## Core Capacity Transit Study: Project Update



March 22, 2017

### **Outcomes for Today**

- Public Outreach feedback
- SF Metro short and medium term recommendation
- Long Term study findings
- Study next steps



#### **Public Outreach**

- Two outreach events hosted, one each in San Francisco and Oakland
- Feedback included:
  - Prioritize *comprehensive* short/mid term solutions- e.g. include service and infrastructure with any pricing solutions
  - Long-term projects (e.g. second tube) should work to solve *big regional* problems
  - Optimize technology & traveler information so people can make better choices in real-time
  - Include equity in the discussion





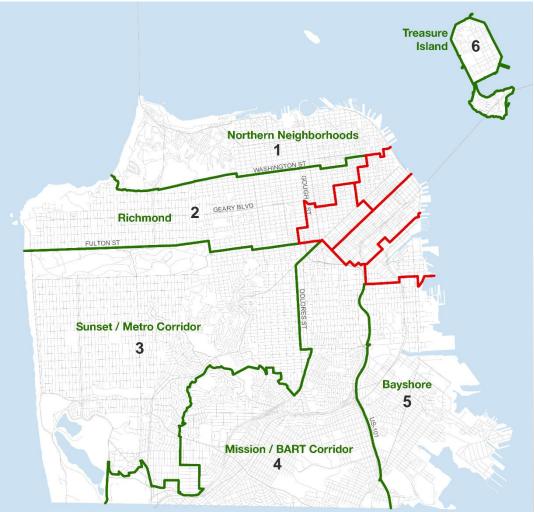


#### Short and Medium Term Evaluation



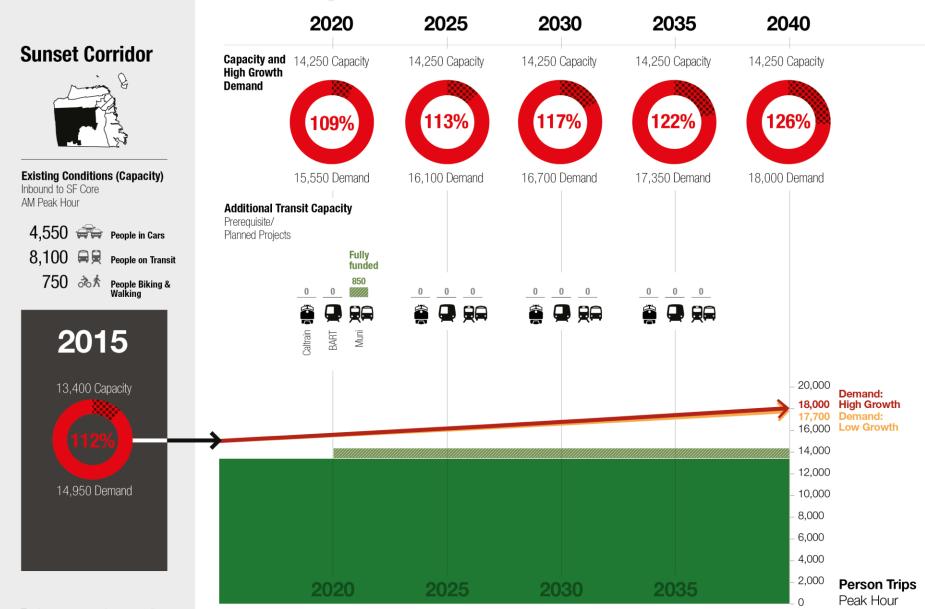
#### **SF Metro Corridor Future Growth**

- Similar analysis to Transbay, but capacity/demand assessed in 6 subareas
- Richmond & Sunset corridors show projected demand above planned capacity
- Other corridors show future planned capacity above projected demand





