



Presentation to CAC Establish Phase 2 Budget

April 8, 2008

Transbay Transit Center







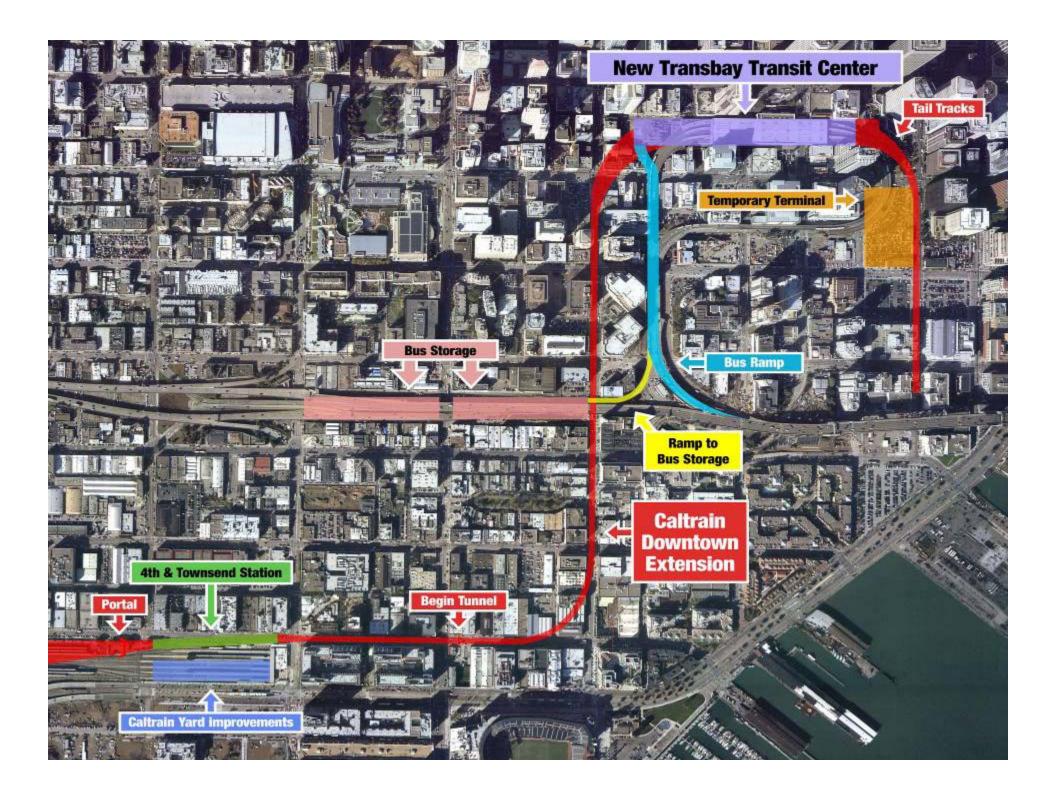
Agenda

Agenda:

- Phasing Strategy Recap
- Budget Development Process
- Establishing Phase 1 Baseline Budget
- Phase 2 Cost Estimate Development
- Establishing Phase 2 Baseline Budget
- Phase 2 Funding Plan



Phasing Strategy





Adopting Phasing Plan

- To commence final design and construction under FTA guidelines we must have a fully funded, fully functional project segment
- Phasing Plan adopted by TJPA Board in March 2006
 - Identified fully funded Phase 1 scope
 - Bus operations facilities constitute a fully functional scope
 - Allows project design and construction to continue without delay
- Phase 2 is scheduled to begin construction prior to completion of Phase 1



Phased Construction Plan

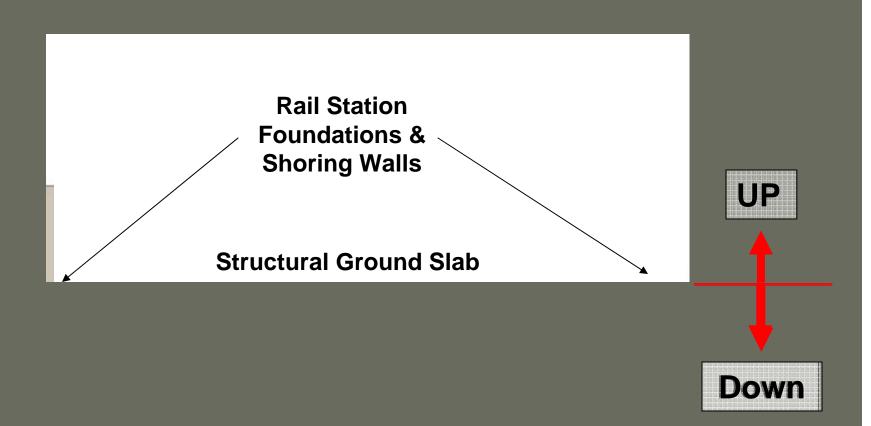
Two Phase Program to Match Funding

Phase 1: Elevated Regional Bus Facility at Transit Center Building & Foundations for future Rail System Train Station

