











NM Bioscience Authority Update & Request

Presenting on behalf of the New Mexico Bioscience Authority:

Paul Laur

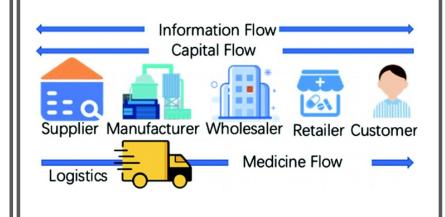
Board Member, NM Bioscience Authority COO, Mercury Bio

October 11, 2023 ERDPC Presentation

Stephanie Tofighi, MSPP

Executive Director, NM Bioscience Authority





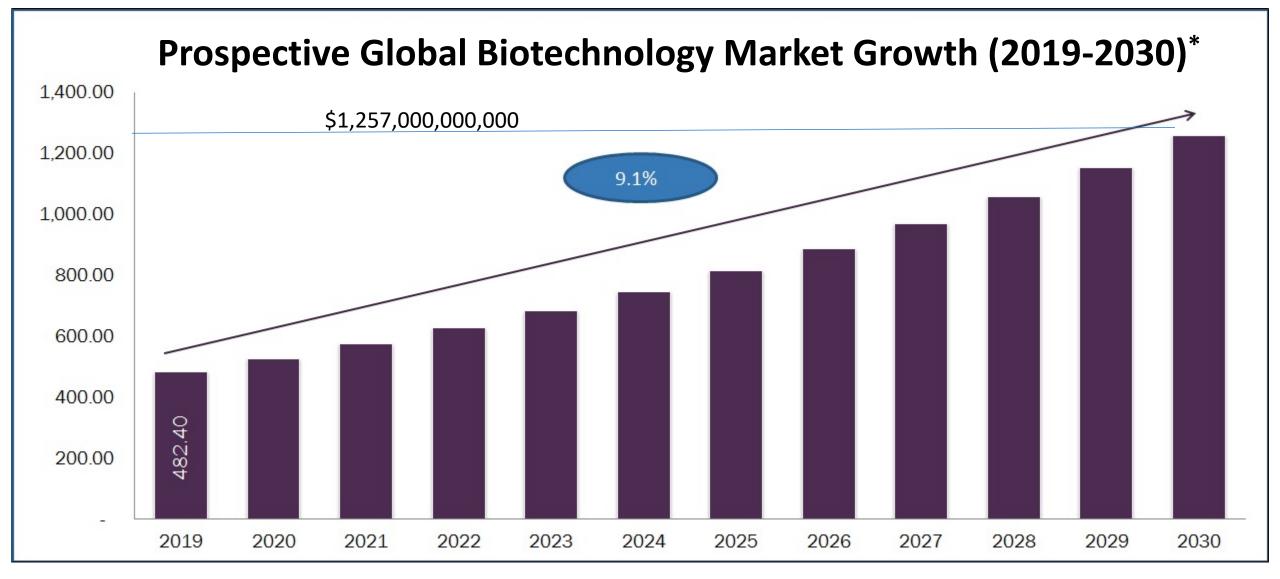


Green & Security of U.S. Supply Chain

Growing & High Paying Jobs

Biosciences...

A State and Federal Priority



*The **Global Biotechnology Market** size is predicted to reach \$1.257 trillion by 2030 with a compound annual growth rate (CAGR) of 9.1% from 2020-2030.



New Mexico Economic Development Clusters

Aerospace & Defense









Cyber Security

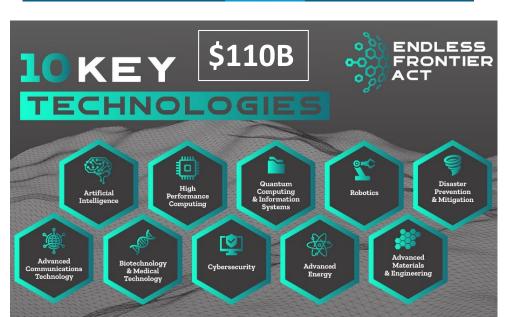
Global Trade

Intelligent Manufacturing

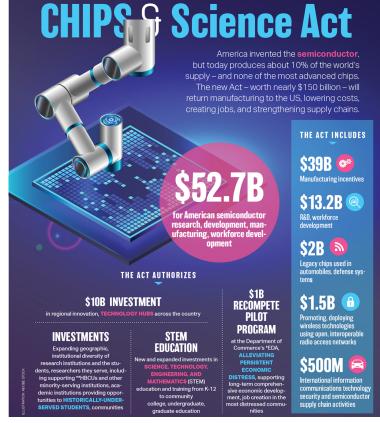


Federal Initiatives





Presidential Order on Advancing Biotech and Biomanufacturing Innovation



U.S. DEPARTMENT of STATE

Critical and Emerging Technologies (CET) list:

- Advanced Computing
- Advanced Engineering Materials
- Advanced Gas Turbine Engine Technologies
- Advanced Manufacturing
- Advanced and Networked Sensing and Signature Management
- Artificial Intelligence
- Autonomous Systems and Robotics

Biotechnologies

- Communication and Networking Technologies
- Human-Machine Interfaces
- Networked Sensors and Sensing
- Quantum Information Technologies
- Semiconductors and Microelectronics
- Space Technologies and Systems

5 Newly added CET List:

- Advanced Nuclear Energy Technologies
- Directed Energy
- Financial Technologies
- Hypersonic Capabilities
- Renewable Energy Generation and Storage

What is Bioscience?

Five Industries Make Up Bioscience Sector:

- Agricultural feedstock and chemicals
- 2. Bioscience-related distribution
- 3. Drugs and pharmaceuticals
- 4. Medical devices and equipment
- 5. Research, bioinformatics, testing and medical laboratories









Bioscience Innovation

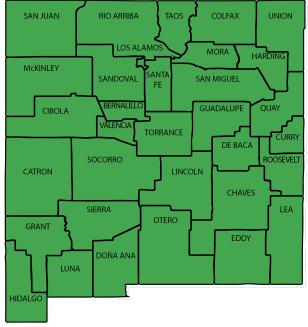


is a catalyst for improving our state's health, productivity, economic diversity, and economic development.

New Mexico is Bioscience Ready!

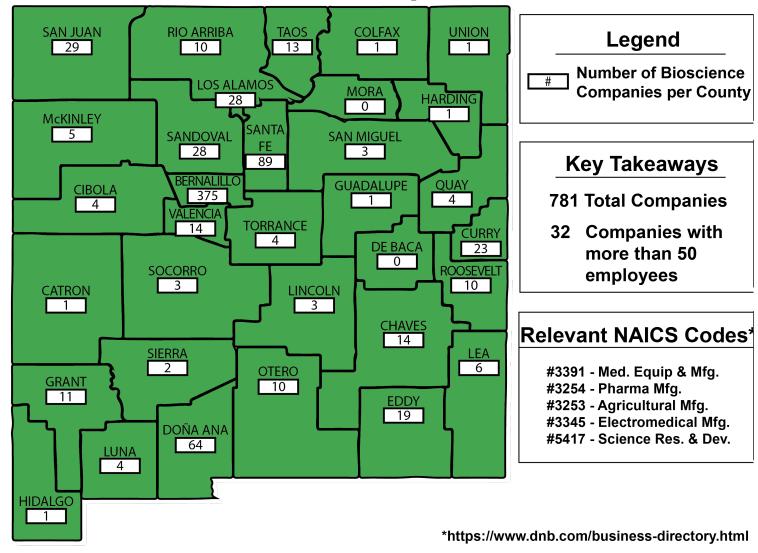
- We have the foundational elements!
 - University & National Lab research and patents
 - Workforce Generation
 - Existing companies & entrepreneurs
 - Some Venture Capital Financing available
- Creates high paying, green jobs
- Supports the creation of four times the number of direct jobs through indirect (supply chain) and induced (employee spending) impacts





