

TOBACCO SETTLEMENT REVENUE OVERSIGHT COMMITTEE

Co-Chaired by:

Senator Cisco McSorley

Representative Elizabeth “Liz” Thompson



Richard S. Larson, MD, PhD
Executive Vice Chancellor
Vice Chancellor for Research



UNM Health Sciences Center
plays a **critical role in delivering**
healthcare services, training of
health professionals, and
contributing
to New Mexico's **economy.**

Employs over **9,079** individuals

UNM HSC: Critical Needs Programs for New Mexico



Patient Care

Delivery of **comprehensive** and **unique** patient care

Education

Growing the **next generation** of Health Care Professionals Workforce

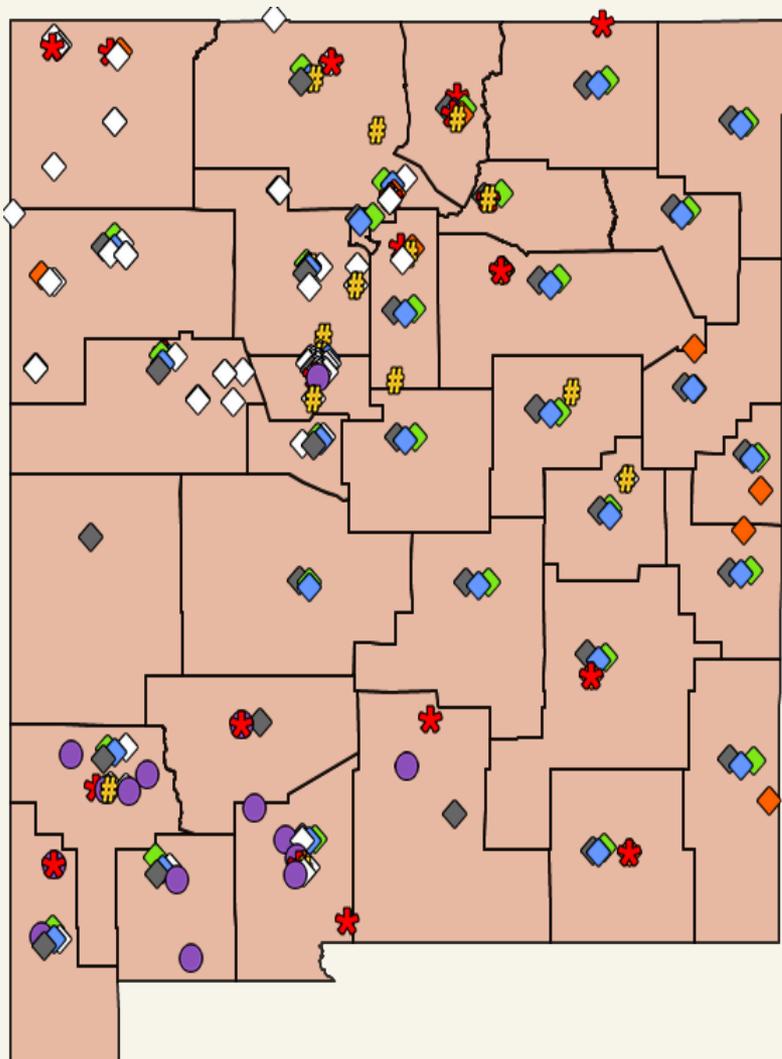


Research

Creating new **knowledge** to increase the **quality of life** for New Mexicans



Research in New Mexico Counties



Health Extension Rural Offices (HEROs)

● Practice-Based Research Networks

* Project ECHO

Investigator-Led Community-Based Programs

◇ Programs with <10 locations

Programs with >10 locations:

◆ A Prospective Birth Cohort Study Involving Uranium Exposure in the Navajo Nation

◆ Project for New Mexico Children and Youth Who are Deaf-Blind

◆ IHS Center for Telehealth Excellent Project

◆ Children's Medical Services Outreach Clinics Project

◆ New Mexico Youth Risk & Resiliency Survey

Tobacco Settlement Statute

- Supports **clinical care, education, and research** into tobacco related illnesses
- Support of **biomedical research** with tobacco settlement funds
- Funded **other needed** health-related programs



