

LifeSci NYC & Health Emergency Preparedness

April 22, 2021

NYC / EDC

Presentation Overview

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New York City Economic Development Corporation

Mission: To create shared prosperity across New York City's five boroughs by strengthening neighborhoods and growing good jobs.



NYC's Real Estate Assets



Capital Construction

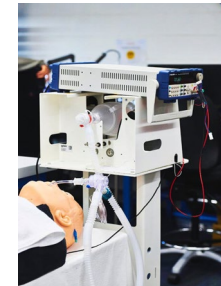


Invest in Growth Industries that Create Jobs

COVID Supply and PPE Production

In March 2020, EDC's operations pivoted to support NYC's COVID-19 Response

- *EDC's response focused on:*
 - *Activating space for emergency needs*
 - *Supporting businesses and New Yorkers*
 - *Manufacturing PPE and medical supplies while keeping New Yorkers employed*
 - *Supporting food supply and construction logistics*
 - *All in NYC campaign to show the world NYC's resilience*
- *Local Manufacturers produced urgently-needed PPE:*
 - *7.2M face shields, creating 555 jobs*
 - *4.2M hospital gowns, preserving 2,100 jobs*
Manufacturing partners in LIC enlisted 236 employees to manufacture 553,054 gowns
 - *1.25M test kits*
 - *Innovated 3,000 SpiroWave bridge ventilators developed in partnership between New Lab, 10xBeta, and Boyce Technologies*



NYC's Recovery Agenda

Grounded in four principles that will guide the City's recovery planning from the pandemic

Pandemic Response

To stay open and move our economy forward, we expanded lab capacity, deployed rapid & cheap tests, and are distributing vaccines

Public Health

New York City will be an innovating leader in public health innovation, research, care delivery, and disease prevention

Equitable Recovery

We will recover equitably and sustain the vibrancy of our neighborhoods by supporting small business and improving transit and public space

High Quality Job Creation

We will expand training for and create new jobs in resilient and growing industries like sustainable construction

NYCEDC leads LifeSci NYC, the City's \$500 million commitment to grow the industry and catalyze 15K new jobs in NYC, making us uniquely positioned to ensure the City reopens in a safe and inclusive manner

Positioning NYC to be a Top LifeSci City

\$500 million, 10-year investment to unlock potential

LifeSci NYC is a comprehensive plan to establish New York City as a leader in the commercial life sciences, bringing by 2026:

- 16,000 new jobs
- New life sciences space for companies to grow across the five boroughs

A strong ecosystem supports early-stage R&D, expansion to product launches, and a halo of supporting services and amenities



Why Life Sciences?

Life sciences provides a range of opportunities for New Yorkers

Jobs

- *Low barrier to entry for good paying jobs*
- *Opportunities to advance through an average salary of \$75K/year*
- *Goal to grow 16K jobs in 10 years*

Education

- *Strong career pathway for the:*
 - *Thousands of STEM college students in NYC*
 - *1.1M K-12 public school students*

