BUILDS BIO+

THE LONDON/NEW YORK CONNECTION

BUILDING SCIENTIFIC BRIDGES ACROSS THE POND

April 29, 2025

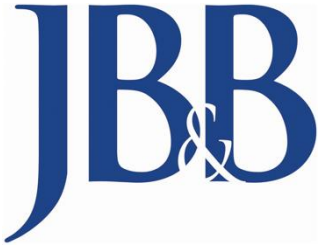
WELCOME REMARKS

NANCY J KELLEY
Nancy J Kelley + Associates
Builds Bio+

PROF. SIR ROBERT LECHLER
King's College London

THANK YOU TO OUR FOUNDING MEMBERS

NANCY J KELLEY
+ASSOCIATES



THANK YOU TO OUR PHILLY FOUNDING MEMBERS

THANK YOU TO OUR LONDON/UK FOUNDING MEMBERS

THANK YOU TO OUR SIGNATURE MEMBERS

THANK YOU TO OUR CORPORATE MEMBERS

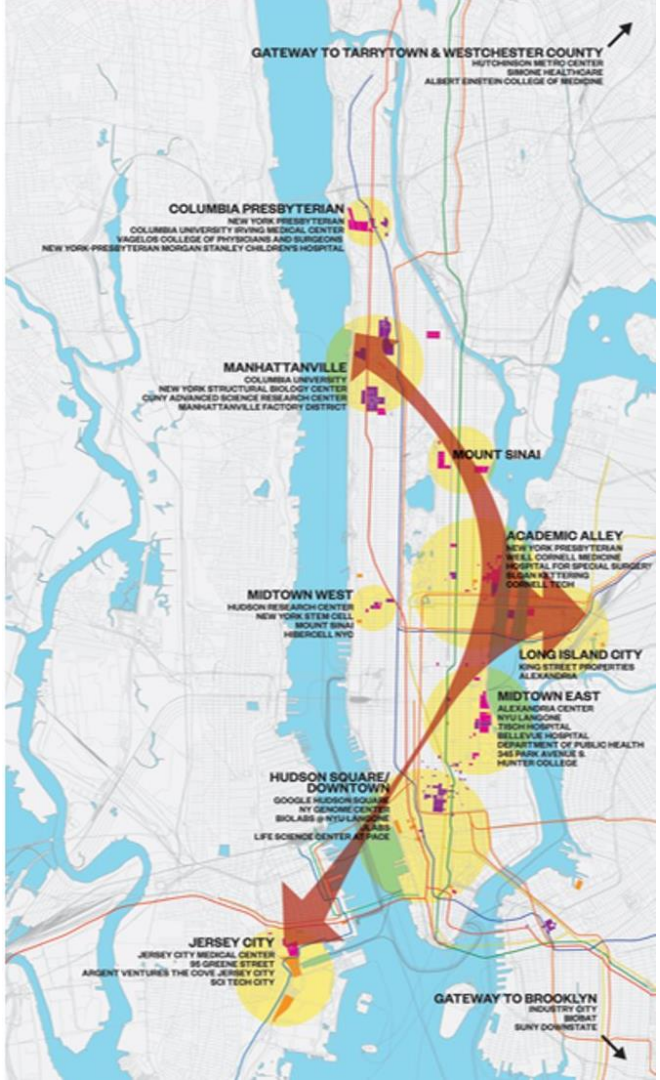
THANK YOU TO OUR INCUBATORS/ ACCELERATORS

THANK YOU TO OUR PROGRAM PARTNERS

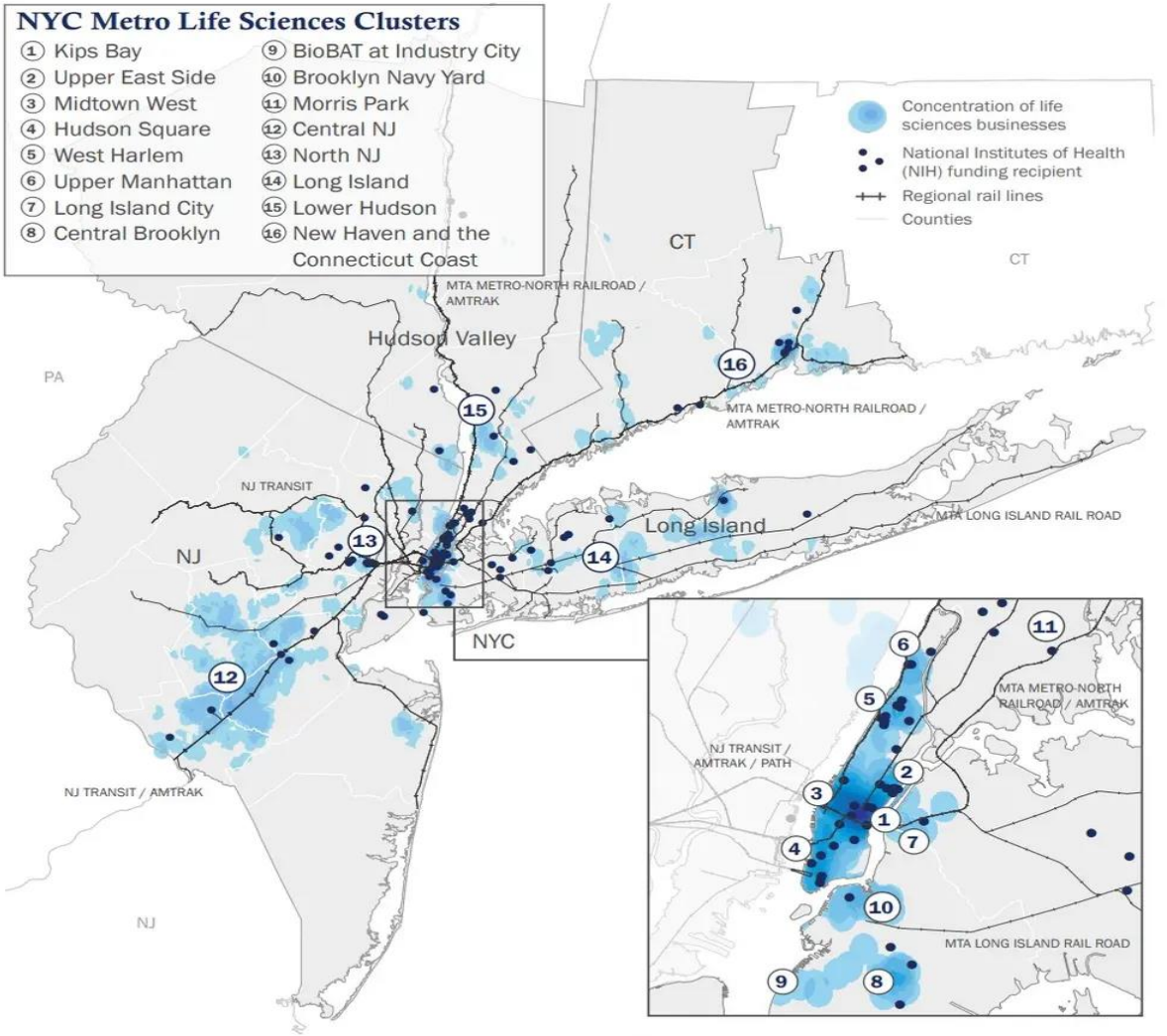
PROGRESS TO DATE

EVOLUTION OF THE ECOSYSTEM

EVOLUTION OF THE ECOSYSTEM

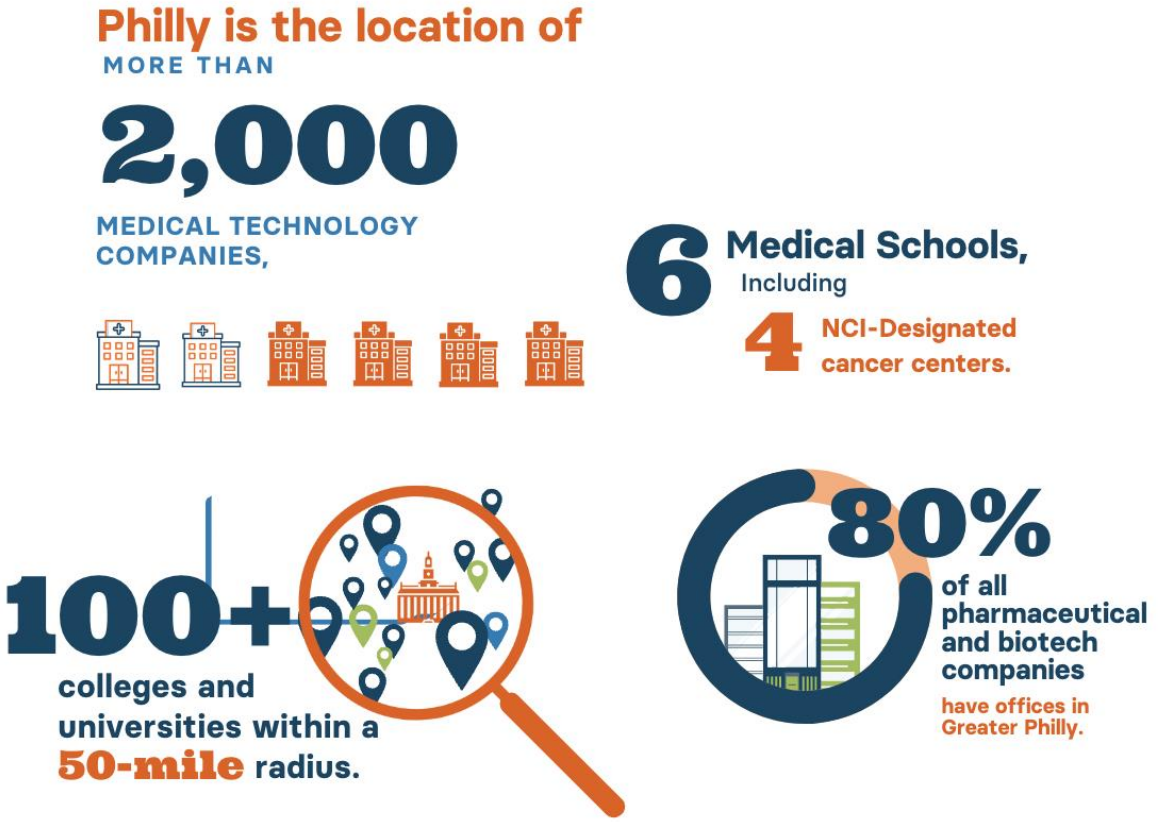


EVOLUTION OF THE ECOSYSTEM



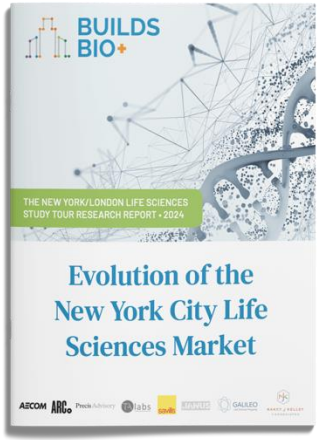
Sources: U.S. Census Bureau County Business Patterns (CBP) 2019; National Institutes of Health, "NIH Awards by Location & Organization," FY 2021.

EVOLUTION OF THE ECOSYSTEM



In late 2023, Builds Bio+ forged a groundbreaking partnership with London's vibrant Life Science community, setting the stage for a three-day immersive dive into the burgeoning New York Life Science cluster. Attendees from London experienced the Life Science landscapes of New York through guided tours and tuned into insightful presentations from public officials, private developers , and academic leaders.

NEW YORK/LONDON LIFE SCIENCES STUDY TOUR RESEARCH REPORT LAUNCH



- The culmination of this journey was the official release of the New York/London Life Sciences Study Tour Research Paper, "Evolution of the New York Life Sciences Market". This exclusive event unveiled the comprehensive research study paper that highlights key observations and findings from the immersive tours. The paper serves as a critical resource, shedding light on the potential influences and opportunities within the life science ecosystem in both New York and London.

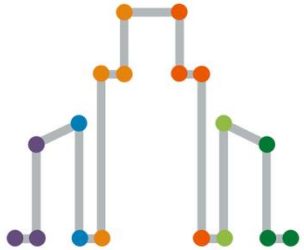
- The event featured a series of esteemed speakers from the London marketplace, who provided their perspectives on the evolution and future trajectory of the UK's life sciences sector. Their discussions underscored the importance of international collaboration and innovation in driving the industry forward.

