

 $\verb|https://www.foxbusiness.com/economy/us-manufacturing-sector-reaping-benefits-reshoring|$

Shoring up New Mexico's Economic Future



SERVING PUBLIC + PRIVATE
CLIENTS FOR YEARS

MULTIDISCIPLINARY DESIGN FIRM

ARCHITECTURE STRUCTURAL ENGINEERING INTERIOR DESIGN LANDSCAPE ARCHITECTURE PLANNING







Old Albuquerque High School



Old Albuquerque High School



Albuquerque Convention Center

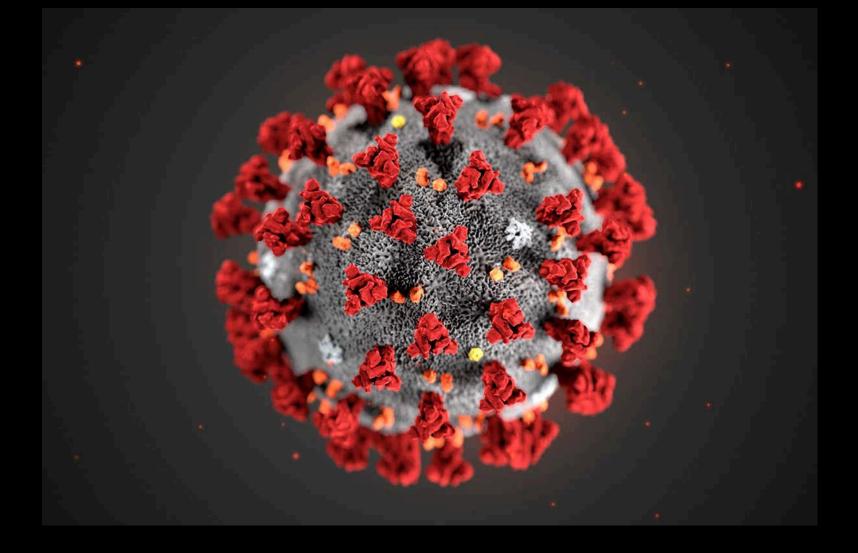


Albuquerque Convention Center



"The times they are a-changin'..."

Bob Dylan



"The shockwaves of the coronavirus pandemic cannot be overstated."

2021 Kearney-Confidence Index



"The coronavirus has exposed a dangerous risk to the national security and safety to United States citizens..."

Top 10 COVID-19 Takeaways For Corporate Site Selection-April 7, 2020-Business Facilities

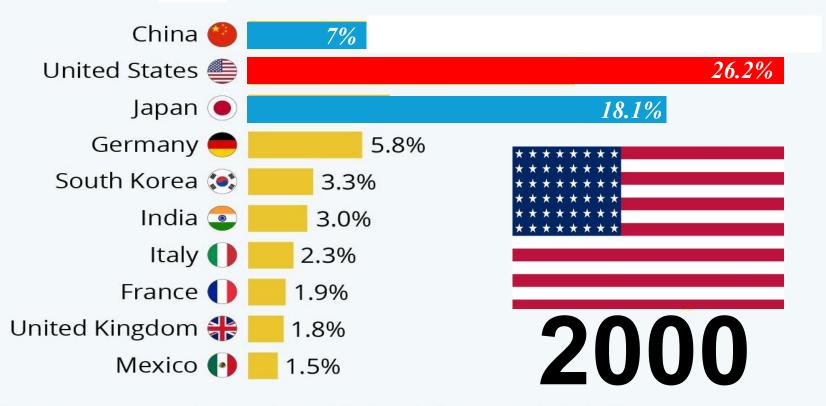
In the headlines...

"Overextended and risky supply chains are no longer tolerable...."

"91% of the companies affected by the supply chain disruption in China are U.S. based."

United States the World's Manufacturing Superpower

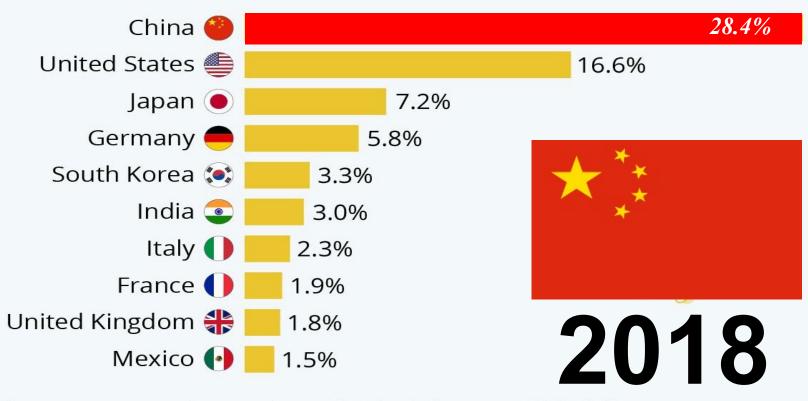
Top 10 countries by share of global manufacturing output in 2000 *



