



**TechRealization Day
Pacific Northwest National Laboratory
August 27, 2008**

**Sandia Science & Technology Park
“A National Laboratory Research Park Model”**

*Jackie Kerby Moore
Executive Director*

10 years of economic growth



**SANDIA SCIENCE &
TECHNOLOGY PARK**

Sandia's Heritage

"Exceptional service in the national interest"



THE WHITE HOUSE
WASHINGTON

May 13, 1949

Dear Mr. Wilson:

I am informed that the Atomic Energy Commission intends to ask that the Bell Telephone Laboratories accept under contract the direction of the Sandia Laboratory at Albuquerque, New Mexico.

This operation, which is a vital segment of the atomic weapons program, is of extreme importance and urgency in the national defense, and should have the best possible technical direction.

I hope that after you have heard more in detail from the Atomic Energy Commission, your organization will find it possible to undertake this task. In my opinion you have here an opportunity to render an exceptional service in the national interest.

I am writing a similar note direct to Dr. C. E. Buckley.

Very sincerely yours,

Mr. Leroy A. Wilson,
President,
American Telephone and Telegraph Company,
195 Broadway,
New York 7, N. Y.



National Security Mission

Nuclear Weapons

One Management Unit

- Nuclear Weapons



Integrated Technologies and Systems

Three Management Units

- Defense Systems and Assessments
- Energy, Resources, and Nonproliferation
- Homeland Security and Defense



Laboratory Transformation

Two Management Units

- Integrated Enabling Services
- Science, Technology, and Engineering



Sandia Science & Technology Park

“A Master-Planned Technology Community”



- **200+ Acres**
- **Affiliated with Sandia National Laboratories**
- **Pedestrian-Oriented, Campus-Style Park**
- **State-of-the-Art Fiber Optics Network**
- **Accelerated City Approval Process**

Projections: 2,300,000 sf

6,000 Jobs

10 years of economic growth



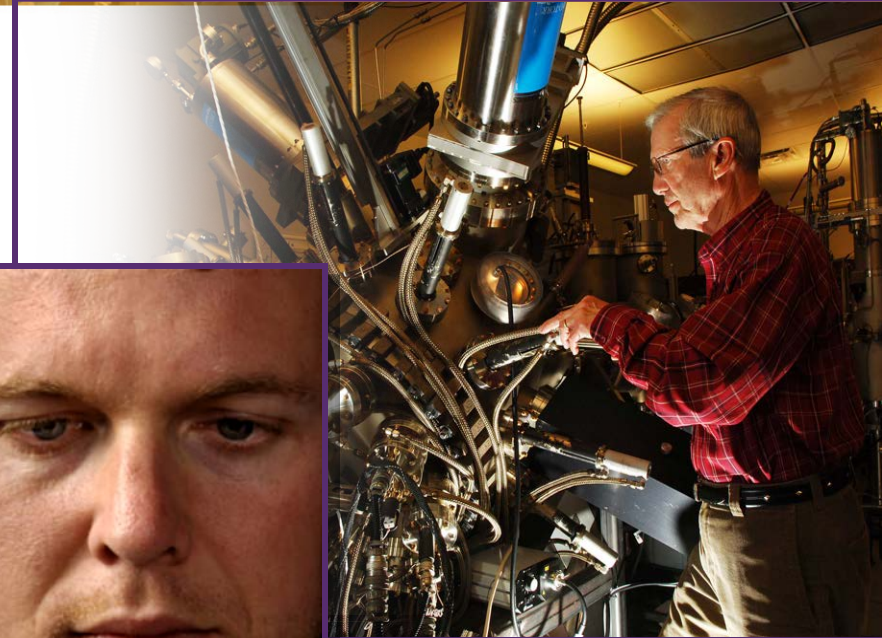
History of the Park

- **Founded in 1998**
- **Partnership Tool for Sandia**
 - **Create Joint Research and Development**
 - **Commercialize Technologies**
 - **Develop Business**
 - **Strengthen Supplier Relations**
 - **Foster Economic Development**
- **Science and Technology Park Development Corporation, a nonprofit entity, was established to manage and develop the Park**

Our Competitive Advantage

Access to Sandia

- World-class technologies
- State-of-the-art facilities
- Internationally recognized scientists and engineers



Business Model

ORIGINAL PARTNERS

- Created vision
- Provides executive-level champion
- Provides executive director and program staff
- Manages day to day activities, including marketing



Sandia National Laboratories



TVC

LOCKHEED MARTIN



- Shared vision
- Funds infrastructure

- Founded Science & Technology Park Development Corporation (STPDC), the nonprofit entity which oversees the Park
- Provides chairman of the board for STPDC
- Manages grants