#### SF Metro Sunset Corridor Capacity and Demand: Prerequisites



#### **Short/Medium-Term Packages**



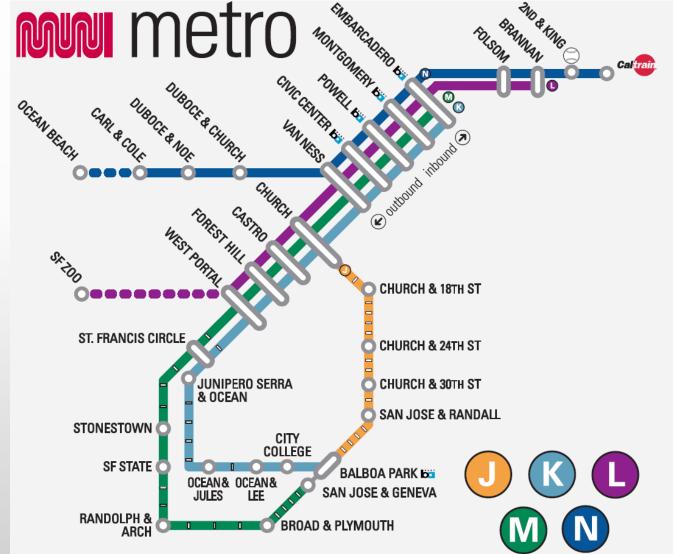


#### **Current System Structure**



CORE CAPACITY TRANSIT STUDY

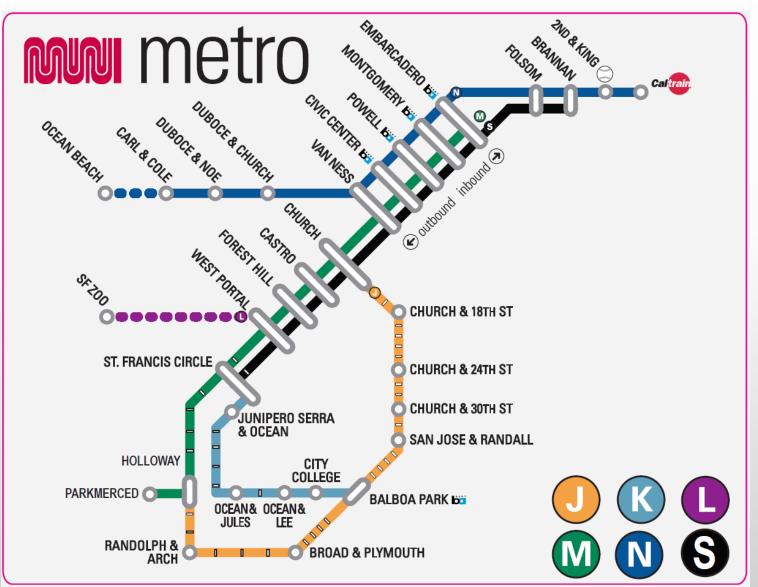
#### 2a: Restructure – Church Station Transfer





#### **2c: Restructure – Spine-Transfer**

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## **Evaluation Results**

Metrics Conclusions



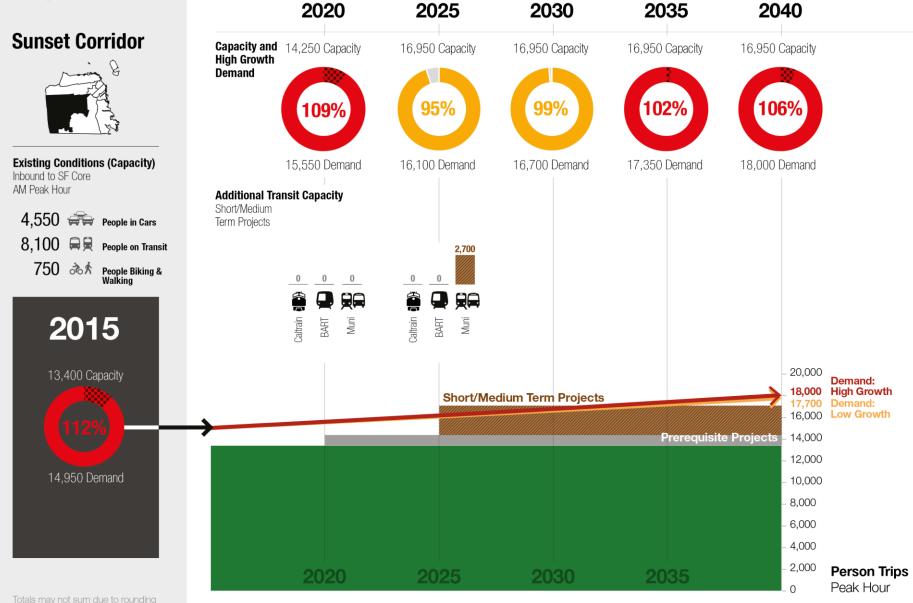
#### Performance Evaluation (Relative to baseline/no-build)

