COVID-19 Update

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Acting Health Officer
December 22, 2020

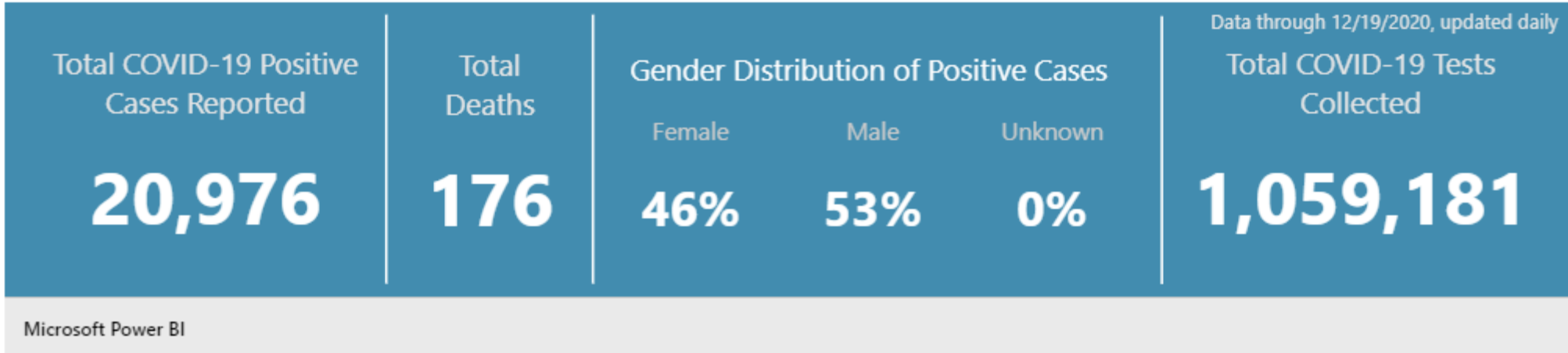SAN FRANCISCO DEPARTMENT OF PUBLIC HEALTH

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Presentation Outline

