

Redstone Arsenal (SETWAS) Project

**Department of Defense
2008 African American History Month Observance
and Outreach Program
DoD/HBCU Leadership Symposium
Tuesday, February 26, 2008**

Redstone Arsenal (Science Engineering Technology and Workforce for America's Security - SETWAS) Project

**Briefing Presented at
Fayetteville State University,
Fayetteville NC**

By

Dr. James A. Fabunmi



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Challenge

- **Increased competition for local technical talent**

- 5,000 DoD technical jobs moving to Huntsville by 2012
- NASA's new space vehicle development in Huntsville

Our policymakers need to acknowledge that the nation's apathy toward developing a scientifically and technologically trained workforce is the equivalent of intellectual and industrial disarmament and is a direct threat to our nation's ability to survive.

The Final Report of the President's Commission on the Future of the United States Aerospace Industry, Recommendation 8, November 18, 2002

- **Most U.S. Aerospace workers over age 45 will leave the field in next six years**

- Over 6 million aerospace jobs will open up with no US Citizens being trained to fill them

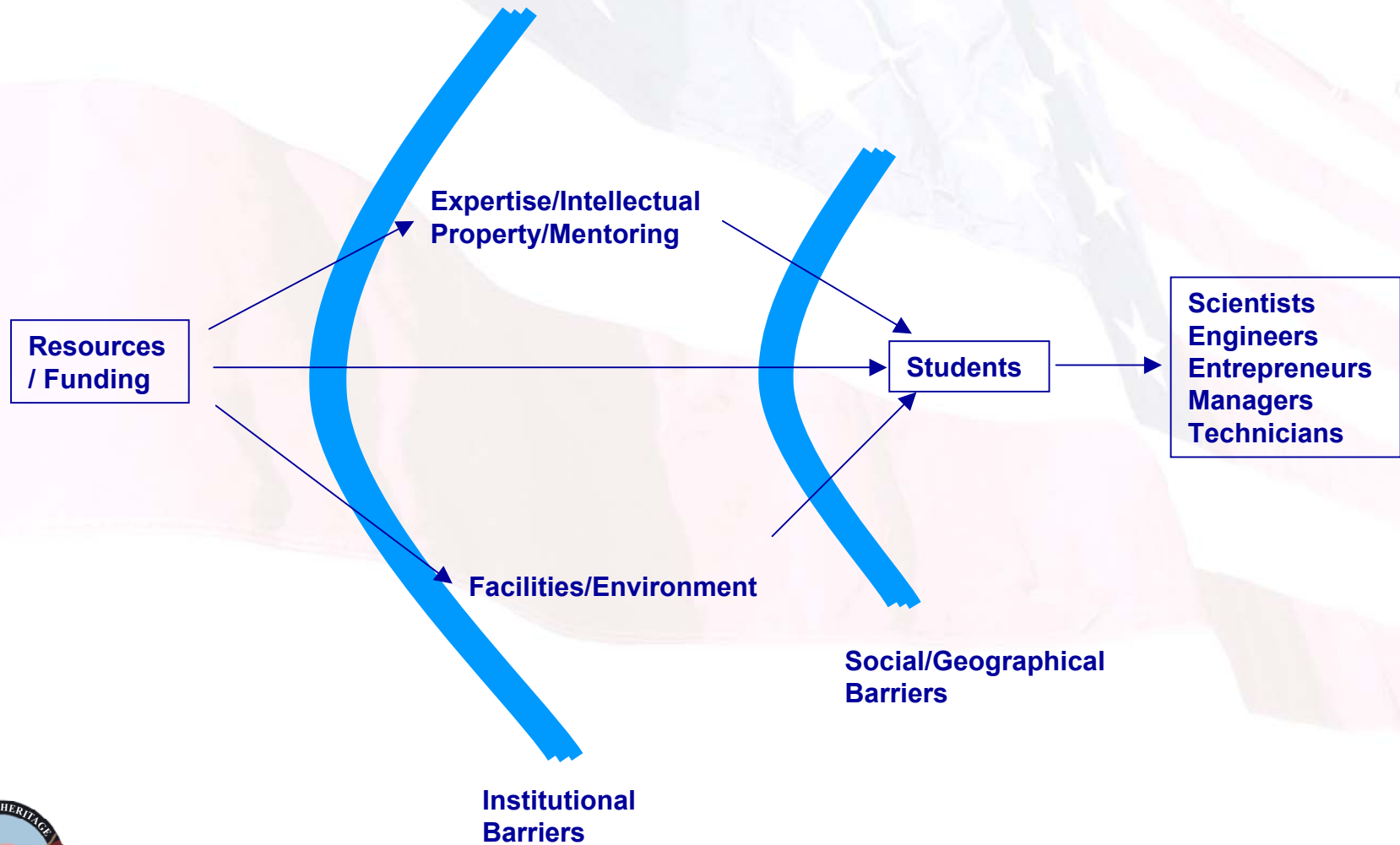
- **Next generation of Scientists and Engineers?**