Access to treatments

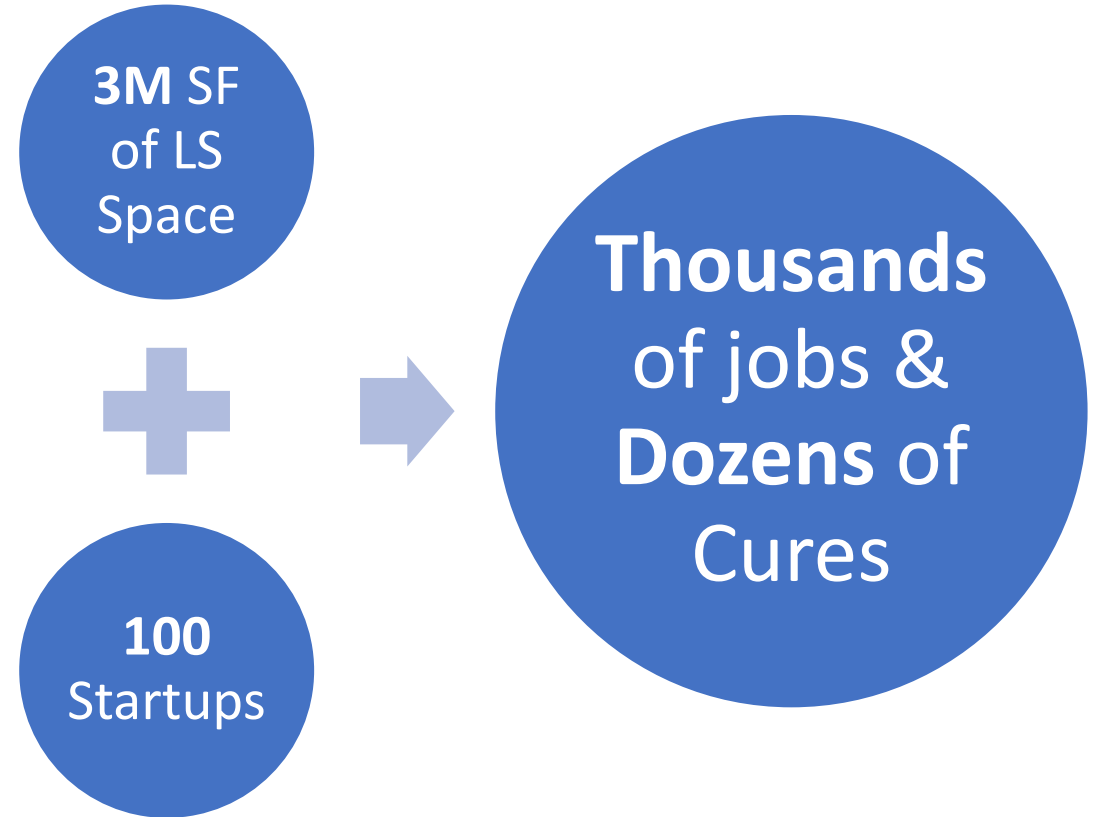
- *Improve access to the best treatments in NYC for New Yorkers*



LifeSci Vision

EDC's commitment to investing in the future of LifeSci to create healthier communities and a stronger economy

- Building on the success of [LifeSci NYC](#), over the next 10 years, the City will invest in:
 - **3M square feet** of LifeSci space for biotech companies
 - **100 new startups** that will develop cures.
- These investments will position NYC as a global **leader** in life sciences and help keep New Yorkers **safe and healthy**, and create a **stronger, fairer, and more sustainable** economy.



LifeSci Vision


Expanding the LifeSci ecosystem across New York City to support healthy communities citywide

- *What started as a biotech cluster on the East Side of Manhattan has **evolved** to become a **citywide** LifeSci network*
- *We envision LifeSci Ave becoming a network of **wet-lab, manufacturing, and innovation** spaces that will support our top institutions' research of **vaccines and treatments***
- *Our investments are creating the **next generation** of LifeSci companies by developing lab space that will foster **growth** and promote **innovation***



Pandemic Response Lab NYC (PRL NYC)

A new, 20K SF facility dedicated to processing COVID tests for NYC

<p><i>Joint Venture Partners</i></p>	<p> opentrons <i>Brooklyn-based laboratory automation company</i></p> <p> P4 Clinical <small>previously manhattanLabs</small> <i>NY/NJ network of diagnostic labs and patient service centers</i></p>	<p><i>Technology & Scientific Know-How</i></p>	<p> NYU Langone Health <i>Institute for Systems Genetics</i></p>
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<p><i>Key Benefits</i></p>	<ul style="list-style-type: none">▪ 20K test/day capacity dedicated for NYC▪ Guaranteed 24-48 hour turnaround time vs. 72hrs+▪ \$28 per test (vs. \$100+)▪ 1,774,445 tests processed to date▪ ~200 good paying jobs▪ Able to integrate with healthcare and community partners beyond H+H▪ Facility located in NYC (Alexandria Center for Life Sciences on East 29th)
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Pandemic Response Lab Progress to Date

Sample H+H Sites Served by PRL across NYC:

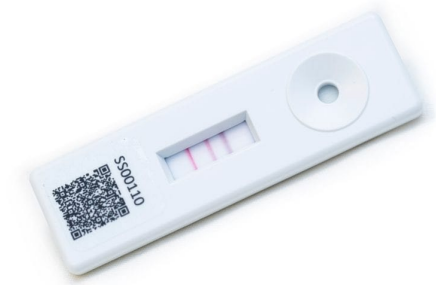
H+H Site	Location	Borough
Woodhull	Bedford-Stuyvesant	Brooklyn
Bellevue Hospital	East Side	Manhattan
St. George Ferry Terminal	St. George	Staten Island
Lincoln Hospital	Melrose	Bronx
Queens Hospital	Jamaica	Queens
16 pop-up sites	Across NYC	