Cigarette Tax vs. Tobacco Settlement

- Tobacco Settlement supports **tobacco-related research and clinical care** at the entire UNM HSC
- Cigarette Tax (0.83%) supports **clinical care, education, and research** at the UNM Cancer Center



Tobacco Related Illnesses

Cancer

- Lung Cancer
- Esophagus Cancer
- Laryngeal Cancer
- Kidney Cancer
- Cervical Cancer
- Colorectal Cancer
- Leukemia/Lymphoma

Brain & Behavioral Illnesses

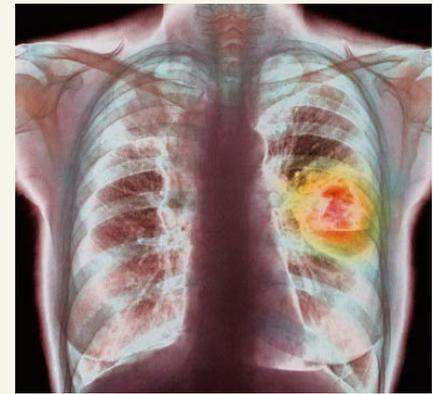
- Addiction
- Fertility in Women
- Impotence in Men
- SIDS
- Toxic Exposures

Infectious Disease and Immunity

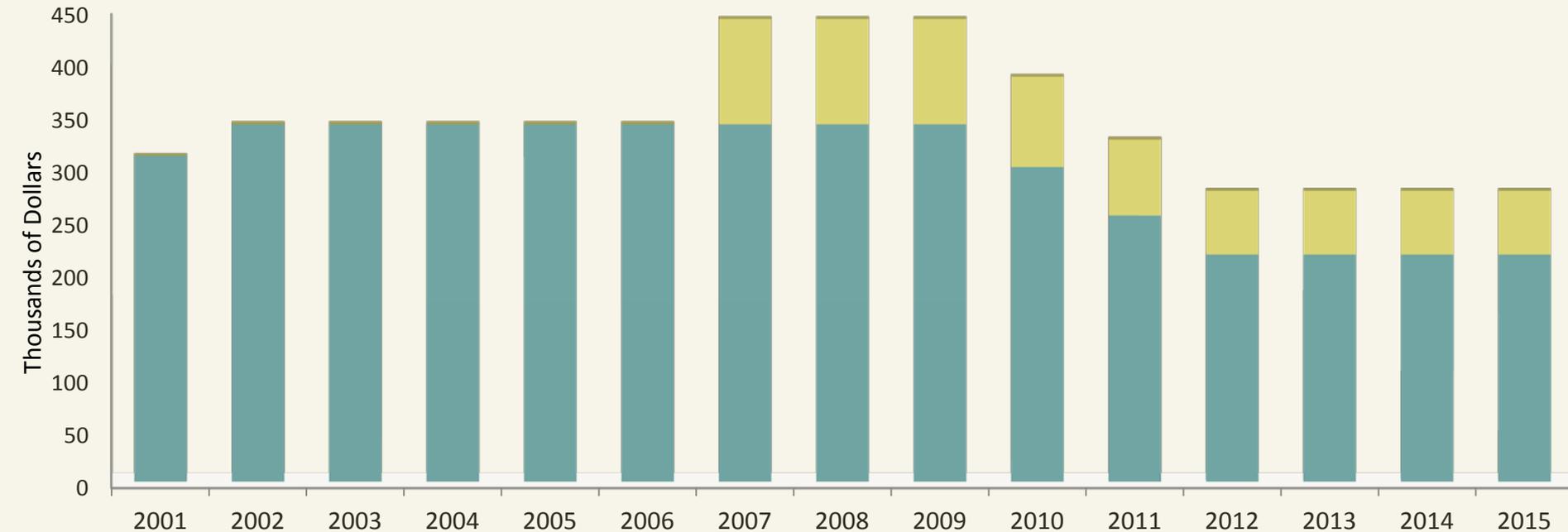
- Osteoporosis
- Delayed wound bleeding
- Palmoplantar pustulosis
- Psoriasis
- Increased incidence of back injury and broken bones