^{*} output measured on a value-added basis in current U.S. dollars Source: United Nations Statistics Division

China Is the World's Manufacturing Superpower

Top 10 countries by share of global manufacturing output in 2018*



^{*} output measured on a value-added basis in current U.S. dollars Source: United Nations Statistics Division

Supply Chain Disruption



Extreme Weather-Climate Change

Political/Wars



Human Rights

Accidents

BUILDING RESILIENT SUPPLY CHAINS, REVITALIZING AMERICAN MANUFACTURING, AND FOSTERING BROAD-BASED **GROWTH**

100-Day Reviews under Executive Order 14017



BUILL Critical Infrastructure SUPPLY CHAINS. REVIT MANU Medical Equipment/PPE FOSTF Aerospace D-BASED GROW Microelectronics

Advanced Manufacturing

Rare Earth Minerals

Defense Industrial Base



INVESTMENT and JOBS ACT



Inflation Reduction Act of 2022

historic down payment on deficit reduction to fight inflation invest in domestic energy production and manufacturing reduce carbon emissions by roughly 40 percent by 2030 -



The bill provides \$550 billion in NEW spending on our nation's infrastructure over the next five years...

The \$280 billion CHIPS and Science Act authorizes new and expanded investments in STEM education and training from K-12 to community college, undergraduate and graduate education.

Authorizes \$369 billion investment in domestic energy production, energy security, climate change and manufacturing, in order to reduce carbon emissions by roughly 40 percent by 2030.

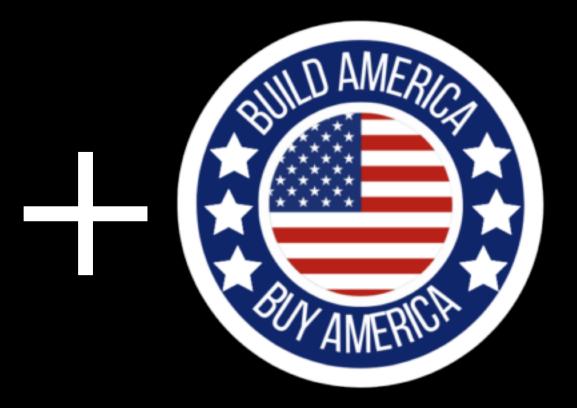
INVESTMENT and JOBS ACT

The CHIPS and Science Act

Inflation Reduction Act of 2022

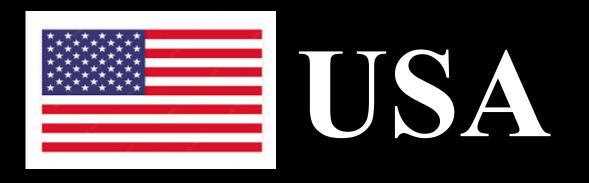
- historic down payment on deficit reduction to fight inflation -
- invest in domestic energy production and manufacturing -
- reduce carbon emissions by roughly 40 percent by 2030 -





BABA is a requirement that all infrastructure projects funded by federal financial assistance would

be subject to new Domestic Sourcing requirements for iron and steel, manufactured products, and construction materials.



\$1,149,000,000,000





\$7,250,000,000

If NM was to get its Per Capita "fair" share an additional \$7.25 billion of federal revenue will flow into NM

"Shoring" up America's Economy in the NEXT NORMAL

Critical Infrastructure

Pharmaceuticals

ReShoring

Medical Equipment/PPE

OnShoring

Aerospace

NearShoring

Microelectronics

FriendShoring

Advanced Manufacturing

Rare Earth Minerals

GreenShoring

Defense Industrial Base

GreenOnShoring

ReShoring

ReShoring is the act of bringing U.S. manufacturing that moved overseas back to the United States.

OnShoring

OnShoring is sourcing or expanding U.S. manufacturing production to a factory or new location within the U.S.

What are the market forces driving ReShoring and OnShoring?