Status of COVID-19 in San Francisco

Decision-making process

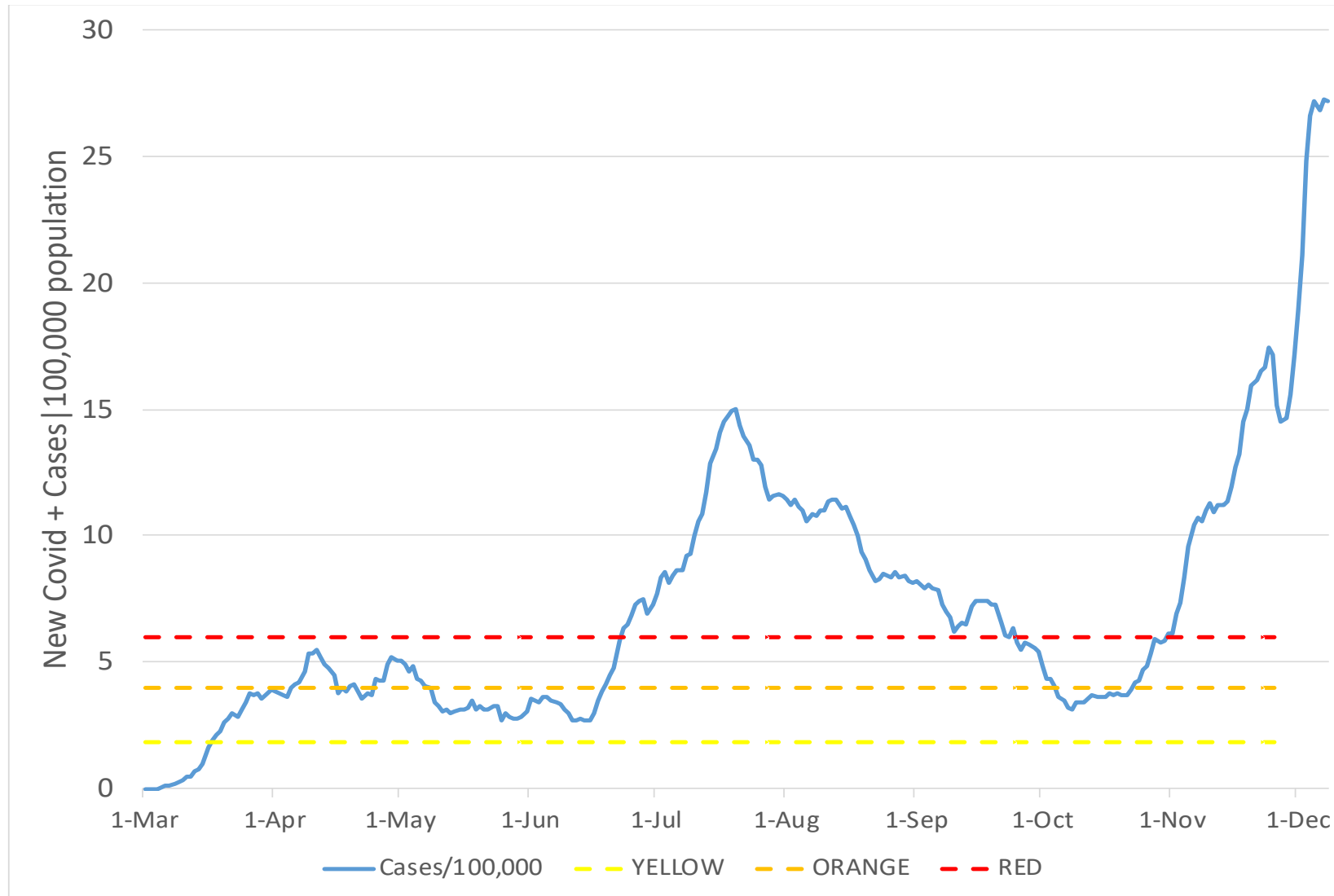Triggers & Data-markers

Status of COVID-19 in San Francisco
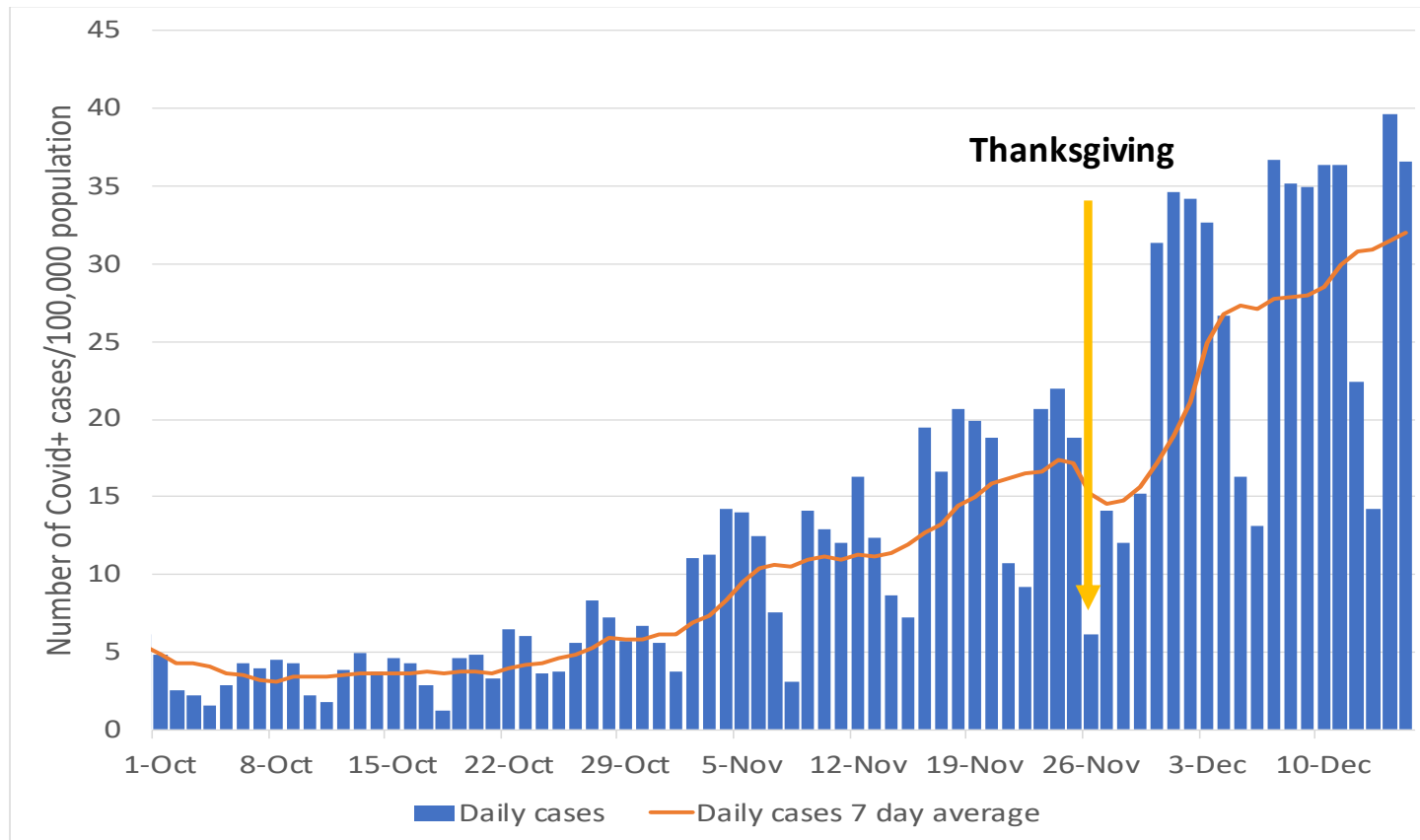
Overview: COVID-19 in San Francisco

