



COMMUNITY ADVISORY GROUP MEETING

JUNE 2020

MICHAEL BRANDT
DEPUTY LAB DIRECTOR FOR OPERATIONS
AND
CHIEF OPERATING OFFICER



GLOBAL IMPACT, LOCAL COLLABORATIONS

BERKELEY
LAB



Our community is suffering from unimaginable grief.

The tragic death of George Floyd, the latest of many acts of race-related violence in our society, is echoed in the pain and anguish we see in the streets of our communities.

At the same time, we are suffering through a terrible pandemic, a pandemic that is taking a higher toll on the African American community in California and around the country.

Berkeley Lab is committed to dialogues with our employees and action steps to address systemic racism at work and in our daily lives. **The Lab was built almost 90 years ago on the idea of Team Science, that no one succeeds alone. That principle is still true. We need to talk. We need to listen. We need each other.**

As we navigate these landscapes, it's important that we look to each other as collaborators in the health of our community, and as creators of a future that is inclusive, diverse, equitable and accountable.

“We are the ones we have been waiting for.” -- June Jordan August 9,1978

AGENDA



1. **Safe and Stable Standby**
2. **Transition Leadership Team**
3. **Shelter in Place Timeline**
4. **Pilot 1: Development and Implementation**
5. **Methodical Resumption of Activities**
6. **Safe Return to Work**
7. **Construction Projects Begin**
8. **Wildfire Preparation**
9. **Power Resilience Planning**

