



SFDPH PUBLIC HEALTH LABORATORY: PROTECTING THE HEALTH OF SAN FRANCISCO



Godfred Masinde, PhD, MBA, HCLD(ABB)

Public Health Committee Meeting
Tuesday, April 17, 2018

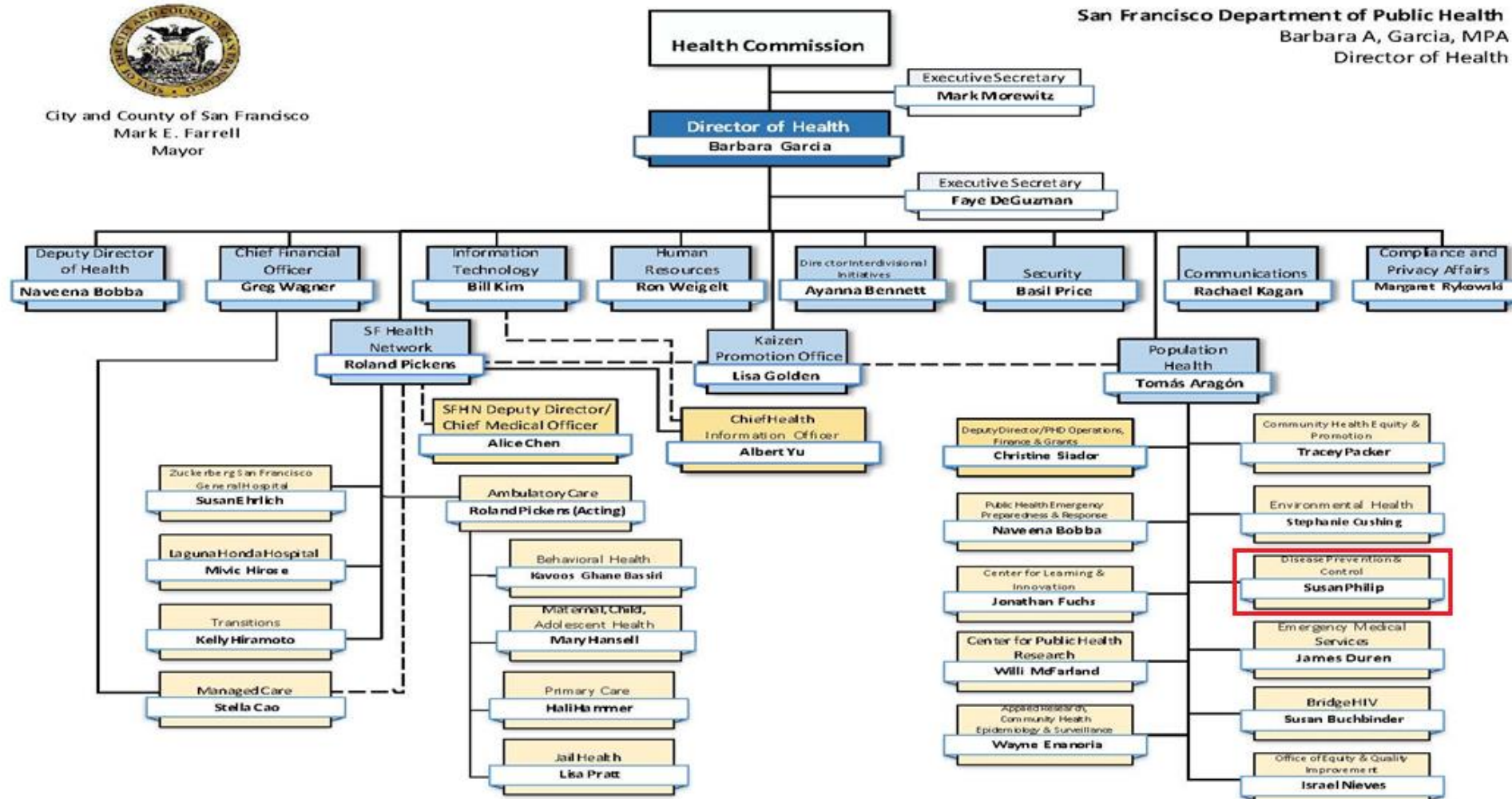


POPULATION HEALTH DIVISION
SAN FRANCISCO DEPARTMENT OF PUBLIC HEALTH



City and County of San Francisco
Mark E. Farrell
Mayor

San Francisco Department of Public Health
Barbara A. Garcia, MPA
Director of Health