Total COVID-19 Positive Cases Reported	Total Deaths	Gender Distribution of Positive Cases			Data through 12/19/2020, updated daily Total COVID-19 Tests Collected
		Female	Male	Unknown	
20,976	176	46%	53%	0%	1,059,181

Microsoft Power BI

SF has the lowest COVID-19 per capita death rate

City	County	Deaths/100,000	Cases/1000	Deaths/1000 cases	Tests/1000
San Francisco	San Francisco	18.5	18.1	1.02%	10.07
Seattle	King	39.1	19.7	1.99%	3.99
Atlanta	Fulton	66.2	38.3	1.73%	3.83
Baltimore	Baltimore City	68.5	29.6	2.31%	6.79
Los Angeles	Los Angeles	76.3	39.9	1.91%	7.33
Denver	Denver	85.3	59.5	1.43%	7.64
DC	DC	96.8	30.7	3.16%	7.01
Philadelphia	Philadelphia	124.7	42.5	2.94%	4.91
Miami	Miami-dade	141.1	84.5	1.67%	7.26
Boston	Suffolk	155.2	46.0	3.38%	NA
New York City	New York City	288.7	37.1	7.77%	7.23

COVID-19 Comparisons as of 12/02/2020

COVID-19 is more widespread now than in March

We have seen a quadrupling of cases in the last month

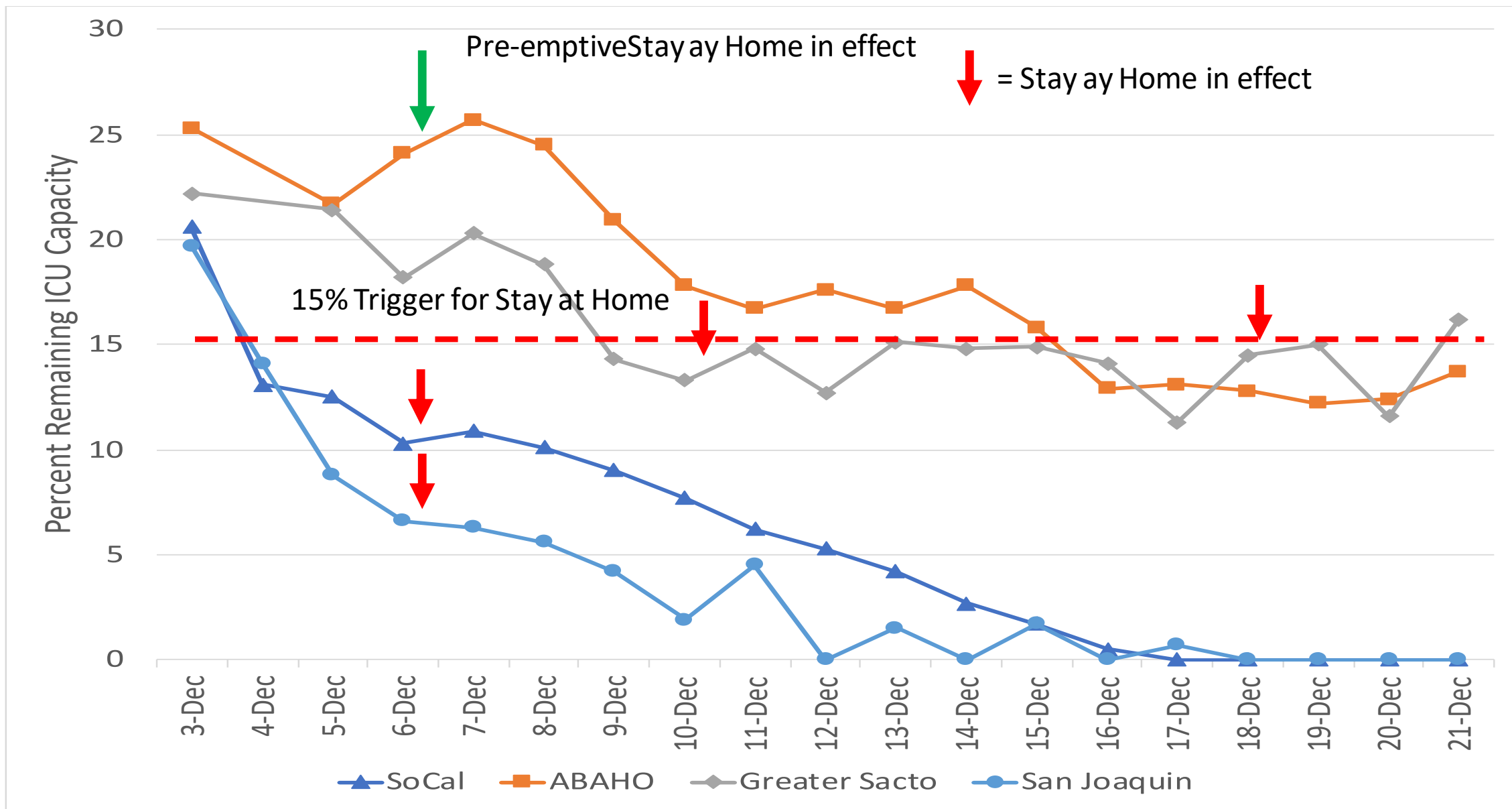31 = SF's new COVID-19 cases per day/ 100,000 population

> 25 daily new COVID-19 cases per day/ 100,000 population is a *tipping point* for uncontrolled spread

There is so much COVID-19 in the community that being in a relatively open place in the company of other people is much risker.