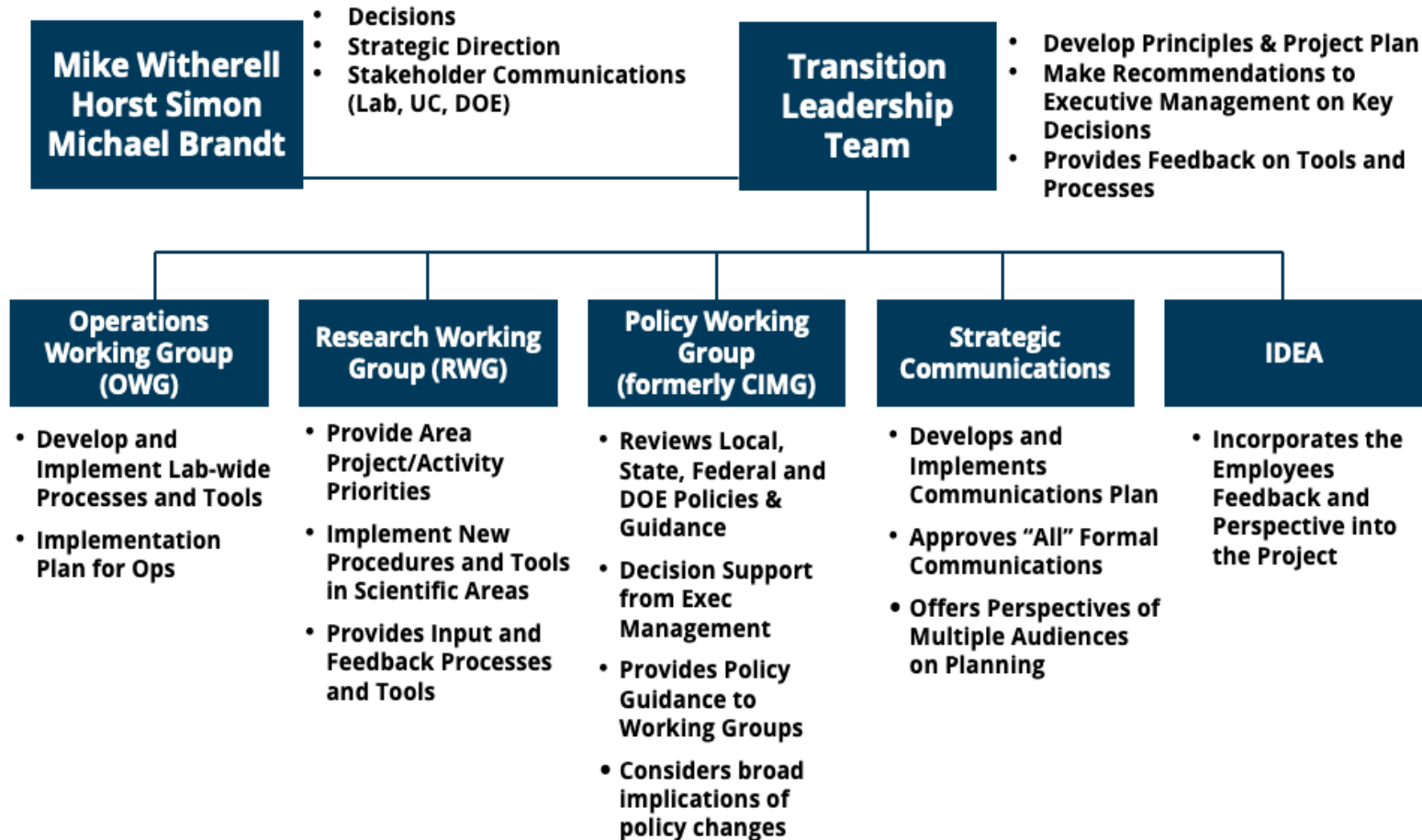
BERKELEY LAB ON STANDBY

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TRANSITION LEADERSHIP TEAM



Our senior leaders in Research and Operations continue to craft an effective resumption plan.

SHELTER IN PLACE TIMELINE

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LBNL CURTAILMENT
PLANS COMPLETED

- EQUIPMENT MAINTENANCE
- SITE SECURITY
- ESSENTIAL SCIENCE
- SHIPPING AND RECEIVING

- MINIMAL OPERATIONS
+ MAXIMUM TELEWORK
- TRANSITION LEADERSHIP
TEAM FORMED
- PILOT PLAN DEVELOPED

EVALUATE PILOT
PLAN AND ADJUST
REQUIREMENTS AND
PARAMETERS

SUMMER
PILOT 2

MARCH

APRIL

MAY

JUNE

GOV. NEWSOM ISSUES
SHELTER IN PLACE ORDER

FOLLOW CDC,
STATE AND LOCAL
GUIDELINES

PILOT PLAN APPROVED,
AUTHORIZE DAILY
BADGE-INS TO 800

MAKE DECISION TO
SCALE FORWARD
OR SCALE BACK

Our curtailment plans
were ready prior to the
CA shelter-in-place order.

We continue to follow
CDC, state and local
guidelines for safety and
containment of viral
transmission.

Pilot 1 plan approved by
DOE. We will evaluate
and make evidence-
based decisions for return
to work.

At each step, we assess,
learn and re-configure
our planning and
guidance.

PILOT 1: DESIGN AND IMPLEMENTATION

PILOT 1: GRADUAL RESUMPTION OF RESEARCH AND BUSINESS OPERATIONS



The Pilot plan is a careful, thoughtful and measured step-up in our essential Lab functions.

We are piloting COVID-19-related safety measures to be fully prepared to increase our on-site operations when approved by DOE and in accordance with CDC guidance and local public health directives.

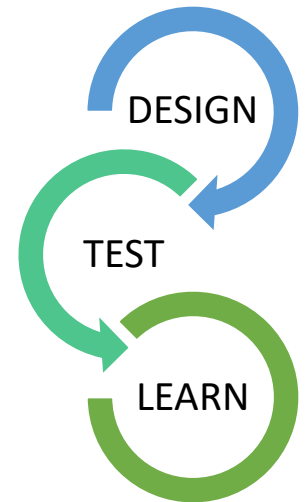


Berkeley Lab is authorized to open in order to maintain essential government functions.