Last Updated: 2/7/2018



Disease Prevention
and Control Branch
Susan Philip

Public Health
Laboratory (PHL)
Godfred Masinde

STD/HIV
Prevention
(Clinical and
Biomedical)
Stephanie Cohen

Communicable
Disease Control
and Prevention
Cora Hoover



TB Control and
Prevention
Chris Keh

Disease
Intervention Teams
Diane Portnoy

Chronic Disease
Prevention
(Clinical)
Rita Nguyen

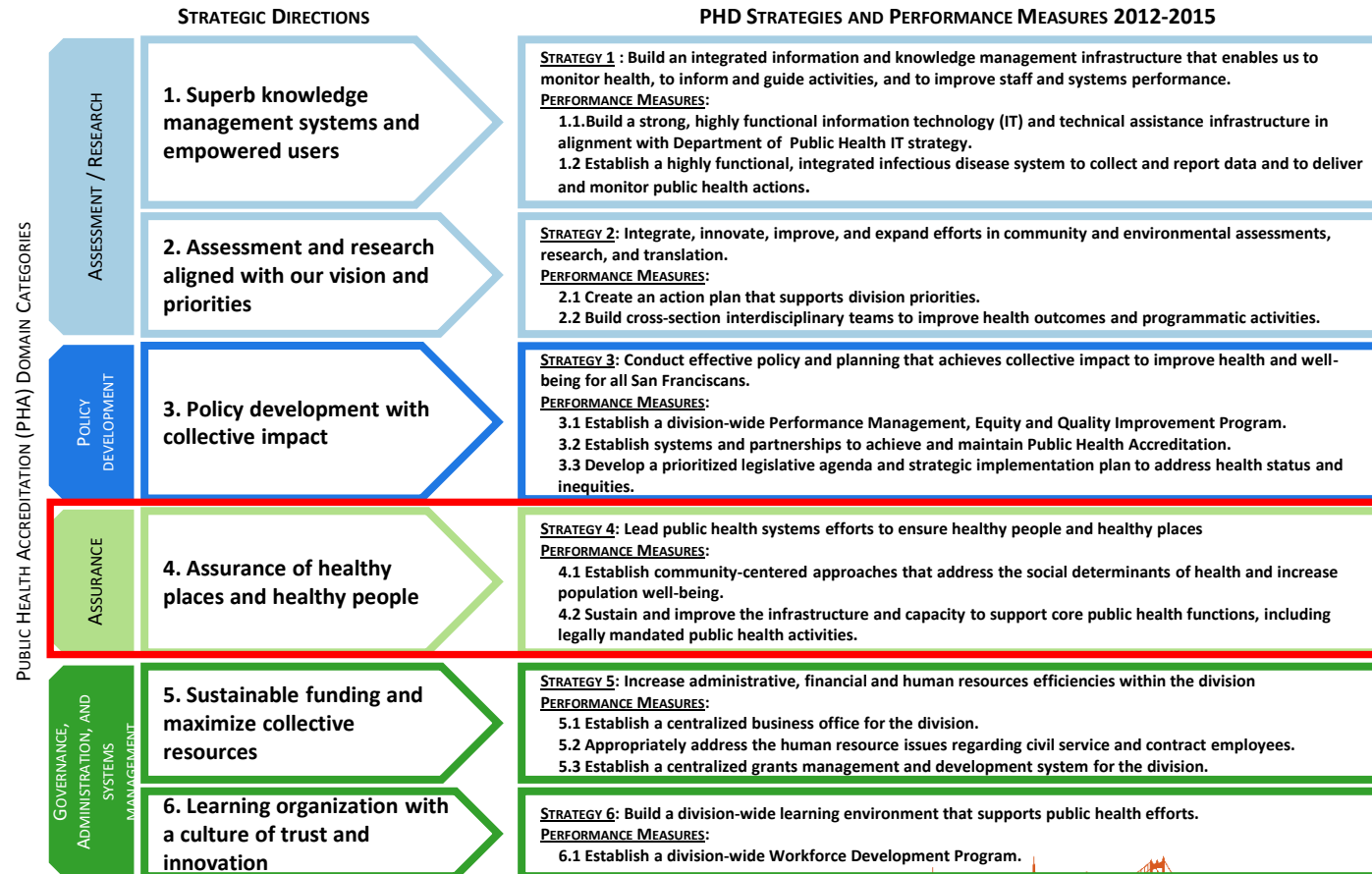


PHL Helps Assure Healthy Places and People in SF

OUR MISSION Drawing upon community wisdom and science, we support, develop, and implement evidence-based policies, practices, and partnerships that protect and promote health, prevent disease and injury, and create sustainable environments and resilient communities.