LONDON UK LIFE SCIENCES STUDY TOUR

Builds Bio+ successfully hosted an enriching Life Science Study Tour in London/UK, providing a unique and meticulously curated experience for those eager to delve into the world of biomedical innovation. From April 23 to 25, 2024, participants explored key locations within London/UK's vibrant life science ecosystem, recognized globally for its blend of tradition and cutting-edge research.

- Day 1: London
- Day 2: Cambridge
- Day 3: Oxford

EVOLUTION OF THE ECOSYSTEM

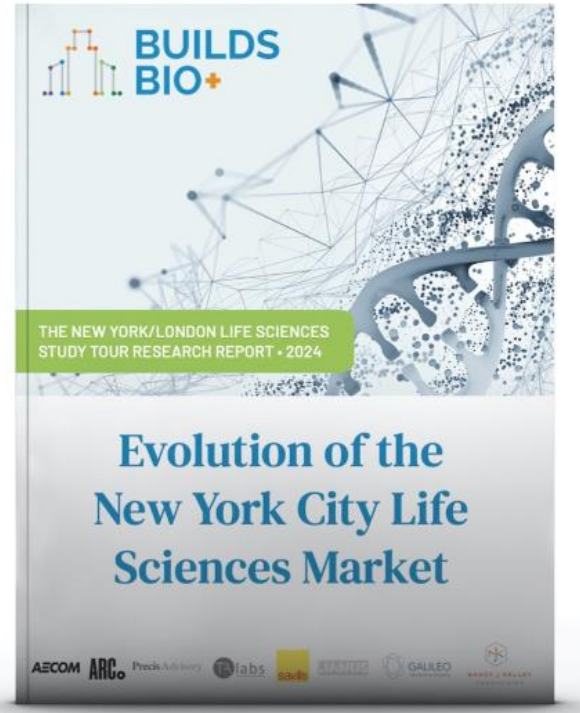


LONDON/UK
BUILDS BIO+

NY METRO
BUILDS BIO+

PHILLY
BUILDS BIO+

INDUSTRY REPORTS PUBLISHED



BUILDS BIO+ EVENTS OVERVIEW

Year	Number of Events	Number of Registrants	YouTube Viewers
2018	1	401	
2019	6	753	135
2020	12	1553	1021
2021	13	1096	114
2022	15	2323*	1528
2023	15	1856	1421
2024	12	1178	567
Total	74	9160	4786

**Hybrid Events allowed for larger audiences post pandemic.*

ONLINE MEMBERSHIP COMMUNITY

ONLINE MEMBERSHIP COMMUNITY FEATURES

Member Profiles and Directory

Chapter Community (NY, PA, UK)

Discounted & Comp Events

Member to Member Benefits

Career Center & Job Opportunities

Membership Renewals and Invoicing


TOTAL MEMBERSHIP ACCOUNTS
850

WHAT'S NEW FOR 2025?

UPCOMING EVENTS

BuildsBio.org/events

FLAGSHIP EVENTS

SAVE THE DATES	2025
JUNE WED 11	LAB OF THE FUTURE LONDON TECH WEEK
SEPT WED 10	PHILADELPHIA SYMPOSIUM
OCT WED 22	NY METRO SYMPOSIUM
NOV 16-19	LONDON/UK SYMPOSIUM LONDON LIFE SCIENCES WEEK

IMPORTANT MEETINGS

SAVE THE DATES	2025
MAY WED 14	PHILLY DEVELOPER SHOWCASE/ DEVELOPMENT CASE STUDY
MAY THU 22	CONNECTING THE CLUSTERS VIRTUAL EVENT
JUNE THUR 26	OPERATIONAL MEETING: LABS & SUSTAINABILITY
SEPT	LAB SUPPLIER & VENDOR SHOWCASE

SPEAKERS & PANELISTS

JOHN ANDERSON
Imperial College London

GRANT BOURHILL
Barts Life Sciences

NANCY J KELLEY
Nancy J Kelley + Associates,
Builds Bio+

DR. JANE KINGHORN
University College London

PROF. SIR ROBERT LECHLER MD
King's College London

RYAN MATENCHUK
Galileo Labs, Builds Bio+

BUILDS BIO+

EVOLUTION OF THE NEW YORK CITY LIFE SCIENCES MARKET

THE NEW YORK/LONDON LIFE SCIENCES STUDY TOUR RESEARCH REPORT LAUNCH

BUILDS BIO+

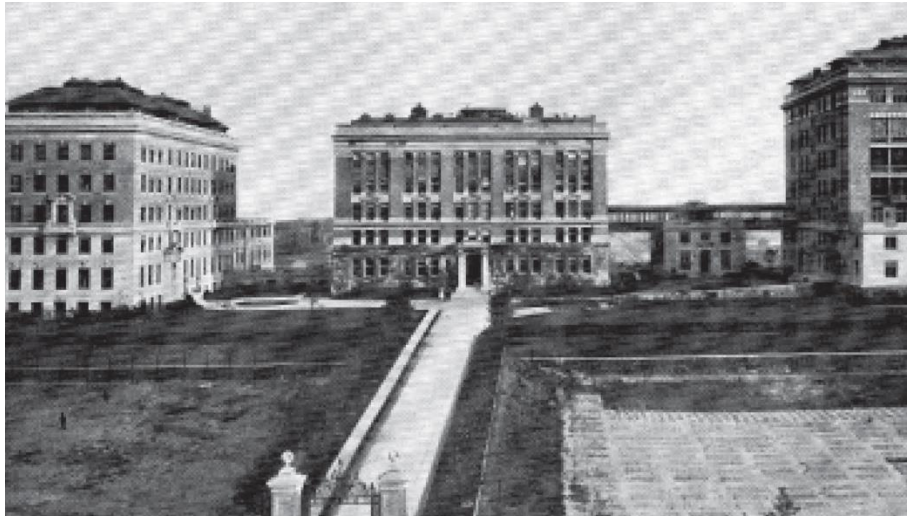
HOW HAS THE LIFE SCIENCE INDUSTRY DEVELOPED IN THE GREATER NEW YORK MARKETPLACE?

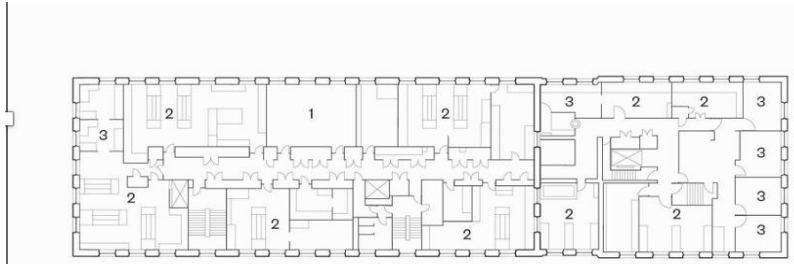
GREATER NYC LIFE SCIENCES: CONTINUING THE LEGACY

Schermerhorn Hall Columbia University, New York 1898
Architect: McKim, Mead & White

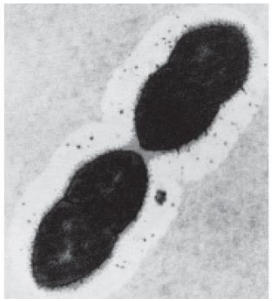
Schermerhorn Hall was built to house the natural sciences on the Columbia Morningside Campus in 1897. Its The famous Fly Room of evolutionary biologist Thomas Hunt Morgan was located in room 613, where Morgan's studies pf the fruit fly led to his discovery of the role of genes in inheritance which earned him the the 1933 Nobel Prize in Physiology or Medicine.

GREATER NYC LIFE SCIENCES: CONTINUING THE LEGACY



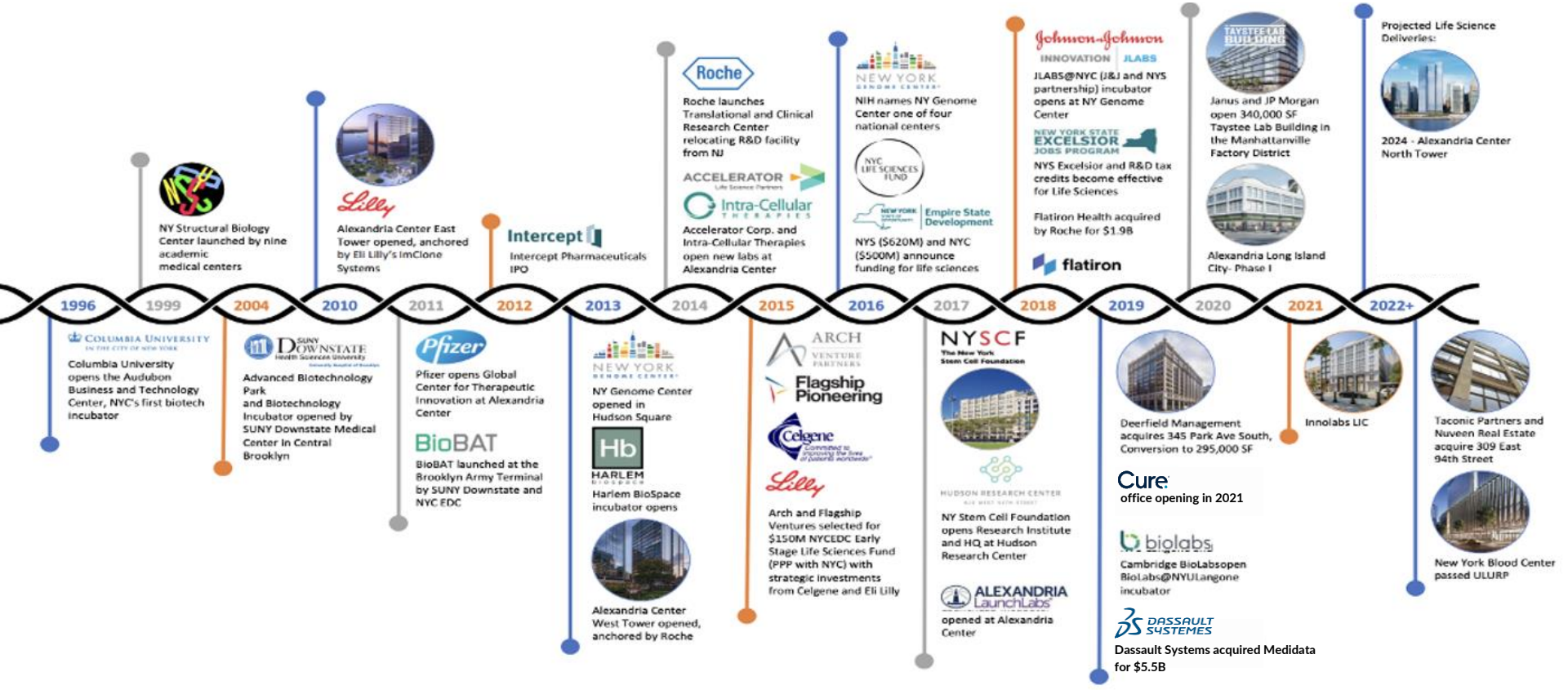


The Rockefeller Institute Flexner Hall, New York 1917
Architect: Coolidge & Shattuck



For more than a century, scientists at Rockefeller University have enhanced our understanding of the molecular basis of life — specifically the relationship between the structure and function of nucleic acids and proteins. They showed that DNA transfers genetic information and that the sugars ribose and deoxyribose are the key building blocks of the nucleic acids RNA and DNA. Much of this work was done in Flexner Hall at Rockefeller University. National Historic Chemical Landmarks program of the American Chemical Society.

NYC LIFE SCIENCE TIMELINE



Source: Bill Harvey, Newmark, Builds Bio+ 2022 Event "Gateways to the East: Brooklyn and Long Island City"

MAYOR'S 10 POINT PROGRAM

1. **Invest $100 million to create a new Applied Life Sciences Campus**. This world-class facility would serve as an anchor for the life sciences industry, driving bio-engineering innovation, research and development partnerships and entrepreneurial training.

2. **Provide $50 million to expand the network of life sciences R&D facilities**. These targeted investments in NYC's existing academic medical centers and research institutions would support workspaces for research with a high potential for commercialization and growth.