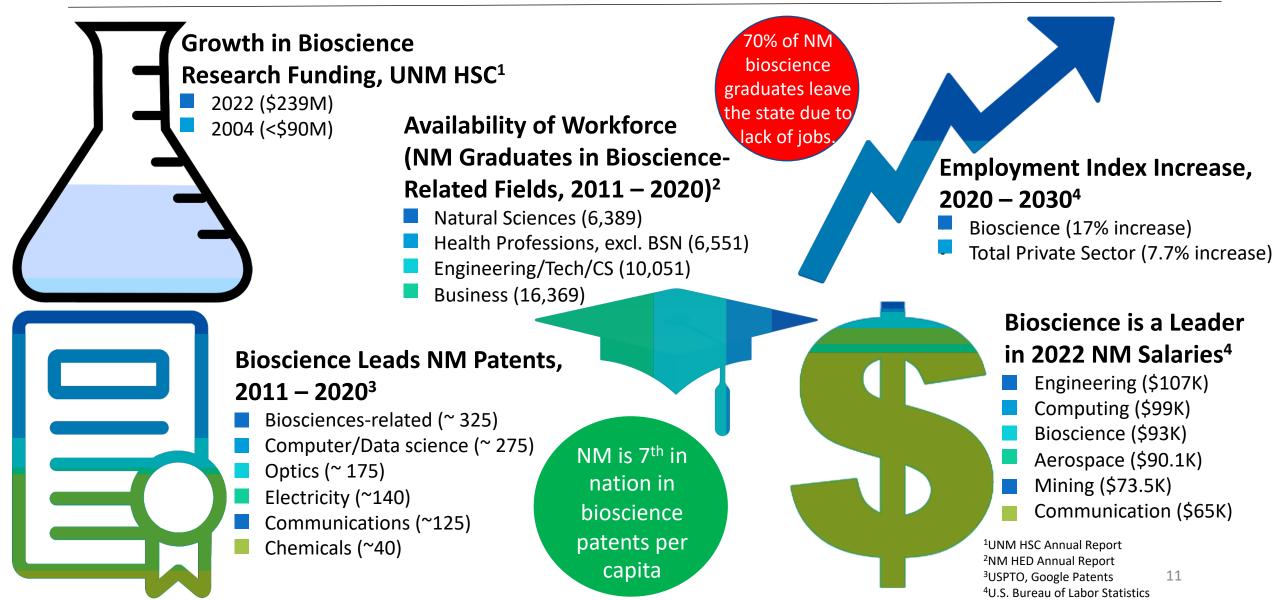


Number of Bioscience Companies in New Mexico*





Why Bioscience is Good Industry to Grow in NM



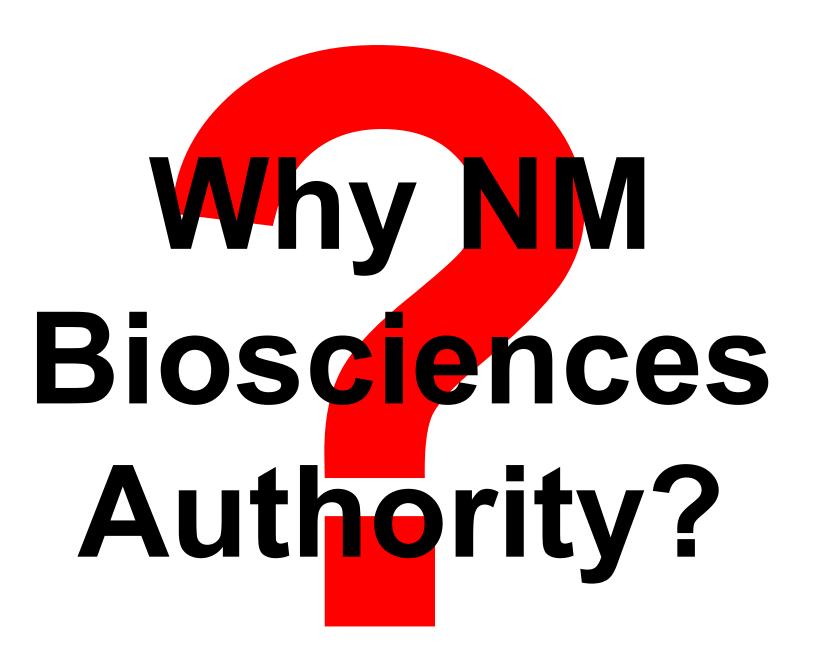
Commercialization of Bioscience

Since 2004, over 75 new bioscience start-up companies have spun out of the University of New Mexico.

Companies focused on drug development, cancer therapies, molecular imaging, medical diagnostics, software development, genetics, and more.





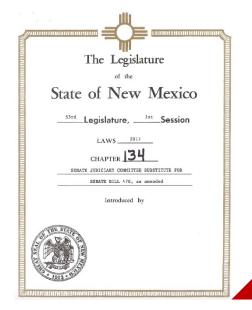


Research Results in Innovation

GrowBio

A PUBLIC-PRIVATE COLLABORATION

GrowBio is a public-private collaboration formed to promote a thriving biotechnology industry in New Mexico using economic incentives that nurture startups and encourage the transfer of new inventions and discoveries into commercial applications.



CHAPTER 13

AN ACT

RELATING TO ECONOMIC DEVELOPMENT; ENACTING THE BIOSCIENCE DEVELOPMENT ACT; CREATING THE BIOSCIENCE DEVELOPMENT FUNI

BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF NEW MEXICO
SECTION 1. SHORT TITLE.--This act may be cited as the

SECTION 2. DEFINITIONS, -- As used in the Bioscience

A. "authority" means the New Mexico bioscience

3. "bioscience" means the scientific areas represented by life sciences and biotechnology that are included in the five industries recognized by the Unite

- (1) drugs and pharmaceuticals
- (2) medical devices and equipment
- (3) recessor teeting and modical
- - (4) bioscience-related distribution; and
 - (5) agriculture and chemicals related to

