

#### Criteria for Establishing National Research Universities

Presentation for the Senate Subcommittee on Higher Education

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## Research Universities: Texas vs. National Peers

AAU Members	Public	Private	Total
California	6	3	9
New York	2	5	7
Pennsylvania	2	2	4
Texas	2	1	3
Illinois	1	2	3
Massachusetts	0	3	3
Indiana	2	0	2
Iowa	2	0	2
Michigan	2	0	2
<b>Total in United States</b>	34	26	60

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## There is no clear or consistent pathway or evaluation criteria for nation research universities

- ✓ The Association of American Universities (AAU) and the Center for Measuring University Performance (CMUP) are two organizations that have developed some evaluation criteria.
- ✓ These criteria may provide a foundation for Texas to create its own evaluation mechanism.

#### Center for Measuring University Performance Evaluation Criteria

- ✓ Total Research Expenditures
- ✓ Federal Research Expenditures
- ✓ Endowment Assets
- ✓ Alumni Support
- ✓ National Academy Members

- ✓ Faculty Recognition
- ✓ Doctorates Granted
- ✓ Postdoctoral Appointees
- ✓ Excellence in
  Undergraduate
  Education (SAT/ACT
  Range)

# Association of American Universities Evaluation Criteria

- ✓ Federal Research Expenditures
- ✓ National Academy Members
- ✓ Faculty quality rating
- ✓ Faculty Recognition
- ✓ Citations: U.S.
  University Science
  Indicators

- ✓ USDA, state and industrial research funding
- ✓ Doctoral Education; # granted and programs
- ✓ Undergraduate Education

### Criteria used by both AAU and CMUP

- ✓ Federal Research expenditures
- ✓ Number of doctorates awarded
- ✓ Number of doctoral programs
- ✓ National Academy Members and Faculty Recognition
- ✓ Excellence in Undergraduate Education

## Federal Research Expenditures

(in millions)

	FY2003	FY2004	FY2005	FY2006	Change
University of Arizona	\$259,074	\$283,956	\$292,811	\$301,619	16.4%
University of Missouri	\$84,211	\$90,304	\$96,038	\$101,732	20.8%
University of Kansas	\$92,888	\$101,920	\$110,768	\$115,522	24.4%
University of Nebraska	\$96,627	\$115,833	\$129,216	\$139,113	44.0%
University of Houston	\$32,556	\$34,468	\$37,262	\$38,559	18.4%
Texas Tech University	\$31,776	\$23,181	\$22,071	\$22,278	-29.9%
UT San Antonio	\$9,982	\$11,644	\$15,924	\$20,277	103.1%
UT Dallas	\$14,530	\$15,733	\$19,933	\$19,954	37.3%
UT El Paso	\$18,116	\$16,900	<b>\$15,378</b>	\$19,331	6.7%
UT Arlington	\$7,884	\$10,498	\$17,654	\$19,006	141.1%
<b>University of North Texas</b>	\$6,320	\$5,499	\$7,003	\$8,343	32.0%

Source: WebCASPAR

## Number of Doctoral Degrees Awarded FY 03-FY 06

	FY2003	FY2004	FY2005	FY2006	Change
University of Arizona (79)	378	398	386	395	4%
University of Missouri (38)	274	251	274	277	1%
University of Kansas (70)	232	239	223	271	17%
University of Nebraska (67)	254	236	234	245	-4%
University of Houston (52)	203	196	211	236	16%
Texas Tech University (58)	163	174	175	199	22%
University of North Texas (59)	145	153	146	161	11%
UT Dallas (23)	61	63	102	126	107%
UT Arlington (30)	68	58	86	88	29%
UT El Paso (16)	29	30	30	33	14%
UT San Antonio (20)	7	4	12	21	200%

<sup>( ) =</sup> Total Current Doctoral Degree Programs

Source: Center for Measuring University Performance

#### National Academy Members FY 2006

Institution	#
University of Arizona	31
University of Kansas	7
University of Missouri	5
University of Nebraska	3
University of Houston	9
Texas Tech University	1

**Source: Center for Measuring University Performance** 

## National Faculty Awards FY 2003-06

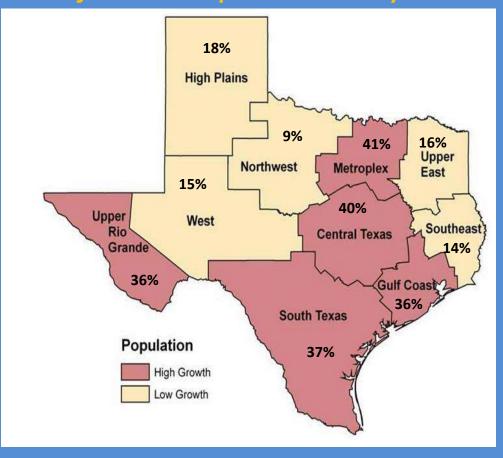
Institution	FY03	FY04	FY05	FY06
University of Arizona	19	23	16	18
University of Kansas	7	10	5	9
University of Missouri	14	8	9	7
University of Nebraska	2	5	4	4
University of Houston	5	2	1	5
Texas Tech University	3	4	2	2

**Source: Center for Measuring University Performance** 

## Population growth is an important consideration for deploying a national research institution

- Higher Education Regions Based on Projected Total Population Growth by 2015

  The Metroplex will
- ✓ The Metroplex will experience the greatest increase in traditional college age population (18-24): 78,000
- ✓ Gulf Coast and South
  Texas will experience
  increases in this
  population of 46,000
  and 33,000, respectively



# Local and regional economic infrastructure also play a critical role in establishing national research institutions

- ✓ Business and industry clusters can facilitate the evolution and longterm success of a national research institution
- ✓ The Texas Workforce Commission estimates jobs by industry for each region by the year 2014.

Workforce Development Region	# Top 25 Future Industry Performers
Gulf Coast	7
Dallas	6
Alamo	5
North Central	3

Source: Texas Workforce Commission, Industry Projections 2004-2014

# State Appropriations per FTSE FY 2006

	Appropriations/FTSE	FTSE,
Institution Name	FY06	Fall 2006
University of Arizona	\$11,492	32,946
University of Nebraska	<b>\$10,933</b>	20,056
University of Missouri	\$8,823	25,641
University of Kansas	\$6,085	23,398
UT Dallas	\$6,529	11,084
University of Houston	\$6,045	28,178
Texas Tech University	\$5,746	25,796
UT Arlington	\$5,322	19,298
UT El Paso	\$5,193	15,194
University of North Texas	\$4,351	27,077
UT San Antonio	\$4,212	23,059

**Source: IPEDS** 

# Strategic considerations for higher education

- ✓ Texas must continue to strengthen its existing national research universities to make them more competitive with peers
- ✓ Texas must systematically invest in cultivating future national research institutions that take full advantage of existing resources and strengths in the context of demographic and economic factors
- Texas must harness regional economic strengths and opportunities to create highly focused regional research universities
- ✓ Excellence in undergraduate education must remain a cornerstone for all universities