Diabetes and Vascular Diseases

- Coronary Heart Disease
- High Cholesterol
- Stroke
- Diabetes
- Emphysema
- Asthma
- Atherosclerosis



Changes Over the Last Decade



■ **Core Programs** started in 2001

■ **Instruction & General** funding in 2007

Programs Supported by Tobacco Settlement Funds

Core Projects

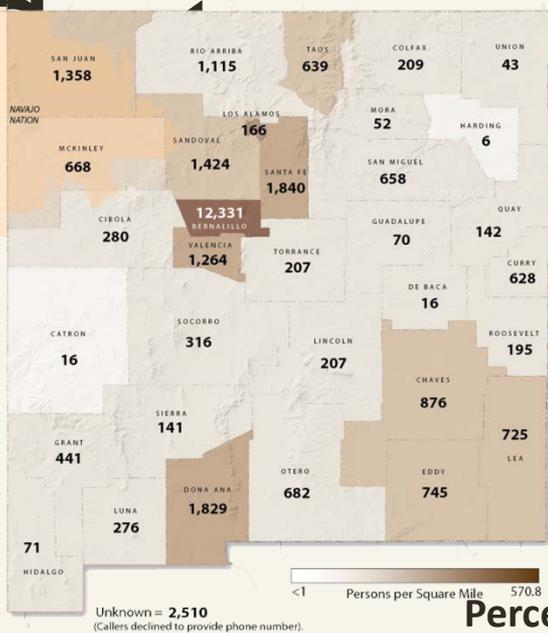
- *UNM HSC Biomedical Research (Genomics, Biocomputing & Environmental Health Research)*
- Pediatric Oncology Program
- NM Poison & Drug Informatics Center



Instruction & General (I&G) Funds

- *Specialty Education Trauma*
- *Specialty Education Pediatrics*
- *Instruction and General Line Item (added in 2007)*

NM Poison & Drug Information



Number of Calls by county, FY12

Percentage of Calls by Relationship to Patient



30,000 calls/year

Benefit

- The *only poison center* in New Mexico
- *Improves New Mexicans' health* by reducing morbidity and mortality associated with poisoning and by encouraging proper use of medications
- *Reduces healthcare costs* by helping citizens identify when to safely be treated at home and by consulting with healthcare teams for hospitalized patients

Use of Funds

- Provides outreach to New Mexicans
- Avoiding hospitalizations saved ~\$17M in FY14 healthcare costs
- Reducing hospitalizations saved ~\$26M
- Receives 30,000 calls per year
- Provides professional education statewide

Pediatric Oncology Program

Benefit

- The center of excellence for diagnosis & care of children with cancer
- The only provider of tertiary care for children with cancer in New Mexico
- Evaluates and provides multidisciplinary treatment for blood or solid tumor malignancies in children and adolescents up to age 18
- Consults on young adults with pediatric cancers
- Over 300 active patients with 6,300 combined inpatient and outpatient visits every year

Use of Funds

- Provides support to patients and their families via counseling
- Faculty positions are supported as well