- Aerospace engineering degrees to U.S. citizens dropping
 - Number of degrees cut in half from 1991 to 2000
 - Numbers continuing to decline
- In 2000 the U.S.
 - Graduated 80,000 engineers and computer scientists
 - Imported 90,000 engineers and computer scientists

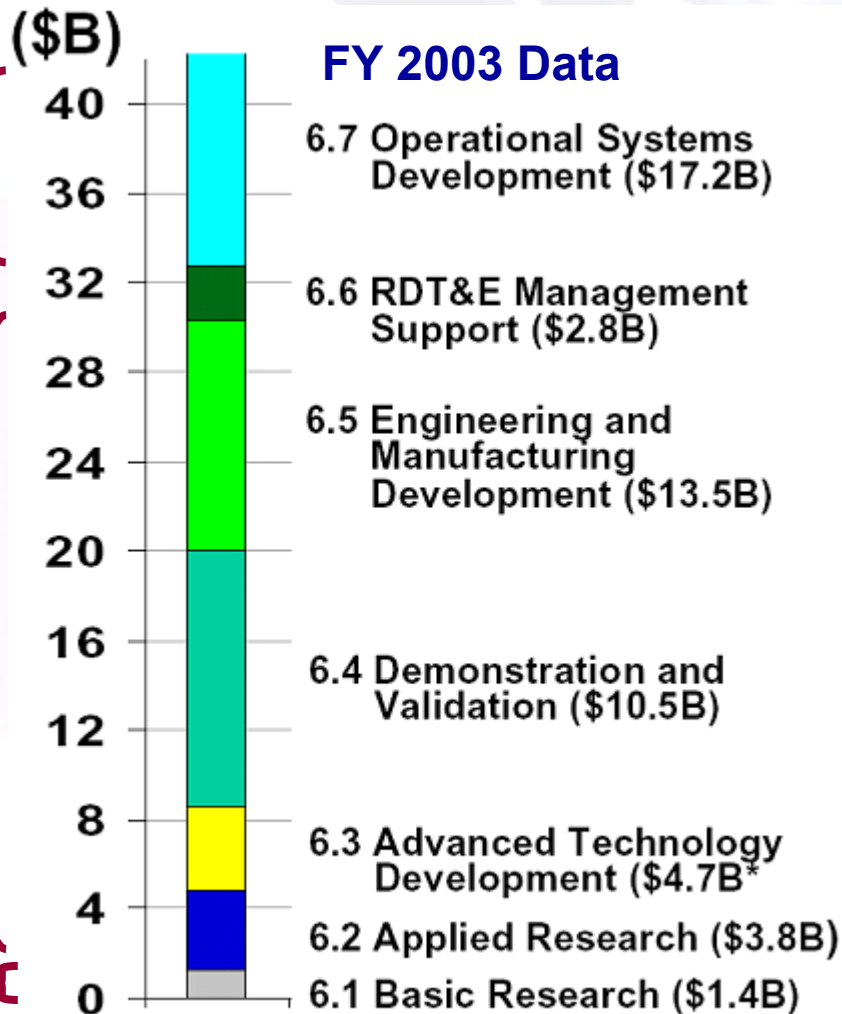


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Bridges to Diversity



Typical DOD RDT&E Investment Profile



•At the present time, mainly 6.1 RDT&E programs are coupled directly with Academia