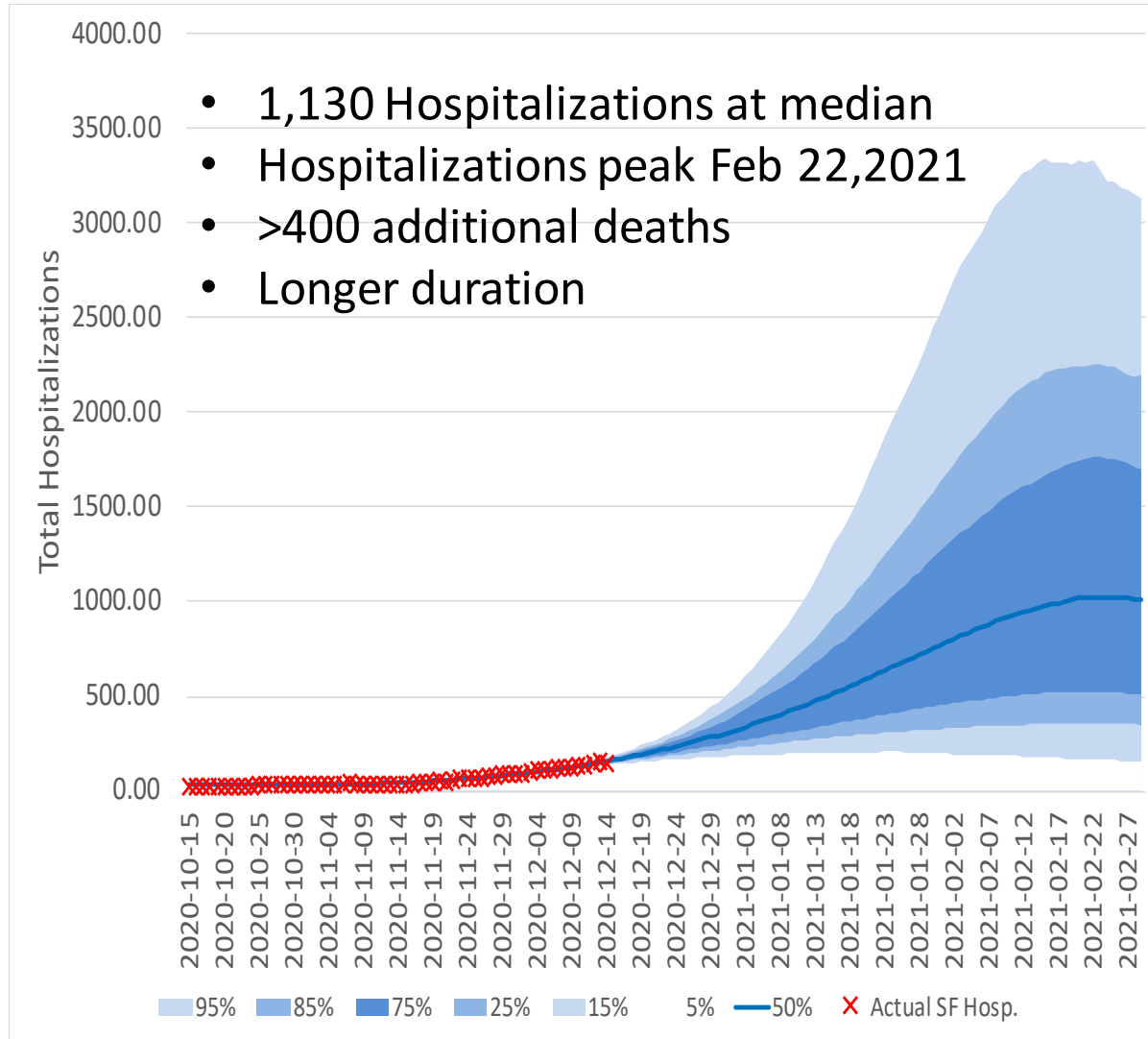The environment around us is riskier than it used to be.
