COLUMBIA | Lab-to-Market Accelerator Network

LAB TO MARKET ACCELERATOR

ANNUAL REPORT

2022 -2023

ABOUT

The Columbia Lab-to-Market (L2M) Accelerator Network serves as a framework to successfully develop, launch, and execute initiatives that help commercialize academic research. Since 2008, Columbia University has founded or co-founded multiple accelerator programs encompassing medical (therapeutics, diagnostics, devices, etc.), clean energy, advanced materials, artificial intelligence, cybersecurity, pathogen surveillance, and digital media technologies, providing key resources to foster the development of accelerator teams who have gone on to raise more than **$285M in additional funding.**

L2M is a collective model for providing core infrastructure and resources to programs supporting early stage university teams as they move technologies forward. By building on industry specific core competencies through their participation in the network, participating programs are able to prioritize focus on the provision of domain expertise to scientific teams.

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L2M BY THE NUMBERS 2011 - TODAY

$42M+ In Accelerator Funding

$280M In Follow-On Funding

1,519 Applications

576 Accelerator Teams

382 Teams at Pitch Day

302 Awards

THE YEAR IN REVIEW

Dear Friends and Colleagues of Columbia's Lab-to-Market (L2M) Accelerator Network,

As we conclude the 2022-2023 cycle of L2M programming, we are excited to share some success stories from the past year and a few new developments.

This year, we collaborated with the **Columbia Center on Global Energy Policy (CGEP)** to help launch the inaugural cycle of the **Carbontech Development Initiative (CDI)**, a large-scale market transformation grant-seeding and commercialization initiative for carbontech science and technology. The program has launched an initial application solicitation and is mid-way through finalizing teams for the inaugural cohort.

For the second year running, we provided organizational support to the $40 million **NY State Biodefense Commercialization Fund**. Empire State Development (ESD) awarded $8,899,998 across seven startup and academic innovators, for a total commitment of **$23.7M for the program to date**.

The Columbia Life Science Accelerators (LSA) (**Columbia Biomedical Engineering Technology Accelerator, Translational Therapeutics Accelerator, and Accelerating Cancer Therapeutics**) administered another successful year of the 13-week virtual Lab-to-Market bootcamp, during which faculty-led teams worked with BME and CBS students on product-market fit of their research. The LSA accelerators **awarded $365K in pilot funding** to help research teams advance their innovations from the lab towards commercialization.

We are currently developing an accelerator program for the newly awarded **NSF Engineering Research Center for Smart Streetscapes (CS3)**. Led by Columbia in partnership with a consortium of other universities, the program is the only federally funded research center of its scale focused on smart city technologies.

In addition to programmatic mentorship, education, and funding opportunities, we continued to partner with industry experts to offer several **Business Operations Workshops** to our alumni, providing guidance on leadership training and executive coaching, SBIR/STTR funding, and other aspects of standing up new business operations. We plan to continue our supplemental training programs in the Fall to meet the needs of our growing alumni network.

Looking ahead, we have several new deeptech programs in the works and will share additional details about them in the coming weeks. Below are additional details about L2M's programs and successes from the 2022-2023 season.

Please **reach out** and/or complete this **intake form** if you or your organization would like to get involved and explore collaboration opportunities with Columbia L2M.

As always, you can **sign up for our newsletter** to stay informed of the latest L2M news.

Best,
Dmytro Pokhylko, Director
Jack Steele, Senior Program Associate

NEW INITIATIVES

Carbontech Development Initiative (CDI)

The Carbontech Development Initiative (CDI), aims to position New York State as a global carbontech hub by supporting research and development, facilitating technology transfer, and commercializing innovation. With programmatic support from L2M and funding support from the New York State Energy Research and Development Authority (NYSERDA), CDI facilitates collaboration between academia, private businesses, and the public sector to create, validate, and launch cutting-edge solutions that capture, transport, and convert different forms of waste carbon into a diverse array of valued products and services in a climate-beneficial way. CDI is interested in CO_2 Capture Technology, CO_2-to-Building Materials, and CO_2-to-Chemicals, Fuels, & Materials.

*To learn more about the program, visit the **CDI homepage**.*

NSF Engineering Research Center for Smart Streetscapes (CS3)

L2M will develop and execute the accelerator program for the newly awarded NSF Engineering Research Center for Smart Streetscapes (CS3). Led by Columbia in partnership with **Florida Atlantic University, Rutgers University, University of Central Florida, and Lehman College,** CS3 is the only federally funded research center of this scale focusing on smart city technologies and will focus on forging livable, safe, and inclusive communities through real-time, hyper-local streetscape applications built on advancements in edge-cloud technology, wireless-optical engineering, visual analytics, computer security, and social science.

L2M's Dmytro Pokhylko serves as the Director of Innovation Ecosystems for CS3.

*To learn more about the program, visit the **CS3 homepage.***

EXISTING PROGRAMS

Columbia Life Sciences Accelerators

28 faculty teams participated in the Columbia Life Science Accelerators (Columbia Biomedical Engineering Technology Accelerator, Translational Therapeutics Accelerator, and Accelerating Cancer Therapeutics) for a **13-week** virtual business validation and life science commercialization **bootcamp**. The syllabus covered a wide-range of life science commercialization topics and prepared teams to identify potential hurdles and opportunities that may arise as they progress through development pathways. Finalist teams were awarded a shared total of **$365K** in pilot funding to advance their research from the lab into commercial markets.