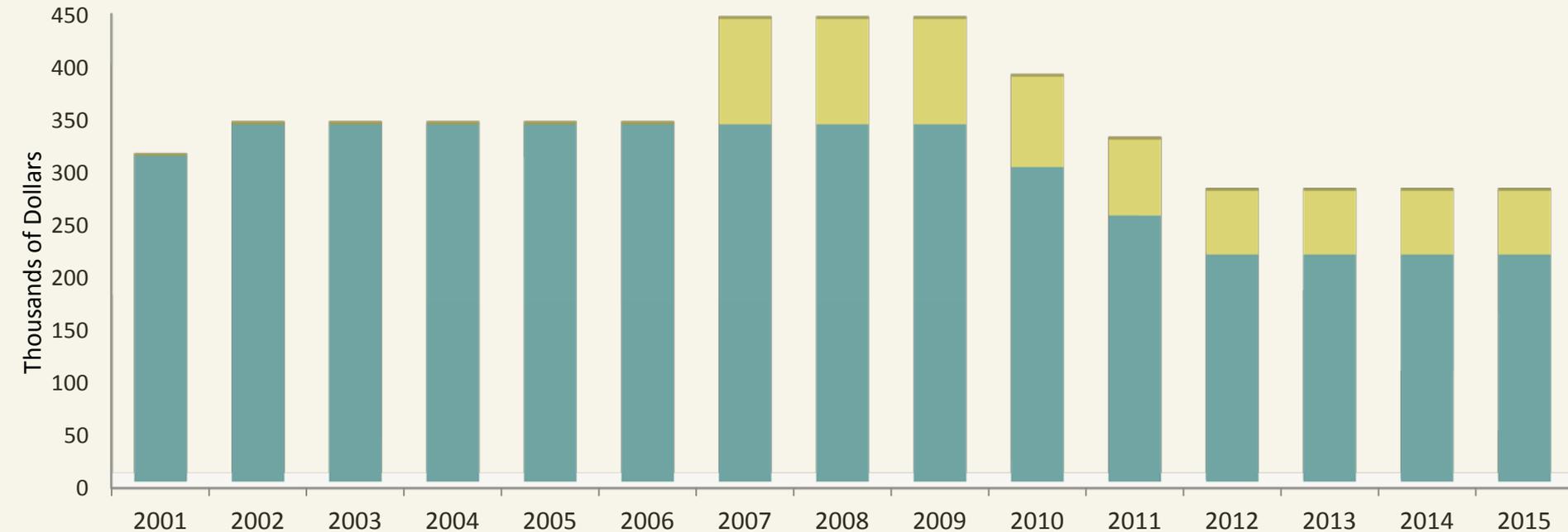
History of I&G Funding from Tobacco Settlement Funds

- Began in 2007
- Legislature funded HSC I&G General Fund requests from TSF
- Supports trauma care, primary care, and faculty retention



With faculty compensation rates below the national average, the School of Medicine (SOM) is having difficulty retaining faculty physicians due to salary compaction. The SOM must be able to hire and retain quality faculty physicians as they are the key to educating our medical students, while simultaneously providing care to New Mexicans.

Changes Over the Last Decade



■ **Core Programs** started in 2001

■ **Instruction & General** funding in 2007

Funds Committed to I&G Supplement

Benefit

- Support additional faculty positions in pediatrics and trauma medicine
- Ensure that faculty members have sufficient time to continue teaching despite and ever-increasing clinical patient load



Programs

- Specialty Education in Pediatrics
- Specialty Education in Trauma HSC
- I&G Support for Education and Retention

UNM HSC Biomedical Research

Benefit

- Novel medical research & healthcare innovations
- Access to state-of-the-art medical technologies & care
- Accelerating the translation of scientific discovery into improved human health



Effect of FY09-11 Reductions

- Loss of \$7 for every \$1 of reduced allocation
- Endangered community research programs, putting current & future victims of tobacco addiction at further risk
- Caused the cancellation of equipment service contracts resulting in the operating of equipment without insurance & without the ability to repair

(Now known as UNM Comprehensive Program for Clinical and Basic Research, and Prevention of Tobacco-Related Illnesses in New Mexico)

UNM HSC Biomedical Research Facility

- Clinical trials
- Core Facilities
- Pilot funding



 THE UNIVERSITY of
NEW MEXICO

JPEG:02286.jpg
UNM Image Gallery | This image has been licensed ONLY for UNM projects and CANNOT be used for non-UNM projects - Copyright - Paul Akmajian

Clinical and Intervention Trials

- Brings latest treatments and technologies to New Mexico
- **If trial not available, treatment not available in New Mexico**
- Each trial provides new treatment at no cost to patient
- Tobacco settlement funding has provided infrastructure support to 181 trials and 93 investigators

Examples in Clinical Trials Center

- 12 studies involving cystic fibrosis
- 24 studies involving heart/cardiovascular
- 35 studies involving diabetes
- 11 studies involving infectious disease
- 14 studies involving asthma
- 2 studies involving vitamins and their role in cardiovascular disease



