


Bicycle & Pedestrian Count Program

July 7, 2016

Presentation to Bicycle and Pedestrian Advisory Committee



Overview

- Program goals
- Current program
- Proposed program
 - *Manual counts*
 - *Automated counts*
- Next steps

Count Program Goals

Primary goals

- Baseline data and trends
- Assess return on investment
- Accurate safety analysis
- Travel model enhancement

Secondary goals

- Communicate role of bicycle and pedestrian facilities in transportation system
- Provide data for interested researchers
- Leverage funding



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Current Count Program

Manual Counts

- 63 locations counted from 2010-2014
- One day, two 2-hour periods between Sept-Oct
 - *PM (4-6) and Midday (12-2) OR*
 - *PM (4-6) and School (2-4)*
- Contracted with traffic counting firm
- In person counts
- No counts in 2015 due to need to revisit program design

Automated Counts

- Two in-pavement counters
- Two moveable trail counters
- Permanent trail counter installed as part of East Bay Greenway
- Challenges with maintenance of counters



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Manual vs. Automated Counters



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Proposed program – manual counts

- Increase from 63 sites to 150 sites
- Two groups of 75 sites, each counted biennially
 - 50 counted for 4 hours
 - 25 counted for 2 hours
- Switch from in person counts to video processing
 - *Sample some locations to collect gender and helmet information*



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Proposed program – manual count location selection

- Retain all of current 63 locations
- New locations allocated based on population
- Additional locations selected based on:
 - *Proximity to transit*
 - *Proximity to activity centers*
 - *Bicycle/pedestrian collision history*
 - *Proximity to Safe Routes to Schools sites*
 - *Overall coverage*
- **Comments on proposed locations due by July 29**



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Proposed program – automated counts

- Alameda CTC to support increase in deployment of automated counters
- Partnership with local agencies
 - *Alameda CTC – equipment purchase*
 - *Local agency – install and maintain*
- Up to 20 new counters
- Priority to interjurisdictional trail locations
- **Express interest by July 29**



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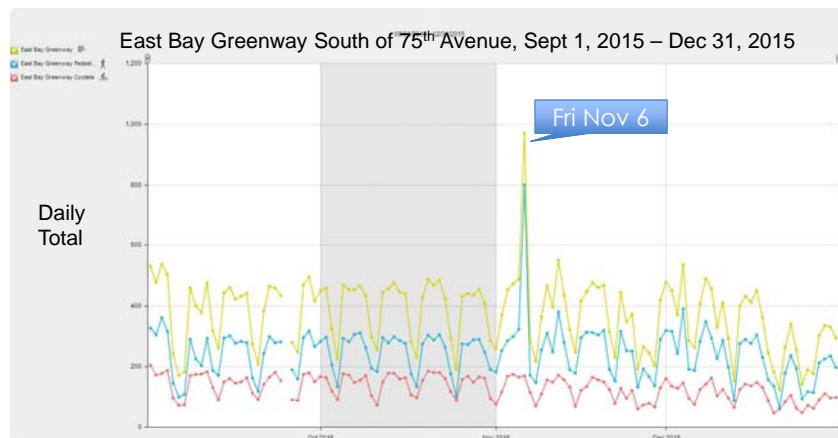
Proposed program – automated count local agency options

| | Non-permanent trail counters | Permanent trail counter |
|---------------------|--|--|
| Equipment purchase | Alameda CTC | Alameda CTC |
| Installation | Local agency installs OPTIONAL – rotation to multiple locations throughout year | Local agency installs |
| Maintenance | Local agency replaces batteries, troubleshoots | Local agency replaces batteries, troubleshoots |
| Data transmission | Local agency downloads in field OR pays for transmission | Local agency pays for transmission |
| Period of agreement | 5 years | 10 years |



