



### **Muni Service & Fleet Electrification Update**

SFMTA Citizens' Advisory Council January 4, 2024



# Focusing on Quality

for management of the system and deployment of resources leading to gains in performance and customer feedback

### **SFMTA Focus:** Fast, Frequent, Reliable, Safe, Clean



Cleaner vehicles, stations,

transit shelters



More security personnel



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system

→ Shipyard

**New customer information** 

# **Focusing on Quality**

5 Factors of Quality:

- Fast
- Frequent
- Reliable
- Safe
- Clean



### **Ridership continues to climb, with September the highest in 4-years.**





# **Muni Service Decision-Making Criteria**

- Resource neutral changes
- Neighborhoods identified by the Muni Service Equity Strategy
- Ridership demand (crowding) and frequency
- Minimum policy frequencies
- Access for people with disabilities and seniors
- Support economic recovery



*Muni service criteria based on agency values* 

# Bi-annual Service Evaluation

- As service changes are implemented, staff reviews data and community feedback
- System performance will be identified and documented based on existing service delivery metrics (on-time performance, crowding, etc.)
- Adjustments prioritized by Muni Service Equity Strategy with involvement from Equity Working Group and other stakeholders.
- Changes implemented 2-3 times per year informed by staffing and budget considerations





# **August 19 Service Changes**

### **New Service**

- 28R 19<sup>th</sup> Ave Rapid Restored weekdays 7 a.m.-7 p.m., every 12 minutes, new terminal at Daly City BART
- 31 Balboa Extension to Caltrain weekdays
- School Trippers restored

### **Additional service**

- At school times: 14R Mission Rapid short, 29 Sunset, 48 Quintara-24<sup>th</sup> Street
- Increased frequency during weekend midday: 22 Fillmore

### **Reduced Service**

- 5 Fulton during weekend midday
- 28 19<sup>th</sup> Avenue, now every 12 minutes





# **Fall Ridership Changes**

Most crowded routes with the highest ridership showing growth compared to last year



\*"28 19<sup>th</sup> Ave" ridership includes both local (12,351) and 28R 19<sup>th</sup> Avenue Rapid (3,608) ons



# Weekday – Most Crowded Routes % of trips with crowding

Top lines with over 10% of trips crowded in a single hour. "Crowded Trip" means at least 5% of stops had load that was at or over the crowding capacity

		0600 AM Peak (6am-9am)			0900 Mid-Day (9am-2pm)					1400 School (2pm-4pm)		1600 PM Peak (4pm- 7pm)		
Route	Month of Service	6	7	8	9	10	11	12	13	14	15	16	17	18
24 Divisadero	August 2023	2%	24%	4%	1%	0%	0%	0%	1%	5%	19%	6%	2%	0%
	September 2023	1%	21%	2%	1%	0%	0%	0%	0%	5%	23%	5%	5%	0%
28 19th Avenue	August 2023	0%	17%	17%	3%	2%	1%	1%	8%	18%	31%	3%	10%	1%
	September 2023	0%	8%	12%	1%	1%	1%	1%	4%	13%	26%	13%	4%	1%
29 Sunset	August 2023	1%	37%	20%	1%	2%	1%	1%	6%	26%	34%	16%	9%	0%
	September 2023	0%	24%	10%	1%	1%	4%	1%	5%	26%	33%	14%	5%	1%
38R Geary Rapid	August 2023	0%	6%	7%	0%	0%	0%	1%	0%	2%	8%	4%	6%	1%
	September 2023	0%	11%	7%	0%	0%	0%	0%	0%	2%	11%	9%	8%	1%
44 O'Shaughnessy	August 2023	6%	45%	5%	1%	0%	0%	0%	3%	6%	43%	17%	1%	0%
	September 2023	6%	29%	7%	1%	0%	0%	0%	2%	6%	27%	17%	3%	0%
48 Quintara/24th	August 2023	2%	25%	20%	0%	0%	0%	1%	1%	12%	29%	16%	0%	0%
	September 2023	1%	23%	17%	2%	0%	2%	6%	2%	11%	17%	13%	0%	0%
49 Van Ness/Mission	August 2023	2%	29%	7%	1%	0%	0%	0%	1%	11%	11%	22%	2%	0%
	September 2023	4%	26%	6%	0%	0%	1%	0%	1%	10%	13%	19%	8%	1%

# **January 20 Service Changes**

### **Increasing frequency:**

- At school times: 24 Divisadero, 29 Sunset, 38R Geary Rapid, 44 O'Shaughnessy, 48 Quintara-24<sup>th</sup> Street, 49 Van Ness/Mission
- On weekends: 28 19<sup>th</sup> Avenue

