

OFFICE OF SCIENCE AND TECHNOLOGY

Program Overview

For
EPSCOR



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NM EDD

OFFICE OF SCIENCE AND TECHNOLOGY

- Science & Technology Plan
 - Technology Research Collaborative
 - Office of Economic Adjustment
 - Science and Technology Community
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SCIENCE AND TECHNOLOGY PLAN

Water * Energy * Bioscience* Optics/Photonics

➤ Common themes from Focus Groups:

- Inconsistent policies for transferring technologies from labs and universities to the private sector
- Lack of funds for technology maturation and early stage commercial ventures
- Increase financial incentives for early stage ventures and investments
- Support for existing businesses vs. recruiting
- STEM and workforce development

SCIENCE AND TECHNOLOGY PLAN

- Specific themes from each focus groups:
- Drive university/lab/industry collaborations to support entrepreneurs
 - Build a connected, collaborative statewide community
 - Brand and promote state's assets
- Capitalize on the interdependencies between technology sectors, i.e. energy and water

SYNERGY WITH NM EDD 5-YEAR PLAN STRATEGIES

INNOVATION>ENTERPRISE>ECONOMIC DEVELOPMENT

- Set aside money from a permanent fund to provide matching funds that leverage federal and nonprofit grant programs (NMSBA), including cost-sharing expenses and prototype testing
- Create infrastructure within research institutions, to facilitate the movement of marketable technologies to the private sector

SYNERGY WITH NM EDD 5-YEAR PLAN STRATEGIES

INNOVATION>ENTERPRISE>ECONOMIC DEVELOPMENT

- Create an incentive program targeting serial entrepreneurs and “gazelles”
- Enact a GRT tax deduction for federal contractors and entrepreneurs who commercialize a lab or university technology
- Exempt manufacturing machinery from GRT and sunset the Investment Tax Credit

TECHNOLOGY RESEARCH COLLABORATIVE

- HB 562. Sponsored by Stephanie Richard Garcia
- Purpose:
 - Establish Advanced Technology Centers based on the wealth of scientific and technical talent that exists in the institutions
 - Develop new IP for the state, encourage new opportunities for business and increase jobs
 - Commercialize the IP that is created
 - Create a workforce to support enterprises created

TECHNOLOGY RESEARCH COLLABORATIVE

- Re-instate with a business centric focus.
- Leverage investment and technology maturation funds to invest in business/university/laboratory projects with a strong plan to go to market
- Target an early stage pilot project- demonstrate early win
- Convene board, 4 appointees and university and lab leaders, with draft concept of operations based on goals and lessons learned

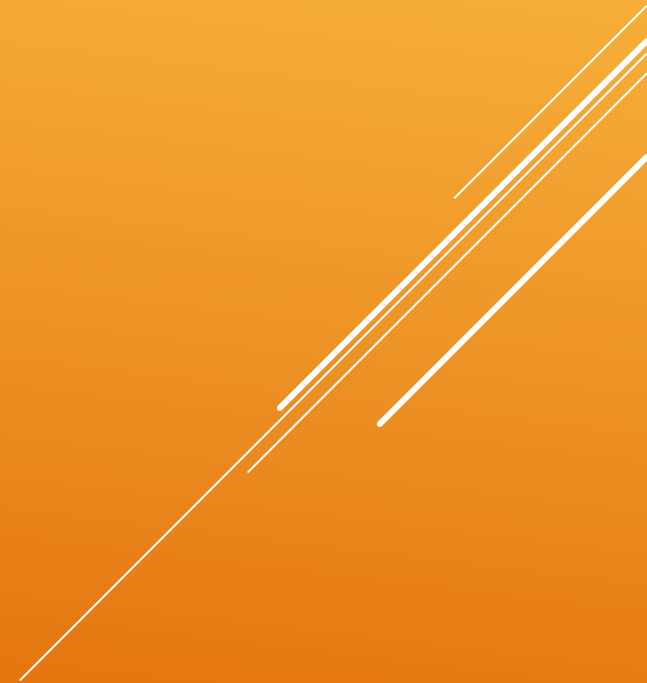
OFFICE OF ECONOMIC ADJUSTMENT (OEA)

- OEA is a Dept. of Defense office to assist state and local government to help communities “adjust” to changes in defense programs
 - Phase 1- assess the impact on New Mexico businesses, identify the assets, develop a plan to assist
 - Phase 2 - implement assistance plan
- Assistance Plan goal will be focused on reducing NM reliance on federal funding...


NEXT STEPS

- DRAFT S & T PLAN – OCT. 2014
- Convene TRC in October 2014
- Office of Economic Adjustment Grant- Anticipated award
1st QTR 2015

BACK UP MATERIAL STRATEGIES FOR EACH SECTOR



BIOSCIENCE STRATEGIES

- ▶ Build a more robust pipeline of bioscience industry experts
 - ▶ Modify JTIP to recruit specialized bioscience talent
 - ▶ Include out-of-state talent (provide other incentives/tax relief to relocate)
 - ▶ Recruit bioscience students (develop a program to secure green cards)
 - ▶ Target bioscience CEOs via tourism
 - ▶ Leverage and build infrastructure to foster innovation
 - ▶ Increase the number of bioscience incubators (UNM Health Sciences Center)
 - ▶ Develop “soft landing” program to recruit global companies to incubators
 - ▶ Build more wet labs
 - ▶ Build entrepreneurial acumen among bioscience experts
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WATER STRATEGIES

- ▶ Create collisions of experts and institutions to facilitate and commercialize ideas
 - ▶ Become the global desalinization experts
 - ▶ Serve the agriculture and extractive industries with efficient water technology and incentives to encourage conservation
- ▶ Leverage national security aspect of water shortage with new mission and collaboration opportunities at LANL, SNL, and research universities
 - ▶ Nuclear (small modular reactions for desalinization)
- ▶ Identify and create a sustainable pipeline of ideas ready for commercialization in the water industry
 - ▶ Cross-pollinate from educational institutions and venture capital community members
- ▶ Create a structure to encourage commercialization of water-related technologies
 - ▶ Catalyze a private/public partnership around desalinization technology to create a sustainable and repeatable technology pipeline
 - ▶ Create a water technology investment strategy committee, accountable with ROI metrics stemming from the selected portfolio

ENERGY STRATEGIES

- ▶ Remove regulatory barriers
 - ▶ Identify and remove conflicting regulations and policies
 - ▶ Reduce barriers for using natural resources
 - ▶ Institute policy to reuse waste stream and offer incentives
- ▶ Catalyze new technology development and innovation
 - ▶ Fund improvements to electric transmission lines
- ▶ Improve funding mechanisms
 - ▶ Develop ROI metrics on state investments
 - ▶ Allocate energy tax funds to reinvest in a targeted portfolio geared towards industry growth and innovation
- ▶ Foster greater industry collaboration and cooperation
 - ▶ Facilitate the collaboration of conventional and renewable energy stakeholders
 - ▶ Build an energy incubator
- ▶ Educate the public to better support the energy industry in terms of building a talent pool pipeline

OPTICS/PHOTONICS STRATEGIES

- ▶ Market CHTM and CINT facilities - usage and capabilities
 - ▶ Streamline CRADA process; create cultural shift to expedite process
 - ▶ Invest in infrastructure – purchase equipment or seek donations from labs – make equipment available for Innovation Center for Photonics
 - ▶ Create database of jobs in optics/photonics – keep talent in New Mexico
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