



SFMTA

2022 Muni Reliability and Street Safety Bond

Proposed City & County San Francisco General Obligation Bond



Board of Supervisors
Budget and Finance Committee
January 26, 2022

Overview



The General Obligation Bond would help close the T2050 funding gap

based on refined estimates to a year-by-year model.



INVESTING EQUITABLY



Fast and
Convenient
Transit



More Repairs
and
Maintenance



Improving
Safety
and Access

\$10.6B

What the vision will require us to spend over 10-years

\$4.8B

We will spend over the next 10-years (all sources)

(\$5.8B)

T2050 Funding Gap
Cumulative total over 10-years



Improvement



Reliability



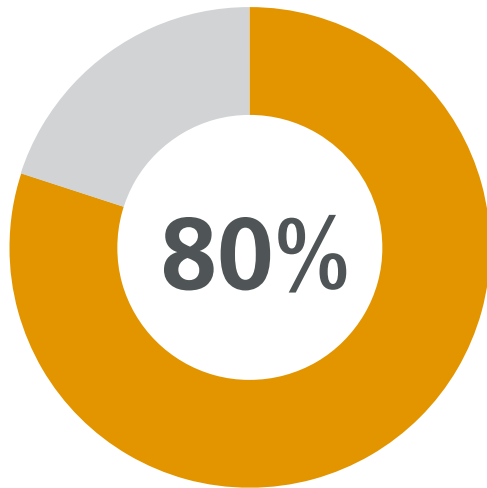
Safety



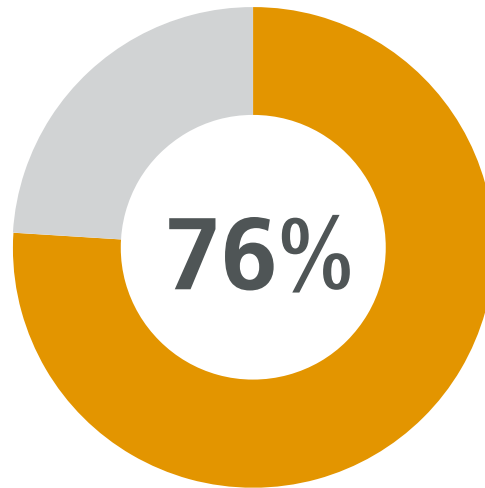
Fast and Convenient Transit



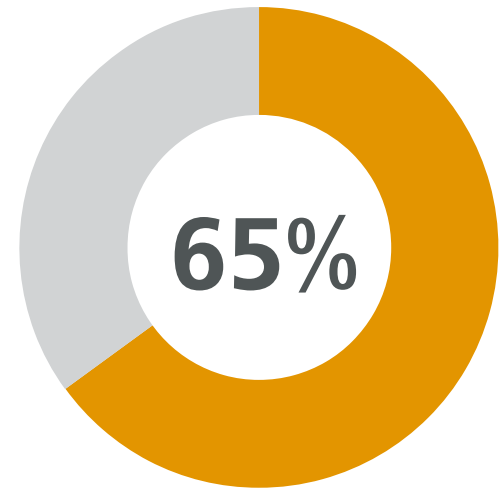
A majority of survey respondents say it is “very important” or “extremely important” to ...