3. **Invest $10 million to expand the network of incubators** which would provide affordable space for life science start-up companies. 5 new incubators and innovation centers were planned in close proximity to existing research centers.

4. **Commit $20 million/ year in matching funds to support early-stage businesses**. With this seed and growth funding capital, the City hoped to spur the expansion of up to 80 companies that would create new jobs.

5. **Invest $7.5 million to create internships and life sciences curricula**. The new internship program would connect students with opportunities at life sciences companies and institutions, while the new curricula for local colleges and universities, based on input from local employers, would prepare the next generation of life sciences talent.

MAYOR'S 10 POINT PROGRAM (CONT'D)

6. **Commit $300 million in tax incentives to attract investment in commercial lab space** for life science businesses. These tax incentives would encourage developers to unlock affordable lab space for growing life science companies.

7. **Modernize land use policies to encourage new space for life science firms**. The clarification of regulations that would explicitly allow R&D in the majority of commercial zones throughout the City would double the potential areas where life science laboratories could locate.

8. **Provide $7.5 million to create a Life Sciences Management Corps**. This funding would be provided to life science startups to help them secure experienced executives to launch and grow life sciences businesses in New York City.

9. **Provide $3.8 million to expand training programs for entrepreneurs**. This funding would expand two successful programs, its Bio and Health Tech Entrepreneurship Lab (ELabNYC) and the SBIR Impact program which helps companies compete for funding through the NIH's Small Business Innovation Research program.

10. **Launch the Mayor's Life Sciences Advisory Council**. This Advisory Council would comprise 15 members from academia, industry, philanthropy and finance that would work with the Mayor to advance New York as a global center for life sciences.

GOVERNOR'S LIFE SCIENCE INITIATIVE

- In 2018, New York State enacted a $620 million initiative to further develop a world-class life sciences research cluster in New York, as well as expand the state's ability to commercialize this research and grow the economy. New York State's $620 million investment in life sciences included:
  - $320 Million in Capital Programs to support the development of wet-lab and innovation space, operating support and investment capital for early-stage life science companies
  - $100 Million Refundable R&D Tax Credits available to new life sciences companies, including refundable tax credits for R&D expenditures
  - $100 Million Expansion of the Excelsior Jobs Program Tax Credit to the life science industry to spur job creation
  - $100 million in Private Investment raised by the Partnership Fund for NYC and allocated to the Life Science Venture Capital Fund

SUMMARY OF MAJOR PROJECTS

- **JLABS@NYC Opening**
  - $17 million investment by Gov. Cuomo
  - New life sciences incubator at NY Genome Center
  - 30,000 sq ft facility by Johnson & Johnson
  - Up to 30 startups in biotech, pharma, med tech, consumer health
- **IndieBio Investment**
  - $25 million investment from NYS
  - Leading bio-accelerator opening in NYC
  - Over 90 companies, $100+ million in VC, 400 jobs in SF
  - 20+ early-stage companies annually
  - Up to $2M investment per company by SOSV
  - $70 million+ planned investment from SOSV
  - $10 million cumulative investment from Partnership Fund for NYC
- **Partnership with Deerfield for the Cure creation**
- **Partnership with King Street Properties for InnoLabs**
- **Pandemic Response Lab opened at InnoLabs during COVID-19**
- **$10 million NY Empire State Development grant for Taystee Lab building**


JLABS


IndieBio Labs


The Cure

PHILANTHROPIC INVESTMENT

- While NYC's major academic and medical institutions invested billions in new facilities and programs to promote technology commercialization and entrepreneurship, philanthropic investments by the Simons Foundation, Alfred P Sloan Foundation, Bloomberg Foundation and Carson Family Charitable Trust, among others, underwrote the New York Genome Center, the Jacobs Technion-Cornell Institute and the latest New York Climate Exchange on Governor's Island, among other projects.

SIMONS FOUNDATION

ALFRED P. SLOAN FOUNDATION

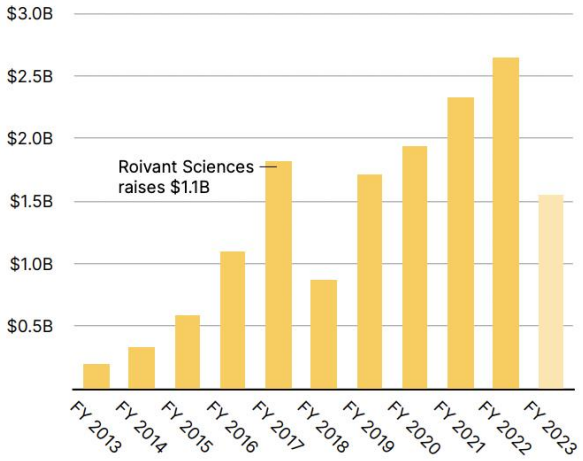
The Carson Family Charitable Trust

Bloomberg Philanthropies

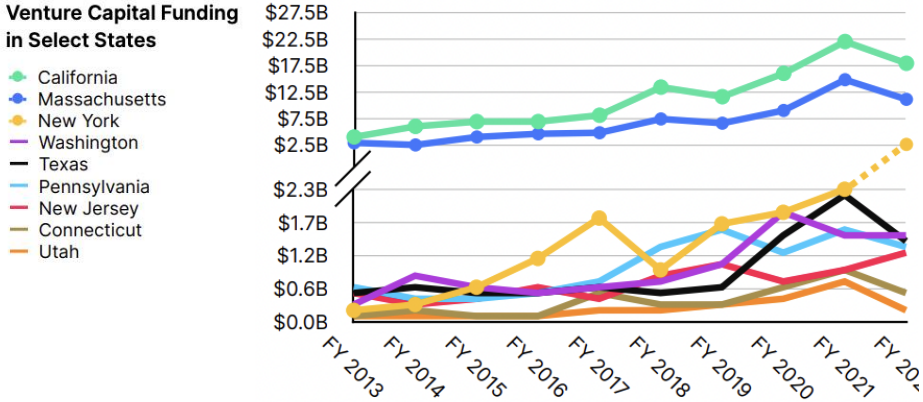
VENTURE INVESTMENT

New York State Life Sciences Venture Capital Funding

Note: FY 2023 data is preliminary and most recent available through Oct. 12, 2023



Venture Capital Funding in Select States



Significant private sector investment followed

Source: Partnership for New York, "A Decade of Growth: New York's Life Sciences Industry", 2023

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OVERVIEW OF THE NEW YORK CITY LIFE SCIENCE SUBCLUSTERS

GREATER NEW YORK CITY LIFE SCIENCES

- The greater New York City marketplace has a number of subclusters emerging throughout its major boroughs: Manhattan, Queens (Long Island City), Brooklyn, and the Bronx.

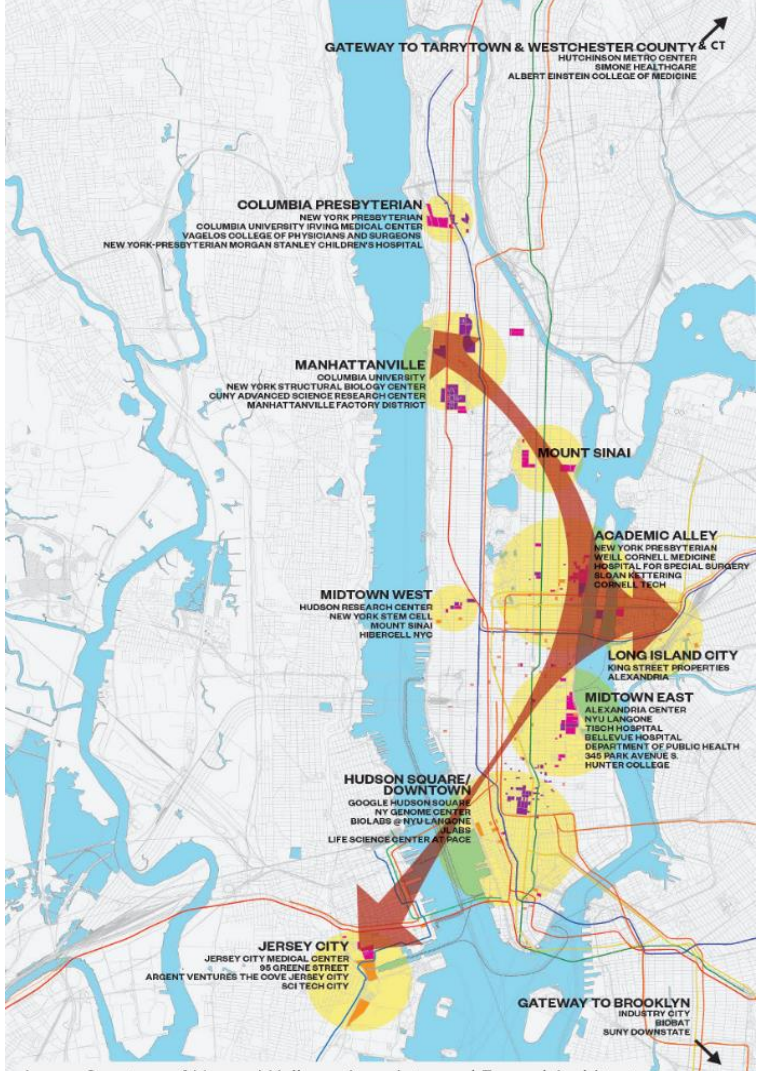
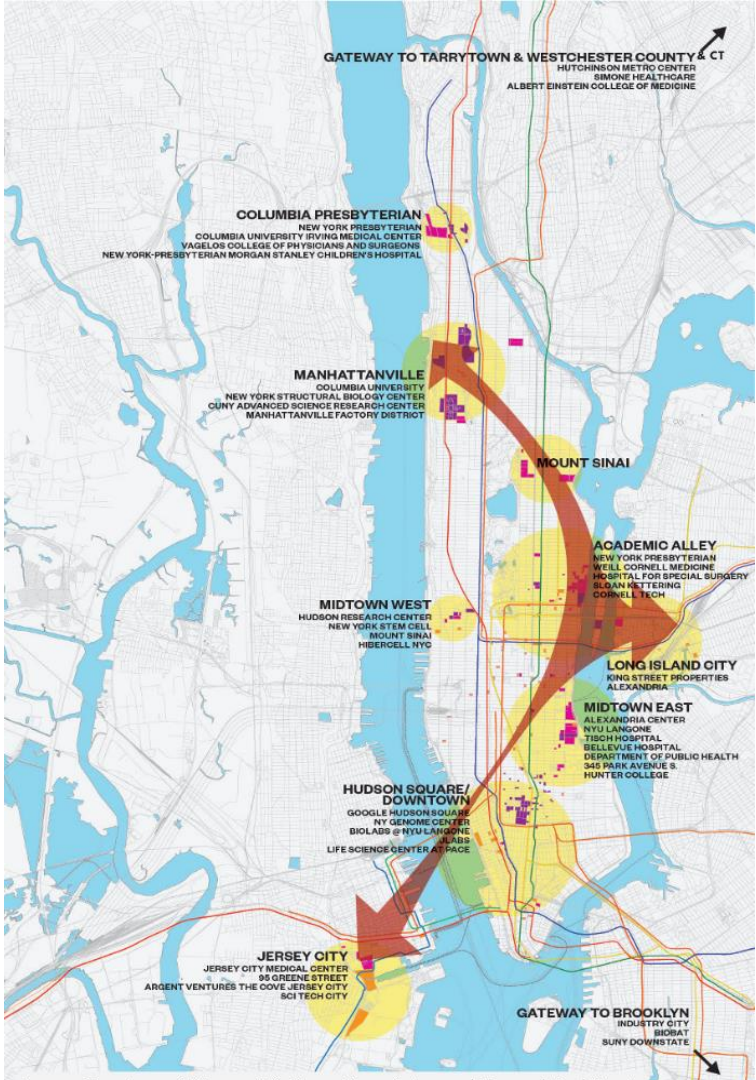


Image Courtesy of Nancy J Kelley + Associates and Ennead Architects

EAST SIDE CORRIDOR

- Mount Sinai
- Academic Alley
- Long Island City
- Kips Bay (Midtown East)
- Brooklyn
- Hudson Square