METHODICAL RESUMPTION OF ACTIVITIES



AREA	APRIL	MAY	PILOT 1 JUNE	PILOT 2 (PROPOSED)
ALL RESEARCH AREAS	115	165	445	JULY 7: PILOT 2a +400 AUGUST 17: PILOT 2b +400 SEPTEMBER 30: Potential On-Site: 1600
OPERATIONS	180	180	195	
PIMD/Construction	5	105	160	
EMPLOYEES ON-SITE	300	450	800	
EMPLOYEES ON TELEWORK	3400	3250	2900	2100



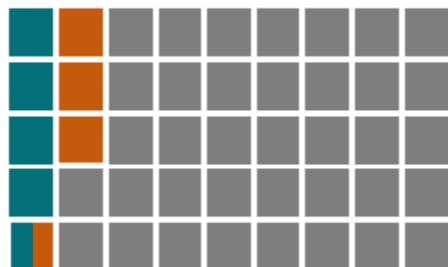
Our pilot plan is a careful, thoughtful and measured step-up in our mission-essential functions.

METHODICAL RESUMPTION OF ACTIVITIES



PEOPLE ON SITE

1 SQUARE = 100 PEOPLE



ON SITE PILOT ONE TELEWORK

IN PERSON MEETINGS



TRAVEL



CAFETERIA



SHUTTLE



HEALTH SERVICES



SHIPPING/RECEIVING



GUEST HOUSE



LEGEND



NO ACTIVITY



LIMITED



FULL SERVICES

Limited shuttle service, open health services and full shipping and receiving.

RETURN TO WORK SAFETY PROTOCOLS



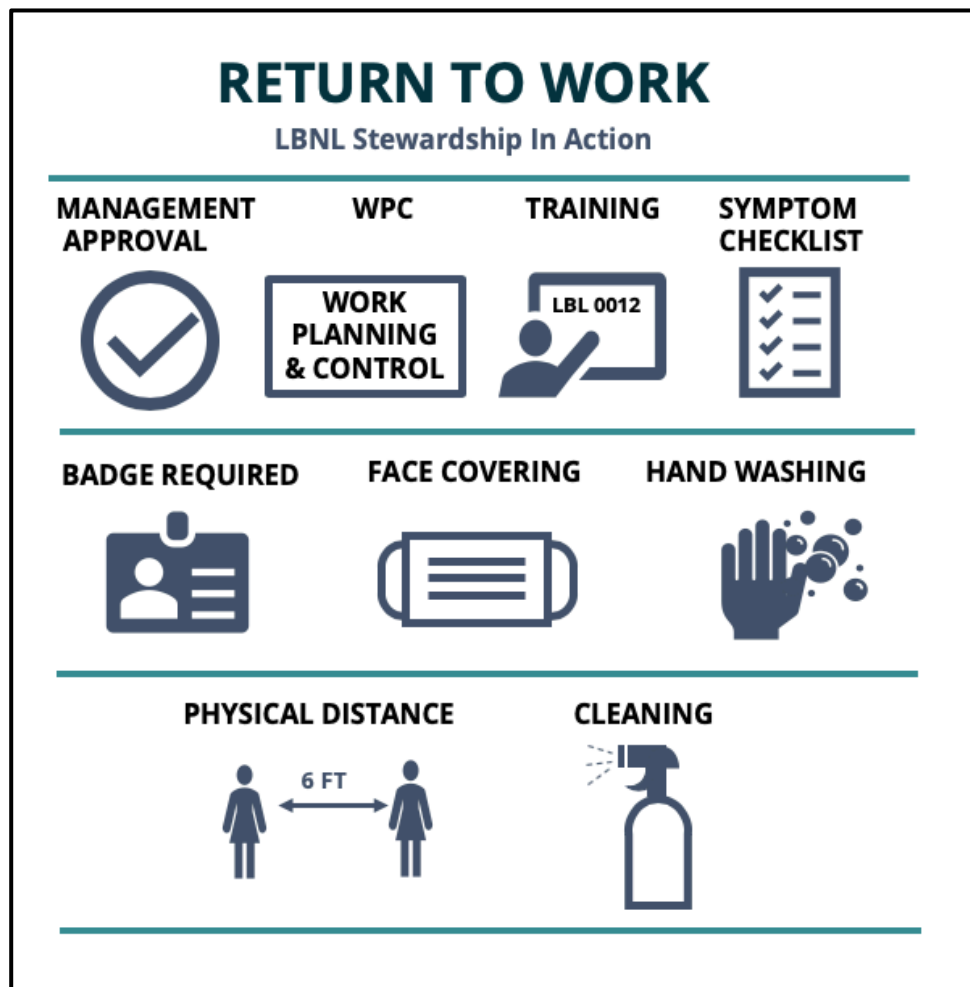
BEFORE COMING TO WORK:

- Line Management Authorization
- Training & Health Pledge
- Daily Symptom Check
- Weekly Health Check

WHEN YOU ARRIVE AT YOUR LAB LOCATION:

- Badge-in Required
- Face Covering
- Physical Distance
- Hand Washing

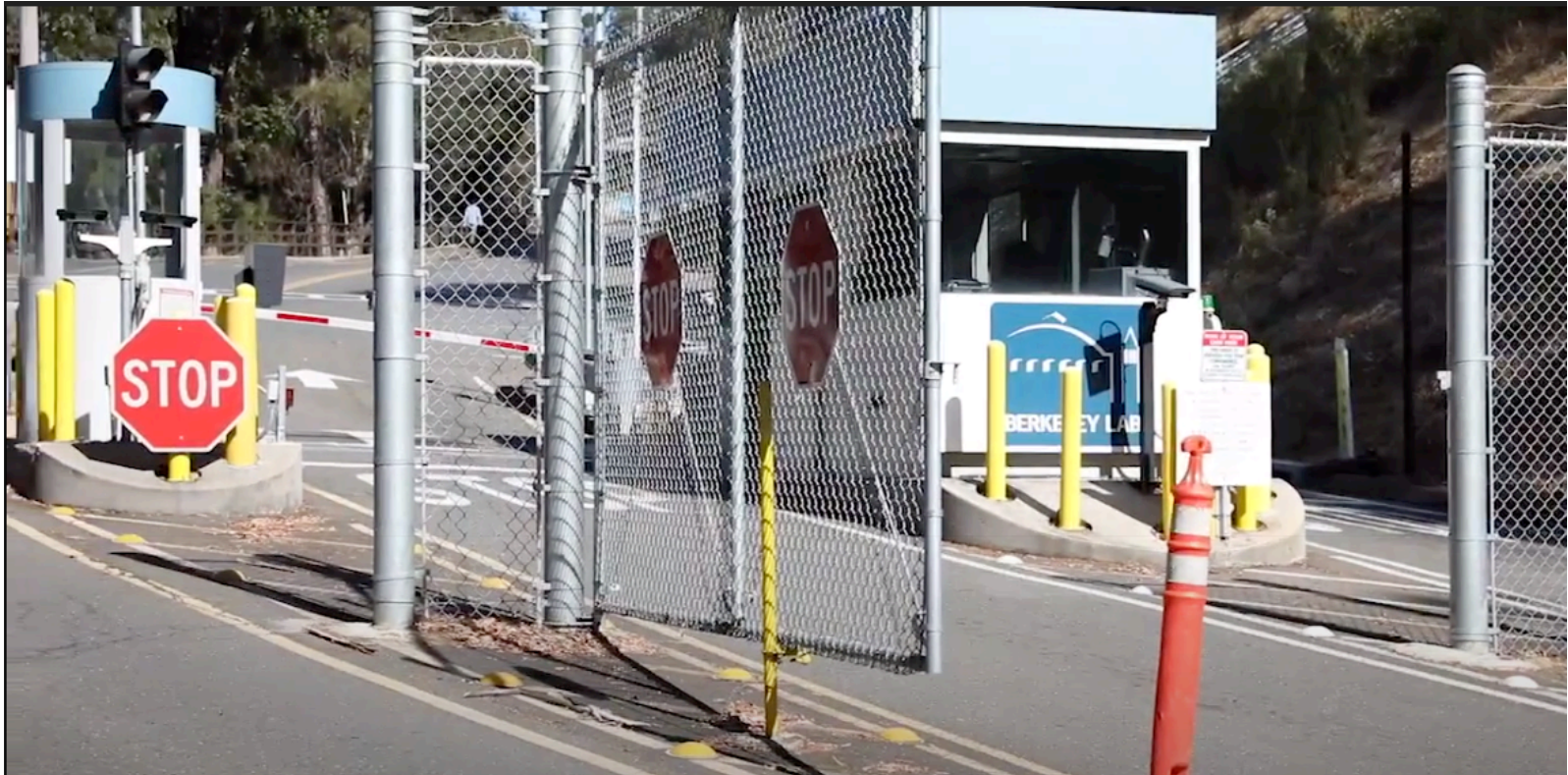
MORE INFO:
covid.lbl.gov



Employee training, symptom checklist, work planning and controls keep our Lab safe.



CONSTRUCTION PROJECTS RESUME



Expect increased traffic and activity on the hill as construction projects resume.

2020 WILDFIRE PREPARATION



MANAGE VEGETATION

- Current budget allocation of \$75k to continue tree mitigation and removal efforts — **Additional \$125k anticipated** this FY
- **Goats R Us** — services began in late May
- Partnering with LBNL Physics personnel to deploy **experimental “FUEGO” program** which pairs machine learning and HDR cameras for early warning smoke detection
- Continued efforts with Strategic Communications Group to hold an updated **Wildland Fire Safety presentation** in Summer 2020 (rescheduled from April)
- **Daily monitoring** of weather patterns, fire risk, and upcoming Red Flag days via the Emergency Management Dashboard



WITHOUT POWER RESILIENCE, WE'RE IN LOSS MITIGATION MODE

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We risk losing more than science, we risk losing the trust and confidence of our users and stakeholders.

2020 POWER RESILIENCE PLANNING



PARTNERSHIP WITH PG&E: BACKUP GENERATORS

Partnership with PG&E to provide 2-4MW of power at SWITCH-A6.

STATUS: PLANNING STAGE