•This coupling alone does not do enough to prepare engineers and scientists with adequate exposure to the entire RDT&E expertise range

•Military systems developed only at the 6.1 level remain undeployed due to lack of 6.2-6.7 RDT&E expertise in the workforce

•Academic institutions impacted by 6.2-6.7 RDT&E investments produce top grade SE&T graduates

•Proposed strategic plan will expand the base of academic institutions impacted by 6.2-6.7 RDT&E investments so that more and better trained SE&T workforce is developed for the nation's defense.

Institutions Impacted by 6.2-6.7 Investments Produce Top Grade SE&T Graduates

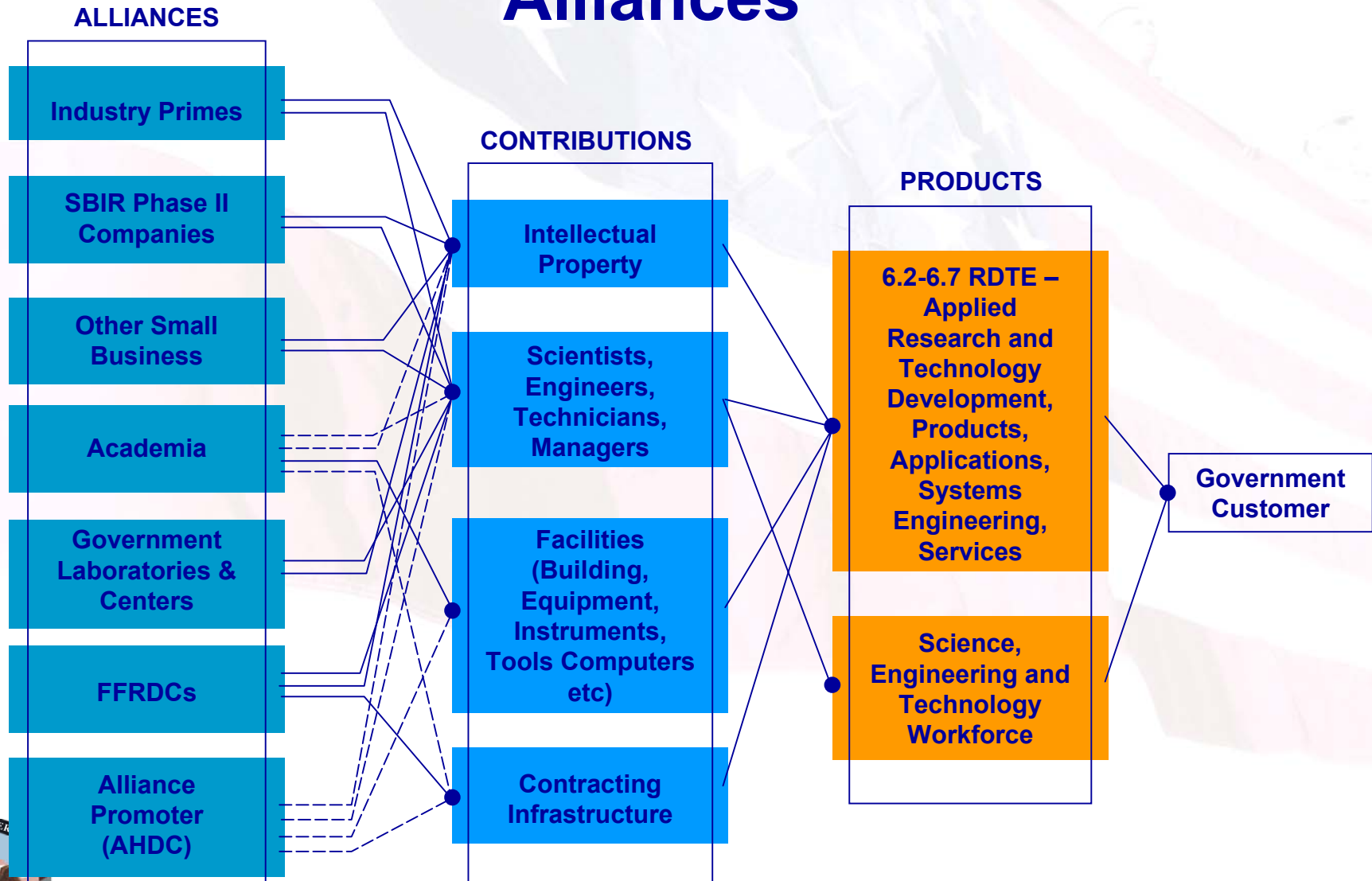


Consortium Focus

Traditional University Programs

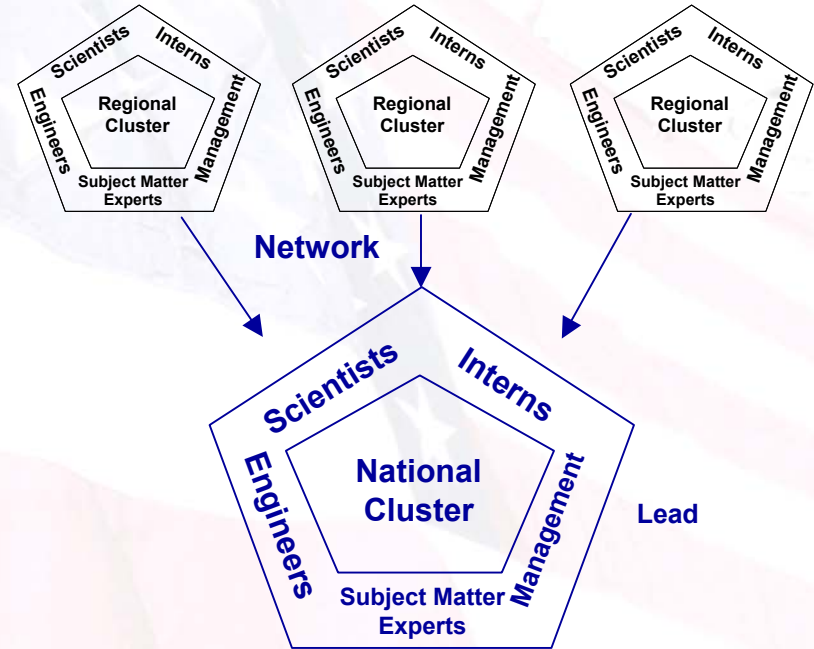
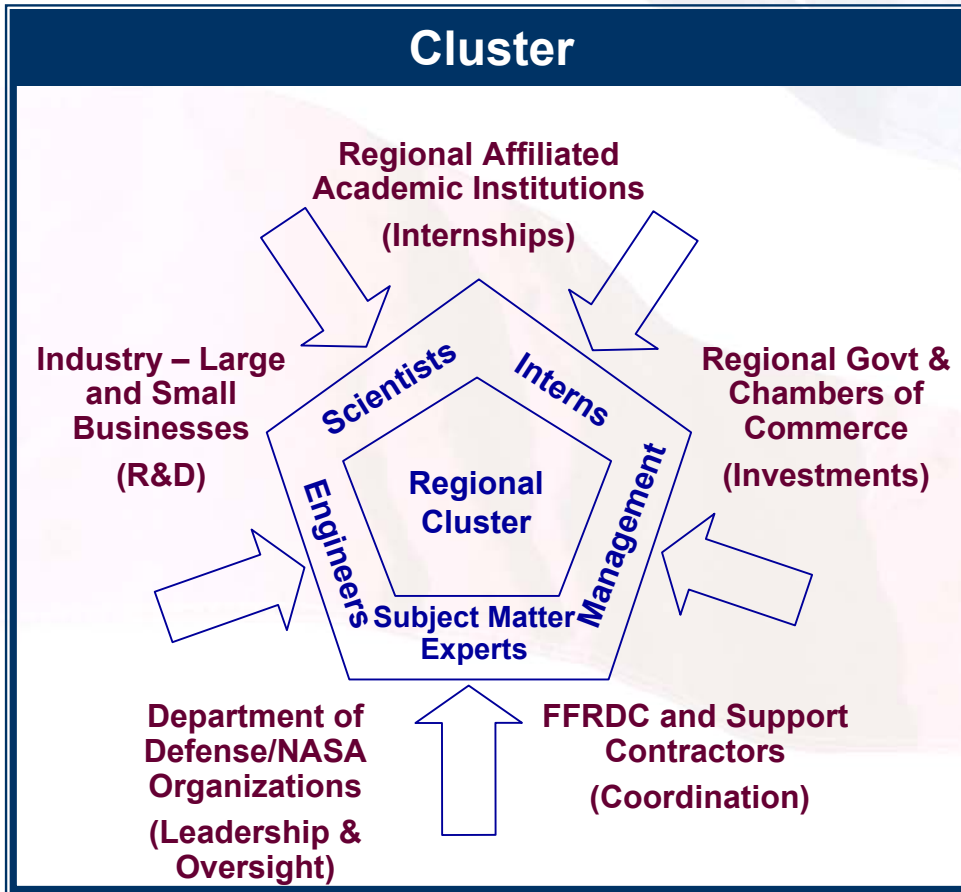
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Alliances