C. "board of directors" means the board

Hrectors of the authority;

D. "financial assistance" means tax incentives, SJ

SJC/SB 478 Page 1









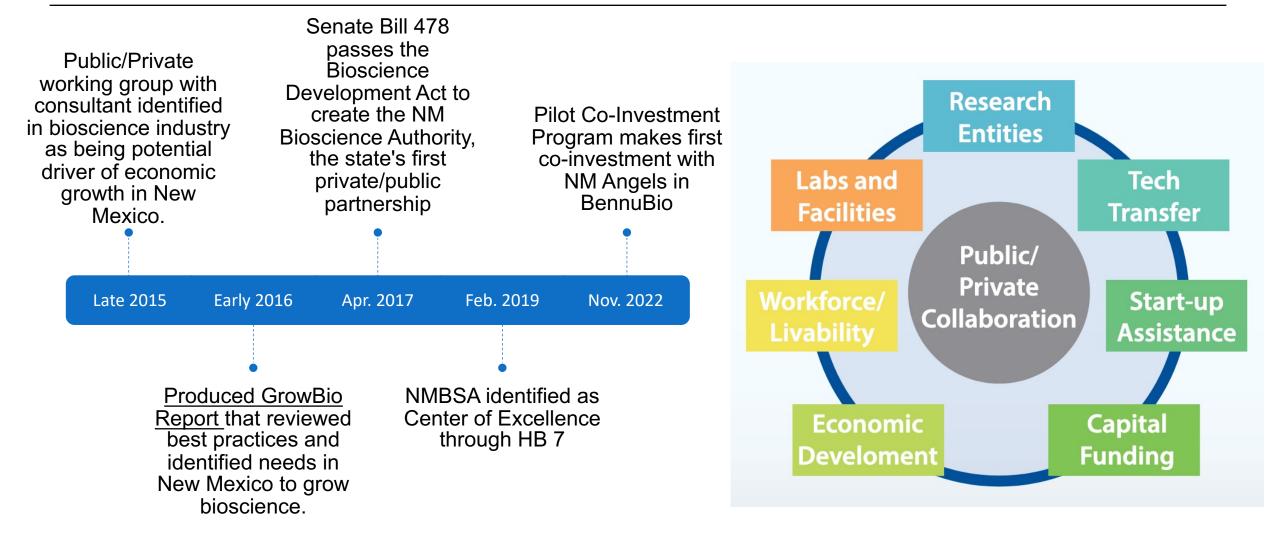
GROWING THE FUTURE

Developing New Mexico's Bioscience Industry

GrowBio

A PUBLIC-PRIVATE COLLABORATION

History of the NM Bioscience Authority (NMBSA)*





NMBSA Mission & Vision

Mission

To increase awareness and support for New Mexico's bioscience sector by attracting capital investors, influencing policy and assisting in infrastructure and business development. The NMBSA connects all necessary elements of: Research & Development, Technology Transfer, Investment and Funding and Workforce.

Vision

To grow a robust bioscience industry in New Mexico.





Activities by Statute of NM Bioscience Authority

- Advise state leadership on initiatives that may stimulate investment and provide jobs
- Create programs to expand bioscience economic opportunities
- Connect New Mexico and representatives of bioscience industries
- Promote legislation to grow the bioscience industry
- Produce promotional literature related to explanation and fulfillment of the NMBSA's goals
- Identify science and technology trends and be a clearinghouse for bioscience enterprise issues
- Co-Investment & Funding
- Endowment for long-term investment
- Actively recruit bioscience businesses to New Mexico

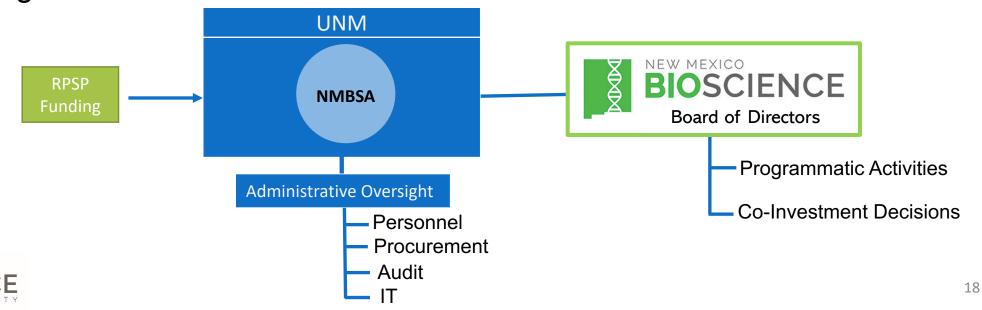






Organization of NM Bioscience Authority

- 13-person board (appointed by Governor, Speaker of the House, Senate Pro-Tempore, and University Presidents)
- Per the 2017 SB 478 legislation that created the NM Bioscience Authority, "The authority is administratively attached to and shall be considered an affiliated organization of the UNM Health Science Center" to assure conformity with state procurement rules, statutes, and guidelines and minimize costs.