Phase 2: DTX Extension and Below Grade Train Station at Transit Center Building



Phasing Strategy Use "Up/Down" Construction





Phase 1 Scope

Build Above Ground Bus Facility

- Phase 1 Land Acquisition
- Demolition & Utility Relocations
- Temporary Terminal
- Bus Storage Facility
- Transit Center Rail Station Foundations
- Transit Center Bus Facility
- Bus Ramps



Phase 2 Scope

- Build Below Ground Rail Station
- Build Downtown Rail Extension
 - Mined Tunnel and Cut & Cover Sections
 - 4th & Townsend Station and Caltrain Yard
 - Rail Track & Systems



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Phase 1	Phase 2
June 2008 Advertise Temporary Terminal	
2009 Advertise Bus Storage	
2010 Begin Transit Center Construction	2010 Begin DTX Final Design
	2012 Initiate Advance Contracts
	2013 Begin Construction of Major Civil Contracts
2014 Complete Phase 1 Construction Open TTC for Bus Operations	
	2018 Complete DTX Begin Rail Revenue Service



Budget Development Process



Budget Definitions

- Budget:
 - TJPA Board approved amount to execute scope of work
 - Includes contingencies & reserves appropriate to level of design development
- Baseline Budget:
 - Initial TJPA Board approved budget
- Baseline Budget Changes:
 - Require TJPA Board approval



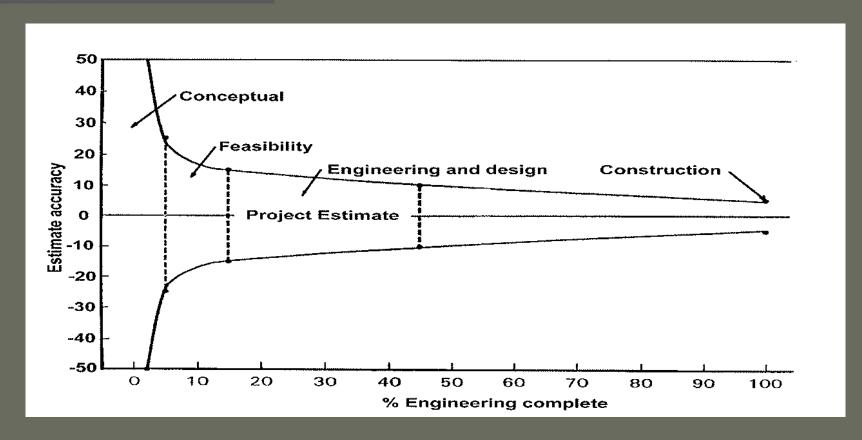
Budget Development

Scope definition and cost estimate are refined until a reliable and achievable budget can be developed

- 1. Initial Estimate
- 2. Scope Development & Cost Validation
- 3. Value Management
- 4. Cost Management
- 5. Iterate 2-4 if necessary
- 6. Establish Budget



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Typical Bounds of Estimate Accuracy vs Project Development



Establishing Phase 1 Budget



Establishing Phase 1 Budget

- TTC initially estimated in 2003 EIS/EIR
- 2005 value management exercise reconfigured structure and enabled phasing strategy
- Initial Phase 1 construction cost estimate prepared in 2006
- Cost management exercise in 2006-2007 identified scope and cost exposures to establish appropriate contingencies and reserves



Establishing Phase 1 Budget

- Phase 1 baseline budget adopted in November 2007 based on:
 - Fiscally conservative estimates
 - Sound planning and engineering work completed during the prior 2 years
 - A developed contracting strategy
- Proposed Phase 1 budget is fully funded at \$1,189 million



Phase 2 Cost Estimate Development



Initial Cost Estimate

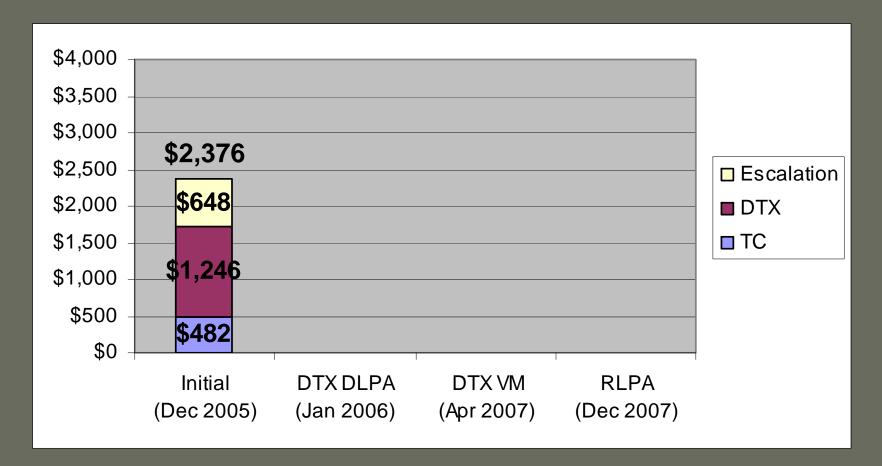
 Initial Cost Estimate prepared in conjunction with the EIS/EIR in 2003 based on conceptual scope with limited engineering development

