





### Background

- In 2014, the City completed a Citywide Nexus Analysis and the Infrastructure Level of Service Analysis for a number of infrastructure categories.
- In 2015, the City completed a Transit Sustainability Fee Nexus Study and proposed changes to transit impact fees.
- The City is required to update the nexus study every five years. This
  project will update both of those studies into a single, updated Citywide
  Nexus Study.

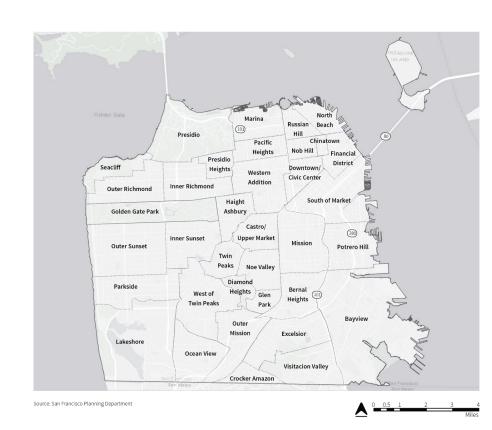
#### Infrastructure Categories Evaluated

- Open space and recreation facilities
- Child care facilities
- Transit
- Bicycle, Pedestrian and Streetscape improvements (Complete Streets)
- Fire facilities\*
- Library facilities\*

Note: All relevant City agencies have been consulted

### Infrastructure Level of Service Overview

- Evaluates existing levels of infrastructure provision and distribution
- Sets forth citywide LOS targets
- Provides the foundation for the Nexus Analysis



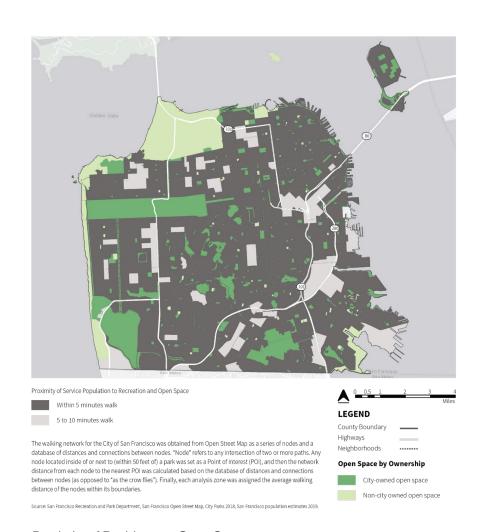
# Level of Service Analysis and Goals Recreation and Open Space

#### Level of Service Analysis

- 3.0 acres of City-owned open space per 1,000 service population units
- 100% of SPU are within a 10-minute (half-mile) walk of open space

#### Goals

- Maintain 3.0 acres of City-owned open space per 1,000 service population units
- Maintain 100% of SPU within a 10-minute (half-mile) walk of public open space, and improve quality of open space



Proximity of Residents to Open Space

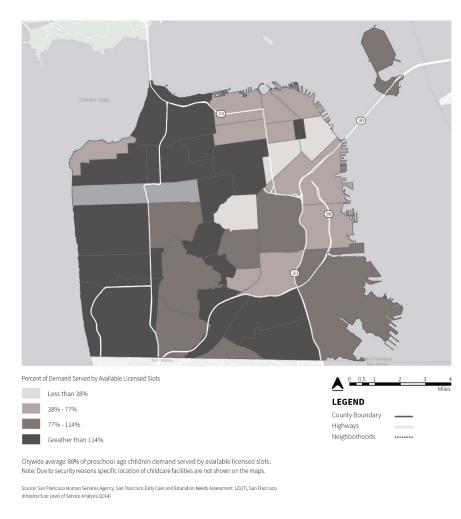
## Level of Service Analysis and Goals Child Care Facilities

### Level of Service Analysis

- 19% of infant/toddler child care demand served by available slots
- 88% of preschool child care demand served by available slots

#### Goals

- Accommodate 100% of new demand for infant/toddler child care space
- Accommodate 100% of new demand for preschool child care space



Share of Preschool-age (3-4) Child Care Demand Served by Available Licensed Slots

