

TRIF PROGRAM



NORTHERN
ARIZONA
UNIVERSITY

September 1, 2009

THE NORTHERN ARIZONA UNIVERSITY TRIF PROGRAM

In the first 8 years of TRIF funding, from FY 2002 to FY 2009, Northern Arizona University made significant strides in all areas funded.

Two of our eight projects, Growing Biotechnology Infrastructure (GBI) and Education and Research for the New Economy (ERDENE), together represent progress in environmental issues, policies, and biotechnology all of which are areas of concern to Arizona's policymakers and citizens.

Another three projects, Access & Workforce Development (AWD), e-Learning, and the Arizona Universities Network (AZUN) together have resulted in substantial expansion in educational opportunities to the state's time and place bound students, involvement of Flagstaff based faculty in web course development, and improvement in technology enhanced instruction. AZUN, from its statewide perspective, particularly combines areas of strength within each of the state universities to make available unique programs that represent multi-university efforts and capabilities.

The remaining projects, University Initiatives, Healthcare Program Expansion, Statewide Expansion, NAU-Yuma Expansion and Building Healthy Forest have allowed Northern Arizona University to invest in facilities and projects related that would not have otherwise been possible. ABOR and the university can take pride in the contributions TRIF funds have made to the High Country Conference Center, the Applied Research and Development building and the Laboratory Science building. Using TRIF funds, NAU is fulfilling its promise to expand health care programming and the university has been able to create an anchor facility in North Phoenix as well as investing to help NAU-Yuma achieve its considerable progress. Through the Healthy Forest Initiative, NAU has helped advance partnerships and knowledge with regard to forest restoration..

More detail about all of these initiatives can be found in the individual project brochures. NAU is grateful to the Arizona Board of Regents for its support, and will continue to work hard to make the best use possible of TRIF funds allocated to it.

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*Dr. John Haeger, President
Northern Arizona University*

PERFORMANCE ANALYSIS

GBI / ERDENE		FY 02 Act	FY 03 Act	FY 04 Act	FY 05 Act	FY 06 Act	FY 07 Act	FY 08 Proj	FY08 Act	FY 09 Proj	FY09 Act	FY 10 Proj	FY 11 Proj
ROI	Leveraged dollars (\$M)	\$7.90	\$11.30	\$11.00	\$15.20	\$8.90	\$14.90	\$8.10	\$15.20	\$8.90	\$15.60	\$10.10	\$10.90
	ROI ratio	4.20 : 1	4.56 : 1	3.72 : 1	5.71 : 1	3.28 : 1	5.1 : 1	2.91 : 1	6.1:1	3.19 : 1	8.2:1	3.63 : 1	3.91 : 1
Publications / Conferences	Conferences Sponsored	14	19	21	28	26	21	5	42	10	2	15	20
	Presentations/ Publications	133	180	197	373	166	286	180	3137 (inc. web accesses)	190	126	210	220
Tech Transfer	Patent Applications/Patents Generated	2	2	2	1	3	2	3	5	4	2	5	6
	Products Generated and in the Marketplace	0	5	49	8	13	5	5	4	7	0	10	12
Economic Development	Business Expansions/Spinoffs/ Creations	3	3	7	21	10	5	3	10	5	0	7	11
Workforce Contributions	Graduate/Postdoc Students Trained	116	149	162	60	67	58	82	137	85	61	93	100
	Undergrad Students Trained	106	205	106	93	135	119	135	175	160	57	175	195
	Continuing Education Professionals	85	312	1361	142	274	42	132	142	142	29	152	162
Specific Collaborations	Government/University collaborations	81	209	175	240	238	229	125	225	135	50	147	162
Access and Workforce Development / e-Learning		FY 02 Act	FY 03 Act	FY 04 Act	FY 05 Act	FY 06 Act	FY 07 Act	FY 08 Proj	FY08 Act	FY 09 Proj	FY09 Act	FY 10 Proj	FY 11 Proj
New Students Served	New Teachers	250	542	807	679	773	804	700	1019	750	1,058	750	750
	Nurses/Health Professionals	120	266	414	464	540	721	500	640	500	680	600	600
	Business/Non-Profit Managers	44	182	303	442	528	673	400	725	450	816	450	500
	Number Degree/Certificate Programs	11	19	37	41	41	41	42	41	44	41	46	48
Enhanced Courses Developed	Web-IT/Enhanced Courses Developed	125	101	121	141	22	80	95	67	90	78	85	80
	Number Faculty Participating Web Development	150	117	155	126	241	325	225	210	250	397 [c]	300	350
Student Course Involvement	Student Enrollments In Online Courses	7,110	9,476	10,133	12,381	14116	20,526	12,750	31,568	13,000	35,637 [d]	13,500	14,000
Partnerships	Number K-12 Partners (Schools/Districts)	30	51	119	127	127	127	125	126	130	125	135	140
	Higher Education Partnerships	17	19	20	20	22	22	20	23	20	3	20	20
	Private Sector Partnerships	2	21	42	77	80	80	54	85	57	89	60	62
Technology Transfer	Courses/Modules Sold/Brokered	0	5	0	0	0	0	1	0	1	0	1	1