Escalated in December 2005 without refinement

Phase 2 Program Cost (\$m)

Phase 2 Estimate History (In \$Year of Expenditure)

Transbay Transit Center



Cost Estimate



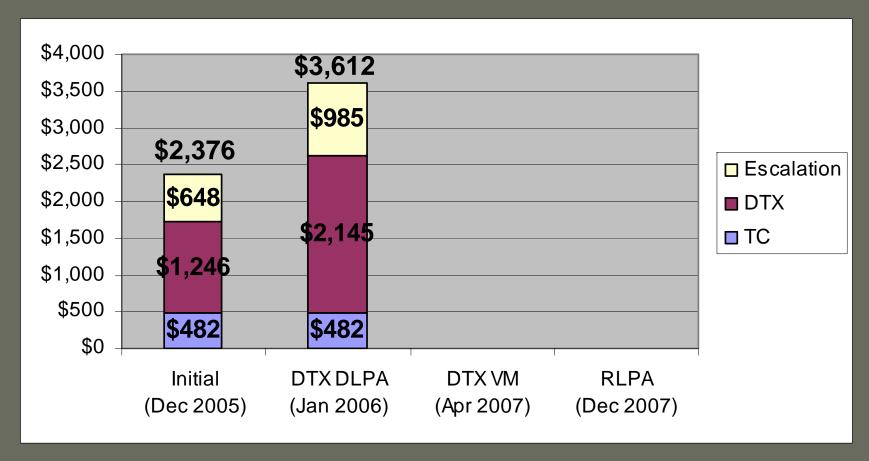
DLPA Estimate

- Developed Locally Preferred Alternative Estimate Prepared in January 2006
- Fully independent estimate
- Principal elements of cost differential between the Initial and DLPA estimates include:
 - 2- versus 3-track estimate
 - Inclusion of underground storage structure
 - Deepening of alignment
 - Hazmat quantity and disposal costs
 - More comprehensive scope coverage: support of excavation elements, waterproofing, etc.

Phase 2 Program Cost (\$m)

Phase 2 Estimate History (In \$Year of Expenditure)

Transbay Transit Center



Cost Estimate



Value Management RLPA Recommendation

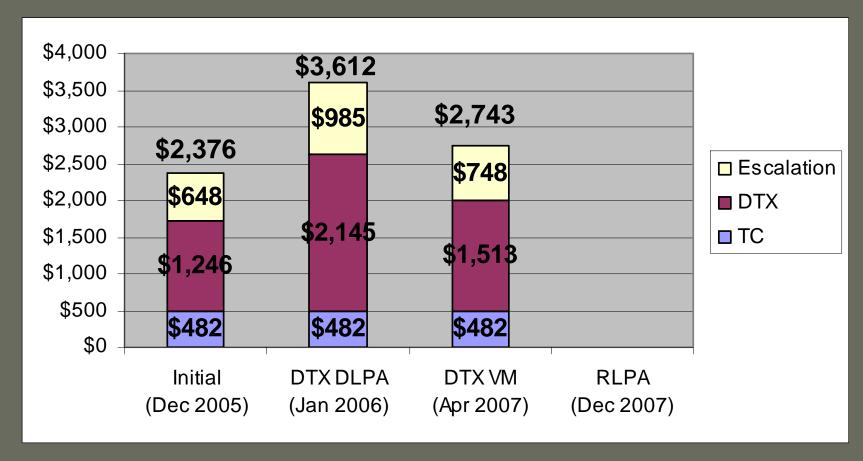
April 2007 TJPA Board-Approved RLPA Refined Configuration included the following:

- 2-track lead to DTX tunnel system
- Fourth and Townsend underground station
- 3-track tunnel on Townsend and Second streets
- Transit Center with 3 platforms and 6 tracks
- Tail Tracks deferred until operationally required
- At-grade rail car storage within Caltrain Yard

Phase 2 Program Cost (\$m)

Phase 2 Estimate History (In \$Year of Expenditure)