Supply Chain Risks and Costs

Total Costs-Energy-Taxes-Regulations

Transportation Access to Markets

Wage Gap is Closing

Technology

IoT...Al...Robotics...5G...3D Printing

Advanced Manufacturing

"Most likely measures to be taken by manufacturers in reaction to the COVID-19 Pandemic" June 30, 2020 Cushman Wakefield

- Immediate-to short-term: Holding more product and component inventories....> Warehousing
- Medium-term: Diversifying component sourcing including an emphasis on <u>"nearshoring"</u> components ...closer to plants while holding more inventories.
- Long-term: "Reshoring" for some sectors, locating plants & component sources closer to each other as well as supply chain and production line restructuring would make JIT inventory management possible again.



"U.S. manufacturing revival: trends, challenges and



ReShoring

Top industries coming back to the U.S.

Clean tech and mobility:

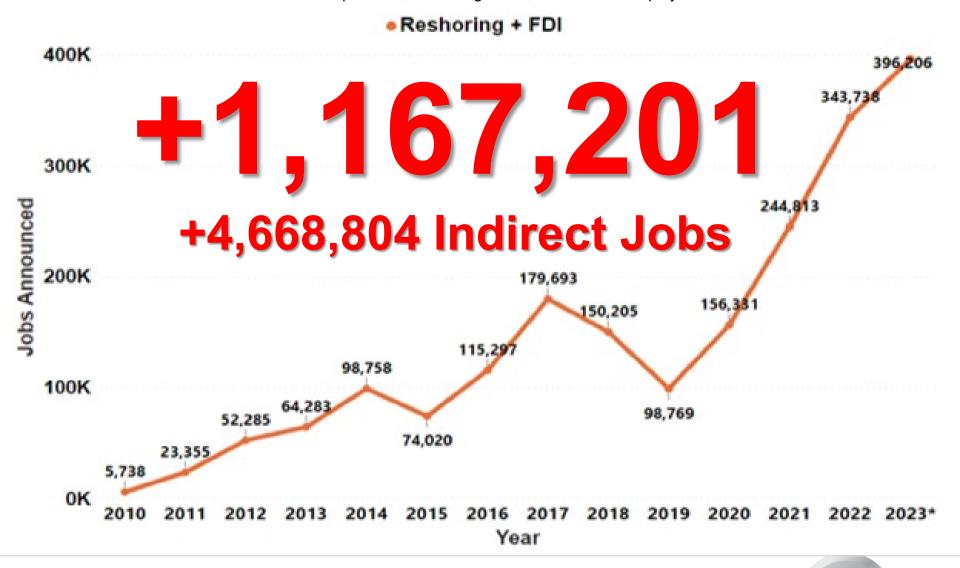
New factories are coming online to produce EVs, battery storage, hydrogen and other solutions that will help drive the energy transition.

Aerospace:

Companies are ramping up production of drone and defense projects.

Semiconductors:

The U.S. has granted billions of dollars in incentives to encourage chip companies to grow or reestablish their production footprints in the U.S.





In the headlines...

"The pick for the next manufacturing superpower?

Mexico."

https://insights.tetakawi.com/mexico-the-upcoming-

Nearshoring

Nearshoring...The practice of transferring a business operation to a nearby country, in preference to a more distant one...

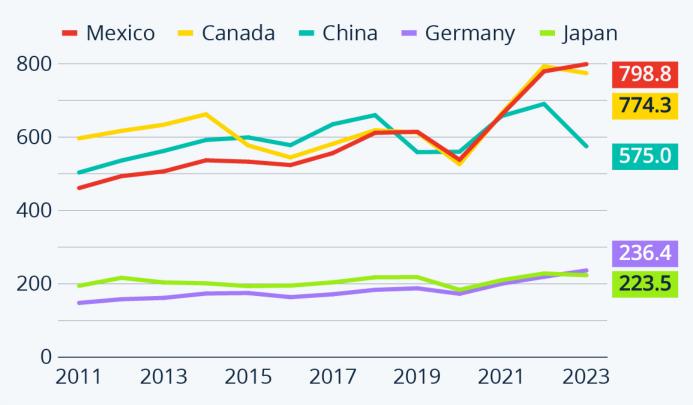


Seven Reasons to Move International Manufacturing from China to Mexico

- 1. Wage Stability in Mexico vs. China
- 2. Mexico Offers Favorable Tax Benefits to Manufacturers
- 3. Operational Simplicity
- 4. Shipping Transit Time and Costs- 1 to 3 days vs. 30 days
- 5. Economic Status-Higher per capita incomes
- 6. Intellectual Property Protection
- 7. Access to Qualified and Affordable Labor

U.S. Trade With Mexico Surges to No. 1 Position

Volume of goods trade with the biggest trading partners of the U.S. (in billion U.S. dollars)



Imports plus exports

Source: U.S. Census Bureau









"The pick for the next manufacturing superpower?