Provide quick, convenient transit access to all parts of San Francisco



Reduce delays to make Muni more reliable



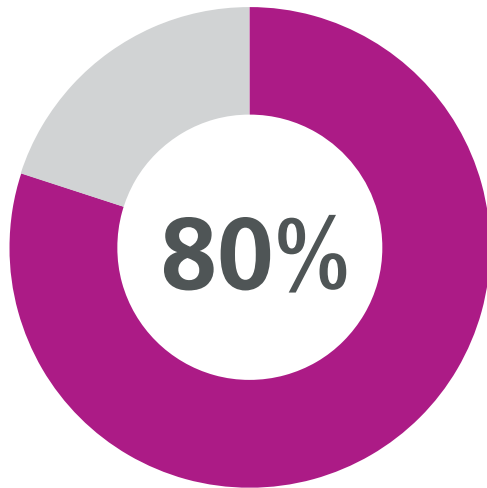
Reduce crowding on Muni

Source: San Francisco citywide survey conducted by FM3, April 2021

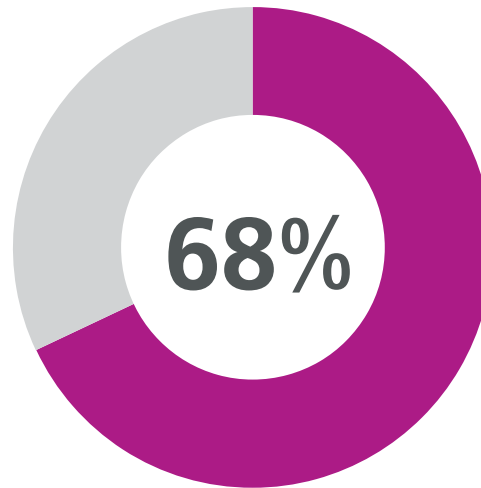
More Repairs and Maintenance



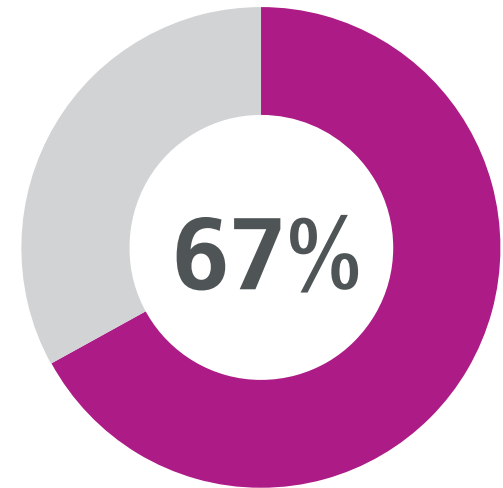
A majority of survey respondents say it is “very important” or “extremely important” to ...



Repair and maintain Muni equipment and facilities to ensure vehicles’ safety, frequency, and reliability



Address the backlog of maintenance work



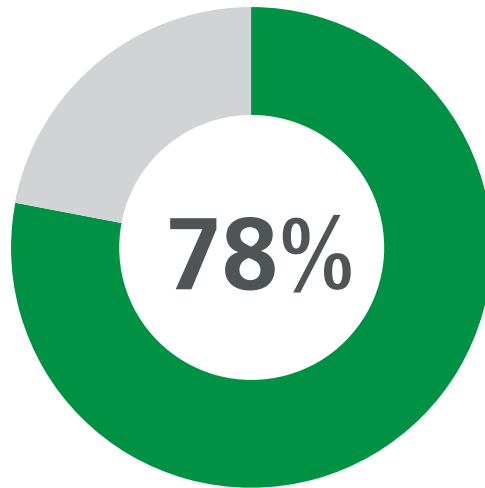
Rebuild San Francisco’s aging rail network

Source: San Francisco citywide survey conducted by FM3, April 2021

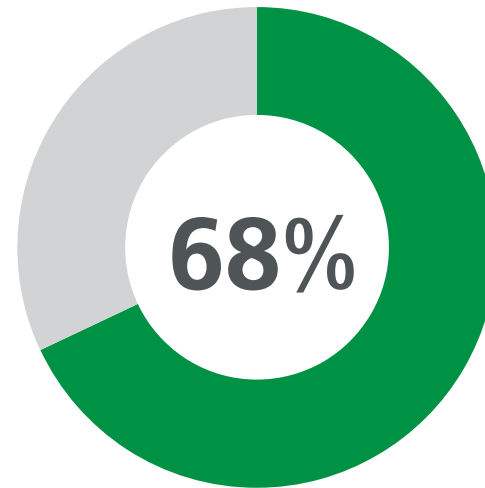
Improving Safety and Access



A majority of survey respondents say it is “very important” or “extremely important” to ...



