



Rail Strategy Study



Goods Movement Planning Committee
Meeting
April 10, 2017

Topics

1. Background on study
2. Description of rail infrastructure
3. Preliminary rail issues
4. Grade crossings and community impacts
5. Next steps



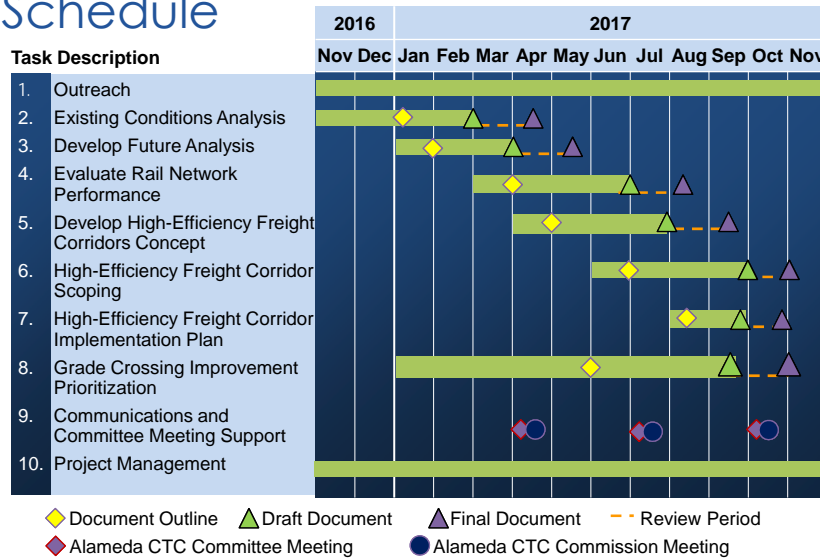
Background on Study

Bring prior studies and plans together to understand needs, opportunities, and issues for freight and passenger rail in Alameda County

- Support strategies to expand passenger rail
- Maximize benefit of freight rail for local economy
- Identify a package of high priority investments that support both rail and community needs considering
 - *Congestion reduction*
 - *Economic development opportunities*
 - *Emissions reduction and environmental sustainability*
 - *Safety*

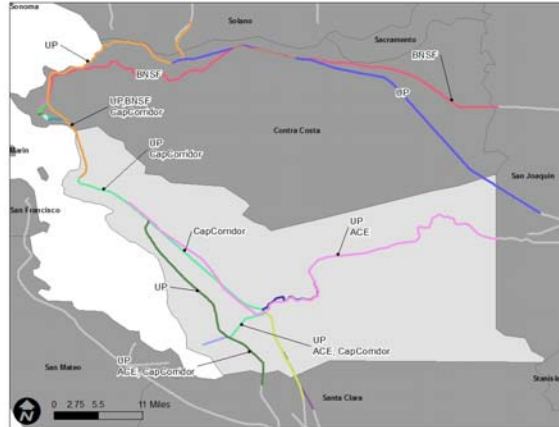


Schedule



Rail Infrastructure

- All infrastructure owned by private sector Class I RRs
 - Connects to national freight rail networks
- Major subdivisions:
 - Martinez north of port
 - Niles, Oakland, and Coast south of port
 - Oakland across Altamont



Train Volumes

- Highest passenger and freight train volumes on Martinez subdivision
- Impacts efficiency, noise, and safety at crossings

Rail Subdivision	From	To	Daily Freight Trains (2008)	Daily Passenger Trains (2016)	Daily Total Trains
Martinez	Richmond	Emeryville	17	38	55
Martinez	Emeryville	Oakland	17	36	53
Niles	Martinez Subdivision	Coast Subdivision	15	16	31
Oakland	Niles Subdivision	Niles Junction	0	0	0
Oakland	Niles Junction	Stockton	10	8	18
Niles	Coast Subdivision	Niles Junction	0	14	14
Niles (Centerville)	Niles Junction	Coast Subdivision	10	22	32
Coast	Oakland	Fremont	15	2	17
Coast	Fremont	Santa Clara	6	24	30
Warm Springs	Santa Clara	Niles Junction	0	0	0

Rail Issues

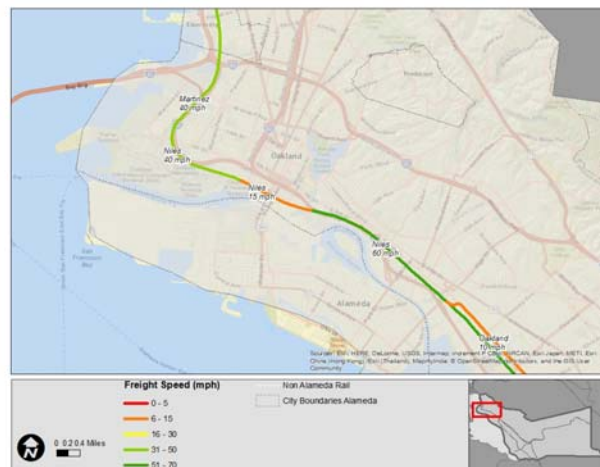
- At-grade crossings create safety risks, horn noise, and reduce train speeds/capacity
- Capacity limitations on key segments
- Poor connectivity between different subdivisions
- Freight/passenger conflicts
- Needed track improvements to realize higher utilization in key locations
- Land use conflicts



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Rail Issues – Jack London Square Example

