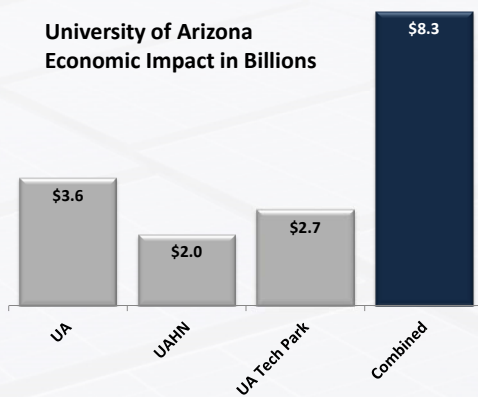


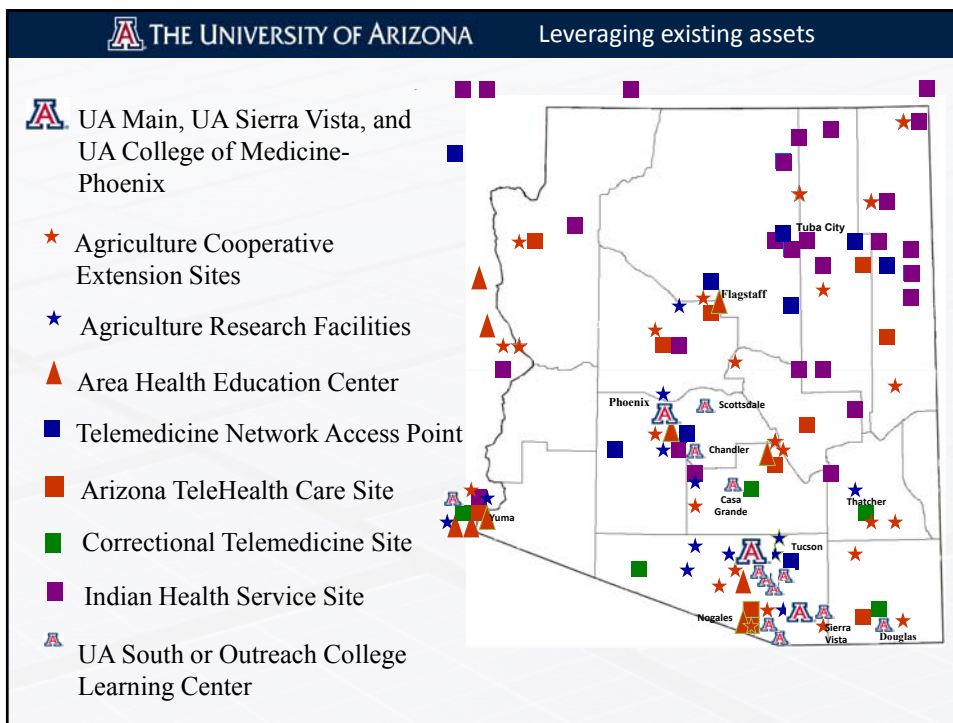
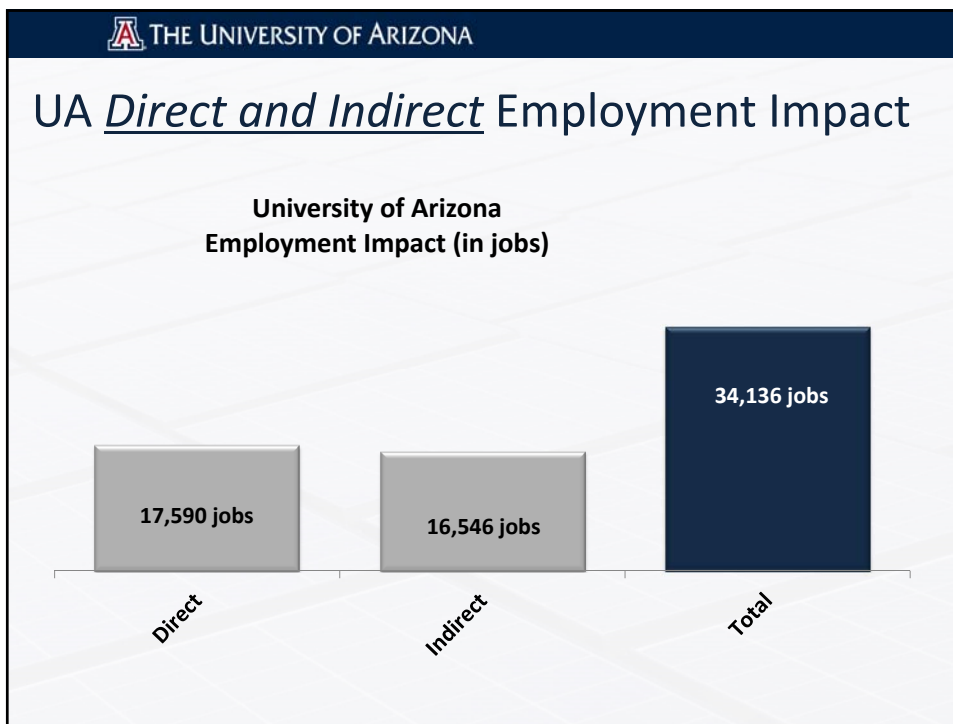
## Leveraging Knowledge for Arizona's Economy



