Warm Springs Extension Project Update
Why the Warm Springs Extension (WSX)?

- Increase Transit Access and Ridership, Reduce Traffic Congestion
- Improve Environmental Quality, Reduce Vehicle Emissions
- Enhance Regional Connectivity
- Enhance Transit Oriented Development Opportunities
- Provide Transportation Services Equitably to all Segments of the Population
- Support Community Goals and Institutional Objectives
- Serve as Gateway to South Bay
Current BART System & Planned Extensions
WSX Project Schedule

Major Contracts

Subway Contract
Permits/Agreements/ROW Certification & Bid Document Preparation (1Q 2007 to 4Q 2008)
Advertisement/Award/Notice to Proceed (1Q 2009 to 2Q 2009)
Subway Construction (43 Months)

LTSS Contract
Secure Funding, ROW Cert & Bid Doc Prep (1Q 2007 to 1Q 2010)
RFQ/RFP/Award/Notice to Proceed (2Q 2010 to 2Q 2011)
Design/Build Construction (51 Months)
Begin Revenue Service (TBD)
## WSX Project Funding

<table>
<thead>
<tr>
<th>Current Funding</th>
<th>Amount (Millions)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alameda County 2000 Measure B Tier 1</td>
<td>$215</td>
</tr>
<tr>
<td>State Traffic Congestion Relief Program (TCRP)</td>
<td>$100</td>
</tr>
<tr>
<td>Regional Measure 1 Bridge Tolls</td>
<td>$118</td>
</tr>
<tr>
<td>Alameda County Congestion Management Agency (CMA)</td>
<td>$2</td>
</tr>
<tr>
<td>Proposition 1B</td>
<td>$40</td>
</tr>
<tr>
<td>50% Revenue-Based (BART), 50% Population-Based (MTC)</td>
<td></td>
</tr>
<tr>
<td>Regional Measure 2 Bridge Tolls</td>
<td>$176</td>
</tr>
<tr>
<td>(Includes $91M Dumbarton Swap)</td>
<td></td>
</tr>
<tr>
<td>Proposition 1B State Local Partnership Program (SLPP)</td>
<td>$92</td>
</tr>
<tr>
<td>(MTC $40M, ACTIA $36M, SCVTA $16M)</td>
<td></td>
</tr>
<tr>
<td>BART Agency Contribution</td>
<td>$24</td>
</tr>
<tr>
<td><strong>Total Current Funding</strong></td>
<td><strong>$767</strong></td>
</tr>
</tbody>
</table>

### Unfunded Program Reserve/Future Programming

<table>
<thead>
<tr>
<th>Unfunded Program Reserve/Future Programming</th>
<th>Amount (Millions)</th>
</tr>
</thead>
<tbody>
<tr>
<td>State Transportation Improvement Program (STIP)</td>
<td>$69</td>
</tr>
<tr>
<td>San Francisco Airport Extension Surplus Revenues</td>
<td>$54</td>
</tr>
<tr>
<td>($27M MTC Advance, $27M ACTIA/BART Advance)</td>
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</tr>
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<td><strong>Total Unfunded Program Reserve/Future Programming</strong></td>
<td><strong>$123</strong></td>
</tr>
</tbody>
</table>

**Total Warm Springs Funding**

| Total Warm Springs Funding                                                      | **$890**          |
WSX Subway Contract

- Design-Bid-Build Contract
- $137M Contract Awarded to a Joint Venture of Shimmick & Skanska on May 28, 2009
- Notice to Proceed Issued August 24, 2009
- Completed on Schedule and on Budget April 2013
Subway Contract Construction Area
WSX Subway Work Progress
WSX Subway Work Progress
WSX Subway Work Progress
WSX Subway Work Progress
Excavation Support System
WSX Subway Work Progress
WSX Subway Work Progress
WSX Subway Work Progress
WSX Subway Work Progress
Line, Track, Station and Systems Design-Build Contract

- Design-Build Contract
- $299M Contract Value
- Notice to Proceed Issued to Warm Springs Constructors Oct. 2011
- District Furnished Materials and Equipment
  - Programming & Equipment for Tie-In to Operating System & Operations Central Control (OCC)
  - Fiber Optic “Home Run” Cable Fremont to OCC
  - Running Rail
  - Trunked Radio Site
- Sole-Sourced Train Control and Fare Collection Systems
- Approximately 95% complete
- Estimated Completion TBD
WSX LTSS Work Progress
Future Irvington Station Track Slab
WSX LTSSS Work Progress
Subway Track Installation
WSX Cutting Track South of Fremont Station
WSX LTSSS Work Progress
Walnut Avenue Overpass
WSX LTSS Work Progress
Completed Work at Fremont Station
WSX LTSSS Work Progress
Track Installation
WSX LTSS Work Progress
Stormwater Detention Structure
WSX LTSS Work Progress
Warm Springs/South Fremont Station
WSX Warm Springs/ South Fremont Station
WSX LTSS Work Progress
Warm Springs/South Fremont Station
WSX LTSS Work Progress
Static Testing of Automatic Train Control
WSX LTSS Work Progress
Systems Integration Testing from Project Test Center
Warm Springs/South Fremont Station Simulation Solar Panels
For Updates on Project Progress

- Project Website – Including Station Construction Webcams
  www.bart.gov/wsx

- Sign Up for Project Updates
  bartwarmspringsextension@bart.gov

- Information Line
  510-476-3900
WSX Project Challenges & Lessons Learned

- Team Building
- Changing Mindsets
- Funding
- Environmental Clearance(s)
- Hayward Fault Crossings
- Work in Operating Railroad Corridor
- Native American Cultural Resources
- Park Facilities and Programs
- Groundwater
- Sensitive Habitat & Protected Species
- Utilities Including Hetch Hetchy Pipelines
- Flood Storage Capacity
- Seasonal Restrictions
- Noise & Vibration
- Tie-In to 40 Year Old System at Fremont Station
- Future Tie-In by SVRT Project
- Future Irvington Station
- Future A’s Ballpark?
- Coordinating with City of Fremont Grade Separation Project
- Refine Project Delivery Strategy
- Partnering with Contractors
- Expecting the Unexpected