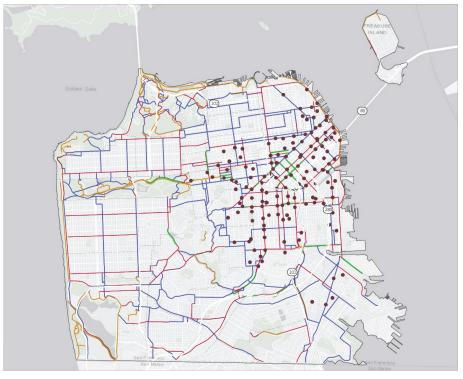
# Level of Service Analysis and Goals Complete Streets Infrastructure

### Level of Service Analysis

118 square feet of Complete Streets
 Sidewalk per service population unit

#### Goals

Maintain 118 square feet of Complete
 Streets Sidewalk per service population unit





1. Bikeways, also known as bike paths or shared-use paths, are facilities with exclusive right of way for bicyclists and pedestrians, away from the roadway and with cross flows by motor traffic minimized. Some systems provide separate pedestrian facilities

2. Bikeways are bike lanes established along streets and are defined by pavement striping and signage to delineate a portion of a roadway for bicycle travel. Bike lanes are one-way facilities, typically striped adjacent to motor traffic travelling in the same direction.

3. Bikeways, or bike routes, designate a preferred route for bicyclists on streets shared with motor traffic not served by dedicated bikeways to provide continuity to the bikeway network. Bike routes are generally not appropriate for roadways with higher motor traffic speeds or volumes.

4. Separated bikeway, often referred to as a cycle track or protected bike lane, is for the exclusive use of bicycles, physically separated from motor traffic with a vertical feature.

Source: SFMTA Bikeway Network, Bike Share Stations, Bikeway Classification Brochure by Caltra

#### Existing Bike Facilities



## Level of Service Analysis and Goals

### Transit Infrastructure

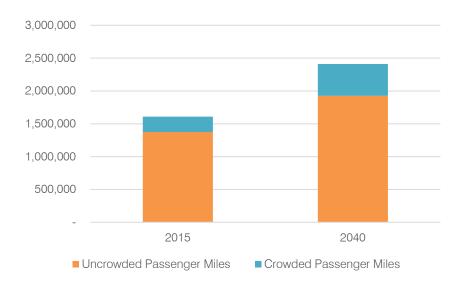
#### Level of Service Analysis

- 15% of passenger miles traveled in crowded conditions
- 1.45 revenue service hours per 1,000 daily trips

#### Goals

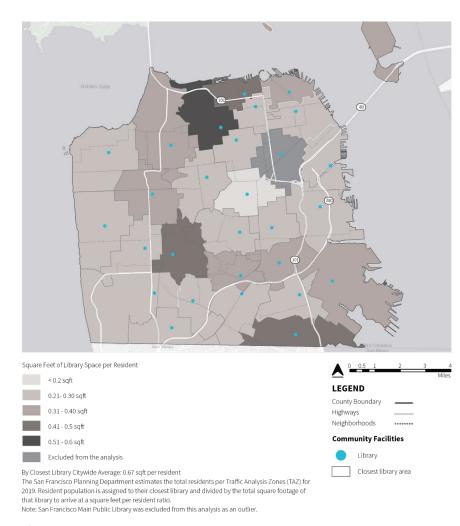
Maintain existing LOS

#### Transit Crowding LOS Standard In 2015 and 2040



### Level of Service Analysis and Goals **Library Facilities**

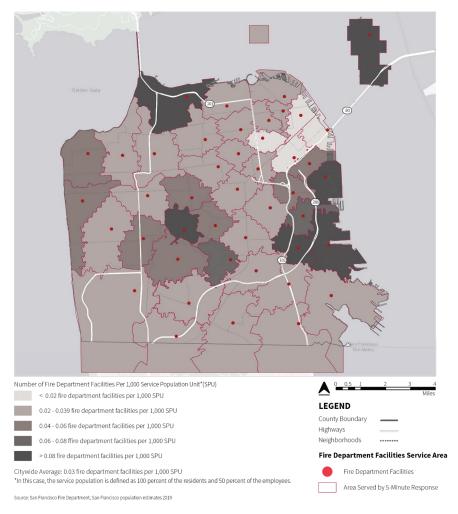
- Level of Service Analysis
  - 0.67 square feet of library per resident
- Goals
  - Maintain 0.6 square feet of library per resident