OUR VISION To be a community-centered leader in public health practice and innovation.



PUBLIC HEALTH ACCREDITATION (PHA) DOMAIN CATEGORIES



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PHL is a Recognized Center of Excellence

- First lab in CA to use RNA pooling to detect Acute HIV which allows immediate diagnosis and treatment
- First PHL to validate Chlamydia (CT) and Gonorrhea (GC) testing on pharyngeal and rectal specimens
 - Provided specimen panels that allowed other laboratories to do the same
- The only lab testing for the STD Lymphogranuloma venereum (LGV) by molecular methods
- The first Lab in the country to use GeneXpert for TB in patients
- Serves as a reference lab for all clinical laboratories in San Francisco



PHL Performed 167,640 Tests in 2017

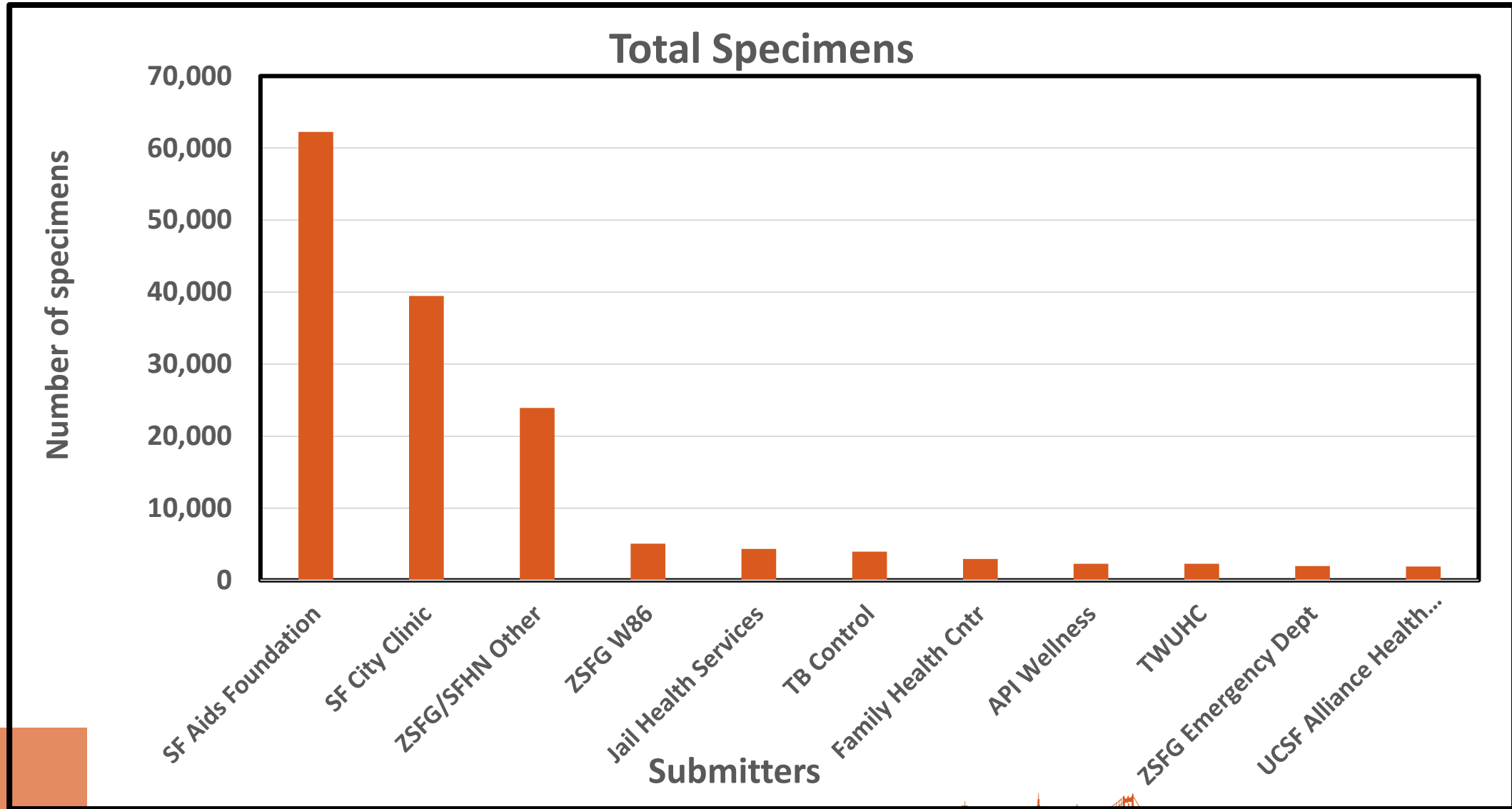
- STI samples (CT, GC, syphilis, HIV, LGV, Trichomonas)
- TB samples (Sputa and QFT-Blood)
- Influenza samples
- Foodborne pathogen samples (E. coli, Salmonella, Shigella)
- Vector-borne disease samples (Malaria)
- Animal specimens (Rabies)