Ensure Muni service is inclusive and accessible to all



Make street safety improvements for walking

Source: San Francisco citywide survey conducted by FM3, April 2021



Key elements to consider in programming general obligation bonds includes the following:

Project Delivery

- Projects can proceed with significant cashflow within 1-3 years
- Project concepts and initial planning and outreach largely complete
- Staffing resources are in place to deliver the project as programmed

Delivered Asset

- Projects should deliver tangible assets or extend the life of assets
- Overall, the assets should have a useful life of 15 years or more
- Typically civil, transit infrastructure, building, or signal infrastructure

Critical Need

- Gap in funding exists based on existing planning documents or work
- Projects or programs have few other funding alternatives (state, federal)



2022 Muni Reliability and Street Safety Bond



GO BOND COMPONENTS

Make the Transportation System Work Better

Amount (\$m)

Speed up Muni repairs and keep public transit moving by repairing, upgrading and maintaining aging bus yards, facilities and equipment

\$250

Enable faster, more reliable and more frequent Muni service by improving on-street infrastructure for public transit

\$26

Increase subway capacity, reduce delays, and deliver dependable, high-frequency transit by modernizing the Muni train control system

\$10

Improve Street Safety and Traffic Flow

Improve safety and visibility at intersections by upgrading traffic signals, signage, and crossings

\$42

Increase safety for walking and bicycling and access for Muni connections along major corridors by redesigning streets and sidewalks

\$42

Slow speeds and reduce crashes by implementing traffic calming and speed reduction tools

\$30

TOTAL

\$400

2022 Muni Reliability and Street Safety Bond



\$250M

Make the Transportation System Work Better
Repair, upgrade, and maintain aging facilities and equipment



Electrification Infrastructure (Trolley & E-Bus)



Seismic Upgrades & Building Replacement



Bus Washers & Maintenance Bay Replacement



Capacity Expansion for Growing Fleet

2022 Muni Reliability and Street Safety Bond



\$26M

Make the Transportation System Work Better
Muni Network Improvements



Dedicated Transit Only Lanes



Transit Signal Priority & Signal Upgrades



Boarding Improvements (Islands & Sidewalks)



Travel Time Reduction Improvements/Projects

2022 Muni Reliability and Street Safety Bond



\$10M

Make the Transportation System Work Better
Muni Rail Modernization, primarily upgrading the train control system.



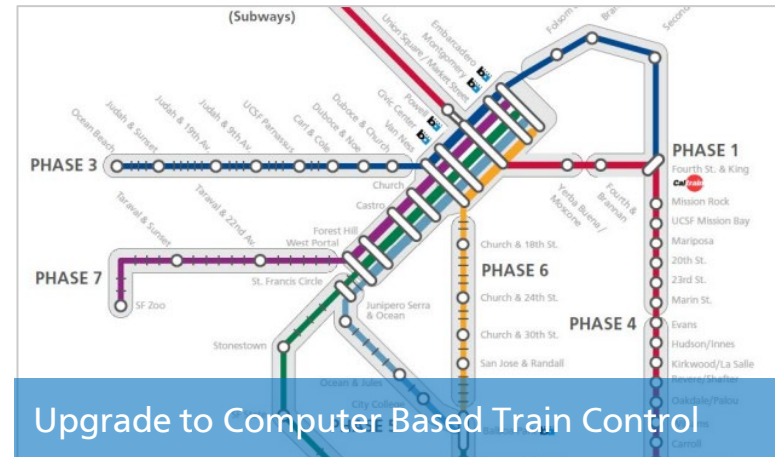
Automatic Train Control System Replacement



Surface Train Control



Tunnel & Infrastructure Improvements



Upgrade to Computer Based Train Control

2022 Muni Reliability and Street Safety Bond



\$42M

Improve Street Safety and Traffic Flow
Traffic Signal and Street Crossing Improvements in Equity Neighborhoods



Traffic Signal & Infrastructure Replacement



Audible Pedestrian Signals



Pedestrian Countdown Signals



Corridor and Full Intersection Improvements

2022 Muni Reliability and Street Safety Bond



\$42M

Improve Street Safety and Traffic Flow
On-Street Improvements



Corridor Bicycle Network Improvements



Corridor Pedestrian Safety Improvements



Complete Street Corridor Improvements

2022 Muni Reliability and Street Safety Bond



\$30M

Improve Street Safety and Traffic Flow **Speed Management Program**



Traffic Calming/Speed Reduction



High Injury Network Intersections & Corridors



Quick Build Safety Improvements

Thank You.