Square Feet of Library per Resident

# Level of Service Analysis and Goals Firefighting Facilities

- Level of Service Analysis
  - 0.04 fire stations per 1,000 service population units
- Goals
  - Maintain 0.04 fire stations per 1,000 service population units



Fire Department Facilities per Capita

### Nexus Study Overview

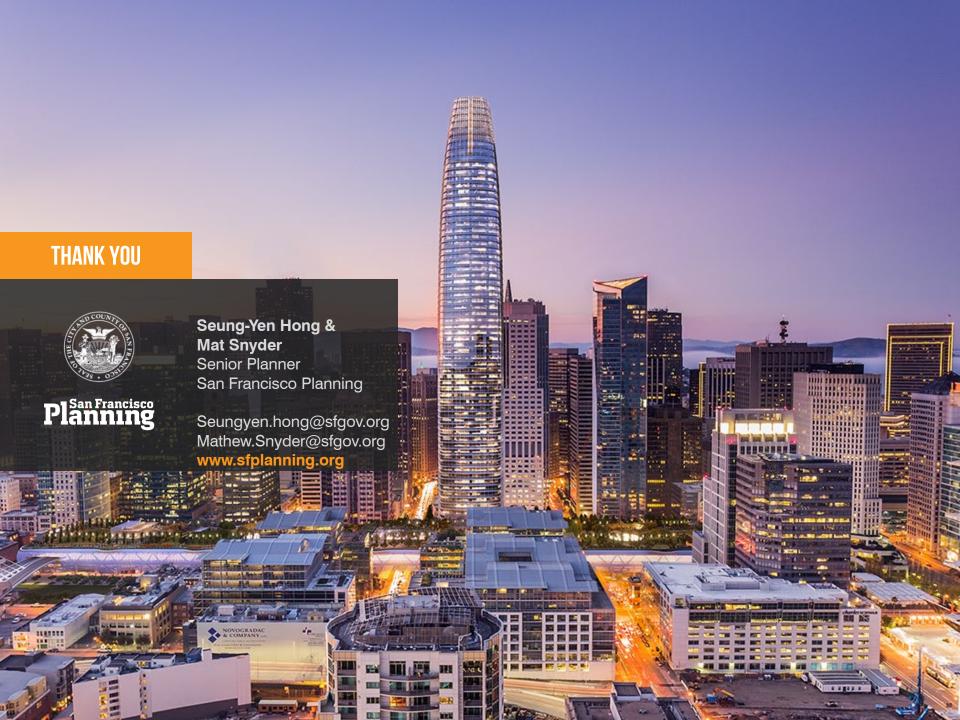
- Nexus Study: documents the relationship (i.e. nexus) between new development and the need for additional infrastructure
- Establishes the cost to serve the new population brought on by new development largely based on LOS
- Nexus Fee Amounts: Maximum infrastructure fee the City can change based on expected costs in relationship to amount of development
- Meets the requirements of the California Mitigation Fee Act and of Section 410 of the City Planning Code, which requires that all nexus studies be updated on a five-year basis.

### Nexus Study Methodology

- A Level Of Service (LOS) based approach: Recreational and open space; Child care facilities; Transit; Complete Streets; Firefighting facilities; and Library facilities
  - Development's share of the cost to provide the target level of service.
- A linkage approach: Child care
  - Development's share of the cost to meet the new demand created by that development.