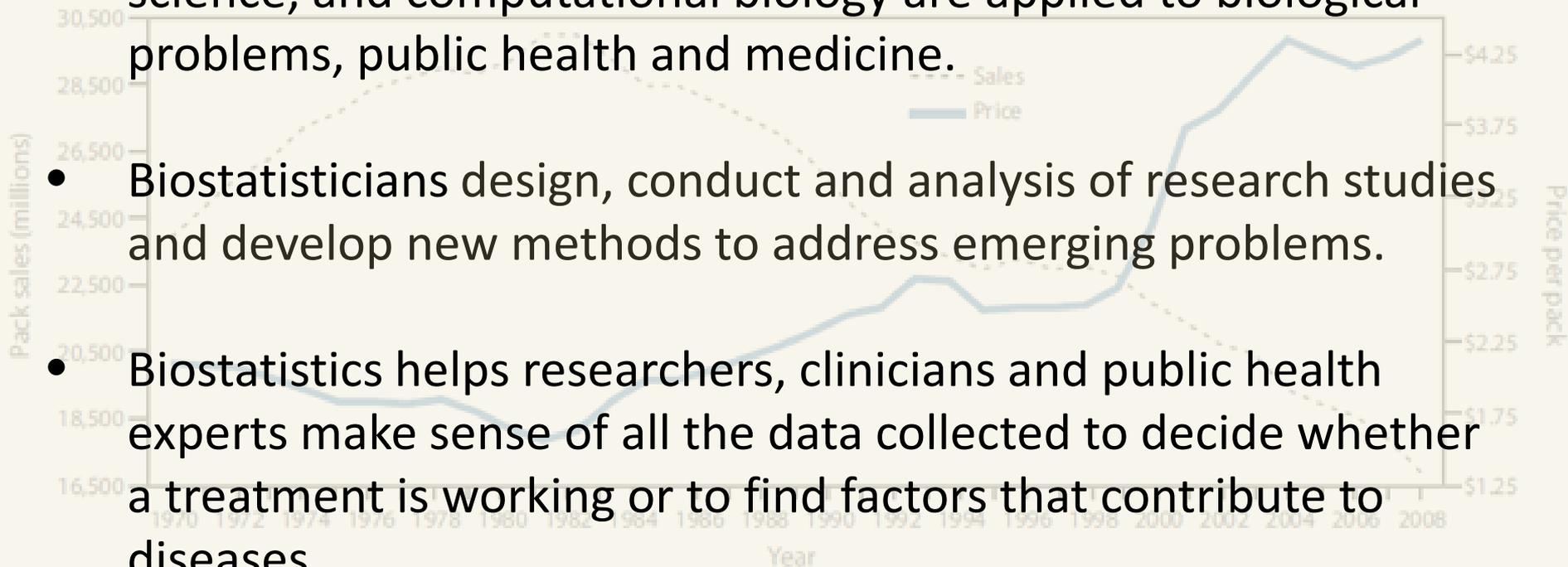
Core Facilities

- Shared facilities that provide service to entire HSC community (genomics and biostatistics)
- Provide access to equipment that is otherwise unavailable
 - **Research that would otherwise be impossible**



Biostatistics: More than Numbers

- Biostatistics is an exciting field where mathematics, computer science, and computational biology are applied to biological problems, public health and medicine.