- PG&E provides rental equipment and contractor to install.
- LBNL working to resolve PG&E permit requirements for 12kV installations ~5 month permitting process.
- DOE identified existing GSA contract w/PG&E, anticipated to greatly expedite the acquisition process.
- LBNL Procurement working with PG&E on contract details.
- Development of Conceptual Scope, Schedule and Budget in process.
- Power Resiliency Task Force to submit project funding request in June.

Partnering with PG&E to provide more power at a critical switch point.

2020 POWER RESILIENCE PLANNING



POWER RESILIENCE TASK FORCE

Our Task Force is investigating options to provide supplemental power through a variety of centralized and regionalized solutions, including:

- Centralized power at or near Grizzly Peak Substation
- Distributed generation across the site
- Co-Generation Plant or large-scale generator: New localized alternate power source
- Fuel cells: hydrogen and oxide
- Collaboration with UC Berkeley campus: Existing co-gen plant expansion
- LBNL Mini Power Grid



For true resilience and continuity of operations, we need a reliable power supply.

QUESTIONS

THANK YOU

BUST OF E.O. LAWRENCE BLDG. 50

ERNEST ORLANDO LAWRENCE
MANETTE LOOMIS
1946

THIS BUST WAS MODELED IN CLAY BY
MRS. ALFRED LEE LOOMIS
DURING THE WINTER OF 1946
IT WAS LATER CAST IN PLASTER IN SAN FRANCISCO
MRS. LOOMIS TOOK THE PLASTER CAST
BACK WITH HER TO NEW YORK WHERE
IT WAS FINALLY CAST IN BRONZE
THE WORK WAS EXECUTED FROM LIFE IN THE
LOOMIS HOTEL ROOM AT THE CLAREMONT HOTEL