Park MOU Signatories

LAND OWNERS



New Mexico State Land Office

- Sell and lease land
- May build and own buildings

OTHER KEY PARTNERS



Provides planning funds



Provides telecommunications infrastructure



Provides infrastructure



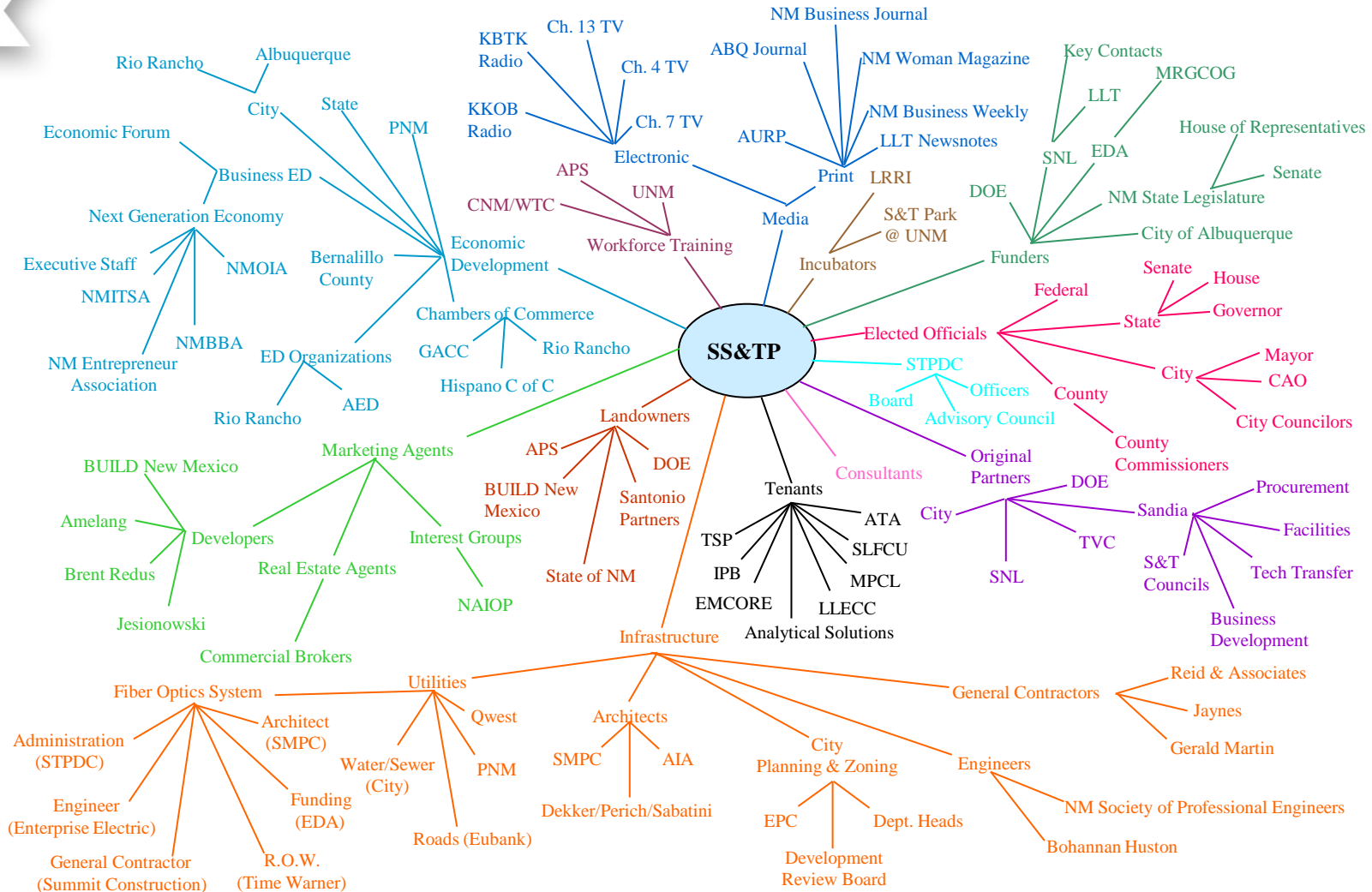
Provides economic impact analyses



Provides leadership and support

10 years of economic growth

Stakeholder Map



Grant Funding

State of NM

- \$150K from State/City for **Market Survey & Conceptual Design**
- \$200K from New Mexico State Legislature for **Master Development Plan**
- \$99K from New Mexico State Legislature for **Park Development**
- \$150K from New Mexico State Legislature for **Landfill Remediation**
- \$240K from New Mexico State Legislature for **Park Development**
- \$318K from New Mexico State Legislature for **Signage and Landscaping**
- **State Subtotal: \$1,157,000**

City of Albuquerque

- **\$785K** from City for **Road and Storm Sewer Improvements**

DOE

- **\$200K** from DOE for **Master Development Plan**

EDA

- \$1M from EDA for **Fiber Optic Backbone**
- \$750K from EDA for **Point-of-Presence Building**
- \$1.1M from EDA for **Fiber Optic Backbone Expansion**
- **EDA Subtotal: \$2.850 Million**