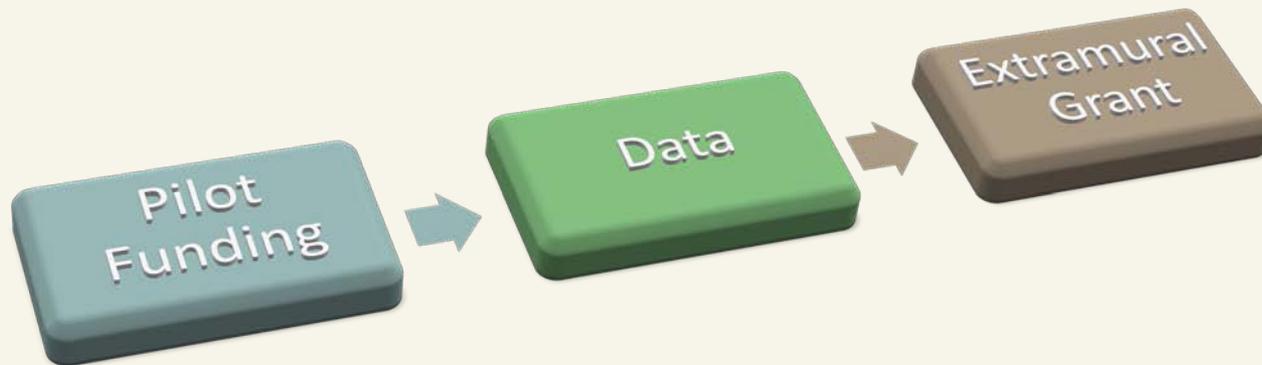


- Biostatisticians design, conduct and analysis of research studies and develop new methods to address emerging problems.

- Biostatistics helps researchers, clinicians and public health experts make sense of all the data collected to decide whether a treatment is working or to find factors that contribute to diseases.

Pilot Funding

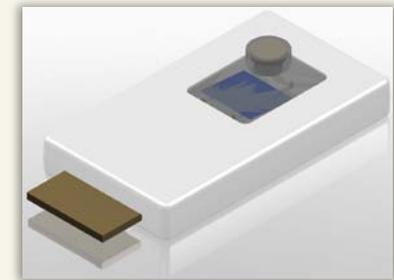
- Pilot funding is the primary mechanism for obtaining federal support



- Pilot funding returns \$8-\$20 per \$1 invested.