PERFORMANCE ANALYSIS

In addition to the Initiative successes described on page 1 and 2 of this brochure, Northern Arizona University takes particular pride in its achievements in the area of health care education. Funds from TRIF combined with funds allocated by the Arizona Legislature are allowing NAU to make significant strides in expanding health care education opportunities to citizens throughout Arizona and preparation for offering programs currently not available at any Arizona public institution. Please see our "Expanding Health Care" brochure for more information.

FINANCIAL INFORMATION

	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
GB/VERDE	Carryforward	\$0	\$538,756	\$734,337	\$497,302	\$830,232	\$1,008,633	\$915,237	\$828,245	\$775,696	\$0
	New TRIF Revenue	\$2,417,502	\$2,674,544	\$2,498,906	\$2,745,600	\$2,888,423	\$2,790,824	\$2,362,672	\$1,958,067	\$1,833,919	\$1,830,600
	TOTAL REV	\$2,417,502	\$3,213,300	\$3,233,243	\$3,242,902	\$3,718,655	\$3,799,457	\$3,277,909	\$2,786,312	\$2,609,615	\$1,830,600
	Personal Services	\$1,278,627	\$1,637,980	\$2,132,447	\$2,335,730	\$1,770,725	\$2,418,854	\$1,645,775	\$1,377,285	\$2,322,596	\$1,607,791
	Other Operating	\$600,119	\$840,983	\$827,573	\$368,742	\$939,297	\$465,365	\$803,889	\$633,331	\$287,019	\$222,809
TOTAL EXP	\$1,878,746	\$2,478,963	\$2,960,020	\$2,704,472	\$2,710,022	\$2,884,219	\$2,449,664	\$2,010,616	\$2,609,615	\$1,830,600	
AWD/E-LEARNING	Carryforward	\$0	\$2,164,798	\$2,711,282	\$2,263,265	\$2,776,537	\$1,680,175	\$1,050,709	\$418,276	\$469,003	\$0
	New TRIF Revenue	\$5,135,129	\$4,878,299	\$5,662,818	\$4,927,273	\$5,183,586	\$6,969,025	\$4,722,466	\$3,767,859	\$3,528,964	\$3,522,577
	TOTAL REV	\$5,135,129	\$7,043,097	\$8,374,100	\$7,190,538	\$7,960,123	\$8,649,200	\$5,773,175	\$4,186,135	\$3,997,967	\$3,522,577
	Personal Services	\$2,326,003	\$3,412,531	\$4,069,277	\$4,011,236	\$4,150,863	\$4,703,165	\$4,378,114	\$3,313,321	\$3,524,051	\$3,317,033
	Other Operating	\$644,328	\$919,284	\$1,836,743	\$942,881	\$2,129,085	\$823,835	\$976,785	\$403,810	\$473,916	\$205,544
	Debt Service	\$0	\$0	\$0	\$0	\$0	\$2,071,491	\$0	\$0	\$0	\$0
TOTAL EXP	\$2,970,331	\$4,331,815	\$5,906,020	\$4,954,117	\$6,279,948	\$7,598,491	\$5,354,899	\$3,717,132	\$3,997,967	\$3,522,577	
UNIVERSITY INITIATIVES AND CAPITAL	Carry Forward	\$0	\$206,744	\$664,608	\$1,674,629	\$3,054,612	\$5,159,771	\$120,491	\$2,591,491	\$2,932,523	\$0
	New TRIF Revenue	\$298,203	\$590,810	\$938,517	\$2,552,961	\$1,764,371	\$690,001	\$3,239,528	\$2,833,714	\$2,654,048	\$2,649,246