Total Grant Funding: \$4.992 Million

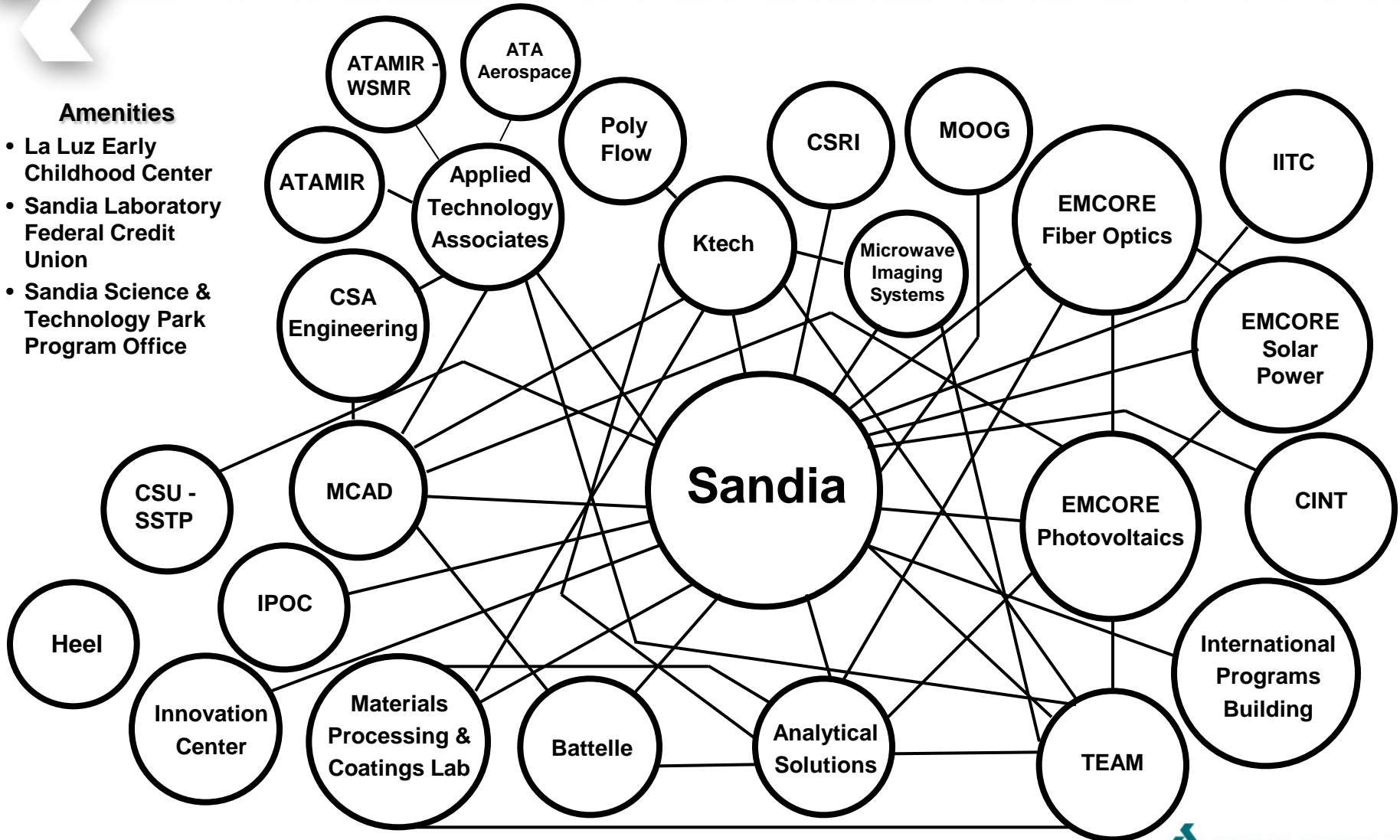
28 Tenants Employing 2184 People

- Analytical Solutions
- Applied Technology Associates
- ATA Aerospace
- ATA MIR
- ATAMIR - WSMR
- Battelle
- Center for Integrated Nanotechnologies (SNL)
- Computer Science Research Institute (SNL)
- Computer Support Unit (SNL)
- CSA Engineering
- EMCORE Fiber Optics
- EMCORE Photovoltaics
- EMCORE Solar Power
- Heel
- Innovation Center (SNL)
- Innovation Parkway Office Center (SNL)
- International Programs Building (SNL)
- Intertribal Information Technology Company
- Ktech
- La Luz Early Childhood Center
- Materials Processing & Coatings Laboratory
- MCAD Technologies
- Microwave Imaging Systems (SNL)
- Moog
- Poly-Flow Engineering
- Sandia Laboratory Federal Credit Union
- Sandia Science & Technology Park Program Office (SNL)
- TEAM Technologies

Synergistic Cluster of Companies

Amenities

- La Luz Early Childhood Center
- Sandia Laboratory Federal Credit Union
- Sandia Science & Technology Park Program Office