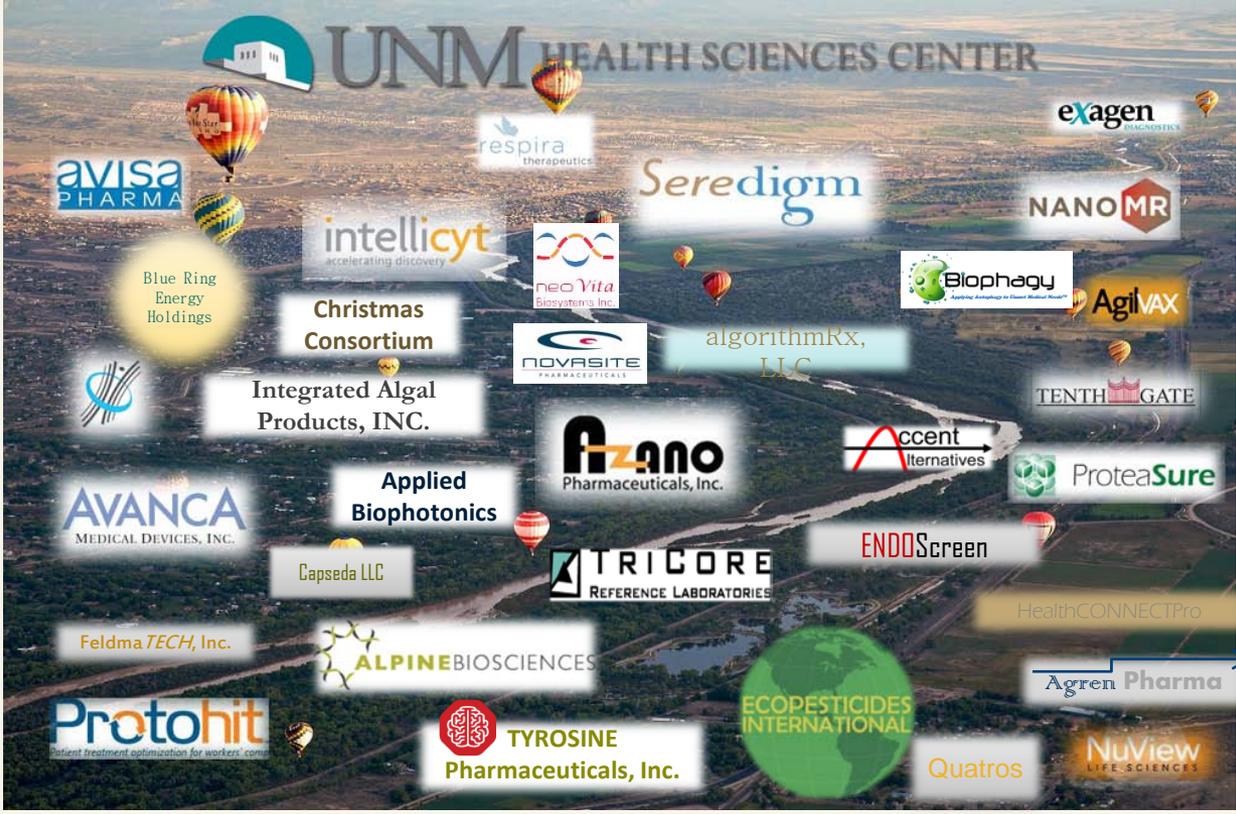
Example of Pilot Funding

- **Idea**
 - Can we develop handheld device to rapidly diagnose infection or other diseases?
- **Required Investment**
 - Invested \$50,000 of pilot funds (2003)
 - Used core facilities that are annually supported by Tobacco Settlement
- **Result**
 - Obtained some initial data
 - Applied for grant (\$1.3M X 8 years; supports 10 jobs per year)
- **2009**
 - Adapted for detection of 2009 H1N1 flu, Hepatitis B and C, HIV
 - Partnership with private company (more jobs)
 - Testing in Albuquerque, Washington DC and Atlanta
 - Potential to save tens of thousands of lives



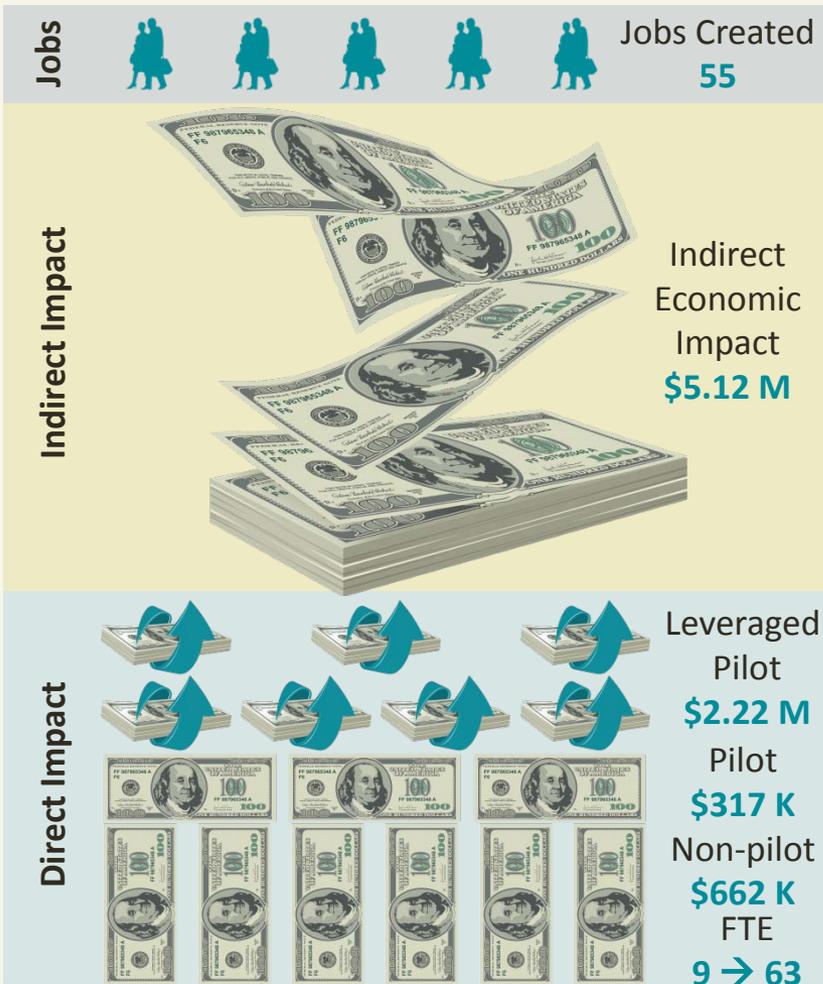
Commercialization

- Since 1998, 32 new private companies were either spun off from the university or used university technology to start up.