EAST SIDE CORRIDOR


The Cure


Alexandria Center


Innolabs

Alexandria Life Science Center


SPARC Kips Bay


The Hatch


Memorial Sloan Kettering Cancer Center


Rockefeller University River Campus


New York Blood Center East


Mount Sinai Center for Artificial Intelligence and Human Health

WEST SIDE CORRIDOR

- Bronx Hutchinson Metro Center
- Columbia Presbyterian
- Manhattanville
- Midtown West
- Hudson Square

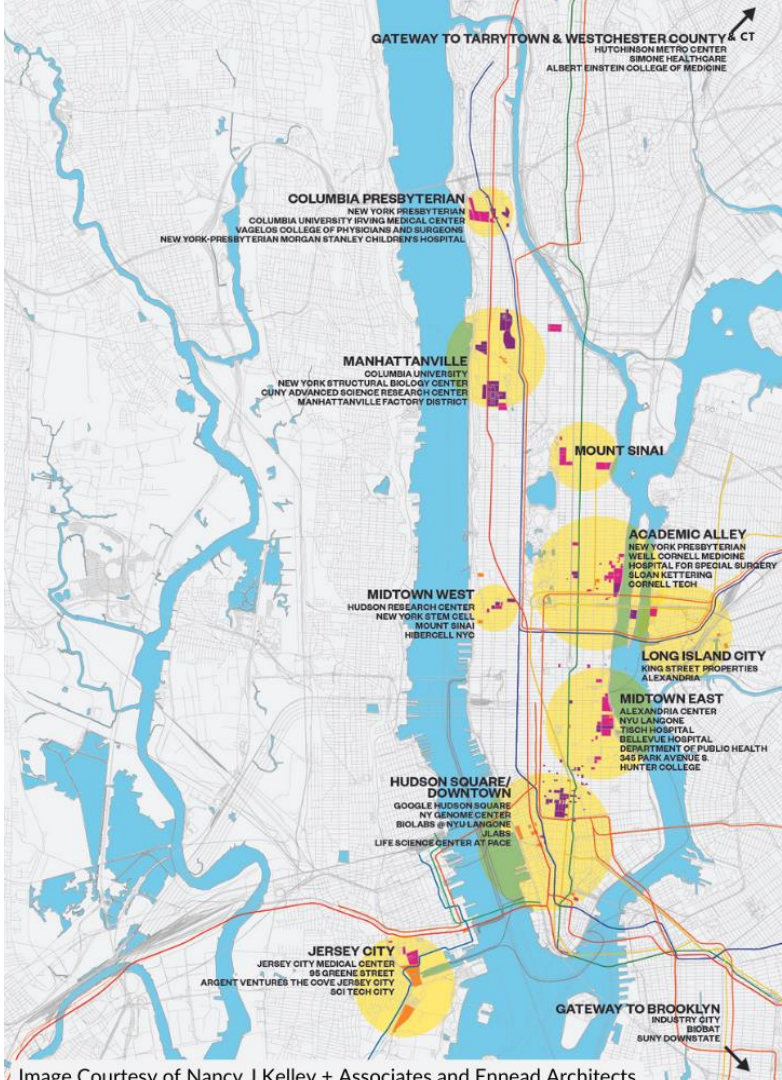


Image Courtesy of Nancy J Kelley + Associates and Ennead Architects

WEST SIDE CORRIDOR

HEMOGENYX PHARMACEUTICALS
a life saving company

Quicksilver Biosciences, Inc.

Hb HARLEM biospace

volastra


West End Labs


525 West 57th Street


Taystee Building


Mink Building


Hudson Research Center

GATEWAYS TO NEW JERSEY

- Jersey City
- Newark

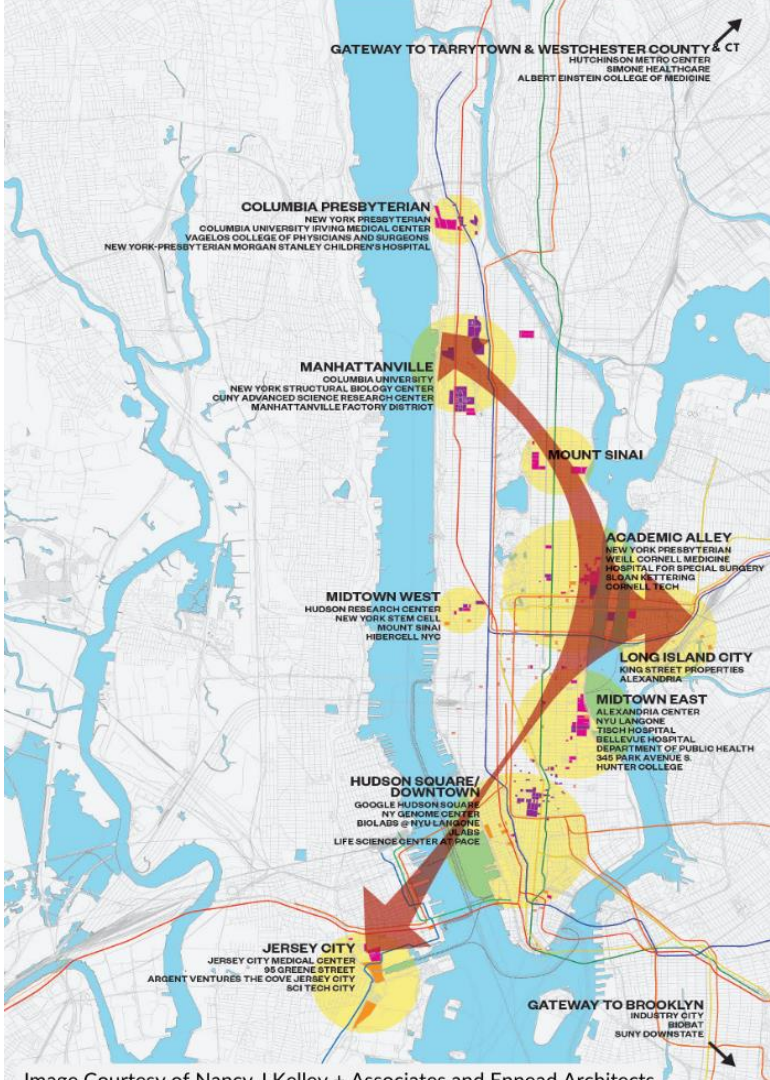
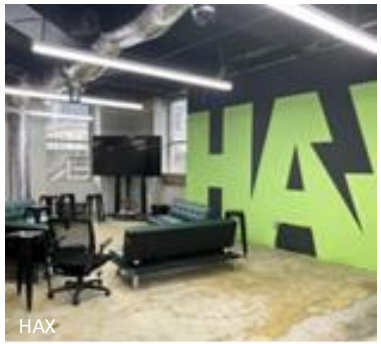


Image Courtesy of Nancy J Kelley + Associates and Ennead Architects

GATEWAYS TO NEW JERSEY: JERSEY CITY, NEWARK


The Cove




95 Greene Street

APPRENTICE

EVERGREEN THERAGNOSTICS

LIBERTY SCIENCE CENTER

95

NJIT Institute for Future Technologies

RWJBarnabas HEALTH

Centre Pompidou

SCITECH SCITY

THE COVE

ORGANON

synexis

FORK&GOODE

CLARIS BIO

BUILDS BIO+

SUMMARY OF ACCOMPLISHMENTS AND NEW INITIATIVES

LIFE SCI NYC/ NYS ESD

- **$1.1B of total investment**
  - $450M of capital
  - $600M of tax incentives
  - $50M to support talent development & startups
- **12 active incubators and accelerators and 3.5m SF of commercial life sciences real estate**
- From 2017 to 2022, **Life Sciences employment in NYC grew 52.2%** from 13,000 to 19,800. **Average annual wages** grew 19.7% from **$116k to $139k**
- Building to over **1,000 R&D stage companies, 40,000 jobs, 10M SF in wet and dry lab real estate**
- **$82B in economic impact over next 10-15 years**

NYCEDC Presentation, NY Metro Reception, 2/28/24

Deerfield's Lab of the Future

LifeSci Summer '23 Interns


Aanika Biosciences

SPARC KIPS BAY

- $1.6B City & State Investment
- $42B Economic Impact
- 1-acre Public Realm Improvements
- 3,100+ Permanent Jobs
- $2B Expected in Private Investment

NYCEDC Presentation, NY Metro Reception, 2/28/24

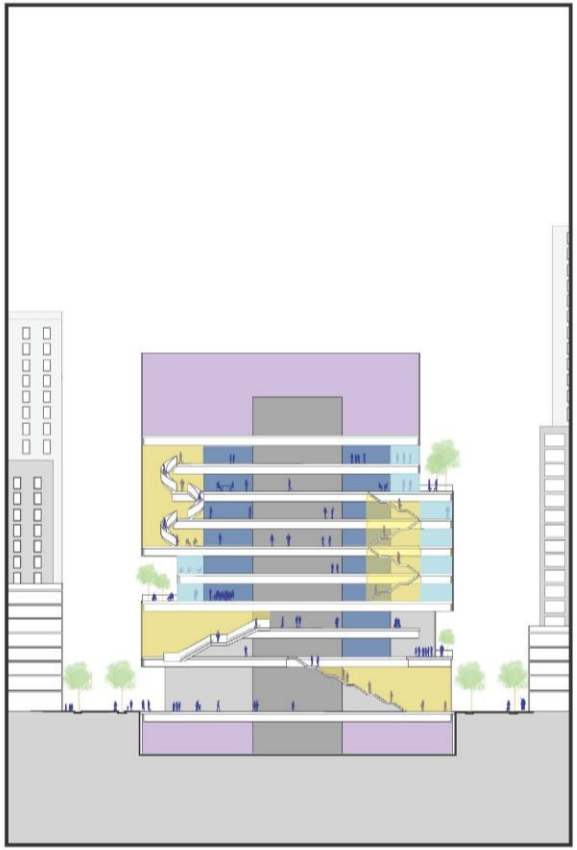
SPARC KIPS BAY LIFE SCIENCES RFEI

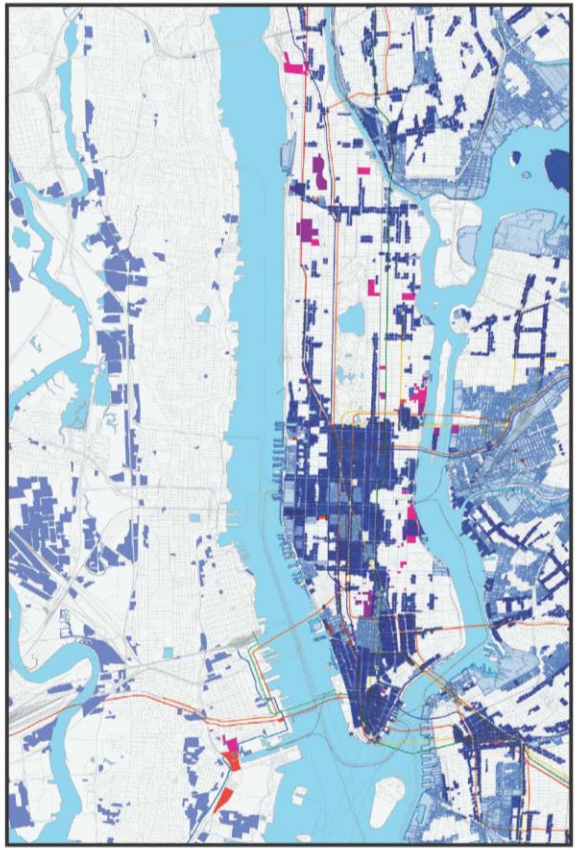
- EDC is seeking a transformative Anchor tenant to create a Center within the Campus that is focused on Translational R&D and the intersection of life sciences and advanced technology
- Proposals may include:
  - A translational research institute
  - Corporate innovation campus
  - Non-profit or philanthropy led research entity
  - An innovation hub or accelerator
- NYCEDC anticipates allocating up to $100M of city capital for the Life Sciences Center