18 New Buildings



National Museum of Nuclear Science & History



***Completion
Spring 2009***



Pocket Parks

Ted Hobbs Park



Orbit Park



Funded by New Mexico State Legislature

10 years of economic growth

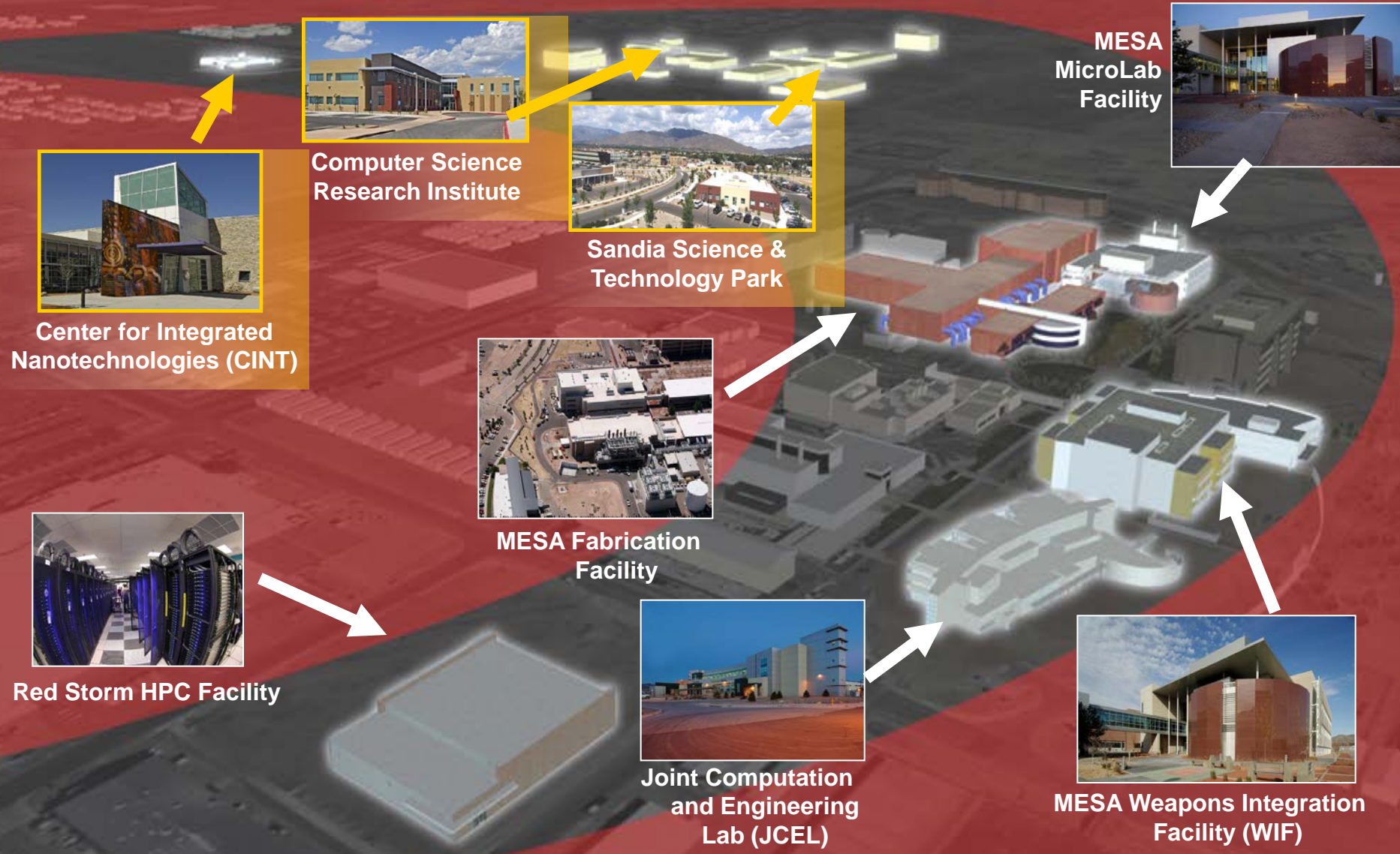


**SANDIA SCIENCE &
TECHNOLOGY PARK**

Success Factors

- **Affiliation with an R&D Institution, Sandia National Laboratories**
- **High Level Champion**
- **Public / Private Partnership**
- **Political Support**
- **Focus on Results**

Sandia Innovation Corridor



Computer Science Research Institute



Sandia Science & Technology Park



MESA MicroLab Facility



Center for Integrated Nanotechnologies (CINT)