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Proposed Approach (National)

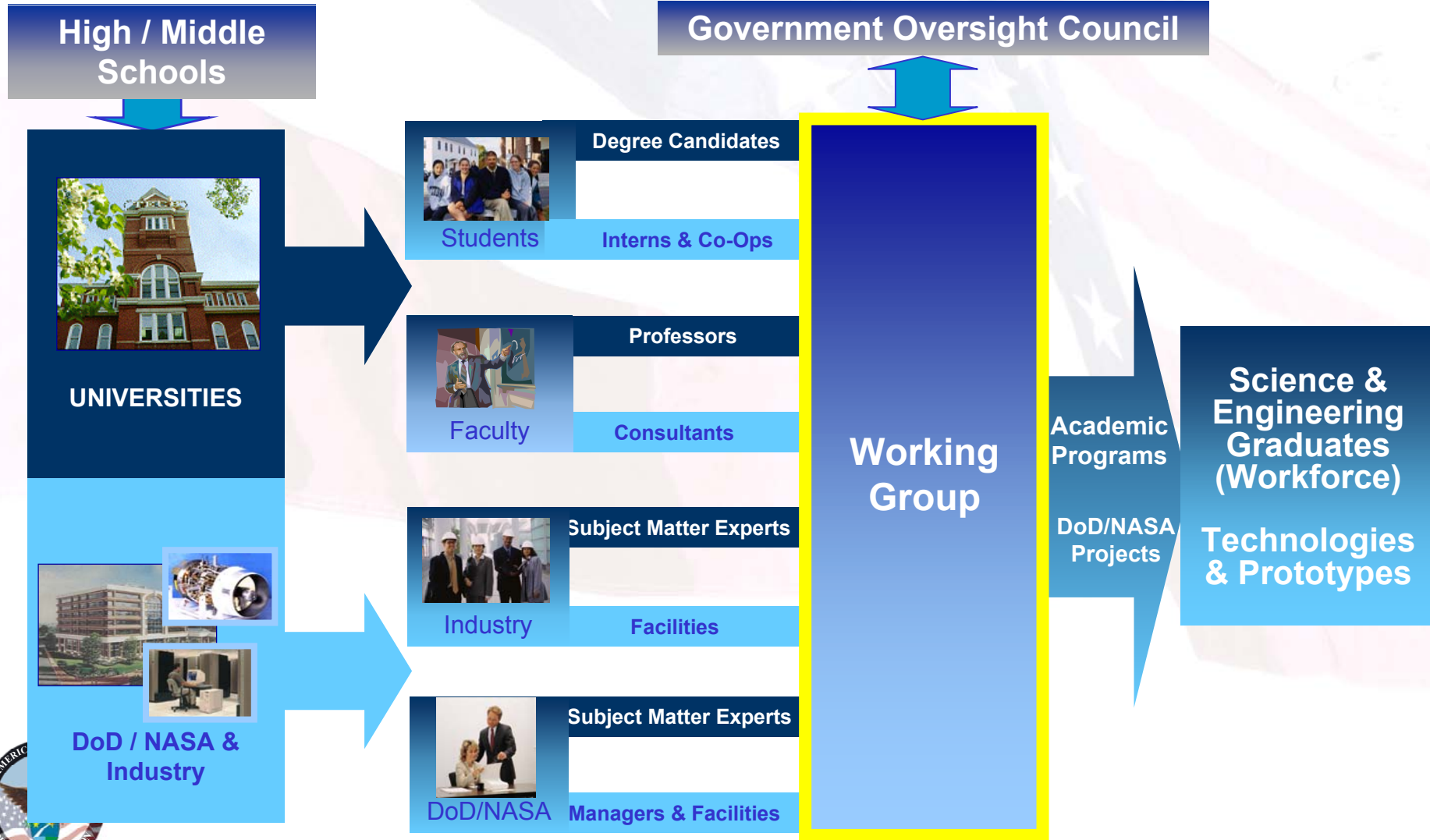


- Focus Regional Clusters on RDT&E; site facilities at alliance academia.
- Network Regional Clusters into National Cluster.
- Steer best and brightest scientists and engineers to replenish workforce
- Expand pipeline for production of US Citizen scientists and engineers

Establish Cluster of Government, Industry & Academia R&D Infrastructure

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University Consortium Partnership



Government Agencies Oversight Council

- **USASMDC**
- **AMCOM**
- **AMRDEC**
- **PEO Missiles & Space**
- **PEO Aviation**
- **Redstone Arsenal Garrison**
- **NASA**
- **MDA**



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Congressional Support

Senator Daniel K. Inouye (D-HI),
is Chairman of Senate
Subcommittee on Defense
Appropriations.



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American Heritage Defense Corporation (AHDC) - Proprietary

DANIEL K. INOUE
HAWAII

APPROPRIATIONS
Subcommittee on Defense—Ranking Member

COMMERCE
Subcommittee on Surface Transportation and
Merchant Marine—Ranking Member

COMMITTEE ON INDIAN AFFAIRS
DEMOCRATIC STEERING AND COORDINATION
COMMITTEE

COMMITTEE ON RULES AND ADMINISTRATION

United States Senate

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LtGen Larry J. Dodgen, USA
Commanding General
USASMDC/ARSTRAT
P. O. Box 15280
Arlington, Virginia 22215-0280

Dear General Dodgen:

The challenges of Joint Warfighter Interoperability will require both the development of effective systems and the training of innovative and competent engineers and scientists to research, design, produce, and operate these systems properly. At the present time, our country trains only about half of the engineers and scientists that it needs and imports the rest. For a number of years, I have lent my support to innovative proposals that seek to address the issues of replenishing the Scientific, Engineering and Technological Workforce for America's Security (SETWAS). Innovative and practical approaches have been proposed by the American Heritage Defense Corporation (AHDC), a dedicated, not-for-profit, Federally Funded Research and Development Corporation (FFRDC). These initiatives, in my view, merit support from the Department of Defense.

I am informed that a White Paper to set up a Joint Institute for Systems Interoperability (JISIS), which combines the two important goals of replenishing the science, engineering and technology workforce, and that of expediting Joint Warfighter Interoperability, is scheduled to be presented to you by Dr. James Fabunmi, President and CEO of AHDC. I would appreciate your consideration of the merits of this proposal, and advise me of any suggestions or legislation necessary to implement the provisions of Dr. Fabunmi's proposal.

Thank you for your cooperation.

Aloha,

DANIEL K. INOUE
United States Senator

DKI:fkw
Enclosure