Mexico."

https://insights.tetakawi.com/mexico-the-upcomingmanufacturing-superpower

Nearshoring

"400 companies expected to land in Mexico in 2024..."



Chihuahua stands out in job creation nationwide

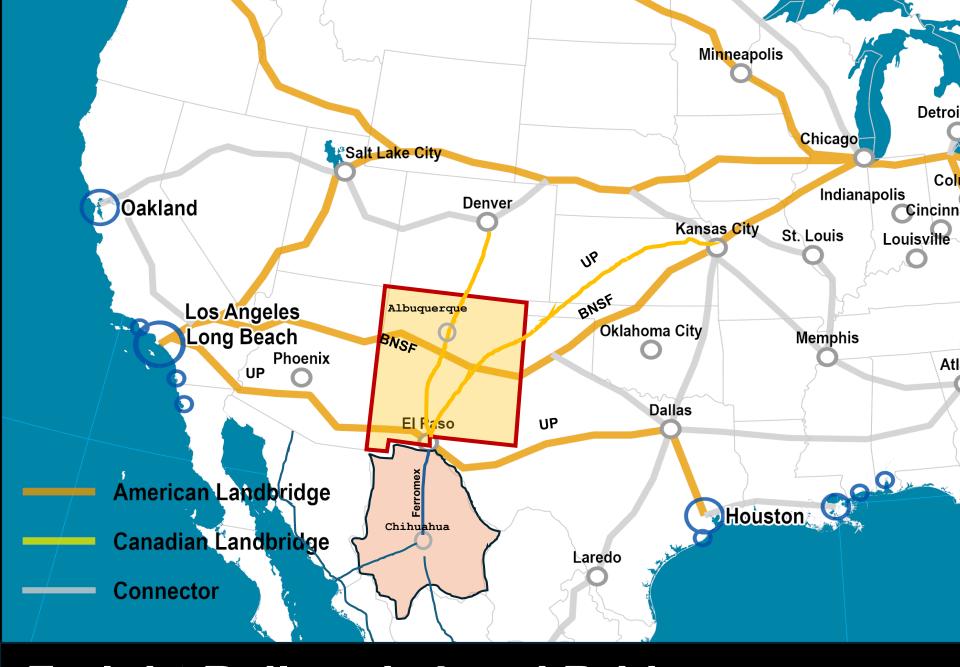
30 November, 2023 Mexico Now

"...as of October 2023, <u>30,658</u> new formal jobs were generated in Chihuahua, of which 9,680 correspond to the Juárez region; 14,898 to Chihuahua; 954 to Delicias; 3,894 to Cuauhtémoc; 506 to Parral and 726 to Nuevo Casas Grandes."

https://www.airealestate.com.mx/en/industrial-park/chihuahua-en/



\$109,000,000,000



Freight Railroads Land Bridges













Critical Infrastructure

Pharmaceuticals

Medical Equipment/PPE

Aerospace

Microelectronics

Advanced Manufacturing

Critical Manufacturing

Defense Industrial Base

GreenShoring

GreenShoring is **bringing manufacturing** that moved overseas **back** to the United States that has a corporate mandate to reduce its **carbon footprint**.

GreenOnShoring

GreenOnshoring is sourcing or expanding manufacturing production to a factory or new location within the United States due to a corporate mandate to reduce its carbon footprint.



"New Mexico has the Lowest Cost of Renewable Energy"



THE CLIMATE GROUP



The RE100 organization in London has signed up 223 global companies who have publicly committed to a goal of 100% renewables.





















GreenShoring





















GreenOnShoring















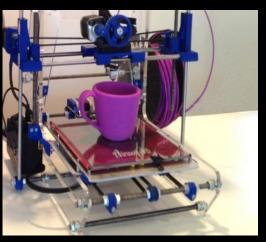




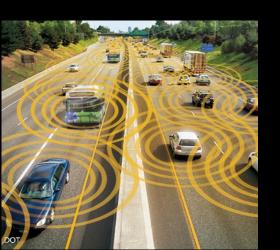
Mega Trends



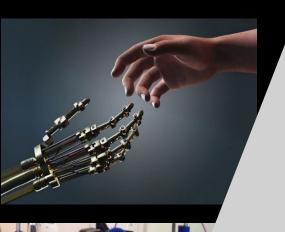
Robotics and Cobots
Intelligent Manufacturing
Quantum Computing
Circular Economy
Small Nuclear Reactors