	Capacity	Utilization	Reliability	Resiliency
	Peak Hour Person Spaces	Load Factor	Surface Travel Time Variance	Relative Assessment
Package 1a		$\bigcirc$	0	$\bigcirc$
Package 2a	$\bigcirc$		0	$\bigcirc$
Package 2c	0		0	





# SF Metro Capacity and Demand w/ Package 1a (Surface Optimization)



#### Recommended Package 1a: Capital Costs

Imp	Estimated Cost				
Not Fully Funded Prerequisite Projects					
1	SFMTA – Fleet and Yard	\$787M			
2	Surface Light Rail Safety & Capacity Project	\$100M			
	Subtotal Prerequisite Projects	\$887M			
Not					
1	Surface Improvements - Station improvements - Roadway improvements - Transit priority traffic control improvements	\$51M			
	Subtotal Recommended Projects	\$51M			
	Total Recommended Package	\$938M			



#### **Next Steps**

- Investment in pre-requisite projects
- Continued and enhanced implementation of travel time and reliability improvements for light rail lines
- ConnectSF Citywide identification of long term priorities and key travel corridors



## Long Term Summary



### **Long Term Options**

	Long Term Option	Capacity Estimate	Capital Cost Estimate	
1	More Bus and Ferry: Maximize Existing Assets - +125 buses - +6 ferries	+13,000	\$600M	
2	BART Independent Line (via Mission) -28 trains/hour	+30,000	\$5B - \$12B	
3	BART Independent Line (3 <sup>rd</sup> St. Crossing) - 28 trains/hour	+30,000	\$5B - \$12B	
4	BART Merged Line (SOMA/Mission Bay) - 12 to 24 trains/hour	+10,000 - 20,000	\$5B - \$12B	
5	Greater Regional Rail Connection - 10 to 12 trains/hour	+12,000 – 18,000	\$5B - \$11B	

### Long Term Options – SF Alignments

BART Independent Line – via Mission St.