### **Next Steps**

- Complete the Nexus Study report Winter 2021
- Adopt the study and update references in Chapter 4 of the Planning Code – Spring 2022



## **Existing Fees**

Fee Area	Recreational and Open Space	Child Care	Complete Streets	Transit	Total Impact Fee
Residential Fees (\$/GSF)					
Child Care: Citywide	-	\$2.15	-	-	\$2.15
Transit Center - Transportation	-	-	\$5.00	\$9.00	\$14.00
Transit Center - Open Space	\$3.38	-	-	-	\$3.38
Transportation Sustainability Fee	-	-	\$0.32	\$9.98	\$10.29
Balboa Park	\$3.66	\$1.89	\$4.80	\$1.64	\$12.00
Eastern Neighborhoods	\$12.00	\$1.64	\$7.83	\$2.53	\$24.00
Market/Octavia	\$2.98	\$1.14	\$6.25	\$3.12	\$13.49
Market/Van Ness SUD	\$5.00	\$2.01	\$10.48	\$5.00	\$22.49
Rincon Hill	\$2.17	-	\$10.73	-	\$12.90
Visitacion Valley	\$2.27	\$1.51	\$3.09	-	\$6.87
Central SoMa - Infrastructure	\$10.47	-	-	\$9.53	\$20.00
Maximum Fee	\$22.47	\$2.15	\$17.04	\$22.04	-
Commercial Fees (\$/GSF)					
Child Care: Citywide	-	\$1.85	-	-	\$1.85
Downtown Park Fee	\$3.00	-	-	-	\$3.00
Union Square Park Fee	\$6.00	-	-	-	\$6.00
Transit Center - Transportation <sup>5</sup>	-	-	\$11.00	\$21.00	\$32.00
Transit Center - Open Space	\$12.00	-	-	-	\$12.00
Transportation Sustainability Fee	-	-	\$0.74	\$23.30	\$24.04
Balboa Park	\$0.69	\$0.36	\$0.90	\$0.31	\$2.25
Eastern Neighborhoods	\$1.33	\$0.44	\$7.52	\$11.72	\$21.00
Market/Octavia	\$0.75	-	\$3.27	\$1.07	\$5.10
Market/Van Ness SUD	\$4.73	-	\$7.10	\$10.65	\$22.49
Rincon Hill	\$2.17	-	\$10.73	-	\$12.90
Visitacion Valley	\$2.27	\$1.51	\$3.09	-	\$6.87
Central SoMa - Infrastructure	-	-	-	\$41.50	\$41.50
Maximum Fee	\$15.00	\$1.85	\$11.74	\$76.52	-

## Nexus Study Methodology Transit Infrastructure

- The Transportation Sustainability Fee (TSF) is a citywide development fee that funds costs associated with increased transit service provided by SFMTA to accommodate development impacts.
- To determine the maximum possible transit fee, the analysis updates two components of the TSF, one component to fund transit capital maintenance and one component to fund transit capital facilities.

## Nexus Study Methodology Recreational and Open Space

- Purpose of the recreational and open space development impact fee revenue is to fund expansion of San Francisco's park capacity to meet the demand from new development.
- Maximum supportable fee calculation for recreation and open space infrastructure combines the proposed recreation and open space LOS metric with residential and job growth projections and the cost to provide recreation and open space.

	Proposed (Max)	Existing (Max)	Percent of Existing Fee Covered by Maximum Supportable Nexus (Maximum/Existing)	Proposed Max > 10% Above Existing
Residential (\$/GSF)	\$46.22	\$22.47	206%	YES
Non-Residential (\$/GSF)	\$33.05	\$15.00	220%	YES

# Existing and Proposed Level of Service Recreation and Open Space

	2014 LOS Analysis	2019 LOS Analysis
	Recreational and Ope	n Space
Metrics	<ul> <li>Acres of City-owned open space per 1,000 service population units</li> <li>Acres of open space per 1,000 adjacent residents</li> </ul>	<ul> <li>Acres of City-owned open space per 1,000 service population units</li> <li>Percent of service population units within a 10-minute (half-mile) walk of open space</li> </ul>
Level of Service	<ul> <li>4.0 acres of City-owned open space per 1,000 service population units</li> <li>Average of 2.7 acres of open space per 1,000 adjacent residents; Median of 0.7</li> </ul>	<ul> <li>3.0 acres of City-owned open space per 1,000 service population units</li> <li>100% of SPU are within a 10-minute (half-mile) walk of open space</li> </ul>
Goals	<ul> <li>Maintain 4.0 acres of City-owned open space per 1,000 service population units</li> <li>Achieve 0.5 acres of open space per 1,000 adjacent residents at all parks</li> </ul>	<ul> <li>Maintain 3.0 acres of City-owned open space per 1,000 service population units</li> <li>Maintain 100% of SPU within a 10-minute (half-mile) walk of public open space, and improve quality of open space</li> </ul>

