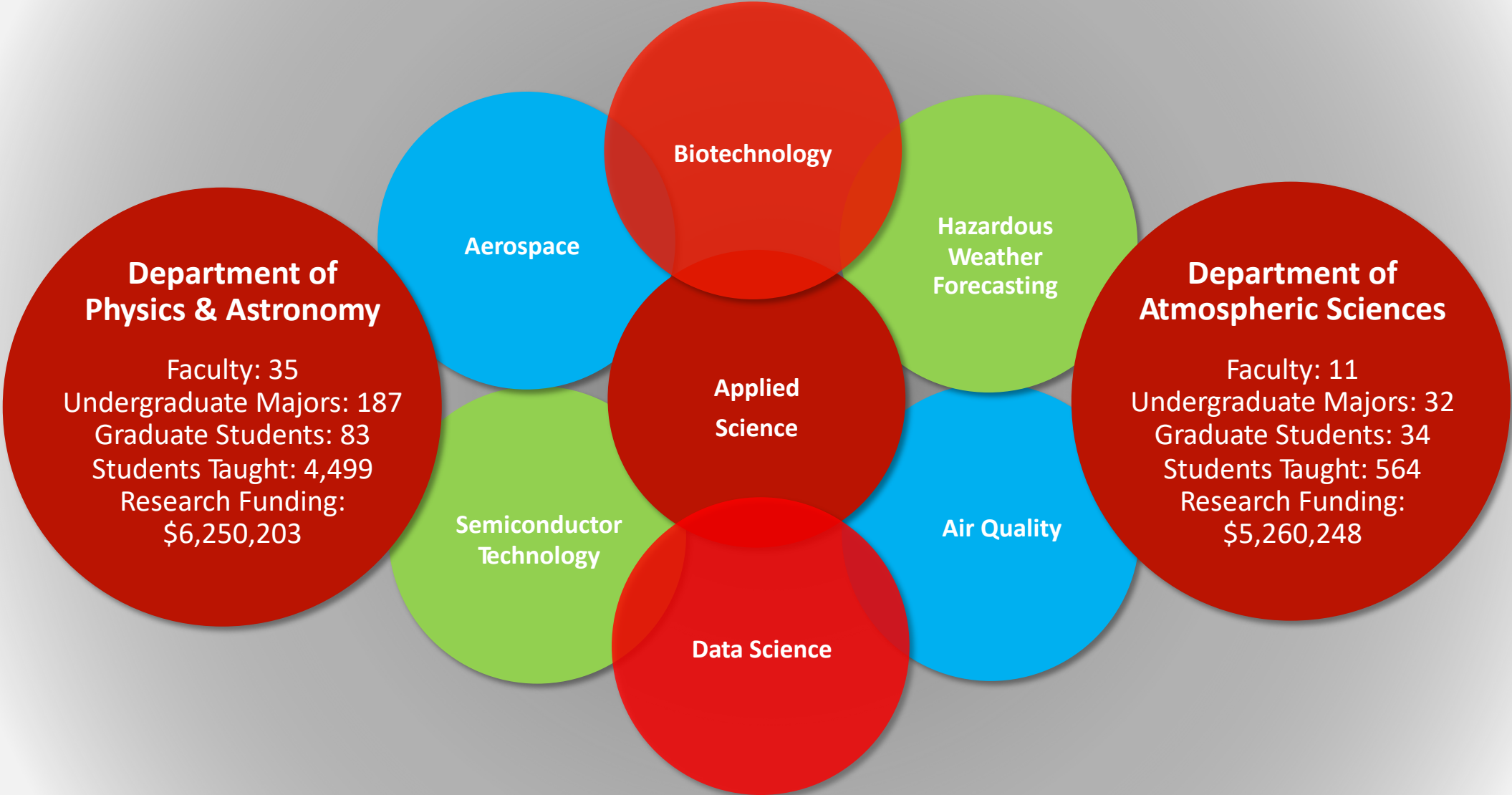




The Stewart Building for Applied Sciences

Elevating Statewide STEM Success

Building Use





Remodeled Space: 40,729 SF

New Space: 100,000 SF

- 91% Instruction & Research Space
- 9% Offices for Faculty and Staff
- Preservation of the Historic Stewart Building