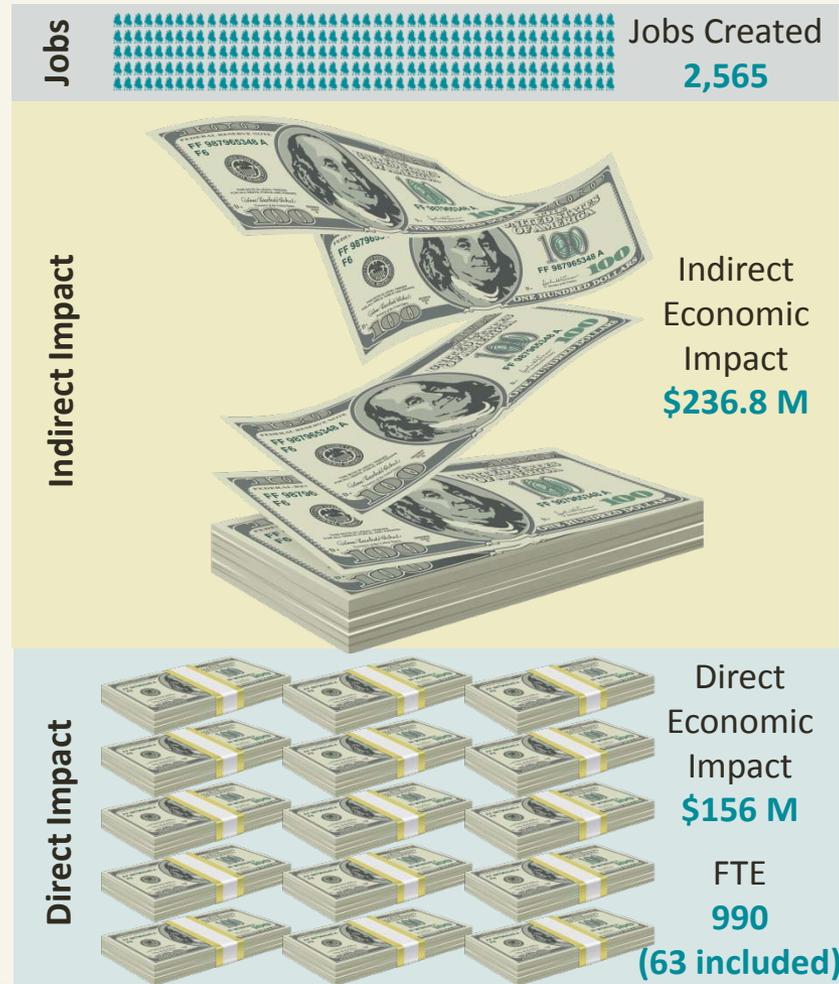


Economic Impact

Tobacco Settlement Funding



Total Research Funding



Threats to the Tobacco Settlement Fund

- Legal challenges by manufacturers
 - NM found “not diligent” by arbitration panel for 2003, reducing settlement by \$39 million
 - Settlements subsequent to 2003 may also be affected
- Fund sustainability
- In the face of these, the HSC highly values efforts by our legislators to build and maintain permanent fund reserves

What Loss of Tobacco Settlement Means to New Mexico

- Risk of pending litigation
- Loss of patient care services
- Loss of technology to provide services and conduct research
- Loss of jobs (leveraged)
- Loss of economic activity
- Progressive shift to general fund



Questions?

E-Cigarettes

Not a Healthy Alternative

- Not a smoking cessation device
 - Risk of addiction for those who don't already smoke
 - Continuation of addiction for smokers
 - Majority of e-cigarette users continue to smoke cigarettes
- Complete health effects unknown
 - Lack of regulation compared to traditional nicotine replacement
 - E-Liquid contains known carcinogens
 - Unknown long-term effects from inhalation of carrier liquid (propylene glycol, glycerine, polyethylene glycol)
- Other risks
 - E-Liquid toxicity
 - Exposure to e-liquid makes up an increasing proportion of nicotine-related calls to poison centers
 - E-Liquid exposures associated with adverse health effects more often than cigarettes
 - Containers not child-proof