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Cost Estimate



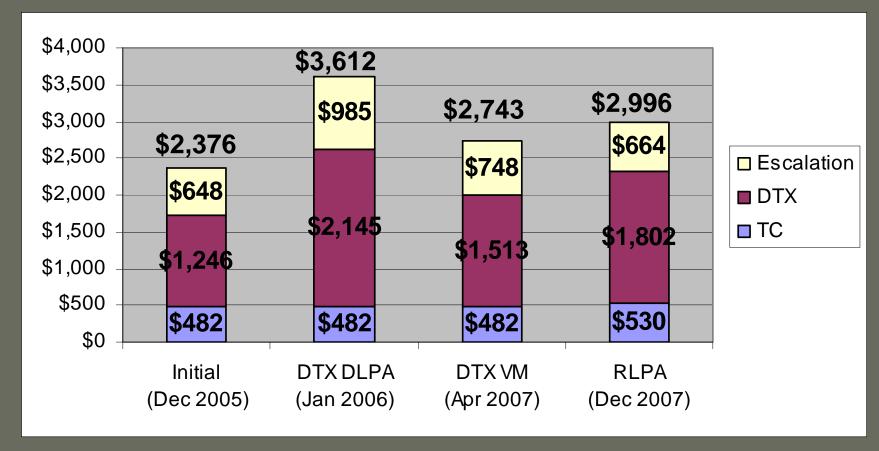
Estimate Refinement & Cost Management Workshops

- April through December 2007:
 - DTX conceptual engineering
- October and December 2007:
 - DTX & TC Cost Management Workshops
 - Identified scope allowance items included in estimate
- December 2007:
 - updated DTX RLPA estimate
- January 2008 estimate baseline:
 - 2-year differential update Jan 2006 to Dec 2007

Phase 2 Program Cost (\$m)

Phase 2 Estimate History (In \$Year of Expenditure)

Transbay Transit Center



Cost Estimate



Establishing Phase 2 Baseline Budget



RLPA Development Conclusions

- March 20, 2008 TJPA Board Adopts Phase 2 Baseline Budget of \$2,996
- Estimate Confidence
 - Cost Management yields high level of confidence
 - Scope allowances
 - Detailed cost exposure analysis
- Future Project Cost Reductions Targeted
 - Major Underground Civil Structures (68% of Construction)
 - Track & Rail Systems (17% of Construction)
 - Schedule/Construction Expenditure



Phase 2 Budget

Item Description	Budget (\$ YOE)
Construction Cost DTX	\$1,426 m
Construction Cost TC	\$475 m
Professional Services	\$384 m
Construction Contingency & ROW	\$551 m
Programwide Costs	\$160 m
Total	\$ 2,996 m

(YOE cost calculated using escalation figure of 4% per annum)



Phase 2 Baseline Budget

- Budget is contingent upon the following:
 - Design-Bid-Build
 - Escalation at 4%
 - Caltrain electrification for revenue service
 - No allowance for Dual Mode Locomotives
 - Funding for Phase 2 being in place in 2010



Phase 2 Baseline Budget Funding Roadmap

Preliminary Funding Plan

Transbay Transit Center

March 2008

(in Millions, YOE)	Phase 1	Phase 2
Estimated Cost	\$1,189	\$2,996
Sources of Funds:		
SF Prop K	\$98	\$50
San Mateo Sales Tax	\$7	\$22
Misc. Local	\$8	
Regional Measure 1	\$54	
Regional Measure 2	\$142	\$8
AB 1171	\$150	
RTIP	\$28	
Land Sales	\$411	\$424
Federal Earmarks	\$64	
TIFIA Loan	\$227	\$445
Total Revenues	\$1,189 +	\$949 +
Surplus/(Deficit)	\$0	(\$2,047)



Potential New Sources

- Public Private Partnerships
- Local Sources
 - Mello Roos/CFD Surrounding TTC
 - Upzoning Around 4th and King
 - Prop K Tier 2 Funding
 - Congestion Pricing



Potential New Sources

- Regional Sources
 - San Francisco Impact Developer Fee for Regional Transportation Projects
 - Regional Climate Change Fee
 - Bridge Toll Increase
- State Sources
 - High Speed Rail Bond
 - Prop 1B State Local Partnership Program
 - Prop 1C TOD and Infill Programs



Potential New Sources

- Federal Sources
 - Climate Change bills
 - Reauthorization of the Transportation Bill
 - Environmental legislation
 - Homeland Security
 - Rail funding



Approach

- Pursue multiple sources simultaneously
- Support Planning Department and other studies that could result in funding opportunities
- Work closely with stakeholders, funding partners and lobbyists to position Phase 2 for funding
- Maintain Phase 2 project readiness
- Target train box for full funding concurrent with Phase 1
- San Francisco/MTA, AC Transit, and Caltrain support Transbay as high priority for regional, state and federal funding



Questions?