BART

Merged

**Mission Bay** 

CAPA

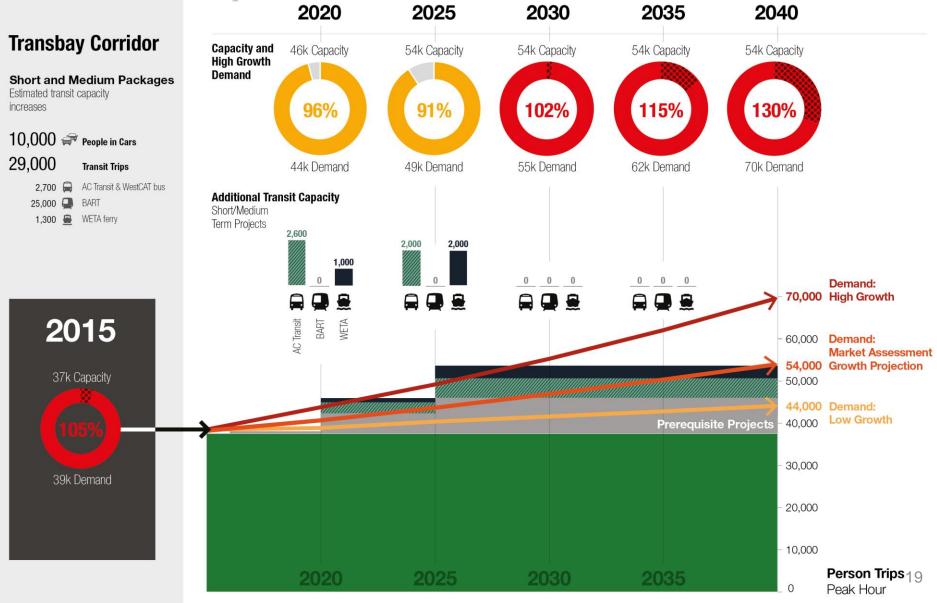
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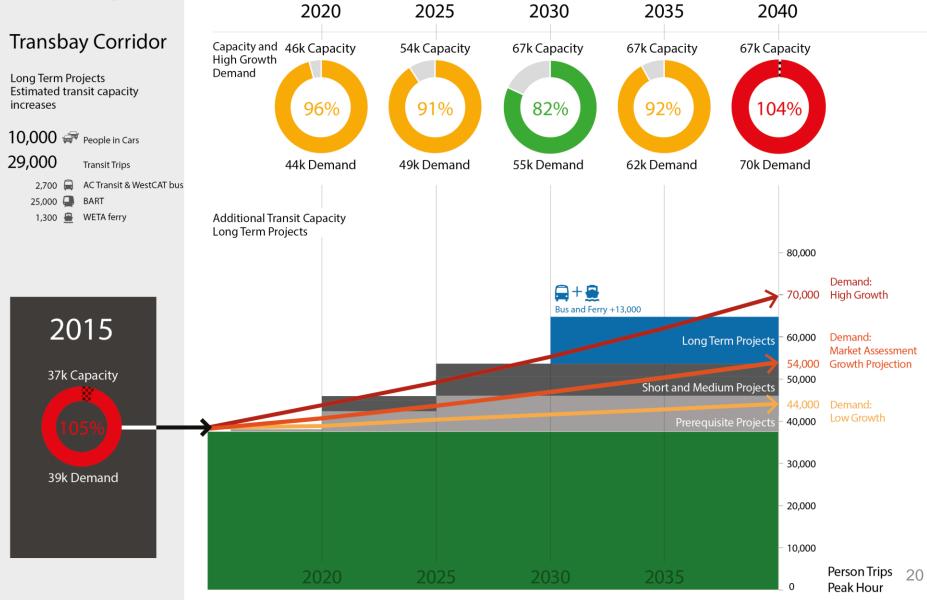
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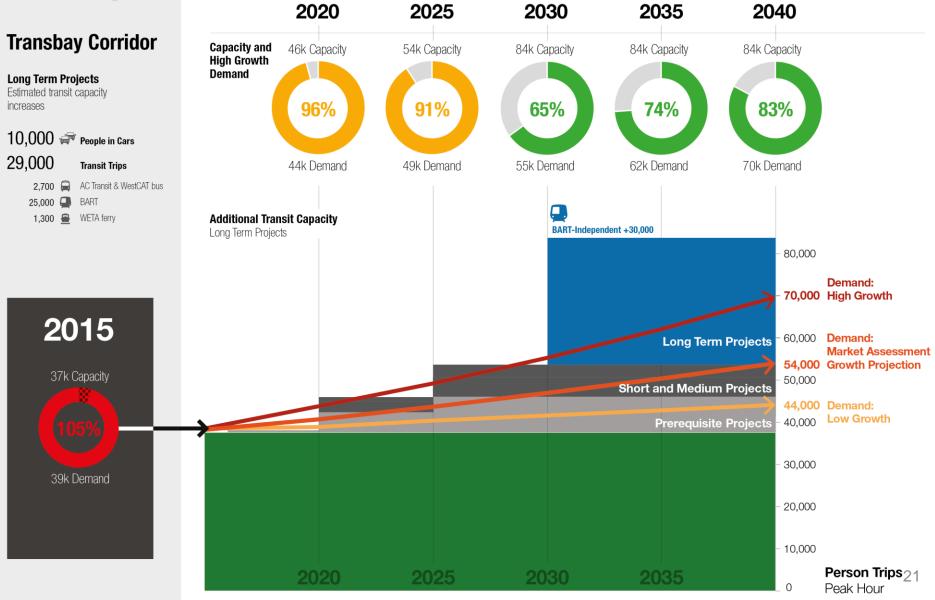
# Transbay Capacity and Demand: Short and Medium Improvements