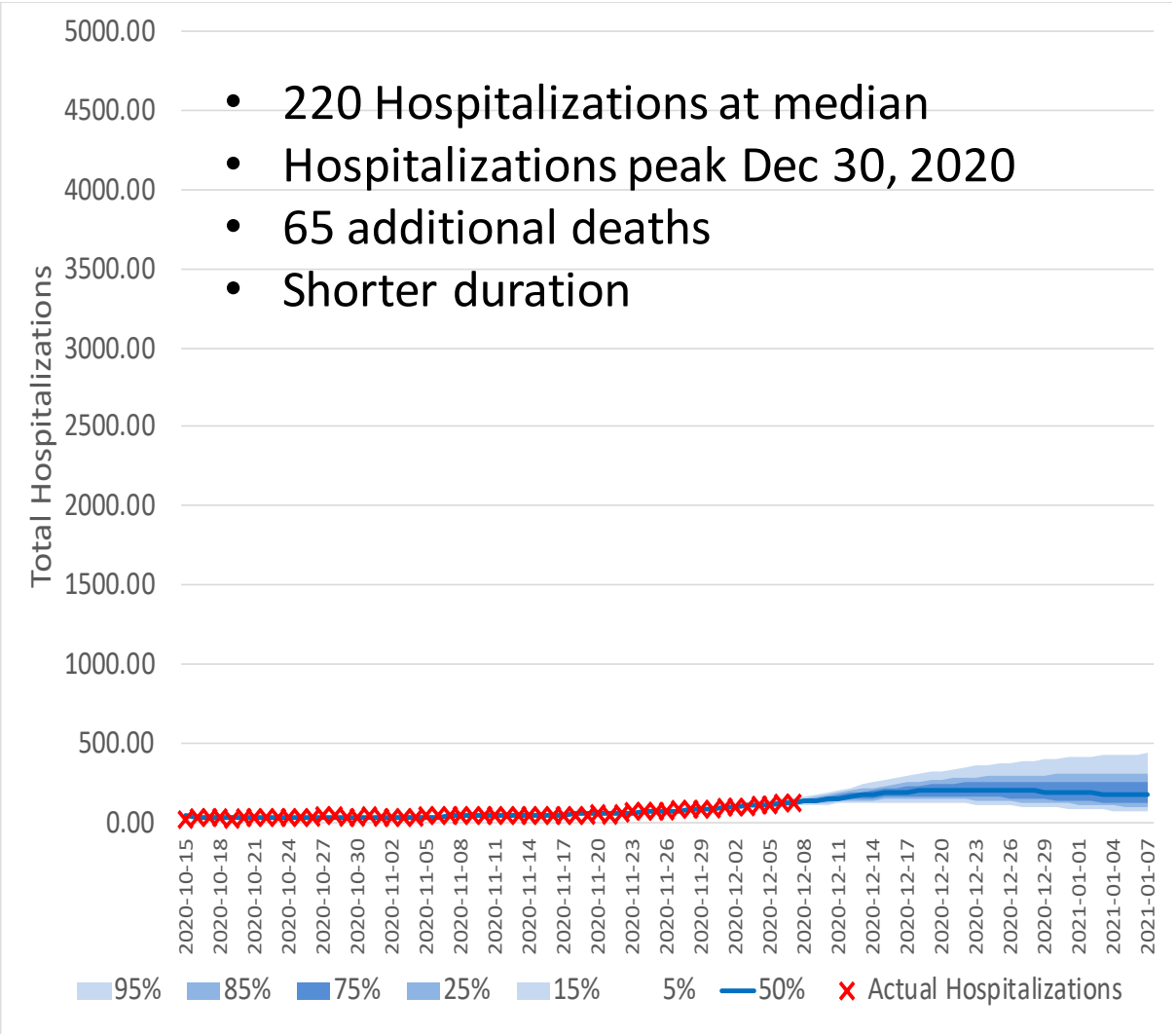
CA Regions are out of ICU capacity