Industrial Revolutions 5.0-6.0
Reshoring-Onshoring-Nearshoring
3-D Printing/Virtual Reality
Aerospace
Space Technology
Space Commercialization



6G/7G...Internet of Things (IOT)
Smart Sensors & Smart Cities
EV-Electric Vehicles
Battery Technology
Climate Change Adaptation



Polestics and Cobots

t Manufacturing

Computing

onomy

ar Reactors

esho 3-D Pril Aerospa Space Te olutions 5.0-6.0 horing-Nearsh ual Reality

ization

ings (IC

rt Cities

Smart Sensol
EV-Electric Ver
Battery Techno

Climate Change Adaptation

Solar, Wind, Nuclear, and Battery Storage account for most of the growth in both global capacity and generation.

2022 29,000 TWH

Global Population 2022 8 Billion to 2050 9.15 Billion 2050 60,000 TWH

(28% or 8,120 TWH Renewable)

NEW MEXICO ECONOMIC
DEVELOPMENT DEPARTMENT

EMPOWER & COLLABORATE

New Mexico's Economic Path Forward

October 2021

A Summary of Findings & Recommendations from the Center for Innovation Strategy & Policy @ SRI International



Aerospace



Biosciences



Cybersecurity



Film & Television



Sustainable & Value-Added Agriculture



Outdoor Recreation



Intelligent Manufacturing



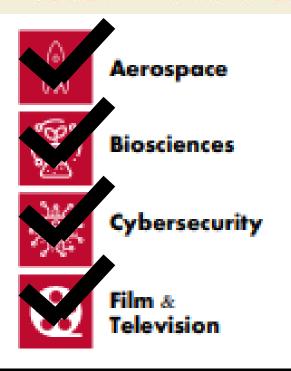
Global Trade



Sustainable & Green Energy

New Mexico's Economic Path Forward "To build a diverse and robust economy..."

EMPOWER & COLLABORATE









Seven of the TARGET INDUSTRIES requires a robust engineering and STEM professional and technical workforce in order to meet the goals of the State EDD Plan...

"Shoring" up New Mexico's Economy





Job Creators: The Multiplier Effect

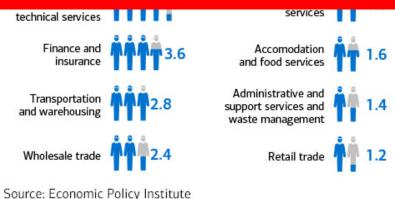
The virtuous cycle of "building it here"

Job multiplier effect by employment industry

Durable manufacturing 7.4 new jobs

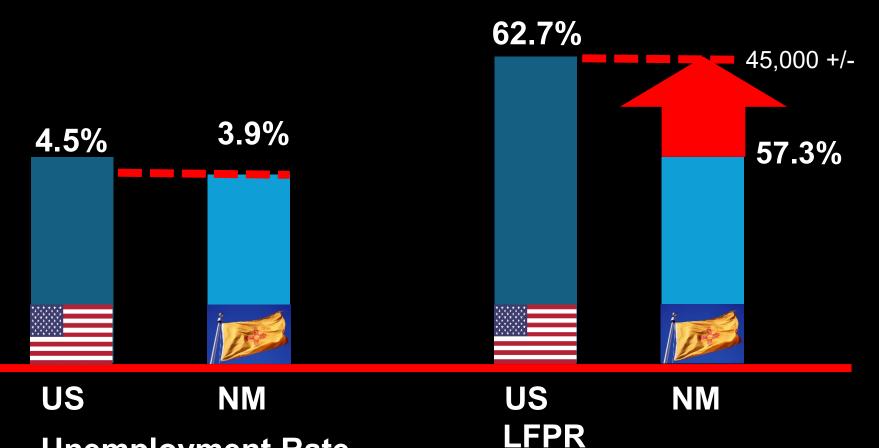


"Our nation is facing a dire shortage of manufacturing workers."