	TOTAL REV	\$298,203	\$797,554	\$1,603,125	\$4,227,590	\$4,818,983	\$5,849,772	\$3,360,019	\$5,425,205	\$5,586,571	\$2,649,246
	Personal Services	\$36,174	\$72,666	\$62,927	\$266,070	\$340,462	\$153,992	\$219,028	\$428,828	\$345,519	\$364,523
	Operating	\$55,285	\$60,280	\$17,761	\$188,050	-\$681,250	\$483,950	\$90,491	\$559,930	\$3,637,666	\$684,238
	Conference Center	\$0	\$0	\$0	\$0	\$0	\$2,000,000	\$162,830	\$0	\$0	\$0
	Debt Service	\$0	\$0	\$0	\$0	\$0	\$3,091,339	\$296,179	\$1,503,924	\$1,603,386	\$1,600,485
TOTAL EXP	\$91,459	\$132,946	\$80,688	\$454,120	-\$340,788	\$5,729,281	\$768,528	\$2,492,682	\$5,586,571	\$2,649,246	
HEALTHCARE AND STATEWIDE EXPANSION	Carry Forward					\$0	\$2,299,998	\$3,897,233	\$2,703,507	\$1,760,022	\$0
	New TRIF Revenue					\$2,299,998	\$2,020,412	\$1,991,194	\$1,652,526	\$1,547,750	\$1,544,948
	TOTAL REV					\$2,299,998	\$4,320,410	\$5,888,427	\$4,356,033	\$3,307,772	\$1,544,948
	Personal Services					\$0	\$0	\$914,583	\$1,305,631	\$1,283,600	\$566,005
	Operating					\$0	\$423,177	\$2,270,337	\$1,290,380	\$2,024,172	\$978,943
TOTAL EXP					\$0	\$423,177	\$3,184,920	\$2,596,011	\$3,307,772	\$1,544,948	
TSI -- YUMA/HEALTHY FORESTS	Carry Forward						\$1,264,210	\$1,500,000	\$1,049,277	\$0	
	New TRIF Revenue						\$735,790	\$274,169	\$293,469	\$292,938	
	TOTAL REV						\$2,000,000	\$1,774,169	\$1,342,746	\$292,938	
	Personal Services						\$0	\$699,048	\$1,201,190	\$280,000	
	Operating						\$0	\$25,844	\$141,556	\$12,938	
Debt Svc/Build-out						\$500,000	\$0	\$0	\$0		
TOTAL EXP						\$500,000	\$724,892	\$1,342,746	\$292,938		
AZUN	Carry Forward				\$1,615,559	\$2,534,652	\$3,115,813	\$2,938,105	\$2,313,450	\$1,453,353	\$32,810
	New TRIF Revenue				\$1,228,962	\$2,034,906	\$2,142,705	\$2,108,279	\$1,770,777	\$1,658,504	\$1,655,502
	TOTAL REV				\$2,844,521	\$4,569,558	\$5,258,518	\$5,046,384	\$4,084,227	\$3,111,857	\$1,688,312
	Personal Services				\$2,983	\$344,531	\$957,851	\$1,195,755	\$1,252,125	\$1,381,102	\$712,025
	All Other Operating				\$306,886	\$1,109,214	\$1,362,562	\$1,037,179	\$878,749	\$1,197,945	\$476,287
	Debt Svc				\$0	\$0	\$0	\$500,000	\$500,000	\$500,000	\$500,000
TOTAL EXP				\$309,869	\$1,453,745	\$2,320,413	\$2,732,934	\$2,630,874	\$3,079,047	\$1,688,312	

Funding of the Arizona Board of Regents' Technology and Research Initiative Fund (TRIF) is provided by a 0.6 percent increase in the Arizona sales tax rate approved by the voters through Proposition 301 on the November 2000 general election ballot.