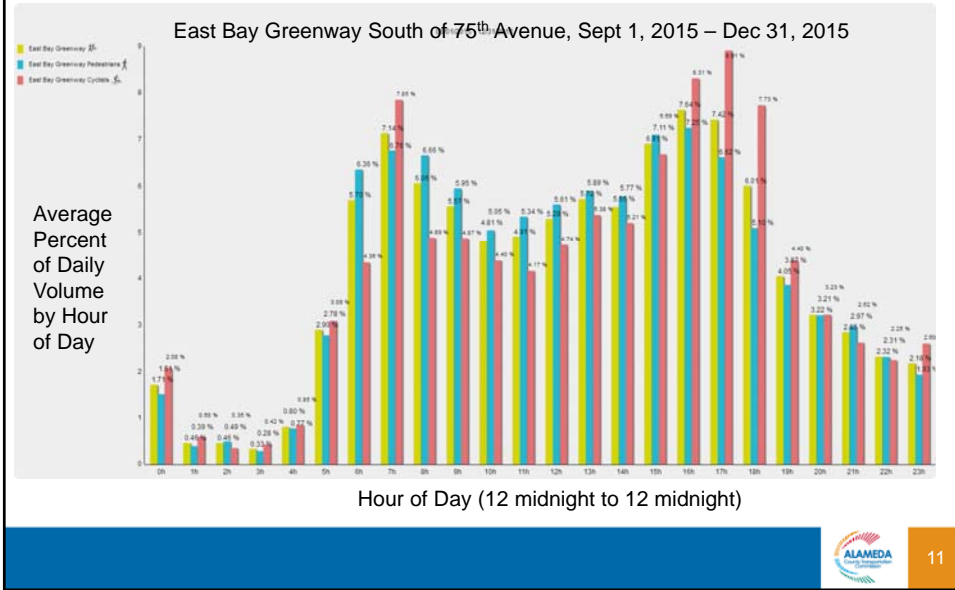
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Automated count sample data

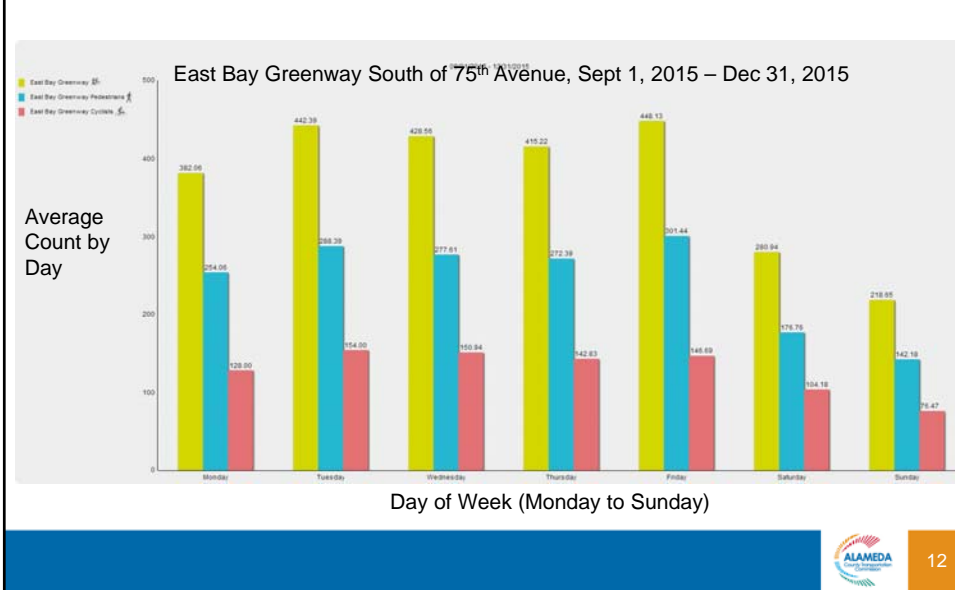


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Automated Count Sample Data



Automated Count Sample Data



Next steps

- Manual counts
 - *July 29 – comments on proposed locations due to Alameda CTC*
 - *August – finalize locations*
 - *September/October 2016 and 2017 – collect data*
- Automated counts
 - *July 29 – cities express interest to Alameda CTC*
 - *August/September – develop MOUs with interested cities for counter deployment*



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