MESA Fabrication Facility



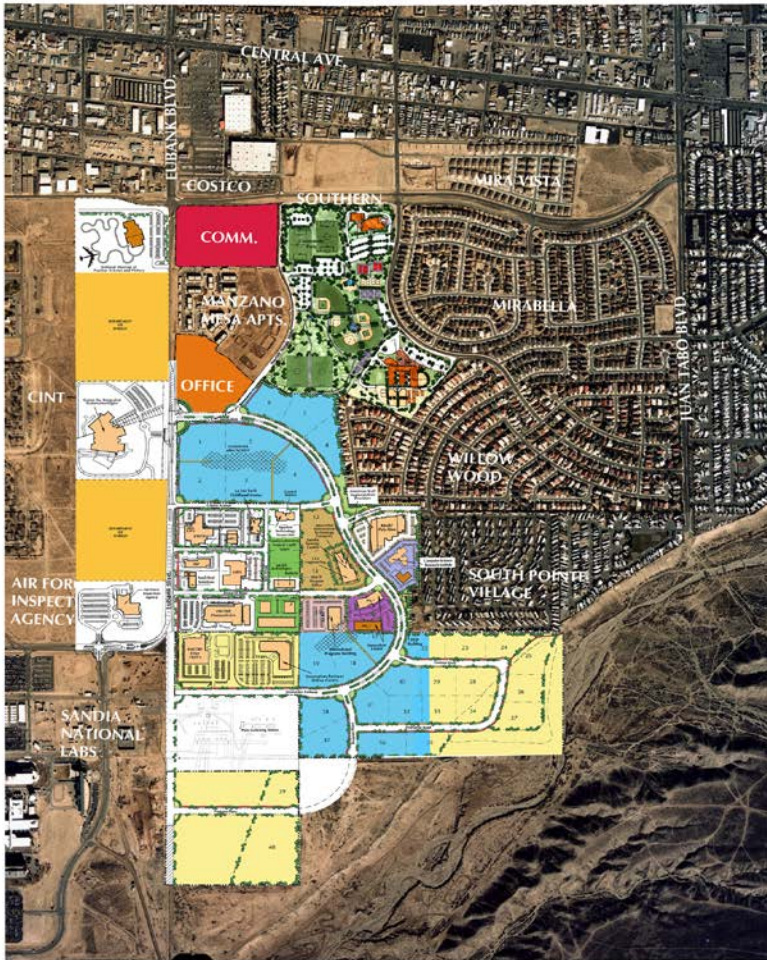
Red Storm HPC Facility



Joint Computation and Engineering Lab (JCEL)



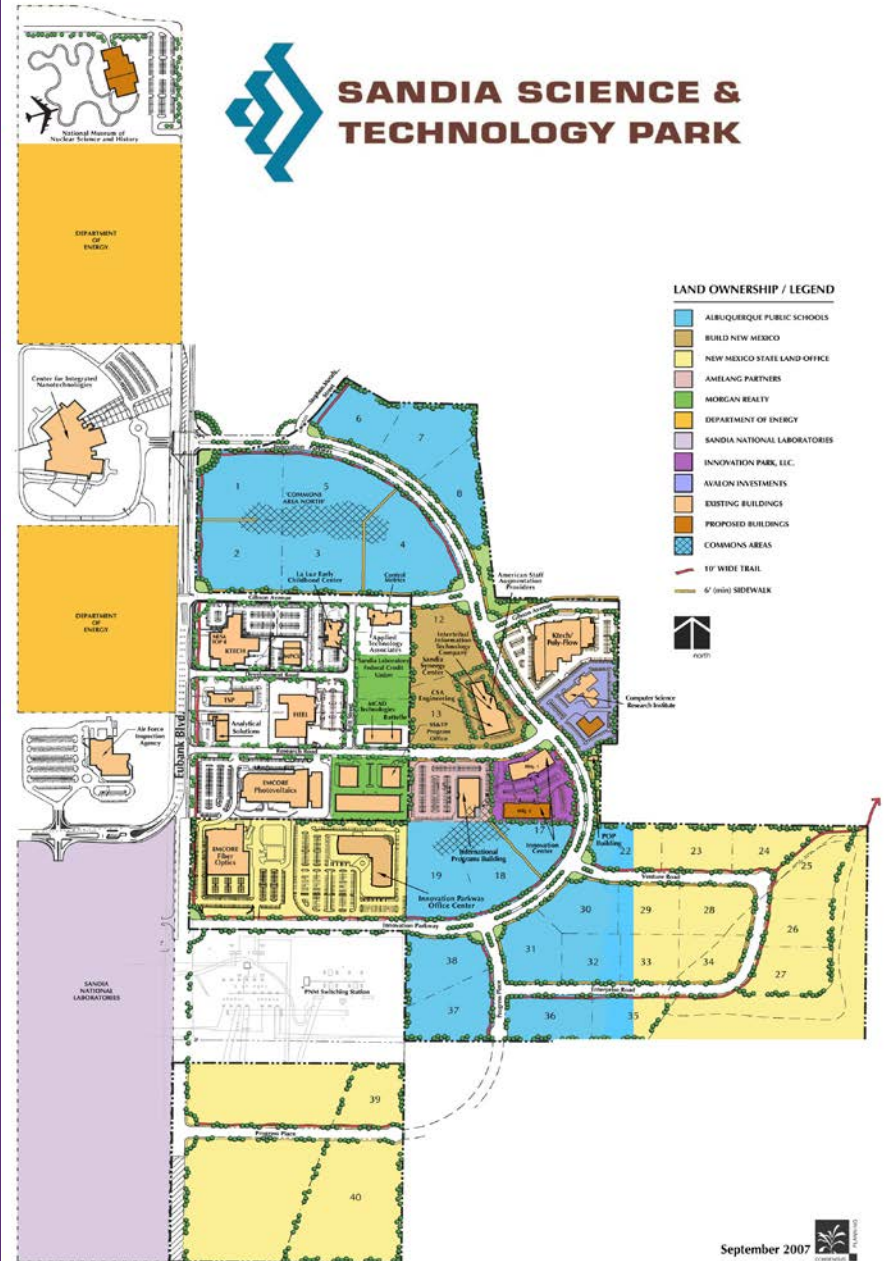
MESA Weapons Integration Facility (WIF)