45,000 +/-



Source: U.S. Bureau of labor Statistics-June 2024

Unemployment Rate

Source: FRED-June 2024

Labor Force Participation Rate

Connect the Dots:

Research Universities
NMSU...NMTech...UNM

Chips & Science Act 2022

Infrastructure & Jobs Act

Inflation Reduction Act 2022

Partnerships

SNL/LANL National Labs
Air Force Research Lab

Public/Private Partnerships

Private Industry

Recruit & Retain

International-Latin Americas **New Mexico** STEM & Engineering Talent

EMPOWER & COLLABORATE



Aerospace



Biosciences



Cybersecurity



Sustainable & Value-Added Agriculture



Intelligent Manufacturing



Sustainable & Green Energy



Global Trade



Maya Angelou

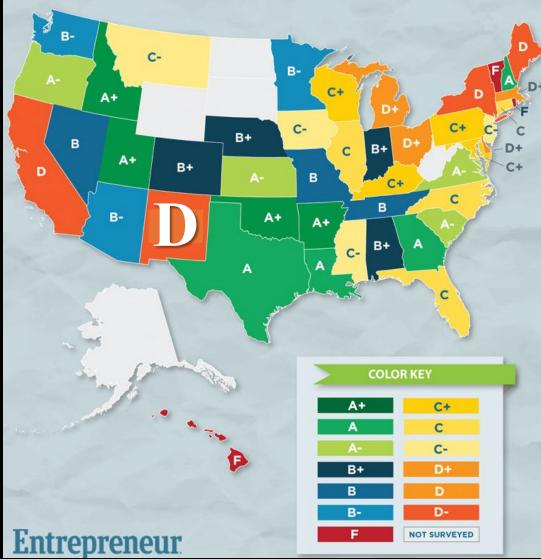
"If you don't like something, change it. If you can't change it, change your attitude."

#2 Texas #3 Utah #9 Colorado #18 Arizona #24 Oklahoma

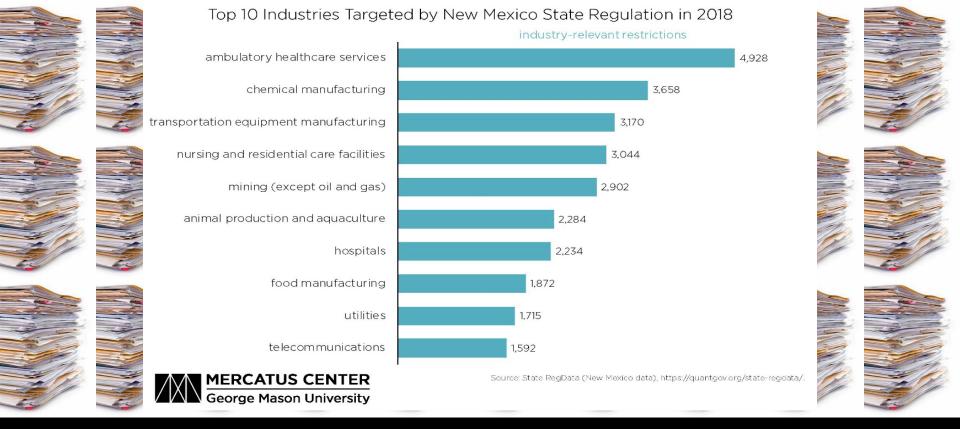


Which State Is Best for Small Business?

When it comes to starting your business, some states make it a lot easier than others. Thanks to a survey of more than 6,000 small-business owners across the country released earlier this year by Thumbtack.com, a local-services listing site, and the Ewing Marion Kauffman Foundation, we now have a better idea of the easiest states in which to launch your startup dreams. The map below highlights how each state ranked.