Dale Dekker, AIA, Chair Reg. Architect & Founder of Dekker/Perich/Sabatini Design



Tanner Schaub, PhD, Vice Chair, Director, Research Cores Program, OVPR, NMSU



David Perkins, MD, PhD, President, Professor of Medicine, Internal Med Dept, UNM HSC



Christos Christodoulou, PhD, Vice President, Director of COSMIAC, ECE Prof., UNM



Francisco Pallares, DED, Secretary, Director of Business Develop., Spaceport America



Greg Byrnes, Board Member, ED at NM Biotechnology & Biomedical Association (NMBio)



Dana Catron, Board Member, Deputy Director, Arrowhead Center, NM State University



Tom Kieft, PhD, Board Member, Microbiologist NM Tech Biology Department



Paul Laur, Board Member, Chief Operating Officer (COO), Mercury Bio



Nora Sackett, Board Member, Director of Office of Science & Technology, NM EDD



Prisca Tiasse, PhD, Board Member, Microbiologist, CEO of The Community Lab





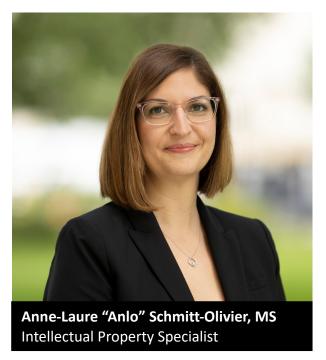
NM Bioscience Authority Board of Directors

- 2 members appointed by UNM President
- 2 member appointed by NMSU President
- 1 member appointed by NMT President
- Secretary of EDD or Designee
- Executive Director of SpacePort Authority or Designee
- 4 members appointed by Speaker of the House and Senate Pro-Tempore
- 2 members appointed by Governor

NM Bioscience Authority Staff









What are the Current Initiatives ofthe NMBSA?

Community Readiness Program

The Path to Make New Mexico Bioscience Ready

What Community Readiness means for New Mexico?

- Attract Bioscience companies and startups
- Foster Bioscience industry growth
- Help municipalities create innovation zones
- Facilitate Bioscience site selection
- Certified sites are currently in Albuquerque, Rio Rancho,
 Santa Fe, and Las Cruces

Community Readiness Rating:





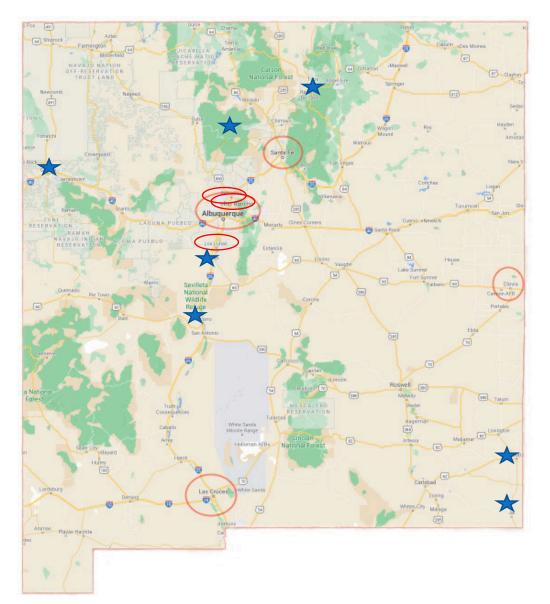






Community Readiness Program

Mapping Our Progress



Sites Currently Being Certified (circled)

- Los Lunas, Santa Ana Pueblo, and Clovis
 - Currently working on certification process
- Albuquerque 8 certified sites
- Rio Rancho 1 certified site
- Santa Fe 2 certified sites
- Arrowhead Center 5 certified sites
- Las Cruces 1 certified site

Next Steps (starred)

- Developing relationships to start the process in these communities
 - Los Alamos, Socorro, Taos, Gallup, Jal, Hobbs, Belen, and Roswell

Centralization of State Resources for Bioscience Businesses

- NM BSA website serves as a conduit to investors, entrepreneurs, and inventors to gain awareness of and direction to state resources and economic development incentives.
- Individual support pages direct these three types of users to resources across the state specific to their needs.









NM Bioscience Authority's Bioscience Business Accelerator

 The BSA's bioscience business accelerator program helps connect researchers and entrepreneurs to support the development of strong bioscience businesses throughout the state.