- North
- LAND OWNERSHIP / LEGEND**
- ALBUQUERQUE PUBLIC SCHOOLS
 - BUILD NEW MEXICO
 - NEW MEXICO STATE LAND OFFICE
 - AMELANG PARTNERS
 - MORGAN REALTY
 - DEPARTMENT OF ENERGY
 - SANDIA NATIONAL LABORATORIES
 - INNOVATION PARK, LLC.
 - AVALON INVESTMENTS
 - EXISTING BUILDINGS
 - PROPOSED BUILDINGS
 - COMMONS AREAS
 - 10' WIDE TRAIL
 - 6' (min) SIDEWALK

SANDIA SCIENCE & TECHNOLOGY PARK and MANZANO MESA VICINITY

September 2007



SANDIA SCIENCE & TECHNOLOGY PARK

LAND OWNERSHIP / LEGEND

- ALBUQUERQUE PUBLIC SCHOOLS
 - BUILD NEW MEXICO
 - NEW MEXICO STATE LAND OFFICE
 - AMELANG PARTNERS
 - MORGAN REALTY
 - DEPARTMENT OF ENERGY
 - SANDIA NATIONAL LABORATORIES
 - INNOVATION PARK, LLC.
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- North

September 2007



Public/Private Partnerships

- Sandia National Laboratories
- Technology Ventures Corporation
- City of Albuquerque
- Department of Energy
- Albuquerque Public Schools
- BUILD New Mexico/Union Development Corporation
- New Mexico State Land Office
- Lockheed Martin Corporation
- Economic Development Administration
- State of New Mexico
- Bernalillo County
- Public Service Company of New Mexico
- Mid-Region Council of Governments
- New Mexico Congressional Delegation

Political Support



10 years of economic growth



Results

Park Metrics	Results Since Park Founded in 1998
Number of Companies	28
Number of Employees	2,184
Number of Buildings	18
Square Feet of Occupied Space	897,925
Acreage Developed (out of 240)	67
Funds-In and In-Kind Services from Tenants to Sandia (i.e. CRADAs, Licensing Agreements)	\$17,591,682
DOE/Sandia In-Kind Services to Tenants (CRADAs)	\$2,667,916
Contracts from Sandia Procurement to Tenants	\$259,670,152
Contracts between Tenants	\$7,473,556
Public and Private Investment in the Park	
Public	\$67,315,090
Private	\$234,155,153
Total	\$301,470,243

Economic Impact Analysis

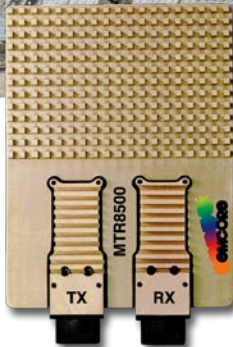
May 1998 – December 2007

Jobs Created	
Direct Jobs Created by Entities in the Park	2,113
Indirect Jobs Created as a Result of the Park	5,441
Total Jobs Created (Direct Plus Indirect)	7,554
Increase in Tax Revenue	
Cumulative Impact on Taxable Consumption (Goods and Services)	\$794,698,481
Cumulative Impact on Gross Receipts Tax Revenue to the State of New Mexico	\$39,734,642
Cumulative Impact on Gross Receipts Tax Revenue to City of Albuquerque	\$5,175,256
Increase in Wages	
Cumulative Increase in Wage and Salary Disbursements Attributable to Park Activities	\$1,456,085,248
Increase in Revenue to State of New Mexico as a Result of Personal Income Tax (5% Rate)	\$72,804,262
Salary Comparison	
Average Salary for Each Full-Time Job in the Park	\$70,448
Average Salary for each full-time private company job in the Park	\$67,542
Average Salary for Each Full-Time Job in Albuquerque	\$37,284

12/31/08

10 years of economic growth

EMCORE / Sandia Partnership



- EMCORE is a publicly traded company
- First company to move into Park in 1998
- Licensed VCSEL, solar cell, and transponder technologies from Sandia
- Relocated their corporate headquarters to New Mexico
- \$110M investment in Park
- 550 employees at Park

Ktech/Sandia Partnership



- **Ktech is a local, employee-owned company**
- **Provide technicians to Pulsed Power facility**
- **Licensed cold spray technology**
- **\$34.2M investment in Park**
- **260 employees at Park**

Tenant Interactions




Community Service



Blood Drive
721 Units

Get Involved:
Become a Hunger Fighter!!