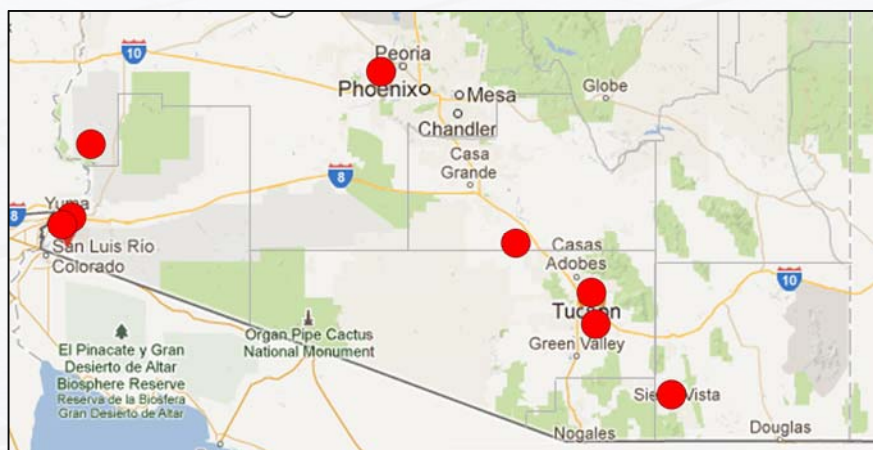
UA Total Economic Impact:  
\$8.3 Billion Per Year



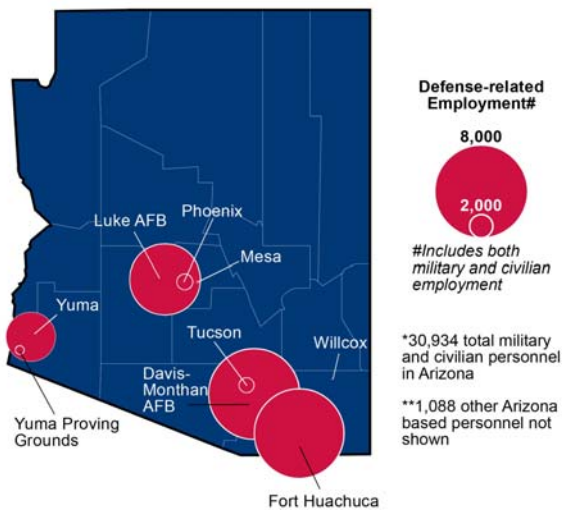
\$8.3 billion is  
generated through  
direct and indirect  
economic impact