San Francisco

TRANSPORTATION 2050



APPENDICES

Budget & Finance Presentation

January 26, 2021

San Francisco

TRANSPORTATION 2050





Make the Transportation System Work Better

Repair, upgrade, and maintain aging facilities and equipment

Program Summary

To speed up Muni repairs and maintenance and keep public transit moving, we will repair, renovate, and modernize SFMTA bus yards, facilities, and equipment through the agency's Building Progress program.

Project Prioritization Criteria

Equity

Access

Safety

\$250M

Why is this program important?

Efficient and timely repairs to buses and trains increases Muni's reliability and saves the SFMTA money.

Larger yards provide needed space for a growing Muni fleet.

Improved working conditions for frontline staff give them modern tools and space to efficiently do their jobs in earthquake-ready facilities.

SFMTA is working towards a 100% zero-emission fleet as part of its leadership in confronting climate change. Renovated yards will support the electric vehicle charging infrastructure needed to achieve a zero-emissions fleet.



Make the Transportation System Work Better **Muni Network Improvements**

Program Summary

Muni Network Improvements consist of smart traffic signals, wider sidewalks and bus bulbs, and dedicated transit lanes to reduce travel times and keep buses and rail moving.

Project Prioritization Criteria

Ridership

Service Frequency

Equity

Network Connectivity

\$26M

Why is this program important?

Improvements will go to routes that carry 80% of Muni riders including passengers who depend most on public transportation.

Improvements will go to routes that have shown crowding during peak hours in winter of 2020.

Transit priority improvements have demonstrated 10-25% travel time savings in past projects. Collectively, these improvements support a more reliable bus and rail network.

Freeing buses from traffic allows Muni to serve more people with less resources. These savings can be reinvested in the system.



Make the Transportation System Work Better **Muni Rail Modernization, primarily upgrading the train control system.**

Program Summary

Modernize systems that are key for operating the transit system. Replacing the aging train control system, wayside signals, switch machines, and supporting guideway infrastructure.

Project Prioritization Criteria

Ridership

Service Frequency

Equity

Network Connectivity

\$10M

Why is this program important?

Modernized train management leads to more efficient operations and reduces bunching and gaps between trains.

New train communications systems allows for longer trains, reduced crowding, and capacity for future growth.

The current, aging train control system is frequently responsible for slowdowns in the Market Street Subway. Upgrading this system would make the schedule more dependable and travel times more consistent.

The new train control system will complement Muni's new light rail fleet to optimize the riding experience for Muni patrons.

2022 Muni Reliability and Street Safety Improvement Bond



Improve Street Safety and Traffic Flow **Traffic Signal and Street Crossing Improvements in Equity Neighborhoods**

Program Summary

Traffic signal upgrades improve safety and visibility at intersections and other places where people may be crossing the street.

Project Prioritization Criteria

Equity

Collision History

Traffic Volumes

Multiple Mode Benefits

\$42M

Why is this program important?

Signal upgrades make intersections work for everyone, especially people with disabilities and other vulnerable road users.

Improvements will be made on the High Injury Network where a preponderance of traffic deaths and severe injuries are concentrated. Streets in historically disadvantaged communities are almost twice as likely to be on the High Injury Network.

2022 Muni Reliability and Street Safety Improvement Bond



Improve Street Safety and Traffic Flow On-Street Improvements

Program Summary

Redesigning major corridors of the public right of way enhances the quality and use of public spaces, improves safety for all street users, improves Muni access and service, and fixes critical aging transportation infrastructure.

Project Prioritization Criteria

Collision History

Equity Neighborhoods

Nearby Destinations

Community Requests

\$42M

Why is this program important?

This program will focus on quality-of-life improvements along key corridors by providing a better experience for residents, visitors, and workers who bike, walk, and take transit.

The program builds on near-term improvements designed to address collision and fatality trends to transform corridor street design and make safety improvement more permanent.

Multimodal enhancements will support increased housing density, affordability, and mobility.