Source data: https://covid19.ca.gov/stay-home-except-for-essential-needs/#regional-stay-home-order

We have a choice of two very different futures
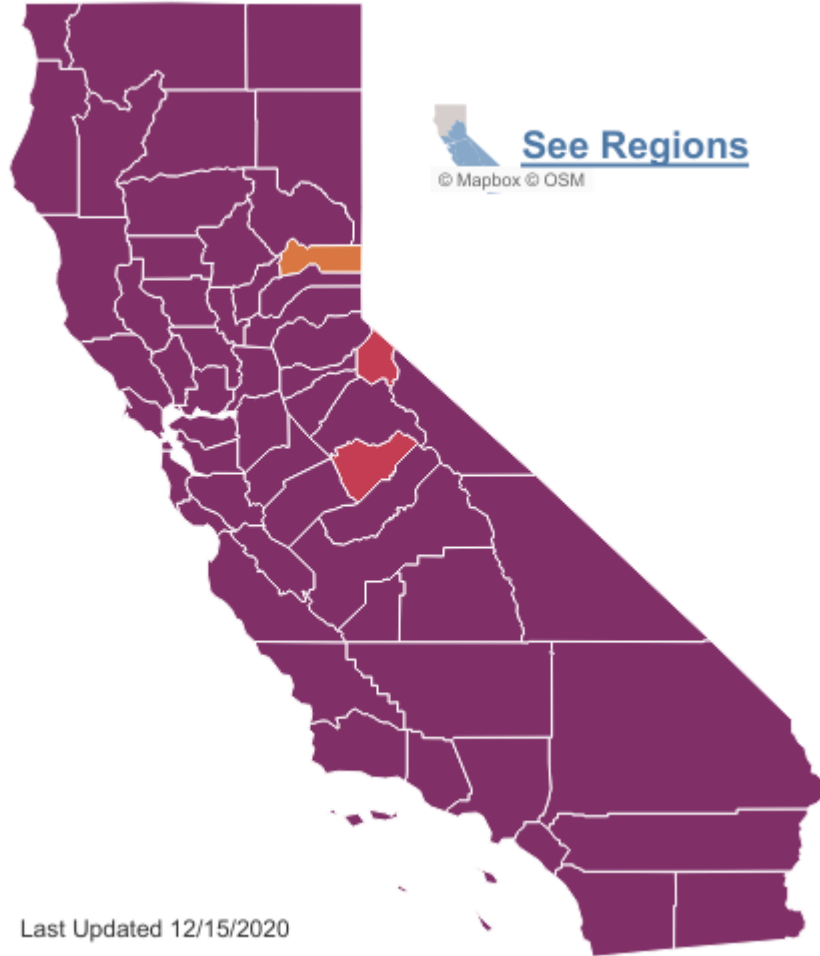
If we see a Christmas surge like Thanksgiving

- 1,130 Hospitalizations at median
- Hospitalizations peak Feb 22,2021
- >400 additional deaths
- Longer duration

If we continue to Stay at Home

- 220 Hospitalizations at median
- Hospitalizations peak Dec 30, 2020
- 65 additional deaths
- Shorter duration