 Includes grant training, mentoring, workshops, and network facilitation to support the commercialization of bioscience innovation.



 Most recent addition includes UNM hire, Anne-Laure "Anlo" Schmitt-Olivier, an Intellectual Property Specialist who will be working with the NMBSA 30% of her FTE to support the development of bioscience companies.













Development of Rural NM Biotech Ecosystem

NMBSA was awarded Stage 1 and Stage 2 prizes to create an ecosystem that will direct resources to rural communities to support the growth of bioscience companies in the regions and market rural communities to national audience to attract bioscience companies to the regions

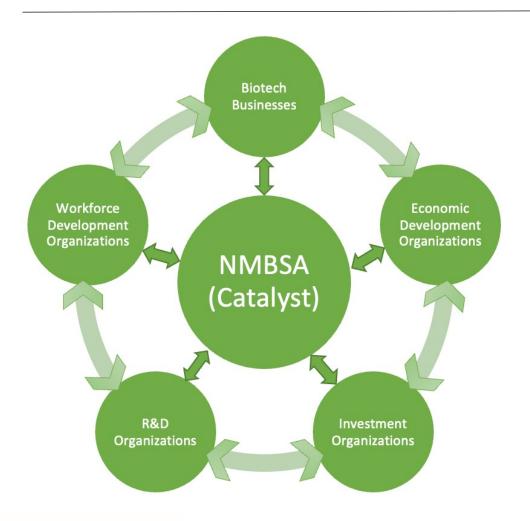
Contracting with EcoMap Technologies to build comprehensive ecomap of state's resources to improve transparency, connectivity, and applicability for all users.

Kickoff Meeting of Ecosystem will be November 3rd from 10am-1pm at NM Tech with subsequent meetings happening quarterly around the state.





Organization of Rural NM Biotech Ecosystem



- Rural NM includes every region outside Albuquerque/Rio Rancho, Santa Fe, and Las Cruces.
- Original members are below but all entities are invited to join at no cost.
- Workshops, networking, access to the ecomap, and mentoring will be available through the prize.





\$650K Bioscience Business Accelerator Program Request

- Hire Grant Developer to train bioscience inventors and small business owners to submit funding requests as well as support the BSA's efforts to submit large funding requests to enhance the industry.
- Hire **Network Facilitator** to catalyze networking between bioscience entrepreneurs and inventors to help build a bioscience coalition throughout the state.
- Provide internships and mentoring stipends for students and faculty at all three research universities to work in accelerator program to learn small business practices and support companies and entrepreneurship.
- Costs will support annual salary and fringe of personnel, relevant supplies to manage the program, and marketing costs to promote the program, the state, and New Mexico's bioscience industry.





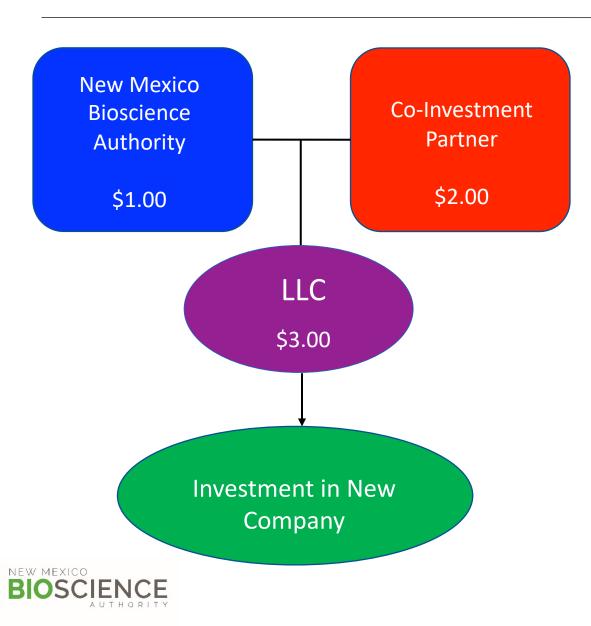


Growing a Sustainable Biotech Industry In New Mexico through Co-Investment

"Biosciences is a nascent and growing industry that has strong potential to become a major high-technology cluster in New Mexico. As such, it is one of 9 priority industries to diversify New Mexico's economy."