Corridor improvements to support existing and new investment in commercial corridors.

2022 Muni Reliability and Street Safety Improvement Bond



Improve Street Safety and Traffic Flow Speed Management Program

Program Summary

Implement proven interventions to slow motor vehicle speeds and improve safety, such as application-based residential traffic calming, lowered speed limits along neighborhood corridors, and speed radar signs to improve driver awareness.

Project Prioritization Criteria

Collision History

Equity Neighborhoods

Nearby Destinations

Community Requests

\$30M

Why is this program important?

Every year in San Francisco, about 30 people lose their lives and over 500 more are seriously injured while traveling on city streets.

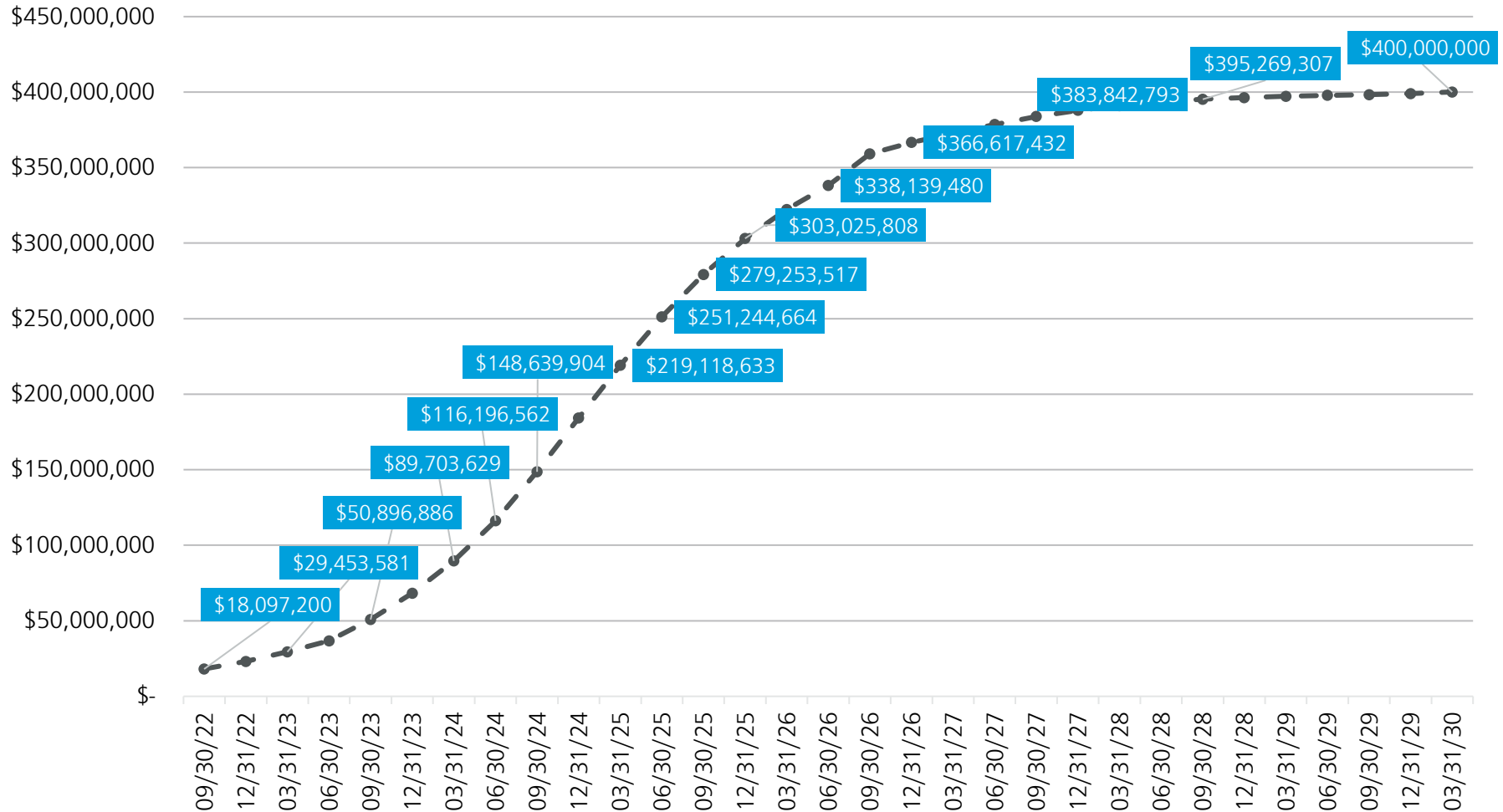
The higher the speed of a crash, the higher the chances are that someone will be killed or seriously injured.