## Southern Arizona Military and Related Installations



Department of Defense Military and Civilian Personnel based in Arizona (September 2009)



Source: US Office of Personnel Management

Defense Contracts in Arizona  
(from top fifteen contracts, private industry only)

Statewide – \$10,829,410,196

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Maricopa County - \$4,385,394,239

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Southern Arizona – \$6,308,869,080

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- **1,200 aerospace and defense supply chain companies**
- **\$15 billion in A&D revenues in 2011**
- **150,000 direct and indirect jobs**
- **Among the top priorities for Arizona's top three economic development organizations**
  - **ACA: Aerospace and Defense**
  - **GPEC: Aerospace and Aviation**
  - **TREO: Aviation and Aerospace**

### UA Strengths in Aerospace/Defense/Homeland Security

- Cyber Security
- Anti-terrorism Systems
- Fluid Dynamics
- Aerodynamics
- Energy and Fuel Efficiency
- New Materials
- Modeling and Simulation
- Artificial Intelligence/Machine Learning
- Computational Linguistics



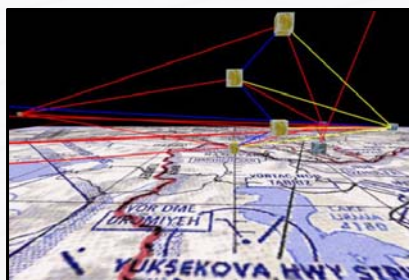
### Top Military Funding Agencies for UA Fiscal Year 2012

Agency	\$ Awarded
Air Force Office of Scientific Research	\$ 6,977,960
Office of Naval Research	\$ 3,583,022
Naval Air Warfare Center Aircraft Division	\$ 2,054,230
Department of Homeland Security	\$ 1,752,273
Space and Naval Warfare Systems Control	\$ 1,530,341
U.S. Army Research, Development and Engineering Command	\$ 1,359,761
Air Force Research Laboratory	\$ 910,998
Defense Advanced Research Projects Agency	\$ 910,336

## Modeling Warspace Behavior

UA Professor Jerzy Rozenblit

- Army awarded \$2 million to fund phase one of the **Asymmetric Threat Response and Analysis Project (ATRAP)**
- Enables intelligence analysts to build three-dimensional maps of interactions between conflicting groups
- Aids commanders in devising strategies for stabilizing areas before, during and after conflicts



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# BUSINESS

## Tech Park aims to be border lab

Would do evaluation, testing for cutting-edge security systems

By Tom Basil  
ARIZONA DAILY STAR

The University of Arizona's Science and Technology Park hopes to parlay its partnership with the U.S. arm of an international defense systems giant into a role as a testing and evaluation center for border security technologies.

DRS Technologies Inc. has set up a test laboratory at UA Tech Park where it can take advantage of the area's climate and terrain and the engineering and scientific expertise at the UA, said Richard S. Danforth, president of its Integrated Defense Systems and Services Group.

On Tech Park's land just south of Interstate 10, it has built a prototype of the border surveillance towers it hopes to sell to the Department of Homeland Security. It hopes to win a competition with other large defense contractors to build 50 of the towers along the

## Sanofi

- Selectide formed by UA faculty researchers in 1990. Sold in 1995 for \$53M. Became part of Sanofi (a French-based multinational pharmaceutical company) in 2004
- UA-developed sophisticated computer modeling screens millions of molecules per month



## Roche

- Ventana Medical Systems, a tissue-based cancer diagnostic lab, founded in 1985 by UA professor Dr. Thomas Grogan
- Acquired by Roche Group in 2008
- Fortune Magazine's 100 fastest growing companies 2003/BusinessWeek's 100 Hottest Growth Companies 2005
- Oro Valley campus has 1,500 employees and occupies 360,000 sq. ft.



*"Our commitment to cancer patients is global. Cancer knows no boundaries, and our resolve to fight it is limitless."*

Mara G. Aspinall  
President, Ventana Medical  
Systems, Inc.  
Head, Roche Tissue Diagnostics