Regional Stay at Home Order

99.9% of California has widespread transmission

STATEWIDE METRICS

63.9 New COVID-19 positive cases per day per 100K

11.3% Positivity rate (7-day average)

3.0% ICU availability

Find a county
No items highlighted

Click on the map for updated metrics

COUNTY RISK LEVELS

		Counties	Population	
■	Widespread	55	40,107,133	99.9%
■	Substantial	2	18,912	0.0%
■	Moderate	1	3,115	0.0%

See Regions
© Mapbox © OSM

Last Updated 12/15/2020

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California Regional Stay at Home Order

- The order imposes a series of rollbacks and restrictions in places where fewer than 15% of intensive care unit beds are available across an entire region.

- San Francisco, in partnership with other Bay Area Counties, opted into the Regional Stay at Home Order on December 6.

- Regionwide ICU capacity dropped to 12.9% on Tuesday, December 16, triggering the Stay at Home order for all counties in the region.

- 99% counties in CA are now mandated to comply with the order as a result of unchecked community spread.

The data shows that opting in early saved lives

- Southern California and the San Joaquin Valley waited until 15% ICU availability and are now out of ICU beds.

- We preserved hospital space.

- Our Re is dropping.

- Our case rate is going up more slowly.

Rollback and reopening decision-making process

We consider a variety of factors when making decisions to reopen and/or roll-back sectors

1. Data (Key Health indicators)
2. State requirements
3. Virus transmission
4. Risk (and potential to mitigate risk)
5. Learnings from other regions
6. Stakeholder engagement
7. Contact Tracing & Case Investigation

We are guided by a set of principles

- Balance reopening with public health restrictions to keep our City safe and healthy
- Ensure children are in in-person learning environments
- Consider risk and risk mitigation
- Focus on equity
- Advance economic activity
- Coordinate regionally
- Use a phased approach and reassess

Data

- Are there early signs of an increase in hospitalizations?

- Are there early indicators of an increase in Covid-19 disease?

- Are we testing enough to detect cases?

- Do we have robust contact tracing?

- Are we protecting health care workers?
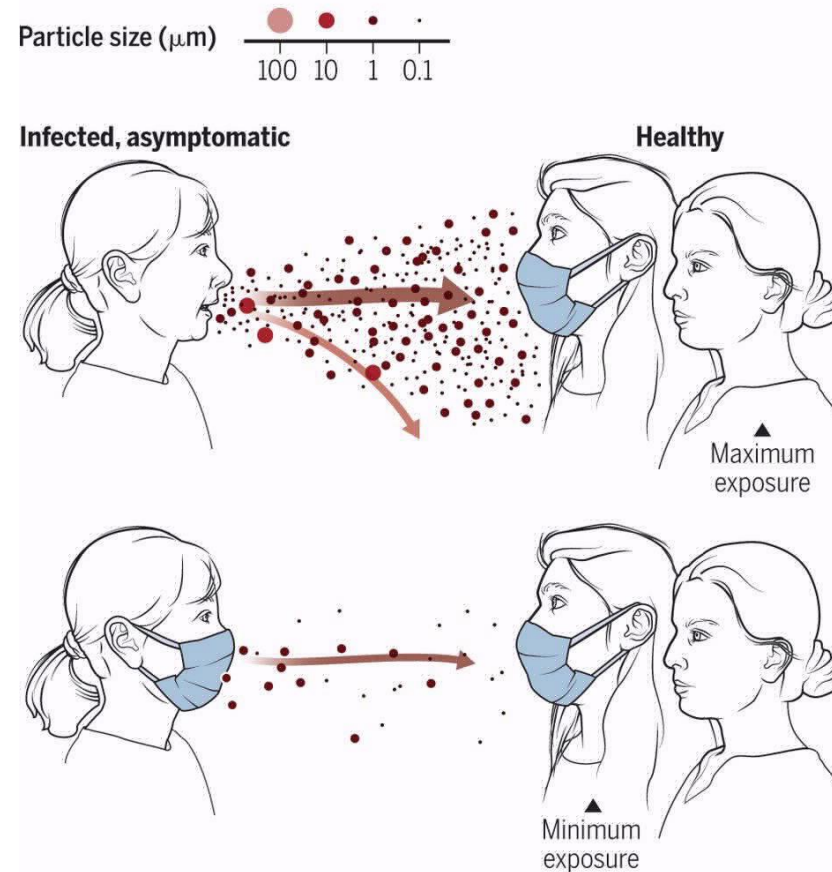
State requirements

- The State's Blueprint for a Safer Economy is a statewide colored-coded, four-tier framework.