**Roadrunner
Food Drive
Nov. 13-27**



Look for designated
collection box
in your building

Most Needed Items for Kids:

Pudding Cups	Vienna Sausage
Peanut Butter Crackers	Animal Crackers
Granola Bars	Juices (in box)
Beans & Wieners (pop top can)	Raisins
Chicken Noodle Soup	Macaroni & Cheese
Individual Serving Cereals	Cheez 'N' Breadsticks
Applesauce	

Sponsored by Sandia Science & Technology Park

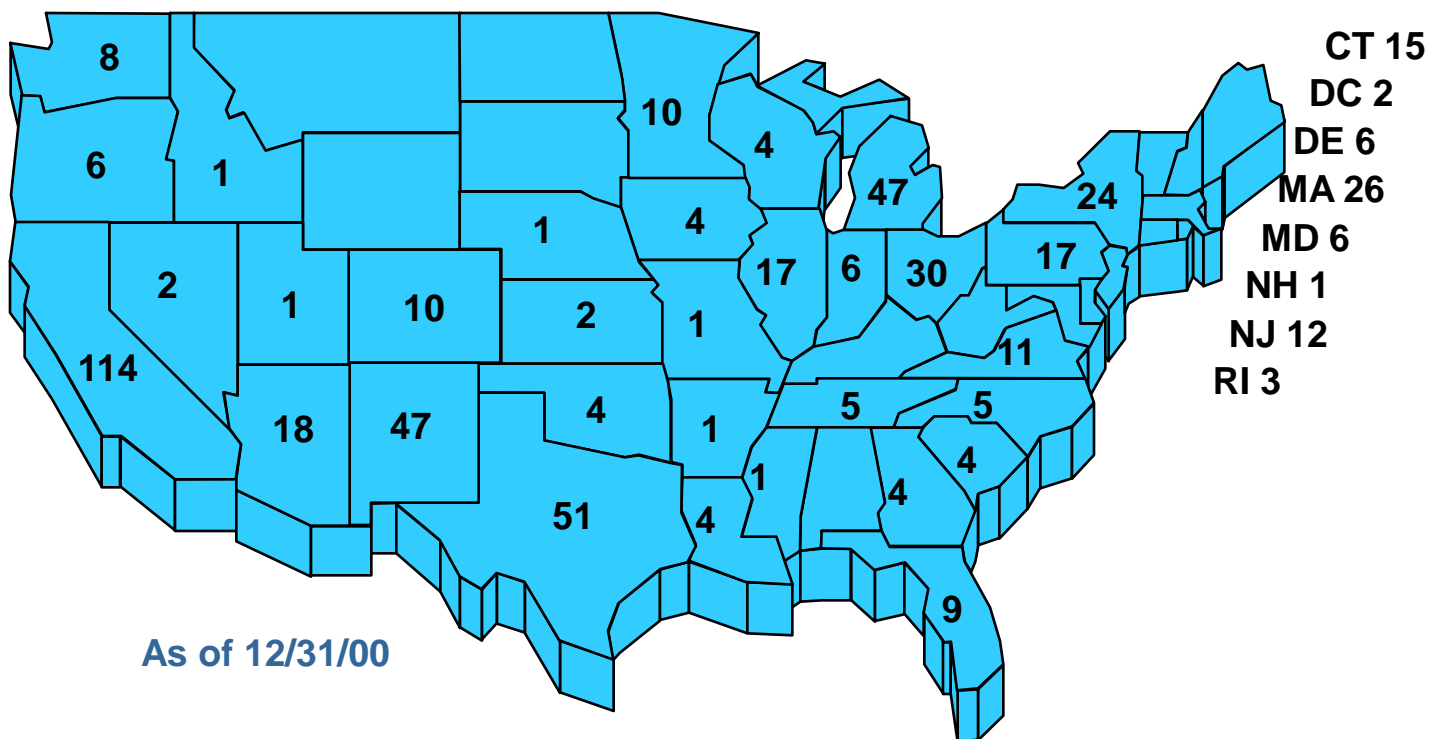
Food Drive
24,225 Pounds

Lessons Learned

- **Marketing to Industry Partners Across the Country**
- **Multi-Tenant Building**
- **Signage**
- **Food Provider**

Industry Partners

Sandia had 452 CRADAs with Partners in 40 States



Multi-Tenant Building

6 years after Park started



Monument Sign

10 years after Park started





Food Provider

Still Waiting!