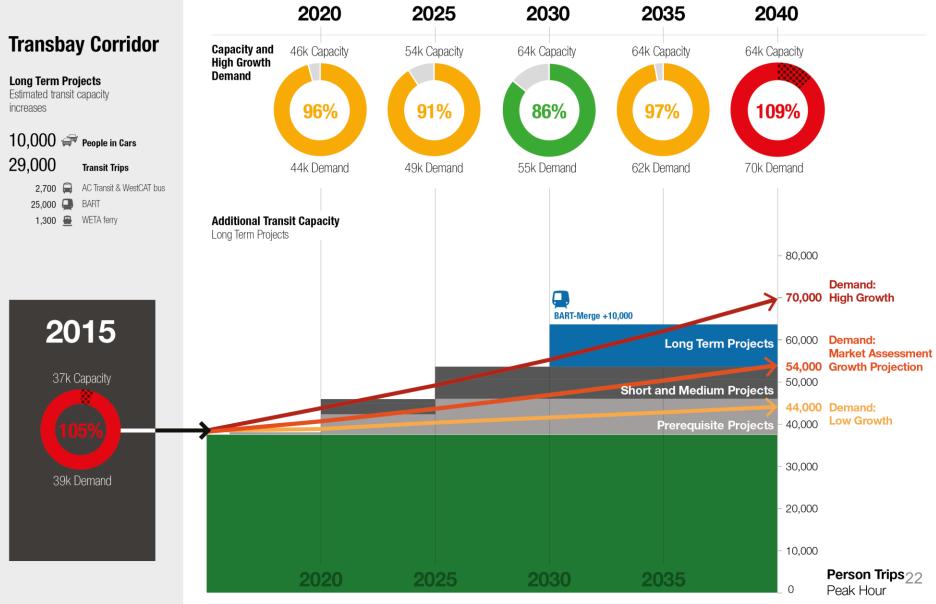
# Transbay Capacity and Demand: More Bus and Ferry



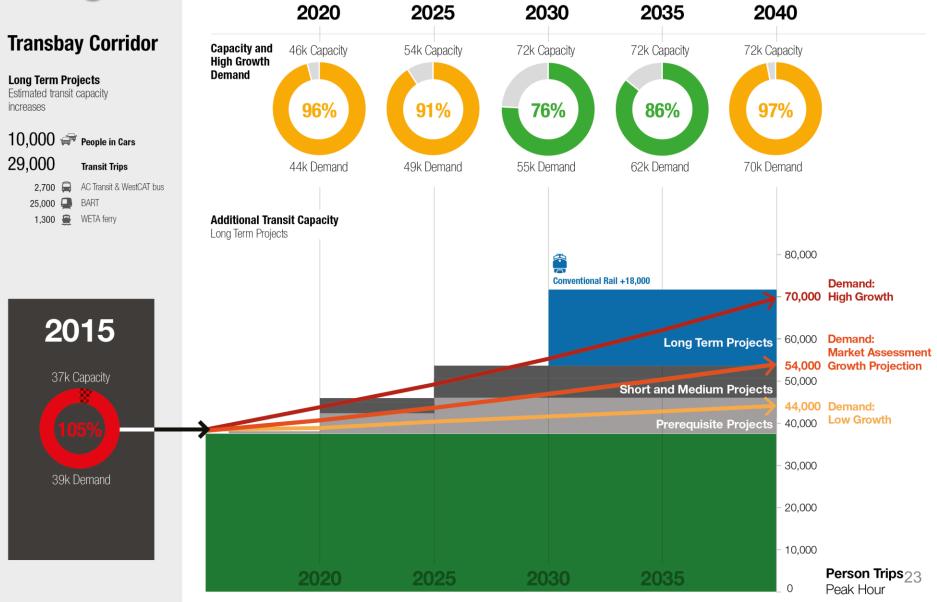
#### Transbay Capacity and Demand: BART Independent Line