### **Decreasing frequency:**

 5 Fulton and Rapid, 9 San Bruno, 33 Ashbury/18<sup>th</sup> Street

### Adding stops on the 15 Bayview Hunters Point Express:

- 4<sup>th</sup> & Berry/Caltrain (OB), 3<sup>rd</sup> & Brannan Ballpark (IB)
- Hudson & Cashmere (IB & OB)





# **Equity Strategy Background**



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### Rooted in Muni Service Equity Policy

### **Builds on Title VI requirements**

Neighborhood based approach with disability access addressed city-wide

Policy developed in collaboration with transportation equity and affordable housing advocates

Ensures that investment in Muni system benefits people who rely on transit and need it most

Updated every two years and timed to inform the SFMTA's biennial budget

# **Next Steps**

- Develop FY25/26 Muni Equity Strategy recommendations and convene working group
- Identify service needs through the Bi-annual Service Evaluation process and prioritize resources through the Equity Strategy Principles
- Continue to invest in reliability and travel time improvements throughout the network
- Continue to make cost-neutral service changes





# **Transition to a Zero-Emission Fleet**

at the

5008

CA49819

18 3rd St + 20th St

Battery Powered

# **Climate Action**

### Muni accounts for < 0.001%

of all greenhouse gas emissions in San Francisco

Private cars and trucks account for about 30%



#### Greenhouse Gas Emissions San Francisco, 2020



### The best way to reduce vehicle emissions is to make **transit more reliable.**

Walking, rolling and using transit need to be more convenient and attractive than driving.

Right now, more reliable transit requires **more hybrid buses**.





# **Fleet Management Transformation**

- Maintain consistent fleet average age
- Performance-based procurements
- Uphold robust maintenance standards and midlife investments
- Align with city's sustainability goals





### **Progress Towards Zero Emissions**

- 2007: SFMTA early adopter of hybrid buses transition technology for battery-electric vehicles (BEB)
- 2016: Engine auto stop-start feature introduced to 54 buses, reducing idling times and emissions
- 2018: Green Zones introduced to 68 buses– hybrid buses run entirely on batteries through historically impacted communities

### Muni runs the greenest fleet of any major city in North America



### **Progress: Battery Electric Bus Pilot**









### **Progress: Woods Charging Station**







### **Progress: Potrero** Creating a New Trolley Hub





### **Lessons & Challenges**

- COVID-19 delayed progress and highlighted the importance of fleet resilience and flexibility
- 2021 Climate Action Plan puts fleet electrification in the context of broader climate actions
- Failure of 2022 GO Bond significantly reduced our ability to fund facility improvements and federal grant record has been mixed
- PG&E timelines are longer than expected *Outcome:* Facility upgrades not keeping up with vehicle replacement needs



### **New Zero Emission Vehicle Policy**

- Aligns with the California Air Resources Board's Innovative Clean Transit (ICT) regulation, which is currently 2040 for 100% zero emissions fleet.
- Allows the SFMTA to continue to procure batteryelectric, hybrid and trolley buses as laid out in the SFMTA's CARB Rollout Plan.
- Integrates fleet electrification initiatives with broader climate change initiatives focused on mode-shift.





The **Electrification/Retrofit Program** is an element of the Building Progress Program and is currently being updated to reflect updated electrification policy/ lessons learned.

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### **Next Steps**

- Continue to test/refine in motion charging trolleys
- Designate Potrero rebuild as trolley hub (60ft trolleys will be stored during construction)
- Revise Building Progress delivery timeline to reflect project delivery lessons learned and vehicle replacement priorities
- Buy a combo of hybrids and electrics through 2030

   BEBs would increase at pace of facility upgrades and available funding



## **Trolleybuses are a critical part** of a zero-emission future

**In-Motion Charging** holds promise for some **trolley** expansion in the future





### **Proposed Procurement Plan**





FY 25/26 - 112 hybrid electric buses need to be replaced

- Recommending procuring both hybrid and battery-electric buses
- 12 40 ft Battery Electric Buses
- 6 60 ft Battery Electric Buses
- 94 40 ft Hybrid Buses

FY 27-29 procurement will also require a combination of hybrid and battery electric buses



# **A Just Transition for our Workers**

Transition to zero-emissions vehicles won't cut jobs



- Minimal training needed to transition staff
- Expanded workforce for infrastructure maintenance

Labor Task	Union
BEB Maintenance	Local 1414
Trolley Maintenance	IBEW Local 6
Overhead & Charging Infrastructure	IBEW Local 6
Electronic Component Repair	IBEW Local 6





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### **Risks**

- The Building Progress is a "pay-go" program, and with planning, design, construction and funding advocacy occurring simultaneously
- Funding and subsequent impact on schedule, delivery and cost (due to escalation) are risks that to date we have managed but remain
- Vehicle procurement approach therefore must be adaptable as we manage these risks

29

# Thankyou