2021 NM Economic Development Department Strategic Plan

NMBSA Co-Investment Program Organization



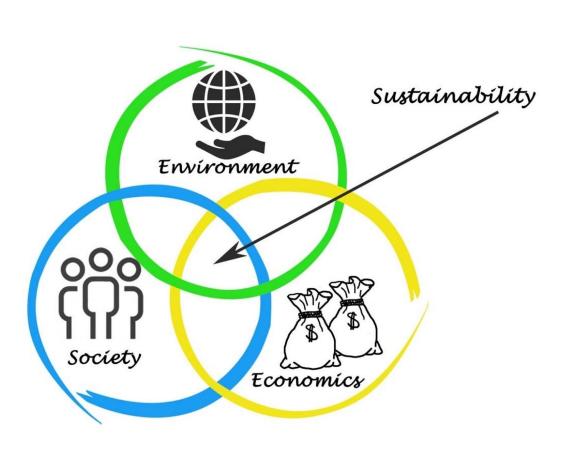
Main Objective

- Create and/or Grow NM Companies & Jobs
- Encourage Investing in NM Bioscience
- Increase capital for investments

Investment Partner Criteria

- Qualifies to be lead investor
- Will provide a 2:1 match of funds
- Is actively sourcing, vetting and investing in companies
- Has investment experience in bio-related industry
- Has existing capital for co-investment and is currently investing in bioscience companies

Co-Investment Program Has Broad Impact and is Self Sustaining



- This is a **new economic development approach** that is different from other agencies in the state.
- All size municipalities can benefit.
- Includes Main street businesses, higher tech companies making new drugs or devices, and light manufacturing or distribution shops
- It is **self-sustaining** because capital to **reinvest** will be gained when investments are sold or exited **which will grow a substantial return on investment**.



\$50M Co-Investment Program Request



Will be matched 2:1 by private investors for total \$150M in investments over 5 years



Co-Investment of state and private dollars through LLC to start new companies or recruit companies



Will Invest in all stages of business growth (pre-seed, Series A, B,C; Main Street and high tech)



LLC will invest \$100K to \$1.5M per company



If successful, will return funds so program will be self-renewing and sustainable.



Will build economy throughout state.







How did we get here? Expert Analysis and Recommendations

- In 2019, the NMBSA had an analysis done by Econsult Solutions Inc. (ESI) that recommended, based on their evaluation of other states pursuing the advancement of biosciences (AZ, MA, NC), that the best way to grow the bioscience industry in NM was to create a \$25M-\$50M bioscience co-investment fund.
- In response to the ESI report, the STTC legislative committee and the full BOD requested a comprehensive legal opinion by the Modrall Sperling Law Firm to assure 1) that co-investment in NM based bioscience companies by the NMBSA and an investment partner conforms with state law and regulations, and 2) the approach of forming an LLC is legal and appropriate. In 2020, the NMBSA received those opinions that confirmed both.



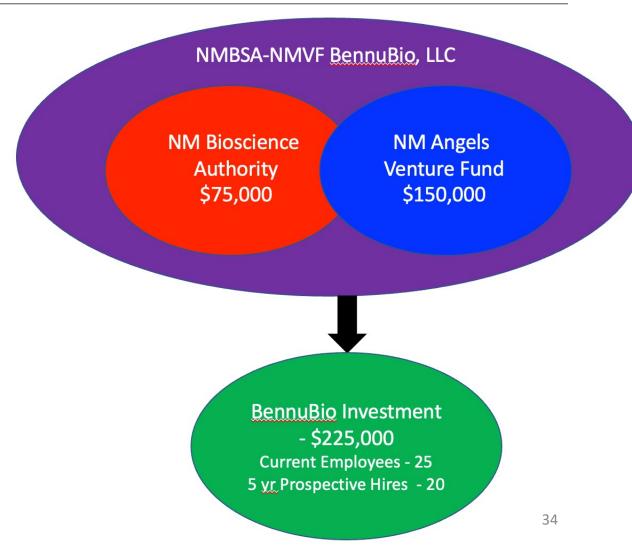




How did we get here?

Organization of Co-Investment Program

- After receiving the legal affirmation, the BOD voted unanimously to move forward with a pilot version of the coinvestment program using \$75,000 in reserved funding to demonstrate the capacity of the fully funded program.
- Following RFP process through UNM Procurement Office in summer 2021, BOD approved partnerships with NM Angels and Anzu Partners.
- BennuBio investment was made with NM Angels' Vintage Fund in December 2022.