This program invests in street design that supports slower speeds to protect lives.

2022 Muni Reliability and Street Safety Improvement Bond



\$400M Transportation Bond – Spend-down Projection*

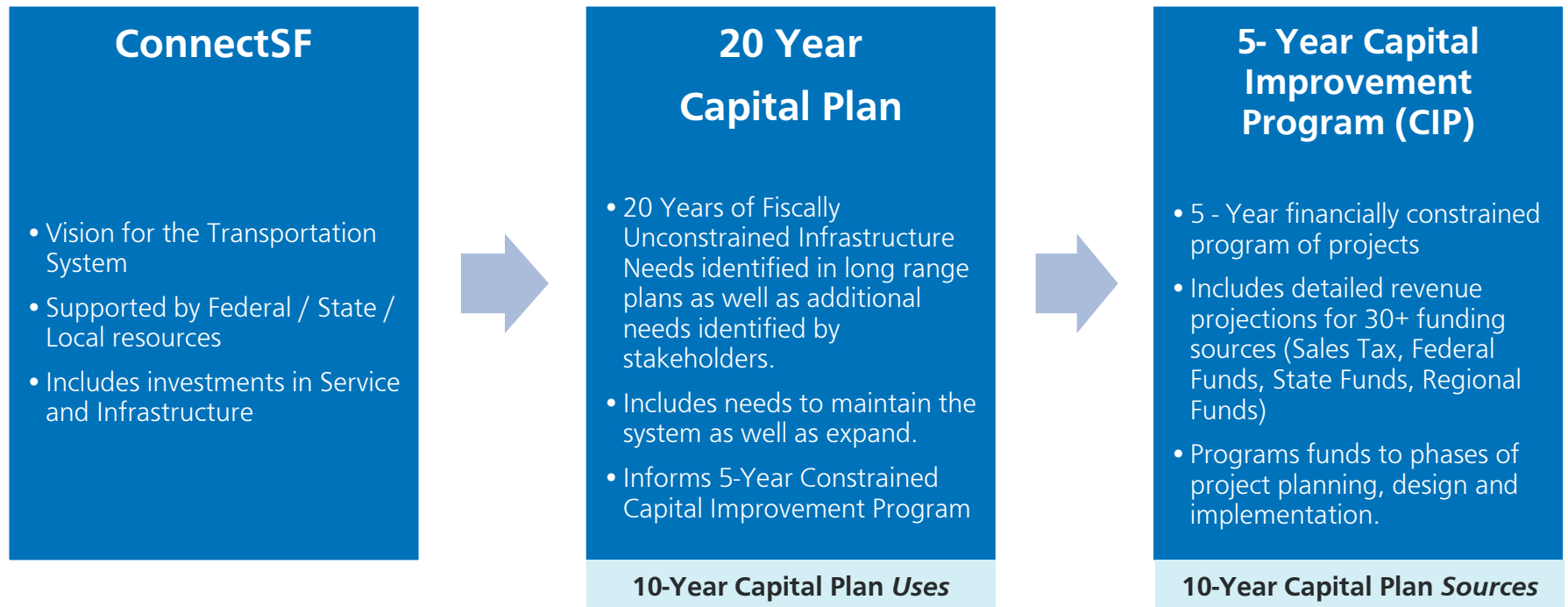


*Based on cashflow requirements of eligible projects under the proposed bond program



Transportation 2050 – Needs and Gaps

The SFMTA took the **vision of ConnectSF** and the capital needs in the agency’s **Capital Plan** and looked at operational and capital needs for **the next 30-years**.



Reference: [Transportation 2050](#)