Federal Legislation

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S.L.C.

110TH CONGRESS
1ST SESSION

S. 1373

To provide grants and loan guarantees for the development and construction of science parks to promote the clustering of innovation through high technology activities.

IN THE SENATE OF THE UNITED STATES

Mr. PRYOR introduced the following bill; which was read twice and referred to the Committee on

A BILL

To provide grants and loan guarantees for the development and construction of science parks to promote the clustering of innovation through high technology activities.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

3 **SECTION 1. SHORT TITLE.**

4 This Act may be cited as the "Building a Stronger
5 America Act".

6 **SEC. 2. DEVELOPMENT OF SCIENCE PARKS.**

7 (a) FINDING.—Section 2 of the Stevenson-Wydler
8 Technology Innovation Act of 1980 (15 U.S.C. 3701) is
9 amended by adding at the end the following:

1

110TH CONGRESS
1ST SESSION

H. R. 4250

To provide grants and loan guarantees for the development and construction of science parks to promote the clustering of innovation through high technology activities.

IN THE HOUSE OF REPRESENTATIVES

NOVEMBER 15, 2007

Mrs. WILSON of New Mexico (for herself, Ms. GIFFORDS, Mr. SPRATT, and Mr. SMITH of Texas) introduced the following bill; which was referred to the Committee on Science and Technology

A BILL

To provide grants and loan guarantees for the development and construction of science parks to promote the clustering of innovation through high technology activities.

1 *Be it enacted by the Senate and House of Representa-*
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9 amended by adding at the end the following:

"Building a Stronger America Act" Grants and Loan Guarantees for Science Parks

10 years of economic growth



**SANDIA SCIENCE &
TECHNOLOGY PARK**

Recognition

- ***Small Business Advocate Award*** from Greater Albuquerque Chamber of Commerce (2008)
- ***Regional Partnership Award*** from Federal Laboratory Consortium Mid-Continent Region (2006)
- ***Technology-Led Economic Development Award*** from Economic Development Administration (2005)
- ***Partnership Award*** from International Economic Development Council (2004)
- ***Team Employee Recognition Award*** from Sandia National Laboratories (2004)
- ***Gold President's Quality Award*** from Sandia National Laboratories (2004)
- ***President's Award*** from National Association of Industrial and Office Properties (2002)
- ***Roadrunner Award*** from Quality New Mexico (2002)
- ***Pinon Award*** from Quality New Mexico (2001)
- ***Public/Private Partnership Award*** from New Mexico State Land Office (2001)
- ***Public/Private Partnership Award*** from Mid-Region Council of Governments (2001)

Recognition

Executive Order

From the desk of
Mayor Martin J. Chávez

Whereas, the Sandia Science & Technology Park (SSTP) is celebrating its Tenth Anniversary as an economic driver generating growth and prosperity for the residents of the City of Albuquerque and the State of New Mexico; and

Whereas, the SSTP is leveraging the assets of Sandia National Laboratories to create, expand, and recruit business in the City of Albuquerque; and

Whereas, the SSTP represents a Public-Private Partnership including the City of Albuquerque, Sandia National Laboratories, Technology Ventures Corporation, Albuquerque Public Schools, New Mexico State Land Office, and BUELL, New Mexico who are all working together to develop the Park for the benefit of the community; and

Whereas, the companies and organizations in the SSTP employ more than 2,100 people in high-paying, technology-based jobs and have recruited more than 4,000 additional indirect jobs for the community; and

Whereas, the SSTP represents a \$300 million investment in the City of Albuquerque; and

Whereas, the SSTP has been recognized by many local, state, national, and international organizations for its outstanding public-private partnership activities, its significant technology-based economic development efforts, and noteworthy results; and

Whereas, the SSTP truly has become one of the "corner joints" of Albuquerque's future economy; and

Whereas, the development of the Sandia Science and Technology Park serves as a pivotal point where Albuquerque meets a real commitment to technology-based economic development; and

Whereas, the City has been proud to be an active partner in this project since its inception, from the initial feasibility study, to area infrastructure, to joint grant pursuits, to an expedited development approval process, to industrial revenue bonds for the completion in the Park—the City has been eager to step forward and play its role in this landmark project.

Now, Therefore, I, Martin J. Chávez, Mayor of the City of Albuquerque, New Mexico on this 28th day of May of 2008, do hereby proclaim:

Sandia Science & Technology Park Day

And encourage all citizens to join me in recognizing this special event.

OS 093

Order No.

Martin J. Chávez, Mayor

City of Albuquerque Proclamation

“Sandia Science & Technology Park Day”

10 years of economic growth





10 Year Anniversary



10 YEARS
of economic growth

10 years of economic growth



10 Year Anniversary



U.S. Senator Pete V. Domenici