Co-Investment Fund Organization

Roles & Responsibilities of Investment Partner

- Seasoned investor with at least 5 years experience investing in New Mexico based companies
- Not related to anyone on the NMBSA Board of Directors
- Independently vets
 prospective bioscience
 companies to invest in and
 then presents options to
 NMBSA BOD to agree on
 decision as part of the 50/50
 governance of the LLC
- Contributes 2-1 match of NMBSA funding to bioscience companies

Roles & Responsibilities of NM BSA

- Selects co-investment partner using evaluation criteria approved by UNM Procurement Office following State procurement guidelines
- Enters into a limited partnership or LLC with seasoned investor with equal governance over investment into company to ensure effective oversight of state funding
- Provides \$1 for every \$2 investment partner invests in agreed upon company

Good for Business = Good for New Mexico

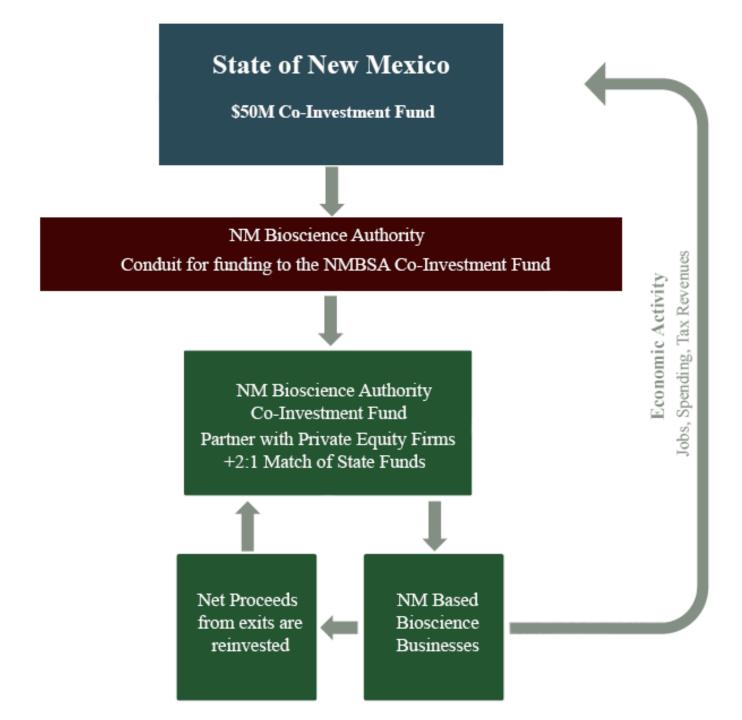
Return on Investment (ROI) for New Mexicans

- For each bioscience job, four more jobs are spun out because of supply chain and impacts
- For every dollar put in by state of NM funds, there will be a \$2 match by our co-investment partner
- Selection process will be transparent and qualifications-based following state procurement rules
- Companies supported must be based in New Mexico
- Will support all municipalities and counties in NM

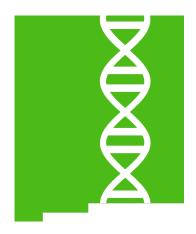
Funding Source for Co-Investment Fund

- General Fund funding through the State budget
- Strategic Investment in a growing industry
- Diversify the economy
- Attract more bioscience jobs to NM
- Create a sustainable source of funding
 - Accumulate additional funds through investment company exits and growth

Proposed Co-Investment Funding Model for NM Bioscience Authority







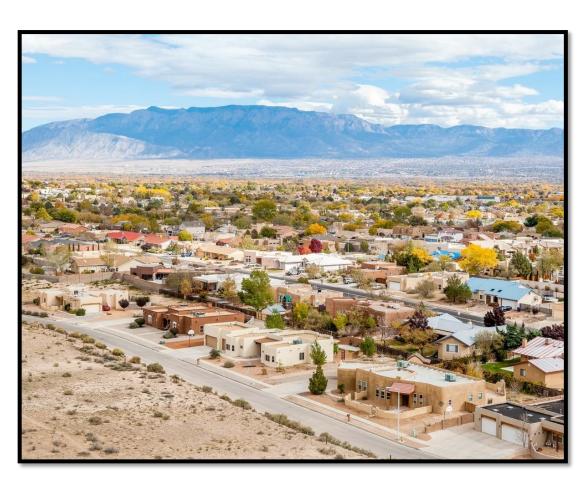
Summary of Request

- \$50 Million for Co-Investment Program
- \$650,000 for Bioscience Business Accelerator Program





Next Steps of the NMBSA



- Oversee development, launch, and training for Bioscience Ecomap in line with SBA GAFC Prize with EcoMap Technologies.
- 2. Keep expanding Community Readiness Certification Program to identify zones throughout NM that are suitable to host bioscience businesses
- 3. Continue to develop **Co-Investment LLCs** with selected firms and invest in businesses that meet NMBSA evaluation criteria
- 4. Hire NMBSA Bioscience Business Accelerator Personnel to facilitate grant training throughout the state and networking operations between university/National lab researchers and small businesses
- 5. Continue to enhance **NMBSA website** making it more user friendly for inventors, entrepreneurs, and investors
- 6. Enhance communication newsletter & social media





Questions?

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https://www.nmbioscience.org/