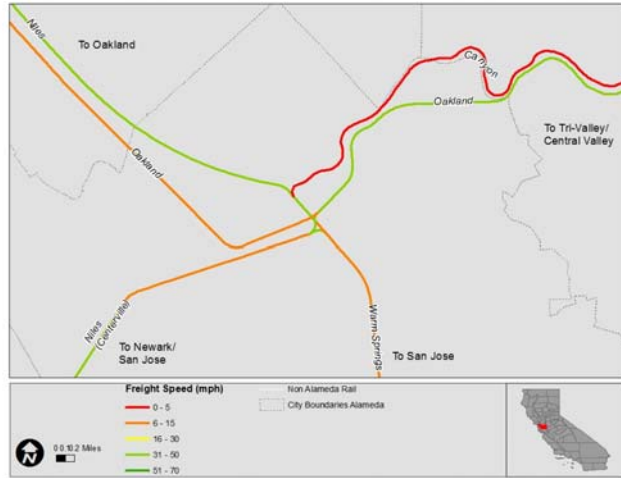
- At-grade crossings in busy pedestrian area
 - *Safety and noise*
 - *Slow speeds reduces capacity*



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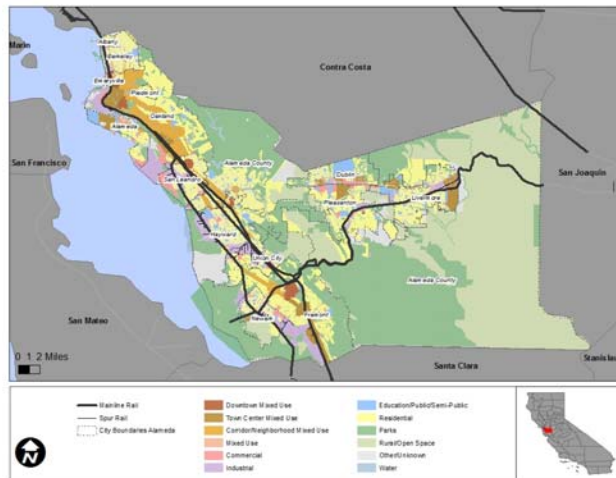
Rail Issues – Niles Junction Example

- Confluence of rail lines results in:
 - *Switching between track*
 - *Slow train speeds*
 - *Numerous at-grade crossings*



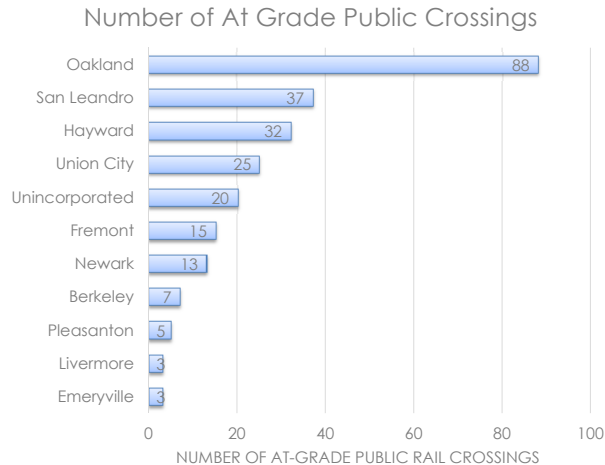
Rail Issues - Community Impacts

- Land use information has been collected from cities
- Industrial land use data and plans will help identify where rail connections should be preserved and rail corridors may need protection
- Potential land use conflicts will be identified



Rail Crossings by City

- 248 at-grade crossings in Alameda County
- Over one-third are in Oakland
- Analysis of crossings includes considering rail and road traffic, safety, land use, and environmental issues



Preliminary Rail Crossing Analysis

Preliminary Locations with over 15,000 ADT and over 10 Daily Trains

- Traffic count data provided by cities
- Crossing prioritization strategy will be developed based on
 - Corridor approach
 - Mix of train and auto traffic
 - Land use
 - Safety

Road	City	Subdivision	Traffic Count	Daily Trains
High St	Oakland	Niles	42,438	31
Santa Rita Rd	Pleasanton	Oakland	39,050	18
Hesperian Blvd	San Leandro	Niles	29,809	14
Fremont Blvd (St 84)	Fremont	Niles	29,500	32
Nursery Ave	Fremont	Niles	29,000	14
Tennyson Road	Hayward	Niles	27,662	14
Dyer St	Union City	Coast	26,247	17
Union City Blvd	Union City	Coast	24,983	17
Decoto Rd	Union City	Niles	23,855	14
Davis St / SR 61 / SR 112	San Leandro	Niles	23,015	14
Halcyon Dr	San Leandro	Niles	21,439	14
Fruitvale Ave	Oakland	Niles	20,000	31
Marina Blvd	San Leandro	Coast	19,457	17
98th Ave	Oakland	Niles	19,000	31
Washington Ave	San Leandro	Niles	18,466	14
66th Ave	Oakland	Niles	16,047	31
Central Avenue	Newark	Coast	15,457	30
Gilman St	Berkeley	Martinez	15,144	55
W Blossom Way	Unincorp.(San Lorenzo)	Niles	15,000	14



Next Steps

1. Complete existing conditions report
2. Continue development of future conditions report
 - *Conduct parcel level analysis at key locations*
 - *Discuss industrial plans with economic development staff at cities*
 - *Review freight train forecasts with UP and BNSF*
 - *Provide draft report to ACTAC for comments*
3. Develop rail crossing prioritization process
4. Brainstorm rail network improvement concepts
5. Next update – July 2017



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