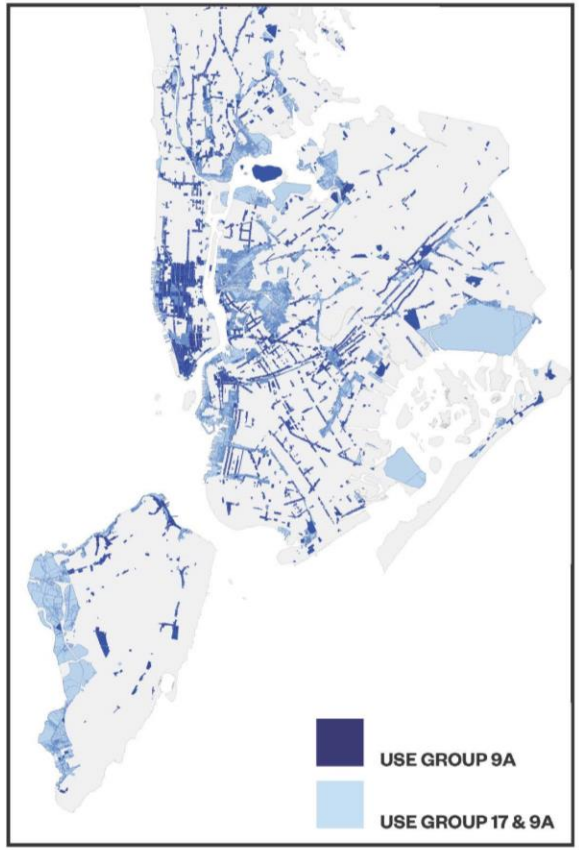
NYCEDC Presentation, NY Metro Reception, 2/28/24

Proposed lab concept

CITY OF YES ZONING REFORM: EXPANDED LIFE SCIENCE LABORATORIES

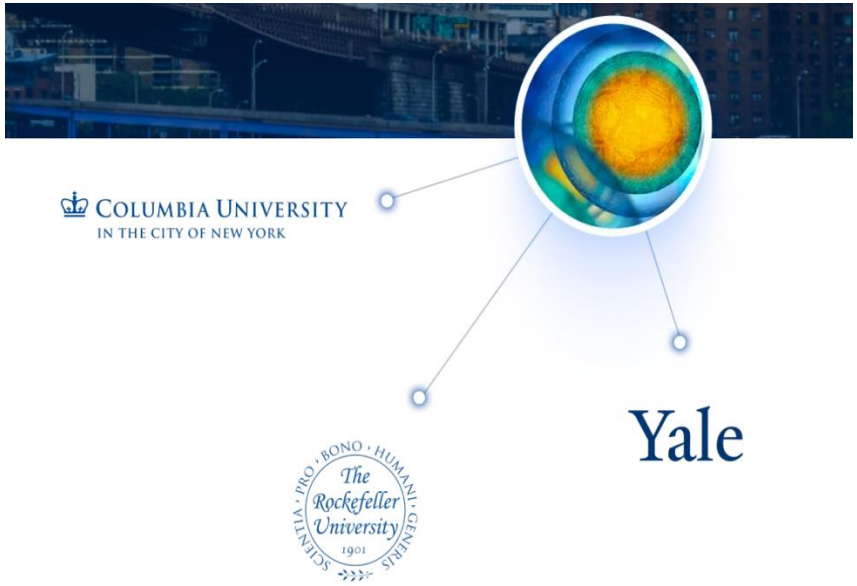






RECENT LIFE SCIENCE WINS: CZ BIOHUB NY

- $300 Million
  CZ Biohub NY announced in October to harness bioengineered immune cells



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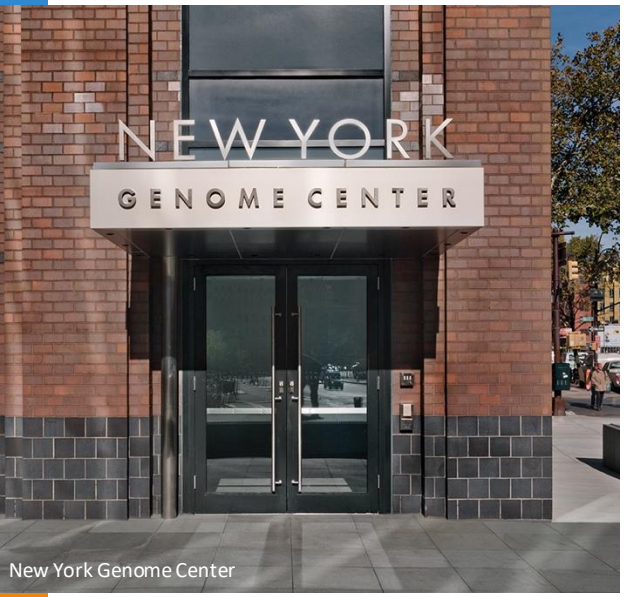
LESSONS LEARNED

Biolabs@NYULangone Ribbon-Cutting

LESSONS LEARNED

- Infrastructure
- Flexibility
- Technology
- Local Leadership
- Social Equity



New York Genome Center


Robotic Pipette System


Builds Bio+ Founders

LESSONS LEARNED: INFRASTRUCTURE

Alexandria Life Science Center

New York Genome Center


Hudson Research Center


West End Labs


The Taystee Building

Innolabs


JLABS NYC


BioBAT

Biolabs @NYULangone


Cultured Colonies

LESSONS LEARNED: FLEXIBILITY

- Attraction of startups through incubators and shared lab facilities providing affordable, flexible spaces with shared resources.

LESSONS LEARNED: TECHNOLOGY

- Research and Development
  - Therapeutics
  - Diagnostics
  - Medical Devices
  - Robotics
  - Biomanufacturing
  - Digital Health
- Computation, Big Data and Artificial Intelligence
- Engineering Biology and Materials
- Climate Solutions


Wind Turbines


Genome Sequencing


Scientists


Array of Petri Dish Samples


Robotic Pipette System

LESSONS LEARNED: LOCAL LEADERSHIP

- Local developers, builders, construction, engineering and design professionals, with in-depth knowledge of the city's landscape serve as a bridge between academic innovation and commercial development


Founders of Builds Bio+


Matt Weir, Taconic


Ribbon Cutting at the Taystee Building with Janus Property

BUILDING TO COMPETE: WORKFORCE DEVELOPMENT AND SOCIAL EQUITY

- **LifeSci NYC Internship Program**
  - Paid internships to develop future life sciences leaders in NYC
  - Internships for undergraduates and graduates
  - Curriculum and training in hard and soft skills
  - 3,250 students apply, 166 placed

- **SPARC Kips Bay Project**
  - New education and job training model
  - Focus on life sciences, healthcare, public health jobs
  - Pipeline from local public schools to relevant careers
  - Aimed at equitable economic benefits distribution
  - Focus on inclusion of underserved communities

LIFE SCI NYC
INTERNSHIP PROGRAM

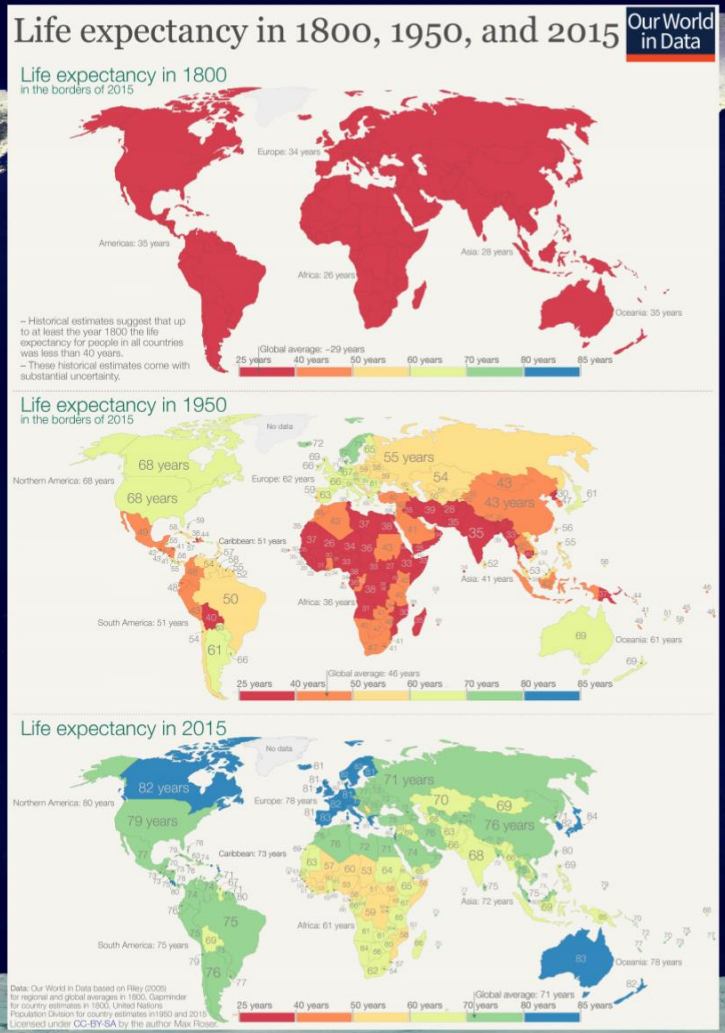
NYC Mayor's Office of Talent and Workforce Development

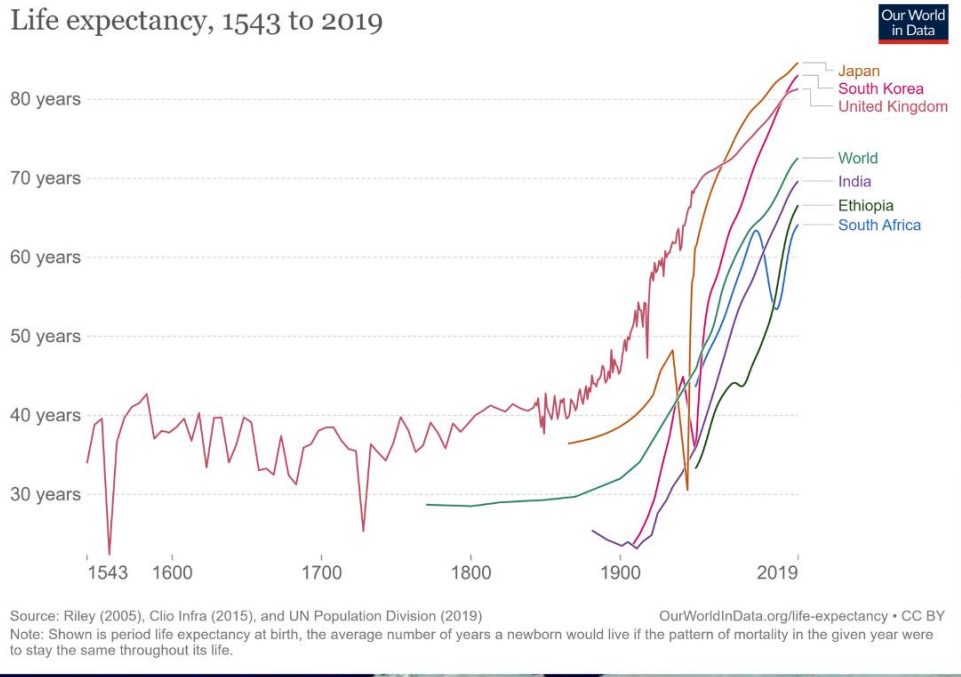
SPARC Kips Bay

Healthcare in crisis….