- Processing 20K tests/day
- 24-hour turnaround time
- Future plans
 - Expanding Genome Sequencing efforts to identify variants
 - Creating permanent home in LIC
 - Opening additional locations in DC and LA by summer 2021

Rapid Testing Innovation Competition

Rapid tests are key to re-opening the economy safely

- *Objective: significantly increase the availability, usability, and speed of testing to further reopen the economy in the period prior to broad distribution of a vaccine*
- *In the fall, the city launched a competition to evaluate and partner with innovators of **point-of-care and at-home COVID tests** that can deliver results in minutes, rather than hours and that may be self-administered.*
- *Last month, the City announced the first winner of the competition:*
 - *Dr. David Ho's team of researchers at Columbia University*
 - *The team was awarded \$164,000 to support additional studies of a test they are developing that would deliver results in about 10 to 15 minutes*
- *The competition closed to new submissions March 3rd, 2021 – several tests are still under consideration*



Pandemic Response Institute

\$20 million to strengthen long-term health infrastructure in NYC

- *In December 2020, Mayor announced a \$20M commitment for the Pandemic Response Institute, a facility dedicated to preparing New York City for future public health emergencies*
- *RFP for PRI and \$20M issued on April 15th; facility to start operations before end of 2021*

Public Health Initiative RFI

- *In December 2020, EDC and DOHMH issued RFI*
- *Received 44 responses from 49 entities about:*
 - *NYC's current public health infrastructure*
 - *Focus areas for the PRI*
 - *Building public health infrastructure*

Public Health Convening

- *In January 2021, EDC and the Rockefeller Foundation convened top minds in public health and community leaders*
- *Gathered insights to inform PRI design*
- *Promoting NYC as model for pandemic response and public health equity*

Applied R&D Awards

\$50 million for equipment and facilities to catalyze breakthrough LifeSci R&D

NYC Therapeutic Validation Center (Columbia University)

- *\$9M city capital award*
- *Morningside Heights, Manhattan*
- *Renovation of academic research labs*
- *Accelerate early-stage research into new start-ups*
- *Funding will go toward equipment and construction associated with the project*



NY Translational Stem Cell Facility

- *\$6.5M city capital award*
- *West Midtown, Manhattan*
- *Expansion of research labs*
- *Translation of research into clinic-ready therapies*
- *Funding will specifically go toward equipment associated with the project*



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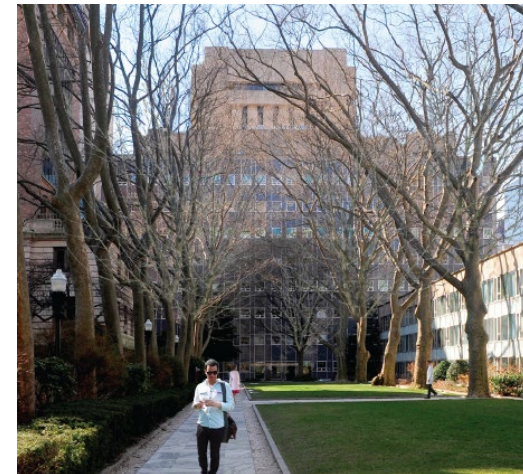
Einstein-Montefiore Biotech Accelerated Research Center

- *\$13M city capital award*
- *Morris Park, Bronx*
- *Renovation of labs in two buildings*
- *Biomanufacturing facility with focus on cell, gene, and antibody therapies*
- *Internships and WorkDev community programs*



Tri-Institutional Translational Center (Rockefeller University)

- *\$9M city capital award*
- *Upper East Side, Manhattan*
- *Renovation of academic research labs*
- *Incubator for commercial LifeSci*
- *Funding will go toward construction associated with the project*



Get Involved to Support NYC's Recovery

Help spread the word about programs that can support New Yorkers

- Read more about the *Pandemic Response Lab, Public Health Convening, and the Rapid Test Competition Winner* at edc.nyc/press
- Share and download the [PRI RFP](#)
- Read more about our [LifeSci Vision](#) for the future at www.lifesci.nyc
- Follow us for the latest updates on Twitter, Facebook, and Instagram @NYCEDC
- Visit us on our website at www.edc.nyc
- Sign up for our [newsletter](#)

Thank you for participating.

Please stay safe and healthy.

Reach out to Gabrielle Miller at gmler@edc.nyc with any questions or feedback.