https://www.forbes.com/best-states-for-business/list/#tab:overall

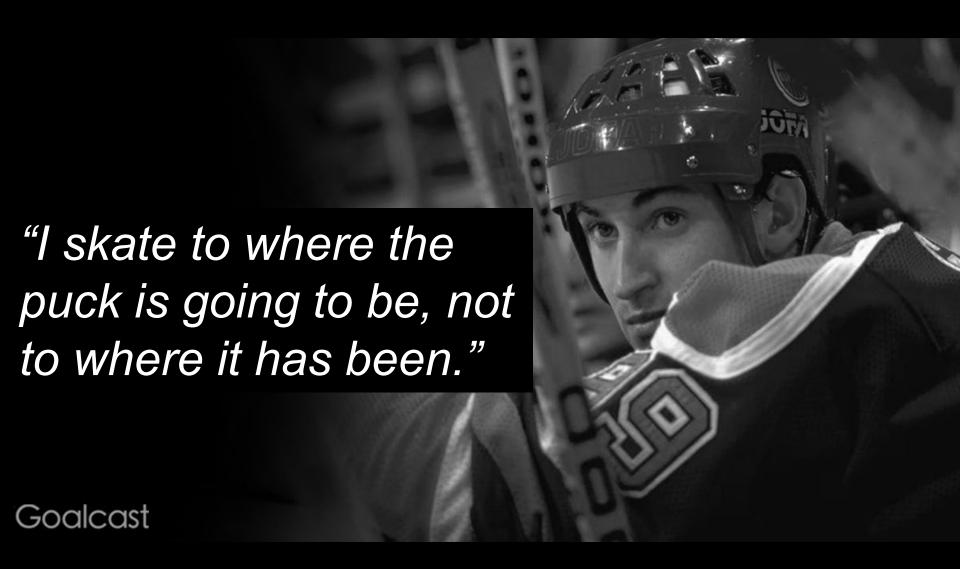


A Snapshot of New Mexico Regulations

125,395 Restrictions, 9.2 Million Words 13 Weeks to Read

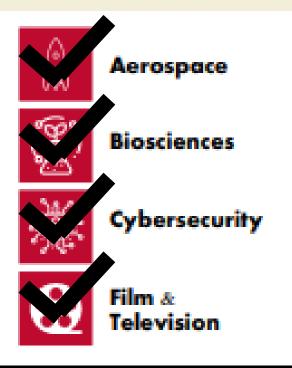
A Snapshot of Arizona Regulations

63,919 Restrictions, 5.6 Million Words 8 Weeks to Read





EMPOWER & COLLABORATE

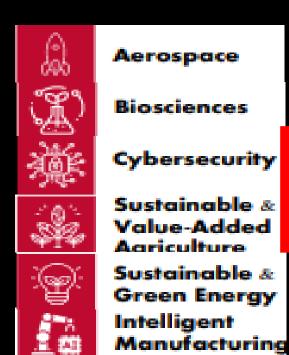


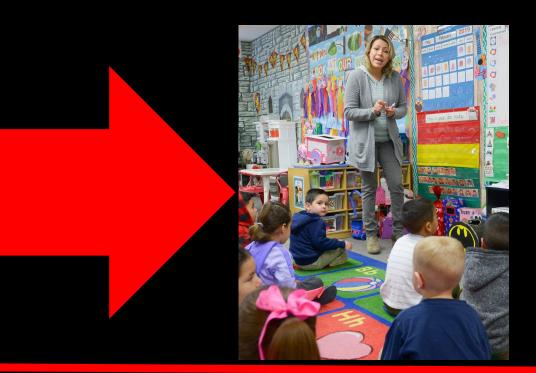






Seven of the TARGET INDUSTRIES requires a robust engineering and STEM professional and technical workforce in order to meet the goals of the State EDD Plan...