# Existing and Proposed Level of Service Child Care Facilities

	2014 LOS Analysis	2019 LOS Analysis
	Child Care Facili	ties
Metrics	<ul> <li>Percent of infant/toddler child care demand served by available slots</li> <li>Percent of preschool child care demand served by available slots</li> </ul>	<ul> <li>Percent of infant/toddler child care demand served by available slots</li> <li>Percent of preschool child care demand served by available slots</li> </ul>
Level of Service	<ul> <li>37% of infant/toddler child care demand served by available slots</li> <li>99.6% of preschool child care demand served by available slots</li> </ul>	<ul> <li>19% of infant/toddler child care demand served by available slots</li> <li>88% of preschool child care demand served by available slots</li> </ul>
Goals	<ul> <li>Maintain 37% LOS capacity for infant/toddler child care demand</li> <li>Achieve 100% LOS capacity for preschool child care demand</li> </ul>	<ul> <li>Accommodate 100% of new demand for infant/toddler child care space</li> <li>Accommodate 100% of new demand for preschool child care space</li> </ul>

# Existing and Proposed Level of Service Complete Streets Infrastructure

	2014 LOS Analysis	2019 LOS Analysis
	Complete Stree	ets
Metrics	Square feet of improved sidewalk per service population unit	<ul> <li>Square feet of Complete Streets</li> <li>Sidewalk per service population unit</li> </ul>
Level of Service	103 square feet of sidewalk per service population unit	<ul> <li>118 square feet of Complete Streets</li> <li>Sidewalk per service population unit</li> </ul>
Goals	88 square feet of improved sidewalk per service population unit	<ul> <li>Maintain 118 square feet of Complete Streets Sidewalk per service population unit</li> </ul>

### Existing and Proposed Level of Service Transit Infrastructure

	2014 LOS Analysis	2019 LOS Analysis
	Transit	
Metrics	<ul> <li>Transit crowding: boardings exceeding 85% of vehicle capacity</li> <li>Transit travel time</li> </ul>	<ul> <li>Transit crowding: passenger miles in vehicles with less than three square feet per standing passenger</li> <li>Transit maintenance</li> </ul>
Level of Service	<ul><li>No LOS reported</li><li>33.7 minutes per average travel time</li></ul>	<ul> <li>15% of passenger miles systemwide in crowded conditions</li> <li>1.45 revenue service hours provided per 1,000 daily auto plus transit trips</li> </ul>
Goals	<ul><li>Decrease crowding</li><li>33.6 minutes per average travel time</li></ul>	<ul> <li>Improve existing LOS (decrease percent crowded passenger miles)</li> <li>Maintain existing LOS</li> </ul>

# Existing and Proposed Level of Service Library Facilities

	2014 LOS Analysis	2019 LOS Analysis
	Library Facilitie	es
Metrics	<ul> <li>Not included in 2014 report</li> </ul>	<ul> <li>Square feet of library per resident</li> </ul>
Level of Service	<ul> <li>Not included in 2014 report</li> </ul>	<ul> <li>0.67 square feet of library per resident</li> </ul>
Goals	Not included in 2014 report	<ul> <li>Maintain 0.6 square feet of library per resident</li> </ul>

# Existing and Proposed Level of Service Firefighting Facilities

	2014 LOS Analysis	2019 LOS Analysis
	Firefighting Facili	ties
Metrics	Not included in 2014 report	<ul> <li>Fire stations per 1,000 service population units</li> </ul>
Level of Service	Not included in 2014 report	0.04 fire stations per 1,000 service population units
Goals	Not included in 2014 report	<ul> <li>Maintain 0.04 fire stations per 1,000 service population units</li> </ul>

## Nexus Study Methodology Child Care Facilities

- Purpose of the child care development impact fee is to fund expansion of San Francisco's child care capacity to meet the demand from new development. That is, impact fee revenues are intended to be used to mitigate the child care demands of the increasing population.
- The child care fee uses a linkage approach. A linkage analysis for the nexus determination addresses the indirect social impacts caused by the addition of residents and businesses associated with new development, as compared to the direct public facility impacts addressed by traditional development fees.

