



Arrowhead Park

Vision:

To Be the Premier Regional Community for Science and Technology

Current Park Metrics

- > 175 Acres, 140 Undeveloped
- ➤ 12 Employers 9 Private, 3 Public
- ➤ 295 Current Employees 56% Health-Tech Industry
- > \$67.8 Million Invested 54% Health-Tech Industry









Successful Clusters

- Components of Successful Cluster
 - We Have All the Critical Elements Here



- > Examples
 - Silicon Valley Electronics
 - ➤ Boston Life Sciences / Digital Health
 - ➤ San Diego Life Sciences
 - ➤ Boulder Software / IT









Arrowhead Park Cluster History

A Growing Foundation.....

- NMSU has 43 Life Science-related programs, > \$40 M Research
- Initial tech startup Genetic Testing Lab 2001
 - > 13 Startup / Stage 1 companies currently at Arrowhead Center
- Arrowhead Park Medical Academy Opened 2014
- Burrell College of Osteopathic Medicine Opens August 8
- General Genetics Corp. failed in 2015
 - Five new companies formed from its investors / employees
- > 170 Health-Tech Cluster Jobs; \$36.5 Million Capital Investment
- > Average Park "Health-Tech" wage estimated at \$69,000
 - > \$11.7 million direct economic impact





2015 Regional Innovation Strategies Award - \$488,000

- Research Park Grant for Expansion of Health-Tech Cluster
- > One of Only 12 Nationally
- Focus on Park Infrastructure and Programmatic Evolution
 - Creation of master development plan for Arrowhead Park
 - > FHWA Authorization for I-10 Interchange into Arrowhead Park
 - > Stakeholder engagement on academics, research, technology
 - > Roundtables , collaborations, social events
 - > 15 month growth from 13 stakeholders to 48



Keys to Cluster Innovation / Growth

Relationships / Organic Collaborations

- Burrell College of Osteopathic Medicine / Silicon Mesa
- ➤ TenFour Analytics, Burrell Institute for Research
- Private Forensic DNA Lab Collaboration
- InetMedRx2 / Rural Telemedicine Initiative
- Virgin Galactic, DACC Creative Media Technology

Significant Place — Creation & Recognition

- > A Significant "Cross-Roads" for Education, Technology, and Innovation
- Programs centered on the physical, cultural, and social identities that define the cluster and support its ongoing evolution





- Full Spectrum of Workforce Education
 - Arrowhead Park Medical Academy
 - > DACC Nursing / Healthcare Technician Programs
 - NMSU Nursing, Kinesiology, Biology, Engineering, Pre-Med Programs
 - Burrell College of Osteopathic Medicine
- Internships, Student Work Opportunities
- > Arrowhead Center
 - Entrepreneurship Training / Business Incubation
 - > Technology Development Resources



- A Growing List of Resources and Startup Financing
 - Arrowhead Technology Incubator
 - Small Business Administration FAST Program SBIR/STTR
 - StudioG Student Business Incubator
 - Local / Regional / National Mentors
 - > Arrowhead Innovation Fund
 - > "Launch" Technology Commercialization
 - Aggie Shark Tank
 - Creative Media / Virtual Reality / Big Data Expertise & Resources
 - Educational Games Lab









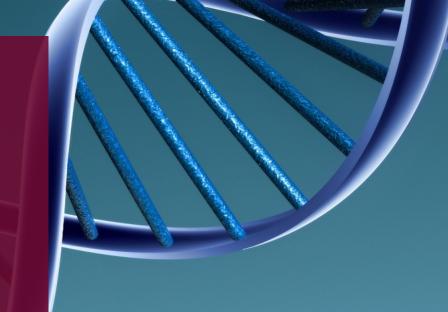
- Recent Roundtable Event Cluster's 3rd
 - ➤ 40 Attendees.....Strong Regional Representation
 - Cluster Implementation Report Tripp Umbach
- Regional Life Sciences Industry Development Task Force
- International Engagement and Cooperation
- Cluster Growth Effects
 - Five New Resident Companies in Last Year
 - > Increase in Invention Disclosures
 - Collaboration Activities Increasing



Cluster Startups / Technologies

A Partial Current Listing......

- VR-based Pain Management
- Oxygen Delivery Hydro-Filter
- > Telemedicine for Rural NM Medicine/Mexico
- > DNA Lab Management Software...International Sales
- Non-Invasive Concussion Detection Device
- ➤ Non-Invasive Glucose Detection
- Decision Support Software for Medicare/Medicaid Enrollment
- > Implantable Electric Bone Growth Stimulator
- Mosquito Repellent Band (24 hr)







Next Steps - Programmatic

- Intensify Regional Efforts to grow Health Tech Cluster
 - > Technical, Informational, Social Events
 - Encourage and Facilitate Research Collaborations
 - Promotion and Marketing as Center of Excellence for H-T
- Develop Unique Aspects of Cluster
 - Rural and Border Needs Healthcare Data, Diagnostics, Education
 - Innovate Around Creative Campus Technologies
 - Virtual / Augmented Reality, BioInformatics, Video & Game Development
 - Spaceport / Aerospace / UAV Cluster Interactions
- Grow Seed / Gap Funding Sources and Connections