EMPOWER & COLLABORATE

Invest in K-12 STEM Education UNM...NMSU...WNMU...ENMU...NMHU

\$60,000,000 per Year for 5-years = \$300,000,000





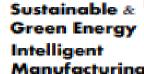
Aerospace

Biosciences

Cybersecurity

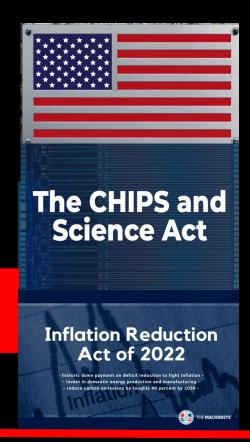


Sustainable & Value-Added Agriculture



EMPOWER & COLLABORATE



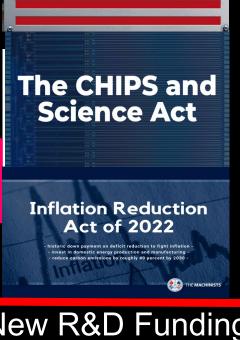


Federal Grants

Invest in Community Colleges Career Technical Education

\$60,000,000 per Year for 5-years=\$300,000,000





New R&D Funding & Grants

Invest in R&D Universities

\$30,000,000 per year per ED Cluster for 5-years = \$900,000,000

"Shoring" up New Mexico's Economy



Aerospace



Biosciences



Cybersecurity



Sustainable & Value-Added Agriculture



Intelligent Manufacturing



Sustainable & Green Energy **Pharmaceuticals**

Medical Equipment/PPE

Aerospace

Microelectronics

Advanced Manufacturing

Rare Earth Minerals

Defense Industrial Base

ReShoring

OnShoring

NearShoring

GreenShoring

GreenOnShoring

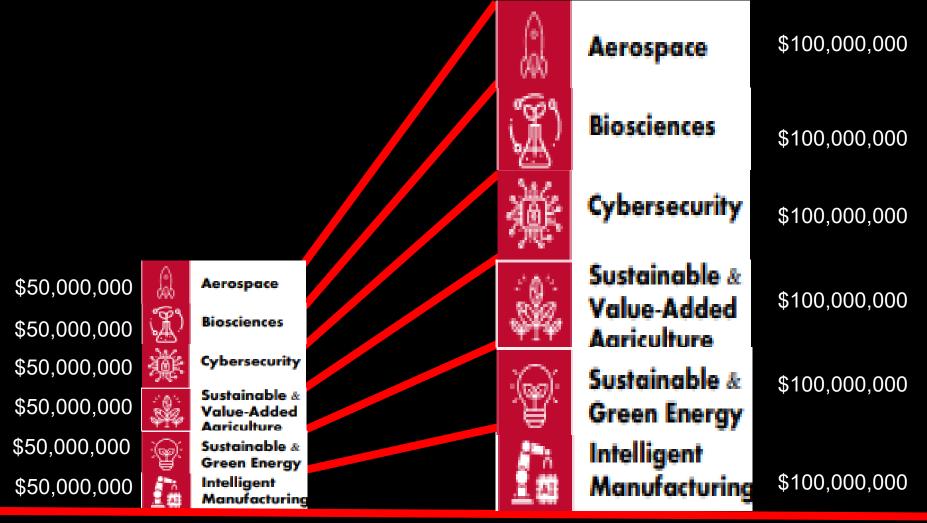
FriendShoring

EMPOWER & COLLABORATE

Critical Infrastructure

\$120,000,000 per year for 5-years

ED Rebate Incentive like Film



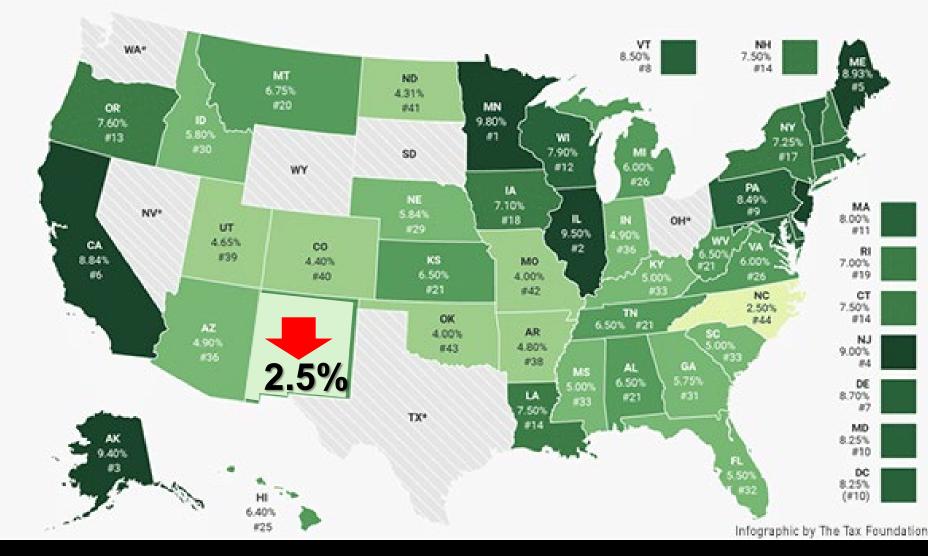
State Investment

Venture Capital-VC

Targeted Co-Investment Funds

Use to Pull Targeted Growth Companies into NM

Top Marginal Corporate Income Tax Rates as of January 1, 2024



2.2% of State FY24 Annual Revenue comes from Corporate Income Taxes

\$265,000,000/\$11,820,000,000



Phase 1:

State Level Funding of \$100 million + Enabling Legislation to Allow for Proactivity and Flexibility

This includes the expansion of a statewide inventory and assessment of the cost to develop property infrastructure to serve highest and best uses for target employment locations, and pre-development costs.

Site Readiness in New Mexico

\$100,000,000



Shoring up New Mexico's Economic Future



New Mexico must develop a comprehensive business plan for the 21st Century...



New Mexico needs to make strategic investments based on a 21st Century plan...NOW



New Mexico needs to focus on creating a more business friendly environment...



New Mexico should develop a bi-national economic development plan with Chihuahua, Mexico



New Mexico must diversify its economy...

By building a strong private sector...



New Mexico must have a sense of URGENCY...
speed is of the essence...



