/22/2015

# Summary of Inter-regional Rail Corridor Issues

### Congestion and capacity

• Several critical routes approaching capacity limits

### Changing nature and use of Northern CA Rail System

- Bulk unit trains and manifest traffic to ports
- Growth in domestic and international container traffic
- Greater use of both Northern and Southern routes to Oakland

Passenger and Freight Conflicts

**Grade Crossing Improvements** 

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Rail Level of Service

Contra Costa County

Contra Costa County

ACE

ACE

County

Contra Costa County

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## Summary of Inter-regional Rail **Corridor Strategies**

- Expanded capacity (double/triple tracking, sidings) and coordinated strategy for Niles and Oakland Subdivisions
- Capacity improvements on Martinez Subdivision

#### Changing nature and use of Northern CA Rail System

- Domestic intermodal terminal capacity improvements in Oakland
- Improved connectivity and capacity expansion Oakland Subdivision (Niles Canyon) to Niles Subdivision

#### Passenger and Freight Conflicts

- Expanded track and sidings to allow for freight and passenger separation (Niles
- ROW acquisition to allow for expanded capacity (Martinez Subdivision)
- Alternative use plans for Niles/Oakland/Coast (Mulford) Subdivisions

- $\bullet \ Grade \ separations, \ signal \ improvements \ and \ prioritization \ policy/program$
- Quiet zones to reduce community impacts

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Needs Assessment and Strategies Summary Global Gateways

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### Port of Oakland Needs



Terminal Capacity



Neighborhood Impacts



Gate Queues



7<sup>th</sup> Street Grade Crossing



Bike and Pedestrian Access

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# Summary of Global Gateway Strategies

#### Innovative Technology Solutions

- Freight ITS (FRATIS) to improve port gate operations link to appointment systems
- Airport access ITS
- Link corridor ATIS to port ITS

#### Capacity and Congestion Strategies - Port of Oakland

- Expansion of bulk an cold storage terminals (underway)
- Longer-term expanded transload warehouse capacity
- Night gate operations

#### Connectivity and Access Strategies - Port of Oakland

- Grade crossing improvements (7th St. West)
- North lead rail access to intermodal terminals
- Local street circulation improvements (widening, signals, striping, signage, turn lanes, access ramp improvements)

#### Coordination with Passenger System Strategies - Port of Oakland

- Alternative bike/ped routes
- Physical separations of bike/ped routes

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# Needs Assessment and Strategies Summary Cross-Cutting Issues



## **Summary of Cross-Cutting Needs**

Regional Air Quality Impacts and Localized Public Health Effects

Sea-level Rise Vulnerability and Risk

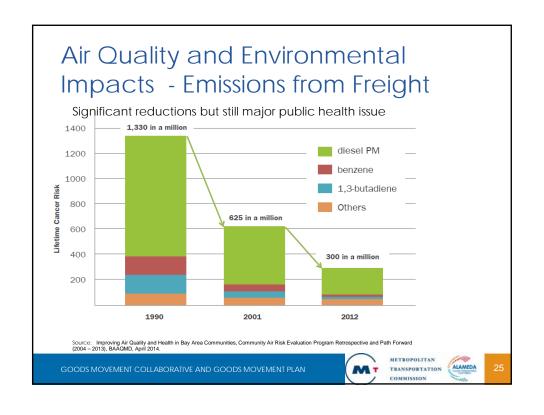
**Industrial Land Supply** 

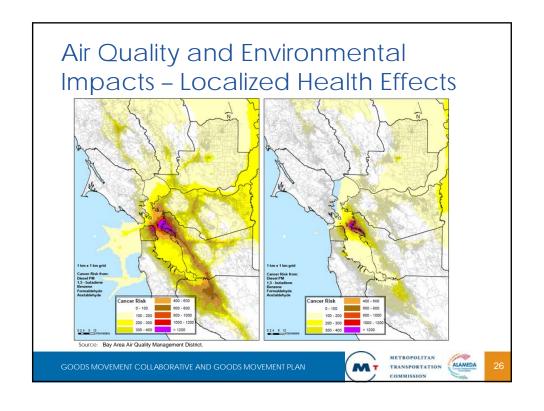
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## **Summary of Cross-Cutting Needs**

#### Regional Air Quality Impacts and Localized Public Health Strategies

- •Incentives for engine retrofits to low emission and ZEV technology
- •ZEV technology demonstrations for trucks
- •Low emission requirements for new rail terminals
- Voluntary agreements for adoption of Tier 4 locomotives as part of public-private investment agreements
- •Incentives for use of low emission switching locomotives

### Community Livability Strategies

- Coordination of truck route planning in industrial areas with restrictions and enforcement in adjacent residential areas
- Land use controls to ensure truck services out of neighborhoods adjacent to truck routes

#### Sea-level Rise Adaptation Strategies

- Drainage and flood control improvements along I-880 and I-80 (Bridge approach)
- •Improve airport perimeter dike

#### Industrial Land Supply and Freight Corridor Preservation Strategies

- •Land use guidance for cities on industrial land preservation strategies
- •Incentives to preserve buffers around freight corridors

### Workforce Development Strategies

• Training and workforce development programs for truck drivers and logistics professionals coordinated through the community colleges

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### Strategies to Pursue Opportunities

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### Strategies for Opportunities

- Goods Movement to Support Emerging Industries strengthen airport links to biotech clusters, industrial preservation in I-880 corridor with truck route improvements (freeway and local roads) and expanded rail capacity and domestic rail terminals
- E-Commerce and Advanced Retail Distribution Strengthen freeway links between OAB and airport, truck route improvements in I-880 corridor and FRATIS links between I-880 corridor/I-580 corridor
- Goods Movement Workforce Development Expanded support for community college programs training logistics professionals and truck drivers
- Bulk Exports and Expanded Rail Services continued expansion of bulk terminals at port, increased domestic intermodal in Oakland, dual development of northern and southern rail routes to Oakland
- National Model of Sustainable Goods Movement System guidance for truck route planning; integration of complete streets concepts; demonstration of low emission freight technology and freight ITS

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### **Technical Team Comments**

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- Insert-

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