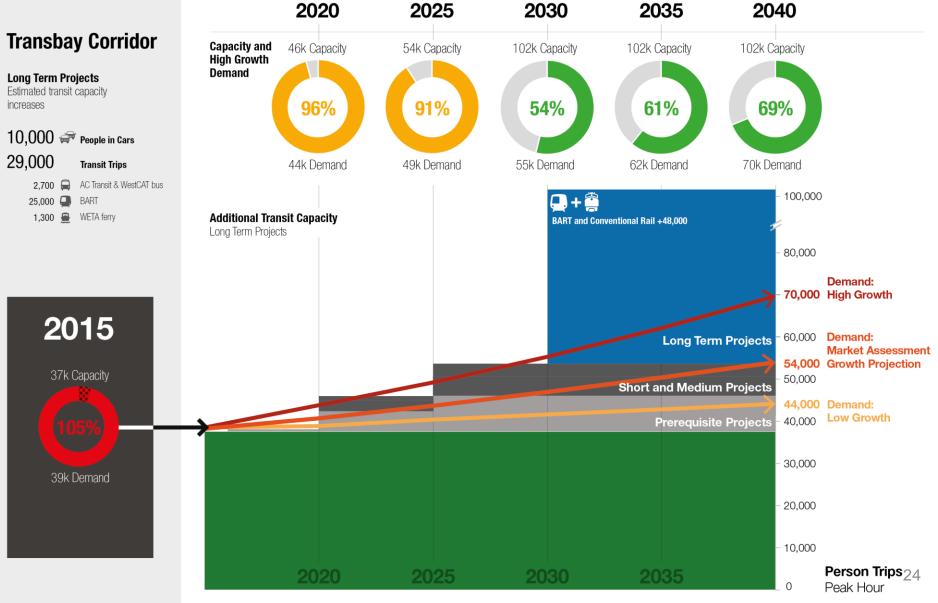
#### Transbay Capacity and Demand: BART Merged Line



# Transbay Capacity and Demand: Greater Regional Rail



#### Transbay Capacity and Demand: BART + Conventional Rail



### Long Term Summary

- All options deliver sufficient capacity to meet demand for the medium growth 2040 forecast
- However, two options (bus and ferry option and BART Merged/Breakout Line) do **not** deliver sufficient capacity for the high-growth forecast
- All other rail options provide sufficient capacity for the high growth 2040 forecast
- Recommend a long term project to provide additional transit capacity in the corridor for 2030+



### **Next Steps**

- Develop and issue Final Report
- Second crossing continuation study
  - Includes BART and conventional rail option for analysis
  - Need to Identify study leaders
    - Identify program management role and who does it
    - BART will lead BART portion
    - Responsible entity to lead conventional rail portion needs to be identified/created
  - Extend PMT participation (and new stakeholders)
  - Study anticipated to look at market demand first, then service needed to address demand, then operations and infrastructure
- Key scoping questions
  - Geographic scale: corridor, regional, mega-regional?
  - Institutional governance and other policy considerations
- A scoping effort is needed ASAP to develop a second crossing continuation study framework.
  - Recommend Execs meet again to outline continuation effort