- Each tier has restrictions on which businesses can open.

- The State's tiers guide our ability to reopen the economy. We are bound by the tiers.

Risk-based criteria

- Are people mixing with people outside their households?

- Is the activity inside or outside?

- How many people are coming together?

- Will they be in close contact? How long?

- What is the nature of the activity?

- Can people keep their masks on at all times?

- What mitigations are possible?

Masks reduce airborne transmission

Infectious aerosol particles can be released during breathing and speaking by asymptomatic infected individuals. No masking maximizes exposure, whereas universal masking results in the least exposure.

Particle size (μm) 100 10 1 0.1

Infected, asymptomatic   Healthy

Maximum exposure

Minimum exposure

GRAPHIC: V. ALTOUNIAN/*SCIENCE*

Stakeholder engagement

- We engage with city departments, community groups, and business and industry organizations.

- We seek feedback on the feasibility and impacts of rollbacks, reopening, directives and guidances through an iterative, collaborative process.
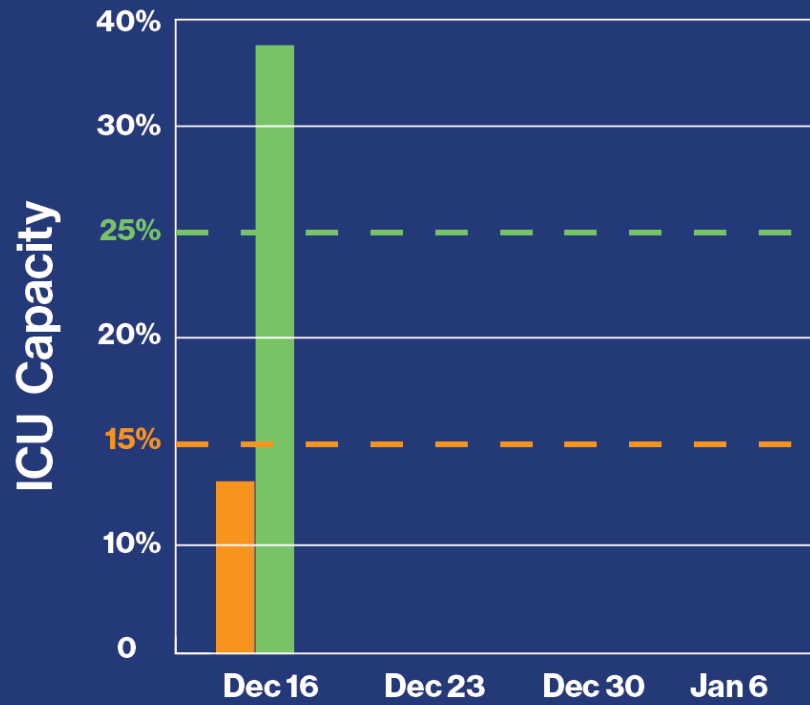
Contact Tracing & Case Investigation

- CI/CT is focused on breaking the chain of transmission. We link individuals to testing, support and medical services to prevent further spread of COVID-19.

- There are limitations to CI/CT: volume of cases, reaching contacts, recall bias, stigma and privacy concerns.

- We are transitioning to the State's CI/CT system, which is more robust and will allow for more detailed analysis.

Triggers & Data-markers

Lifting the Regional Stay at Home Order

When could San Francisco lift the regional stay at home order ?

When the Bay Area ICU Capacity is above 15% and the San Francisco ICU capacity is above 25% and New Cases and Hospitalizations decrease for 3 consecutive weeks.

ICU Capacity

40%

30%

25%

20%

15%

10%

0

Dec 16   Dec 23   Dec 30   Jan 6

New Cases decreasing

x			

Dec 16   Dec 23   Dec 30   Jan 6

Hospitalizations decreasing

x			

Dec 16   Dec 23   Dec 30   Jan 6

x = no
✔ = yes

Defining the path forward

We want to see a **sustained decrease in hospitalization and cases**, and for our **Re to continue to fall.**

San Francisco is going to rise and fall with the rest of the region and state.

We are learning from past rollbacks and reopenings.

We are engaging with stakeholders to create a phased reopening plan.

Thank you