Robert Lechler

Life expectancy massively increased

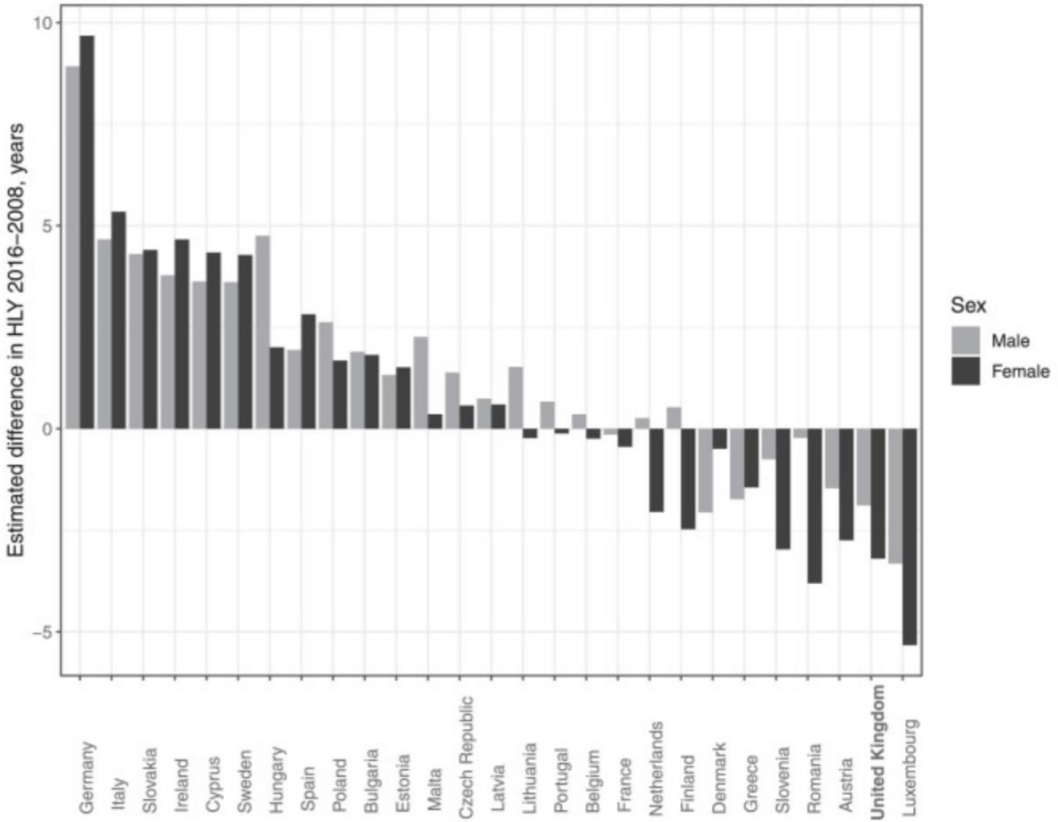




A century of remarkable progress

A century of remarkable progress

Followed by two decades of decline leading to an impending crisis....

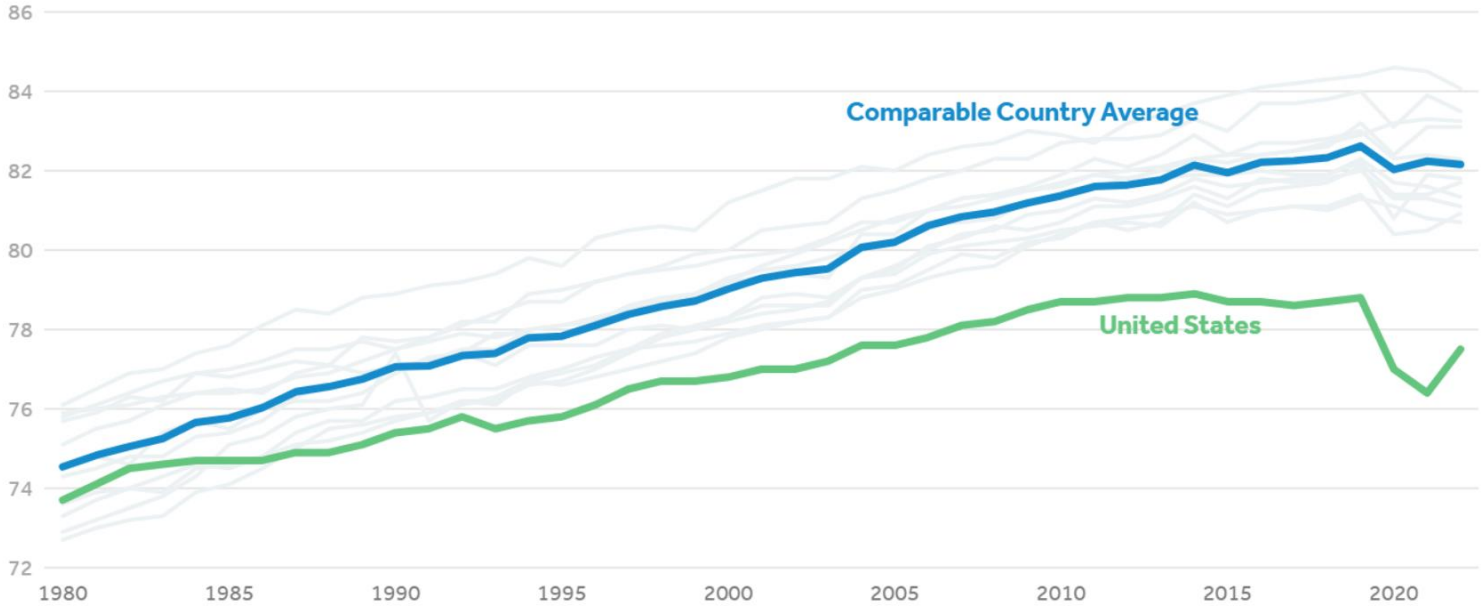


Trends in life expectancy and healthy life years at birth and age 65 in the UK, 2008–2016, and other countries of the EU28: An observational cross-sectional study

Claire E. Welsh, Fiona E. Matthews, Carol Jagger

The Lancet Regional Health – Europe
Volume 2 (March 2021)
DOI: 10.1016/j.lanepe.2020.100023

Life expectancy at birth, in years, 1980-2022



Notes: Comparable countries include Australia, Austria, Belgium, Canada, France, Germany, Japan, the Netherlands, Sweden, Switzerland, and the U.K. See Methods section of "How does U.S. life expectancy compare to other countries?"

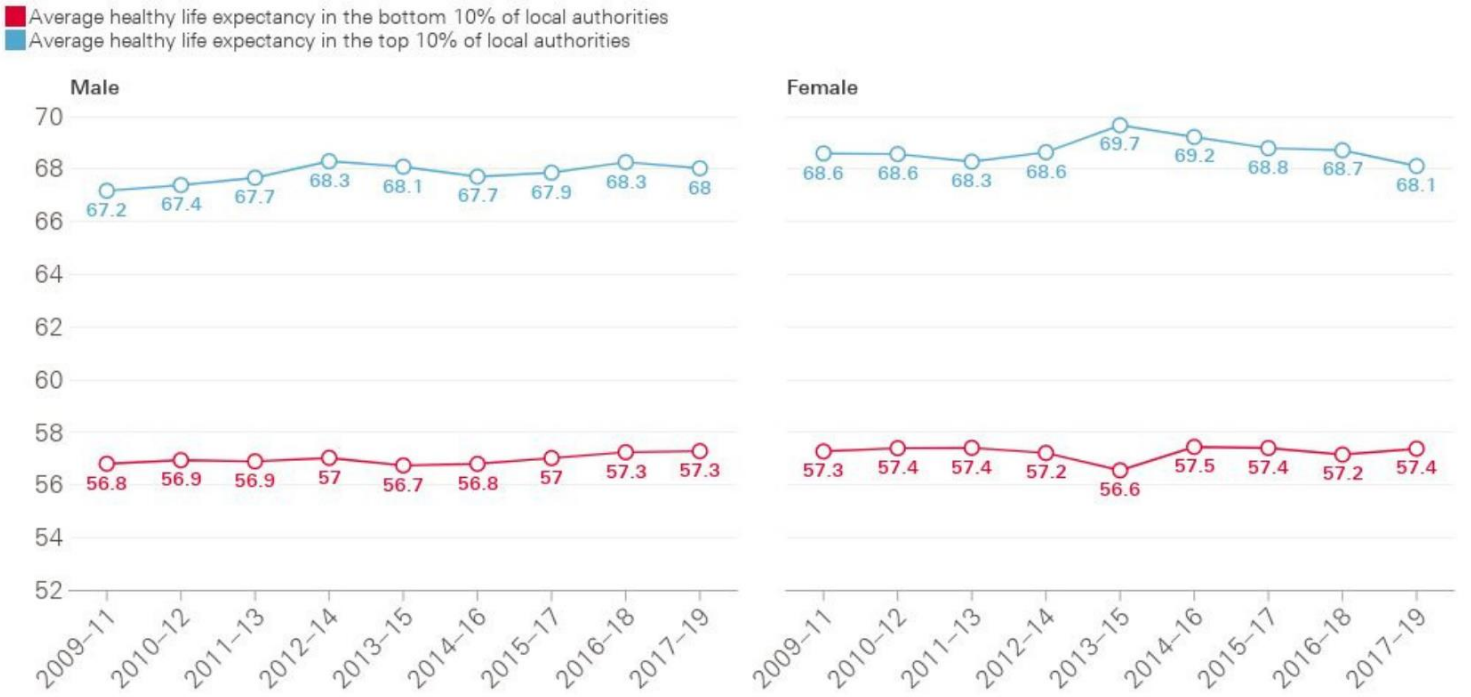
Source: KFF analysis of CDC, OECD, Australian Bureau of Statistics, Japanese Ministry of Health, Labour, and Welfare, Statistics Canada, and U.K. Office for National Statistics data • Get the data • PNG

Peterson-KFF
Health System Tracker

Increasing inequalities

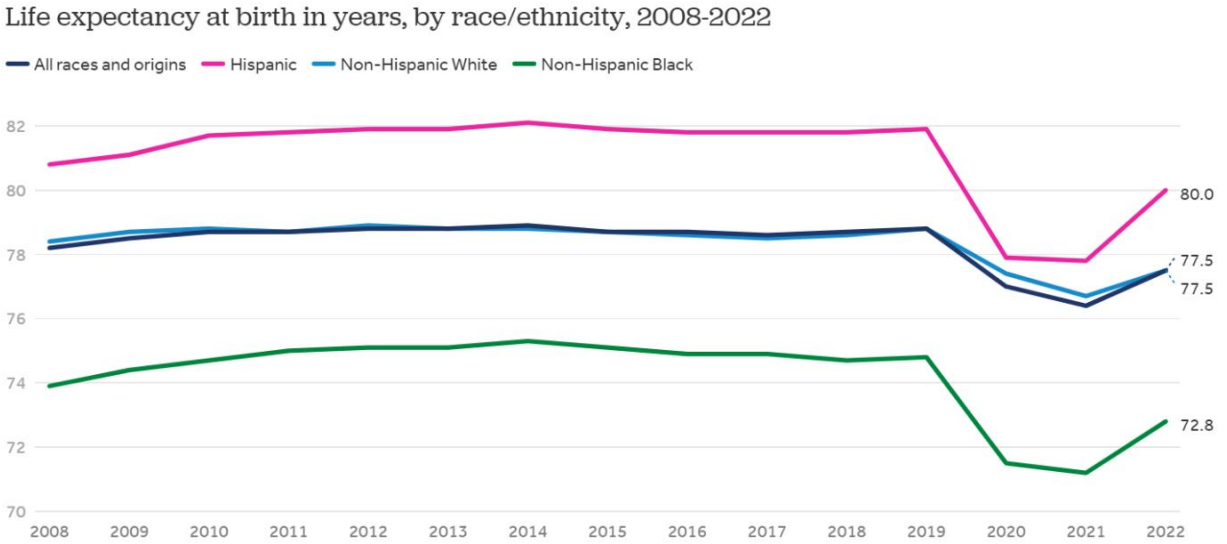
The gap in healthy life expectancy between the most and least healthy 10% of local authorities has remained over the past decade

Top and bottom 10% of upper tier local authorities by health state life expectancy: UK, 2009–11 to 2017–19



Source: Health Foundation analysis of ONS, Health State Life Expectancies, 2017-19

Health inequality in the USA



Note: Starting with 2018 data, race is presented as single-race estimates (only one race was reported on the death certificate). Persons of Hispanic origin may be of any race but are categorized as Hispanic for this analysis; other groups are non-Hispanic. See Methods section of "How does U.S. life expectancy compare to other countries?" Data for 2022 are provisional.