	Proposed (Max)	Existing (Max)	Percent of Existing Fee Covered by Maximum Supportable Nexus (Maximum/Existing)	Proposed Max > 10% Above Existing
Residential (\$/GSF)	\$2.47	\$2.15	115%	YES
Non-Residential (\$/GSF)	\$4.86	\$1.85	263%	YES

# Nexus Study Methodology Complete Street Infrastructure

- Purpose of the complete streets development impact fee is to fund capital improvements to San Francisco's complete streets infrastructure.
- The maximum supportable fee calculation for complete streets infrastructure combines the proposed complete streets infrastructure provision LOS metric with total population and employment growth projections and the cost to provide complete streets infrastructure.

	Proposed (Max)	Existing (Max)	Percent of Existing Fee Covered by Maximum Supportable Nexus (Maximum/Existing)	Proposed Max > 10% Above Existing
Citywide				
Residential (\$/GSF)	\$16.19	\$8.15	199%	YES
Non-Residential (\$/GSF)	\$11.58	\$8.25	140%	YES
Downtown				
Residential (\$/GSF)	\$19.42	\$17.04	114%	YES
Non-Residential (\$/GSF)	\$13.89	\$11.74	118%	YES

### Nexus Study Methodology Library Facilities

- Currently, the City does not charge development impact fees for library infrastructure. The primary purpose of a library facilities impact fee would be to fund expansion of San Francisco's public library capacity to meet the demand generated by new development.
- The maximum supportable fee calculation for library facilities combines the proposed library infrastructure provision LOS metric with total population growth projection and the cost to provide library facilities.

	Proposed (Max)
Residential (\$/GSF)	\$2.50
Non-Residential (\$/GSF)	N/A

### Nexus Study Methodology Fire Department Facilities

- Currently, the City does not charge development impact fees for fire department facilities infrastructure. The purpose of the fire department facilities impact fee is to fund expansion of San Francisco's fire department capacity to meet the demand from new development.
- Estimates the maximum supportable fee based on the relationship between the cost to provide fire department facilities and the LOS provision to accommodate new development.

	Proposed (Max)
Residential (\$/GSF)	\$1.51
Non-Residential (\$/GSF)	\$1.08

## Summary of Nexus Maximum Fees

	Maximum Supportable Fee (determined by this Nexus)	Highest Existing Fee (2019 fee rates)	Percent of Existing Fee Covered by Maximum Supportable Nexus (Maximum/Existing)
Recreational and Open Space			
Residential (\$/GSF)	\$46.22	\$22.47	206%
Non-Residential (\$/GSF)	\$33.05	\$15.00	220%
Child Care			
Residential (\$/GSF)	\$2.47	\$2.15	115%
Non-Residential (\$/GSF)	\$4.86	\$1.85	263%
Complete Streets: Non-Downtown			
Residential (\$/GSF)	\$16.19	\$8.15	199%
Non-Residential (\$/GSF)	\$11.58	\$8.25	140%
Complete Streets: Downtown			
Residential (\$/GSF)	\$19.42	\$17.04	114%
Non-Residential (\$/GSF)	\$13.89	\$11.74	118%
Transit			
Residential (\$/GSF)	\$24.24	\$22.04 <sup>12</sup>	110%
PDR (\$/GSF)	\$46.82	\$9.45	495%
Non-Residential (ex. PDR) (\$/GSF)	\$83.75	\$76.52	110%
Libraries			
Residential (\$/GSF)	\$2.50	N/A	N/A
Non-Residential (\$/GSF)	N/A	N/A	N/A
Fire Department Facilities			
Residential (\$/GSF)	\$1.51	N/A	N/A
Non-Residential (\$/GSF)	\$1.08	N/A	N/A