AIX1000

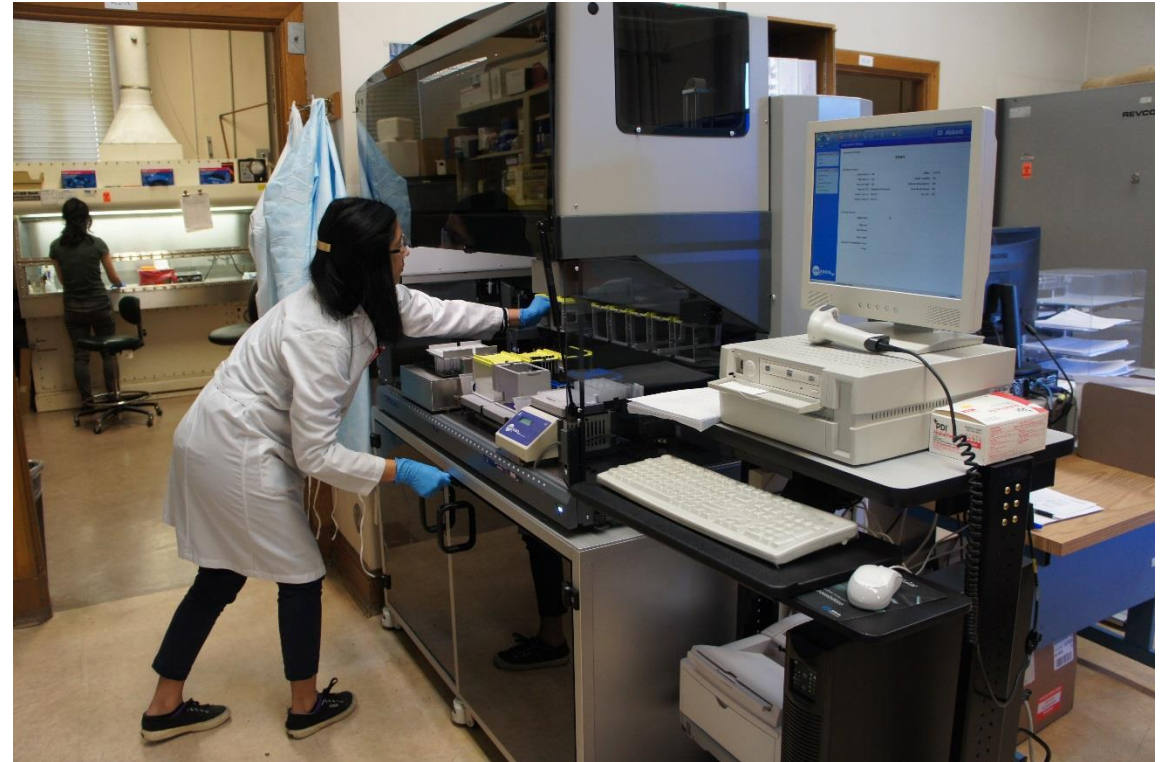


Specimens Came from 105 Unique Submitting Sites



External Networks/Collaborations

- Testing, Training, Reporting and Research
 - CDC
 - NIH
 - CA State PH Lab
 - Other PH Labs
 - Local Hospitals
 - Private Industry