Source: KFF analysis of CDC/NCHS data • Get the data • PNG

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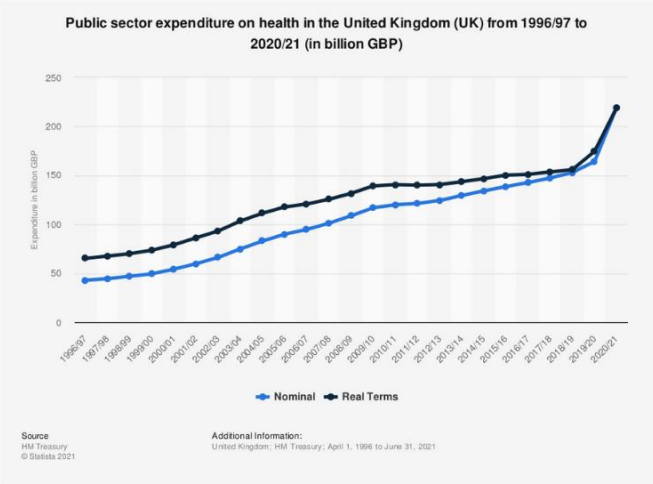
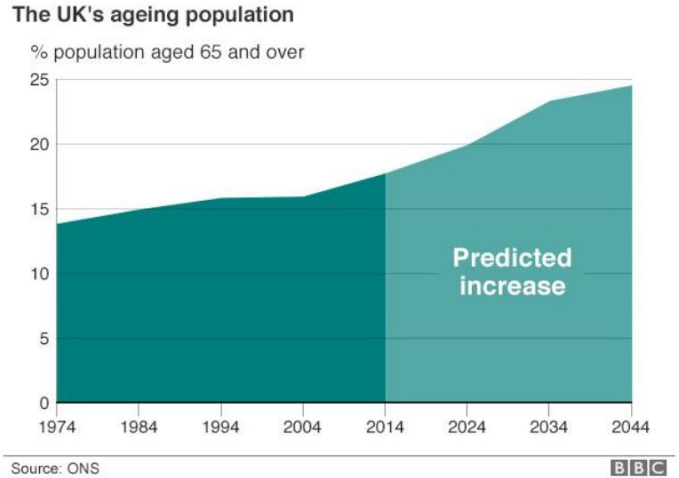
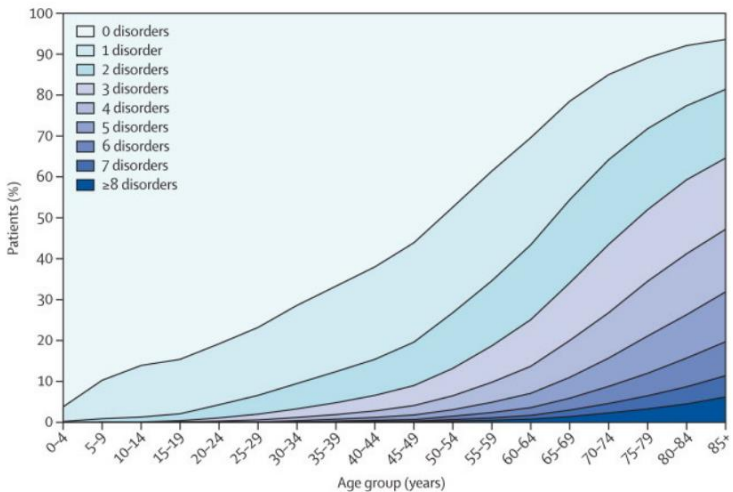
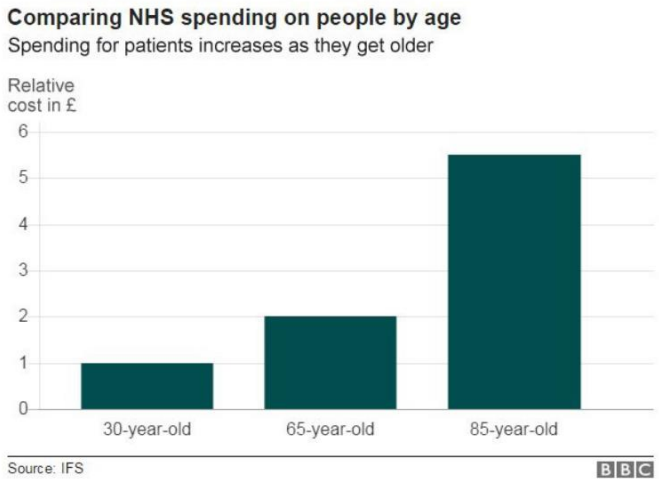
Health System Tracker


Public sector expenditure on health in the United Kingdom (UK) from 1996/97 to 2020/21 (in billion GBP)
Expenditure in billion GBP
250
200
150
100
50
0
1996/97
1997/98
1998/99
1999/00
2000/01
2001/02
2002/03
2003/04
2004/05
2005/06
2006/07
2007/08
2008/09
2009/10
2010/11
2011/12
2012/13
2013/14
2014/15
2015/16
2016/17
2017/18
2018/19
2019/20
2020/21
Nominal
Real Terms
Source
HM Treasury
© Statista 2021
Additional Information:
United Kingdom; HM Treasury; April 1, 1996 to June 31, 2021


The UK's ageing population
% population aged 65 and over
25
20
15
10
5
0
Predicted increase
1974
1984
1994
2004
2014
2024
2034
2044
Source: ONS
BBC


Patients (%)
100
90
80
70
60
50
40
30
20
10
0
0 disorders
1 disorder
2 disorders
3 disorders
4 disorders
5 disorders
6 disorders
7 disorders
≥8 disorders
0-4
5-9
10-14
15-19
20-24
25-29
30-34
35-39
40-44
45-49
50-54
55-59
60-64
65-69
70-74
75-79
80-84
85+
Age group (years)


Comparing NHS spending on people by age
Spending for patients increases as they get older
Relative cost in £
6
5
4
3
2
1
0
30-year-old
65-year-old
85-year-old
Source: IFS
BBC

An unprecedented challenge

- Life expectancy has plateaued and is declining, for the first time in human history, in some regions
- The gains made in life expectancy have not been matched by equivalent gains in healthy life years
- Health inequalities are indefensible and widening
- Demands on the health service are rising year on year, and have been exaggerated by the pandemic
- The costs of health and care are also rising sharply
- The health and care workforce is under unprecedented pressure

Healthcare in crisis….
Solutions are within our grasp

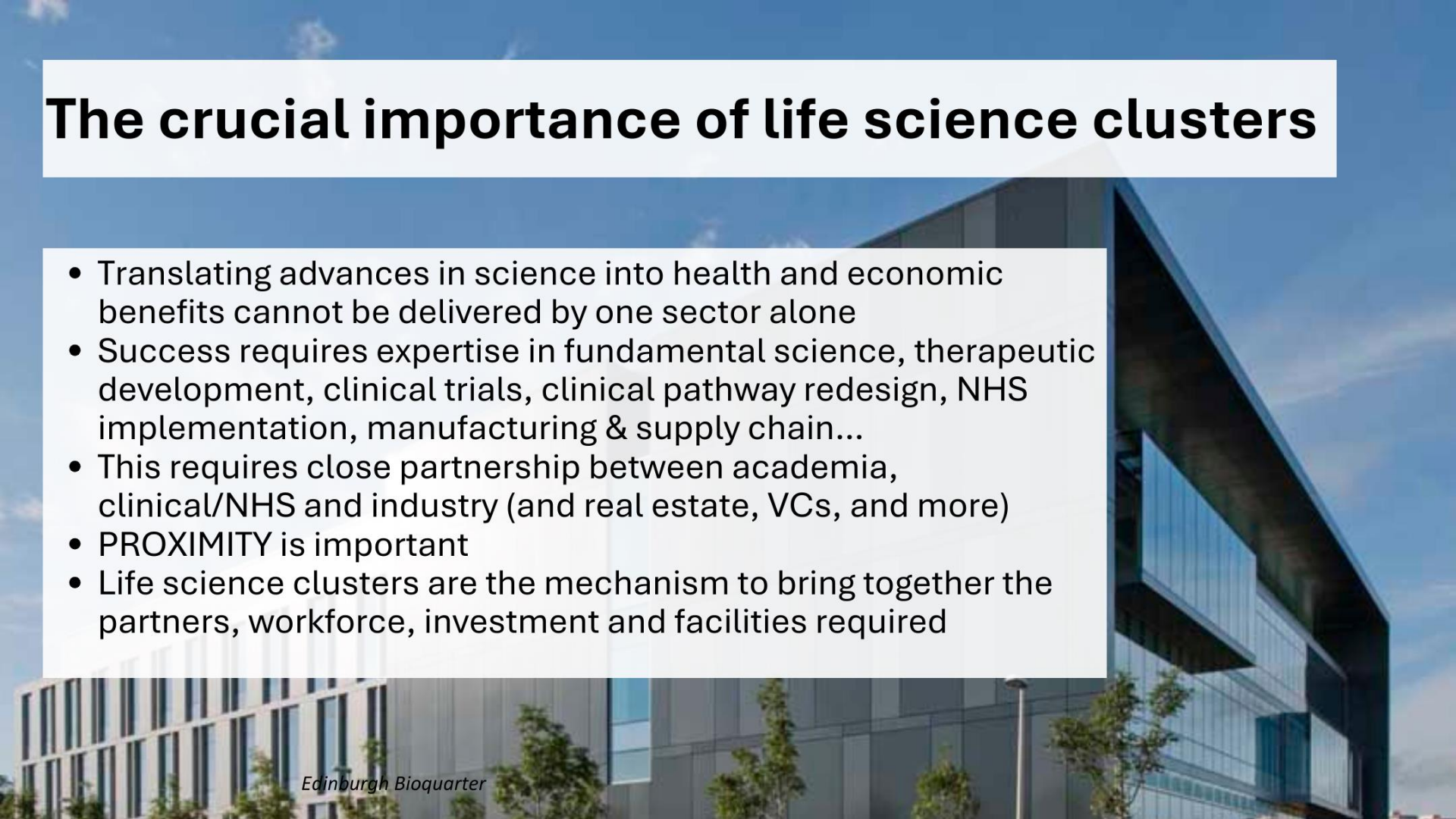
Robert Lechler

A decade of unprecedented opportunity

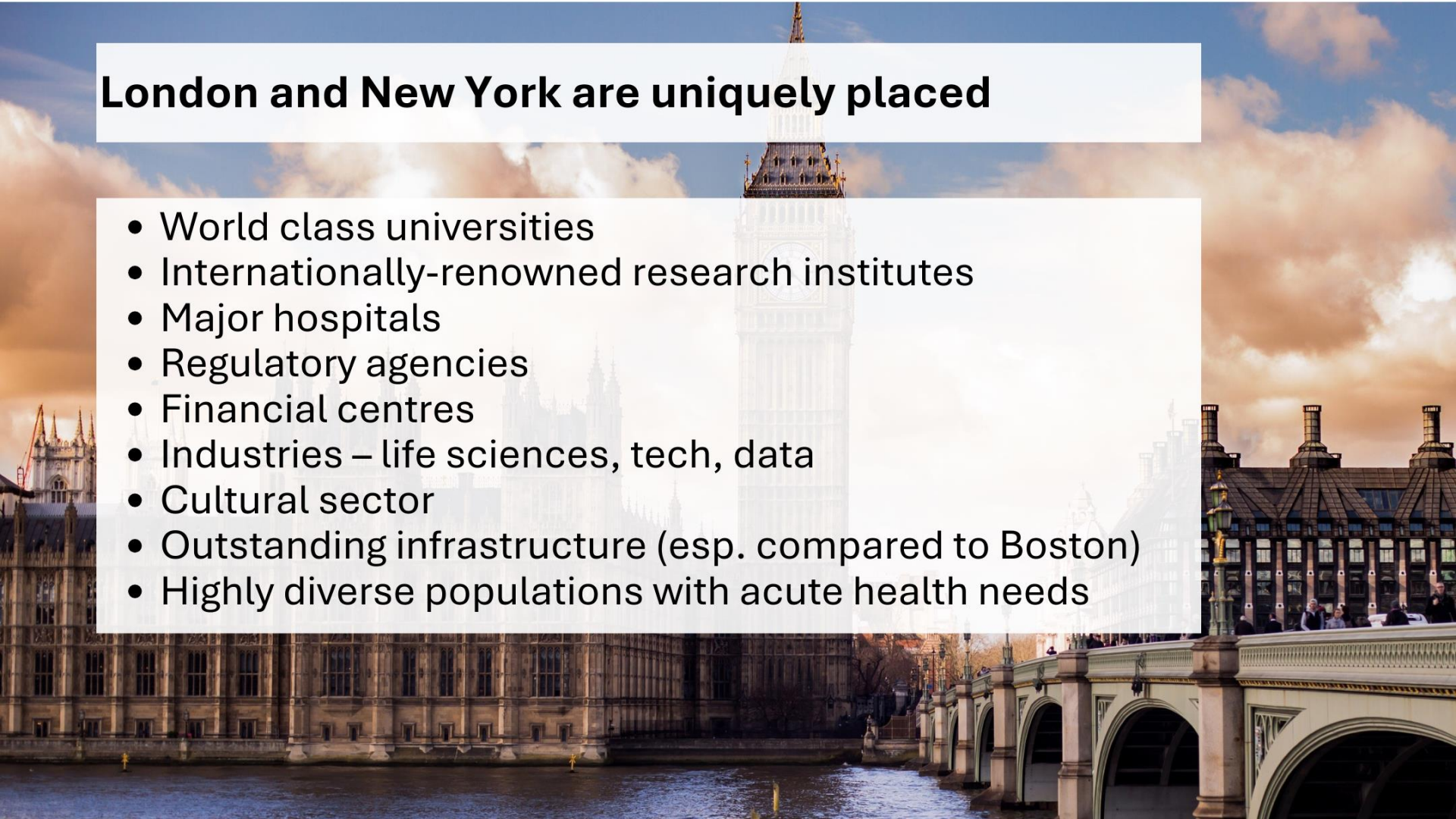
- Biomedical science is moving at a remarkable pace, driven by new technologies, breakthroughs in understanding and increasing cross-talk between disciplines
- ***A new approach to disease prevention and health promotion*:** Our understanding of personalised risk and interventions is improving, and data science is showing where and how to intervene
- ***Re-engineering the healthcare system:*** A revolution in early detection and diagnosis is underway, combining AI with advanced imaging and new biological detection techniques
- ***Curative therapies:*** We are on the verge of major advances in treatment of previously intractable diseases