8 AWARDS

$365K in funding

7 AWARDS

$8.9M in funding

Biodefense Commercialization Fund

In September 2022, Empire State Development (ESD), led by Gov. Kathy Hochul, released a call for applications for second round of New York's $40 Million Biodefense Commercialization Fund to encourage and accelerate the development and commercialization of solutions for serious infectious disease threats, including COVID-19 and its variants. In response to the call for applications, the program received **116 short-proposal applications,** from which **38 teams** were invited to submit long-proposals for potential project funding.

With support from Columbia Technology Ventures and Mt. Sinai Innovation Partners, ESD awarded **$8.9 Million** (full press release here) to **seven academic institutions and startups** developing diagnostics, vaccines, therapeutics, and pathogen surveillance tools that address pathogenic threats.
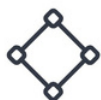
SELECT ALUMNI ACCOLADES

To peruse a selection of L2M alumni teams please visit our
<u>Program Alumni page</u> and/or reach out directly to <u>l2m@ctv.columbia.edu</u>

- 2015-2016 NYC Media Lab awardee team <u>VIDROVR</u> raised an additional $2.5M to further enhance its multimodal computer vision and video robotic process automation technology. The funding round was led by Prefix Capital and included participation from Outlander Labs and D20 Capital. Read full press release <u>here</u>.

- 2017-2018 PowerBridgeNY participant team <u>XL Batteries</u> raised a $10M Seed round led by SIP Global Partners including investment from Xerox Ventures and Catalus Capital. The team, led by CEO, Co-Founder, and former Columbia Postdoc Dr. Thomas Sisto, develops low-cost, long-duration, grid-scale flow batteries for the alternative energy grid. Read full press release <u>here</u>.

- 2019-2020 Columbia Biomedical Engineering Technology (BiomedX) Accelerator awardee team <u>Sharper Sense</u> received a $50,000 grant from the National Science Foudnation Innovation Corps. Co-founders Drs. Charles Rodenkirch and Qi Wang produce neuromodulation technology to enhance vision, hearing, and touch. Read more <u>here</u>.

- 2019-2020 Translational Therapeutics (TRx) Accelerator awardee team <u>Stablix Therapeutics</u> established a strategic collaboration with Vertex Pharmaceuticals to develop targeted protein stabilization therapies. The collaboration leverages Stablix's proprietary targeted protein stabilization platform to discover novel therapeutic candidates. Read more <u>here</u>.

- 2020-2021 Columbia | IBM Launch Accelerator team <u>Fathom Privacy</u> was acquired by Delphia, a membership-based investment collective. Fathom is a data rights company that allows individuals to take ownership of their personal application data. Click <u>here</u> to view their 2021 pitch presentation and read the full acquisition press release <u>here</u>.

STUDENT VENTURE ASSOCIATES

The L2M Student Venture Associate (SVA) Program offers a unique opportunity for Columbia University and Barnard College students to gain in-depth experience with university technology commercialization and acceleration efforts.

SVAs work closely with the L2M team, accelerator program managers, and individual teams that are part of accelerator cohorts. They provide operational, marketing, and strategic support to L2M and its teams.

We were so fortunate and thankful to have Columbia Art History PhD candidate Virginia Girard and Computer Science and History-focused rising senior Veer Chauhan join our team for the 2022-2023 cycle.

Virginia supported the administration of the Life Science Accelerator Bootcamp and ESD Biodefense Commercialization Fund, while Veer worked on several internal efforts, including website updates, program marketing, and **DICE program** recruitment.

This summer Virginia will begin a year-long Metropolitan Museum of Art fellowship in Europe, while Veer has accepted a Management Consulting Summer Internship at BNP Paribas in NYC. We wish them both the best as they continue their academic and professional journeys!

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**To lean more about the SVA program and get involved,
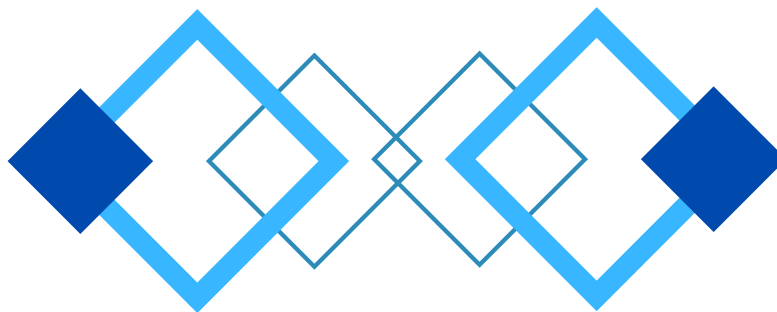visit our program page.**

GET INVOLVED

Newsletter

To stay up to date on program announcements, updates from cohort teams, and award funding from across the Lab-to-Market landscape, please subscribe to our newsletter.

[SUBSCRIBE HERE]

Sponsor, Partner, Mentor

Each Lab-to-Market program is incredibly fortunate to engage excellent sponsors, partners, and mentors from across the early-stage entrepreneurial ecosystem. If you are interested in getting involved please fill out the 5-minute intake form below.

[INTAKE FORM]