ADVISORY BOARDS

NAU TRIF OVERSIGHT BOARD

All Northern Arizona University TRIF Initiatives are principally overseen by Dr. John D. Haeger, assisted by Provost Liz Grobsmith and Dr. Laura Huenneke, Vice President for Research. Appropriate Vice Presidents and Deans also participate in specific project management.

GROWING BIOTECHNOLOGY (GBI)

ENVIRONMENTAL RESEARCH, DEVELOPMENT, AND EDUCATION FOR THE NEW ECONOMY (ERDENE)

GBI Director Dr. Tim Porter and Director of Strategic Environmental Initiatives Shelley Silbert report Dr. Laura Huenneke, Vice President for Research. Research Initiatives within GBI and ERDENE report to their respective directors.

GBI and ERDENE Advisory Board Members:

Thomas Whitham, Regents' Professor,
NAU, Department of Biological Sciences

Barry Gold
Gordon & Betty Moore Foundation

David LaRoche
U.S. Environmental Protection Agency

Paul Jagodzinski
NAU Dean of the College of Engineering, Forestry and Natural Sciences

Michael Bittner
Translational Genomics Research Institute

Mary O'Connell
New Mexico State University, Plant & Environmental Science

Russ Yelton
Northern Arizona Center for Emerging Technologies

Marshall Whitmire
Coconino County Environmental Economic Development Initiative

NAU TRIF OVERSIGHT BOARD MEMBERS:

Saundra Johnson, Chair, Flinn Foundation
Paul Begovac, W.L. GORE & Associates, Inc;
Julie Pastrick, Flagstaff Chamber of Commerce;
Gary Smith, Unisource;
Carl Taylor, Coconino County Board of Supervisors;
Nat White, Lowell Observatory.

E-LEARNING

ACCESS and WORKFORCE DEVELOPMENT (AWD)

AWD is managed by Fred Hurst, Vice President for Extended Programs and Dean of Distance Learning, who reports to President John Haeger.

e-Learning is managed by Director Don Carter, who reports to the Vice Provost for Academic Affairs, Dr. Karen Pugliesi. Dr. Pugliesi reports to Provost Liz Grobsmith.

AWD Advisory Board Members

Toni Badone, Superintendent
Yuma Union High School District

Jane Bristol, Director of Economic Development
City of Prescott

Leslie Dalton, Director, Clinical Education
Yuma Regional Medical Center

Gypsy Denzine, Ph.D., Associate Dean
NAU College of Education

Barbara Feth, P.T., Western Region Director and
Associate National Director of Therapy Operations
HealthSouth

Pete Hatfield, C.M.E., Project Engineer
Honeywell Global Repair Development Engineering

Raul Sandoval, Ed.D., Associate Dean, Enrollment Services
South Mountain Community College

Chuck Spotts, Vice Chancellor, Instruction and Student Services
Mohave Community College

George Van Otten, Strategic Planner, Homeland Security
CACI International

Jeri Williams, M.Ed., Assistant Chief
City of Phoenix Police Department

LEARN MORE

- ⇒ To learn more about **TRIF at NAU**, contact Dr. Laura Huenneke , Vice President for Research at Laura.Huenneke@nau.edu or (928) 523-4340
- ⇒ To find out more about **GBI**, contact Dr. Tim Porter in the Department of Physics, at Tim.Porter@nau.edu or 928-523-2540.
- ⇒ To find out more about **ERDENE**, contact Shelley Silbert in the office of the Vice President for Research, at Shelley.Silbert@nau.edu or (928) 523-4340
- ⇒ To find out more about **E-Learning**, contact Director Don Carter at Don.Carter@nau.edu, 928-523-1605. or go to www.nau.edu/elearning
- ⇒ To find out more about **AWD or Statewide Expansion**, contact Fred Hurst, Vice President for Extended Programs and Dean of Distance Learning, at Fred.Hurst@nau.edu, or call 928-523-6598, or go to www.distance.nau.edu
- ⇒ To find out more about **Health Care Program expansion**, contact Dr. M.J. McMahon, Executive Vice President, at mj.mcmahon@nau.edu, (928) 523-6515, or <http://jan.ucc.nau.edu/~hp-p/>.

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