The crucial importance of life science clusters

- Translating advances in science into health and economic benefits cannot be delivered by one sector alone
- Success requires expertise in fundamental science, therapeutic development, clinical trials, clinical pathway redesign, NHS implementation, manufacturing & supply chain…
- This requires close partnership between academia, clinical/NHS and industry (and real estate, VCs, and more)
- PROXIMITY is important
- Life science clusters are the mechanism to bring together the partners, workforce, investment and facilities required



Edinburgh Bioquarter



London and New York are uniquely placed

- World class universities
- Internationally-renowned research institutes
- Major hospitals
- Regulatory agencies
- Financial centres
- Industries – life sciences, tech, data
- Cultural sector
- Outstanding infrastructure (esp. compared to Boston)
- Highly diverse populations with acute health needs

London’s Life Sciences

- Home to some of the greatest minds working at the forefront of science
  - 19 Nobel laureates in physiology or medicine associated with the city (almost 20% of all Nobel prize winners in physiology or medicine)

- A global centre of excellence for clinical and health research
  - Three Universities in *Times Higher* top 15 ranking for clinical and health research
  - The UK is ranked 4th in the Global Innovation Index

- World-renowned research institutes:
  - Francis Crick Institute
  - Institute of Cancer Research
  - London School of Hygiene and Tropical Medicine
  - Turing Institute
  - Royal Veterinary College
  - Institute of Child Health

London's Academic-Clinical Integration

- Outstanding specialist clinical services provided by world-renowned hospitals
- A London-wide healthcare system through the NHS, serving a population of almost 10 million
  - One of the most diverse cities in the world – a perfect place to test new products and undertake clinical studies
  - World's first single secured health data environment
  - Longitudinal cradle-to-grave datasets, making London a world-leading environment for digital health development
- 39 acute hospitals, 37 Biomedical, Clinical, and MedTech research centres and 140 specialist services employing over 230,000 people
- More specialist hospitals and services than anywhere else in Europe including:
  - Great Ormond Street Hospital (GOSH) (paediatrics) Moorfields Eye Hospital (ophthalmology)
  - The London School of Hygiene and Tropical Medicine (public health and infectious diseases)
  - The Royal Marsden Hospital and Institute of Cancer Research (oncology)
  - The National Hospital for Neurology and Neurosurgery (neurology)
  - The Royal National Orthopaedic Hospital (orthopaedics)
  - The Royal Brompton and Harefield hospitals (cardiovascular and respiratory health)
  - Genomics England – over 170,000 genomes sequenced

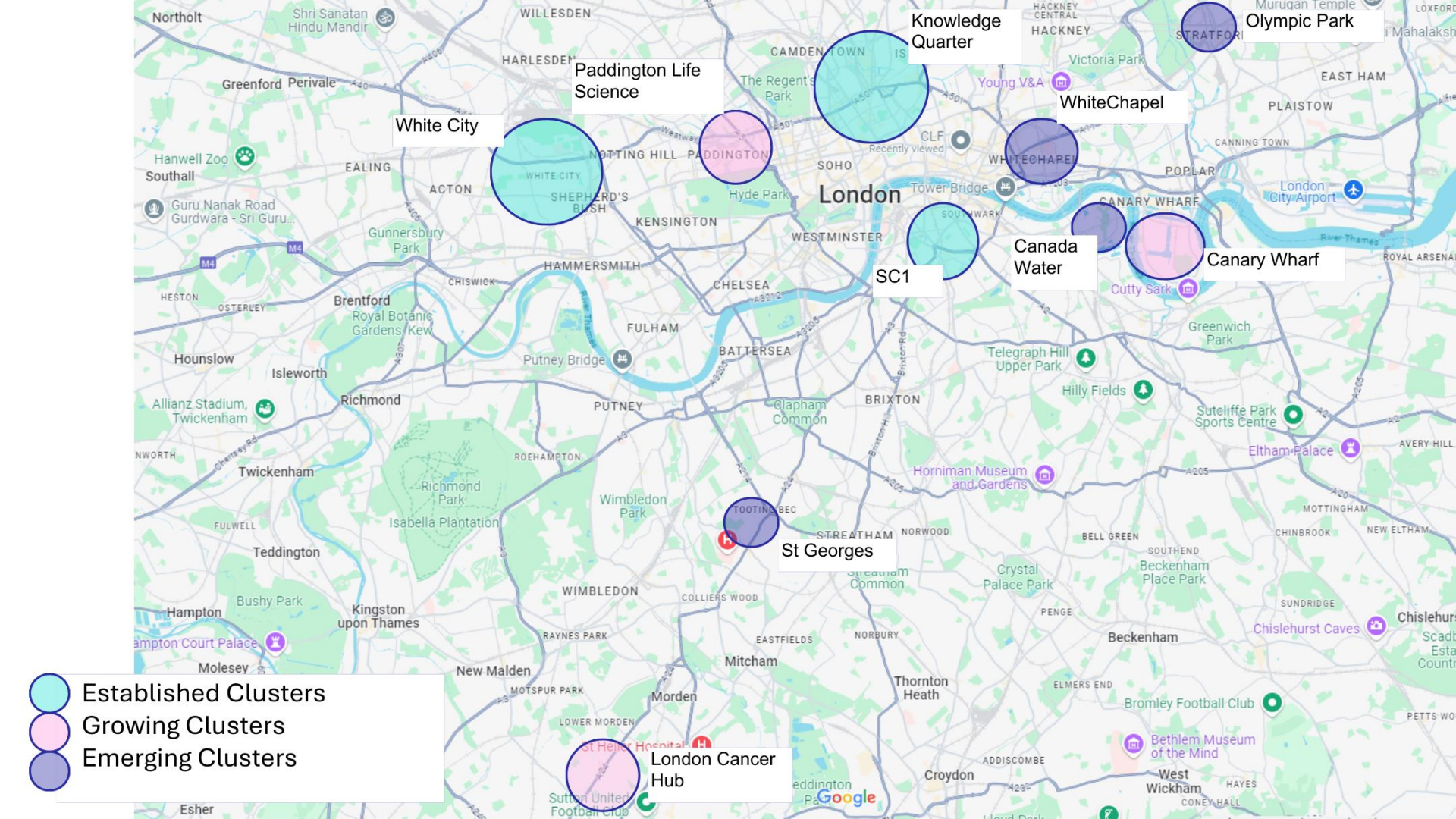
London’s Innovation Ecosystem

- More than 2,600 life science companies currently based in London
- The highest concentration of top 20 pharmaceutical company R&D locations in Europe
- Around 90 new life science spin-out and startup companies created in London each year
- One spin-out company produced for every £35.5m invested in university R&D in London (more spin-outs per £ than Boston, Los Angeles or New York)
- London’s life sciences sector turned over £11.6bn in 2021-2022
- Average annual growth of over 6% between 2016 and 2022
- Eight life-sciences companies founded in the UK since 2020 have achieved “unicorn” status – three with headquarters in London

London’s Life Sciences Clusters

- Seven thriving, independent, yet connected, urban life science clusters across the city
  - White City (Imperial College, Novartis)
  - Paddington/ Albertopolis (Imperial College, IQVIA, Takeda)
  - London Cancer Hub (Royal Marsden Hospital, Institute of Cancer Research)
  - Knowledge Quarter (Francis Crick Institute, UCL, MSD, Google)
  - SC1 (Kings College, Guy’s Hospital)
  - WhiteChapel / Canary Wharf (Queen Mary University, Barts Hospital)
  - Olympic Park (UCL, Cancer Research UK)
- All within 25 minutes of central London via the Elizabeth Line or Jubilee line
- Current “live” demand for lab space is around 1m sq ft

- Demand is out-stripping supply with available lab space currently at only 500,000 sq.ft.
- New lab space is rapidly coming online - there is around 6m sq ft of lab space planned over the next decade including:
  - 2.7m sq ft of lab space under construction
  - A further 2.6m sq ft with planning consent
- Significant projects include:
  - Knowledge quarter - 3.6m sq ft of existing or potential lab space
  - Harley Street - around 2m sq ft of medical facilities
  - White City - over 500k sq ft of existing lab space
  - WhiteChapel – almost 1m sq ft of lab space in planning
  - London Cancer Hub – Proposal to deliver almost 2m sq ft of space
  - SC1 – proposal to deliver over 2.2m sq ft of space


Knowledge Quarter
Olympic Park
Paddington Life Science
White City
WhiteChapel
London
Canada Water
SC1
Canary Wharf
St Georges
London Cancer Hub
Established Clusters
Growing Clusters
Emerging Clusters

Themes

Digital Health

- London employs 26% of the digital health sector, with 29% of UK companies in London
- London Care Record saved £44.4M between 2020-2023
- 167% growth in turnover since 2012

Cell & Gene Therapy

- 68% of clinical trials in London
- 4 of top 5 UK sites in London
- 30% of UK cell & gene therapy companies in London
- Home to world-first gene editing therapy for incurable Leukaemia

Genomics

- 270,000 genomes sequenced in London
- 7.8% annual growth in London for past 5 years
- 2nd highest area of emerging spin outs in the UK after AI
- Genomics England Early Clinical Interpretation Partnership with 3,600 researchers from 400+ institutions globally

Biomarkers & Diagnostics

- £207.8M targeted investment funding to provide 8,700 additional diagnostics tests to Londoners
- 18% of UK diagnostics hubs in London
- NIHR In Vitro Diagnostics Co-Operative to support diagnostics growth

CONNECTING CLUSTERS

Engaging the network of life science clusters across the UK, we worked together to represent the UK globally, and connected companies with research capabilities and investment. Our joint report with NHSA and HIRANI demonstrated the potential of clusters.

Read the report

- **MedCity** [London]
- **Northern Health Science Alliance (NHSA)** [North of England]
- **GW4 Alliance** [University of Bath, University of Bristol, Cardiff University, University of Exeter]
- **Health Innovation Research Alliance (HIRANI)** [Northern Ireland]
- **Life Sciences Hub Wales** [Cardiff]
- **Midlands Innovation** [Birmingham, Leicester, Loughborough, Nottingham, Keele, Cranford, Warwick]
- **NHS Research Scotland** [Clydebank]

"These hubs of research, development and innovation play an essential role in delivering the UK's world-leading research and driving its translation into benefits for society."

– Professor Sir Robert Lechler PMedSci, Emeritus Senior Vice President (Health) at King's College London

“The Manifesto”

- A multi-disciplinary, multi-agency onslaught on population health and inequality
- Radical re-engineering of whole pathways
- Doubling down on the delivery of curative therapies
- Developing life sciences clusters that capitalize on the complementary skills of all three sectors, academia, healthcare and industry

“The Manifesto”

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A partnership between New York (BuildsBio) and London (MedCity) has the potential to catalyse productive collaborations and to leverage inward investment

2025: A Year of New Possibilities

BUILDS BIO+

- **Global Network, Local Impact**
- **Insider Market Intelligence**
- **Drive Innovation & Industry Leadership**
- **Partnerships & Collaborations**




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THANK YOU

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