m2000 for HIV viral load testing



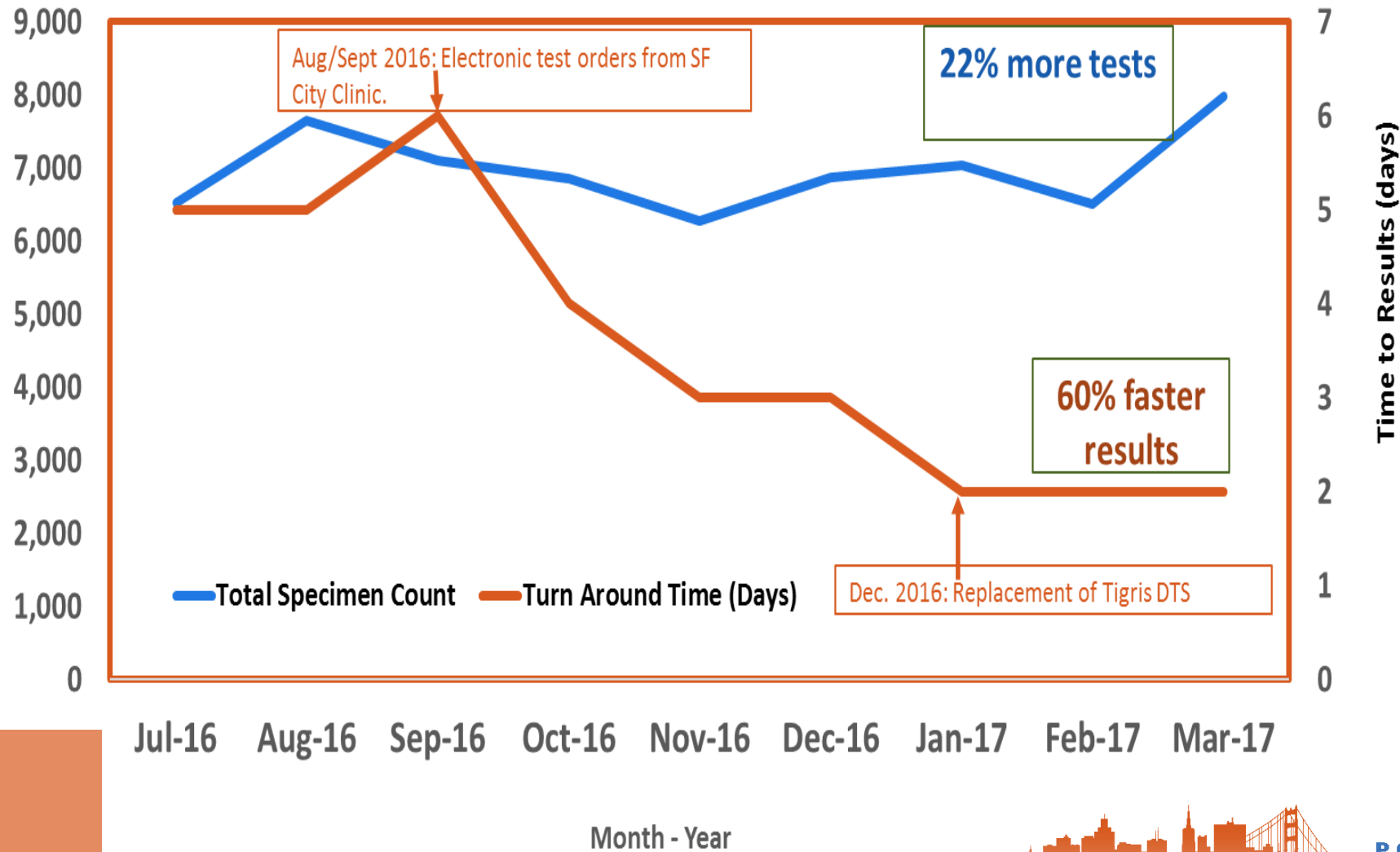
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PHL Promotes Excellence Through Quality Improvement and Workforce Development



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Lab Improvements Reduce Time to STD Diagnosis & Treatment



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Workforce Development- I

New PHM Trained in 2017

Public Health Microbiologist (PHM)
Certification is required by
California to work in a PH Lab and
test patient samples



PHM Trainees 2018
On the job training for 6 months
(January to July) and sit for state
certification Examination to
become Microbiologists



New tests

- Introduce Rapid Chlamydia and Gonorrhea testing at City Clinics/sites to increase patient convenience and rapid treatment
- Matrix-assisted laser desorption ionization time of flight (MALDI TOF)
- Whole genome sequencing
- Laboratory Developed tests



GeneXpert

Ion Torrent WGS



Vitek MALDI-TOF



New Lab in Building 5, ZSFG planned for 2021 Slide 14



BSL3 View

Thank you