Total Cost: \$84,560,000

Requested from State: \$60,000,000

Private Funding: \$24,560,000

Current Donor Commitments: \$3,400,000

O&M Increase: \$646,500

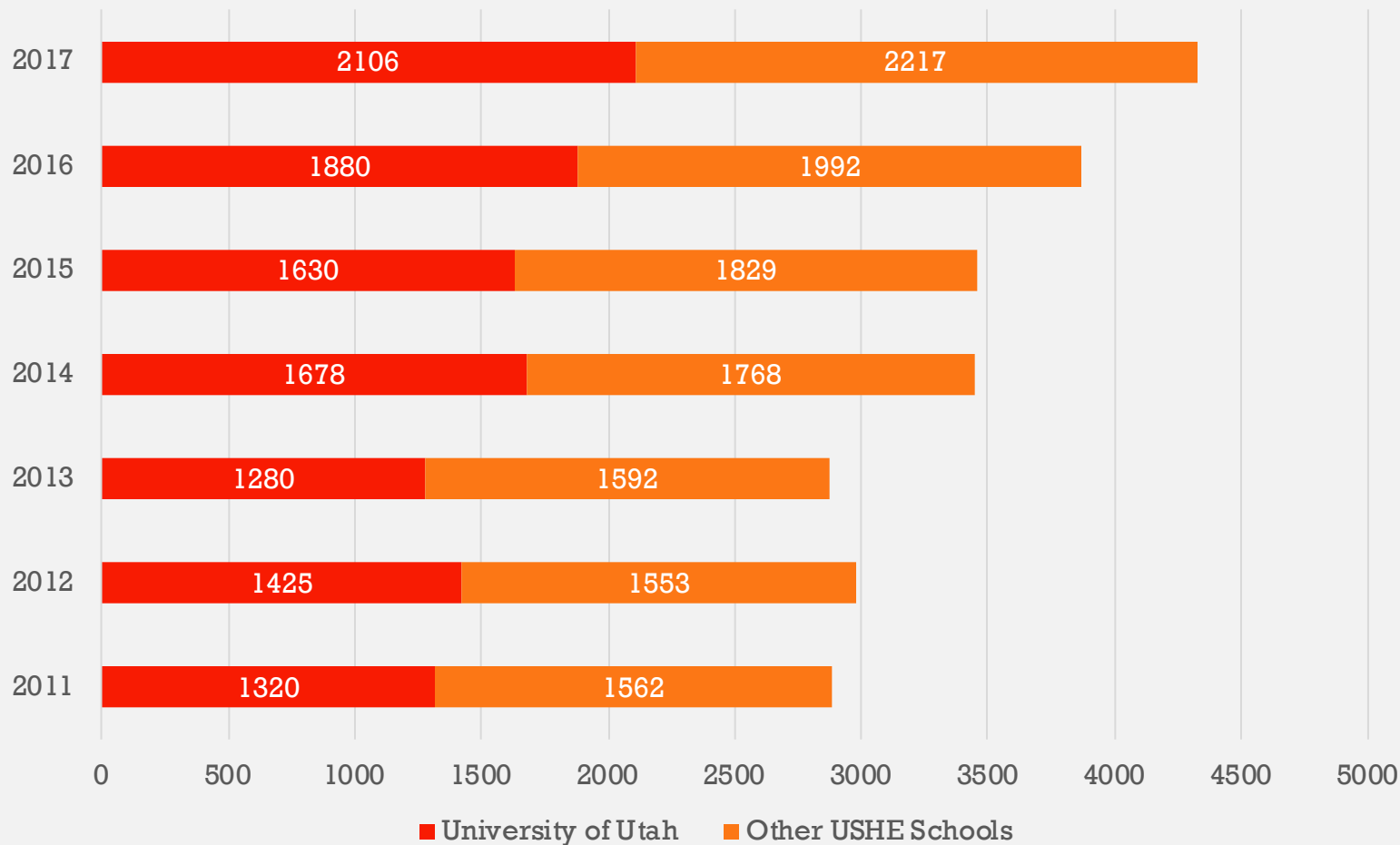




**Strategic Objective 1:
Completion**

1. Completion

STEM Degrees Awarded by USHE Institutions



50%

Increase in STEM Degrees since 2011

49%

of STEM Degrees in 2017 were Awarded by the University of Utah

1. Completion



Others

- Architecture •
- Design •
- Doctorate in Pharmacy •
- Environmental Studies •
- Geographic Information Science •
- Geography •
- Health Society and Policy •
- Kinesiology •
- Music Technology •



College of Mines & Earth Sciences

- Atmospheric Sciences (BS, MS, PhD) •
- Earth Science Teaching •
- Geology and Geophysics •
- Geological Engineering •
- Metallurgical Engineering •
- Mining Engineering •



College of Science

- Applied Mathematics •
- Biology & Biology Education •
- Chemistry •
- Mathematics & Mathematics Education •
- Physics & Physics Education (BS, MS, PhD) •



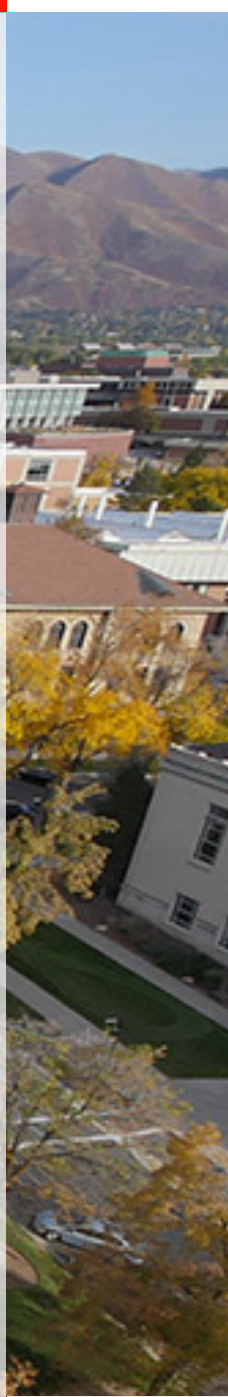
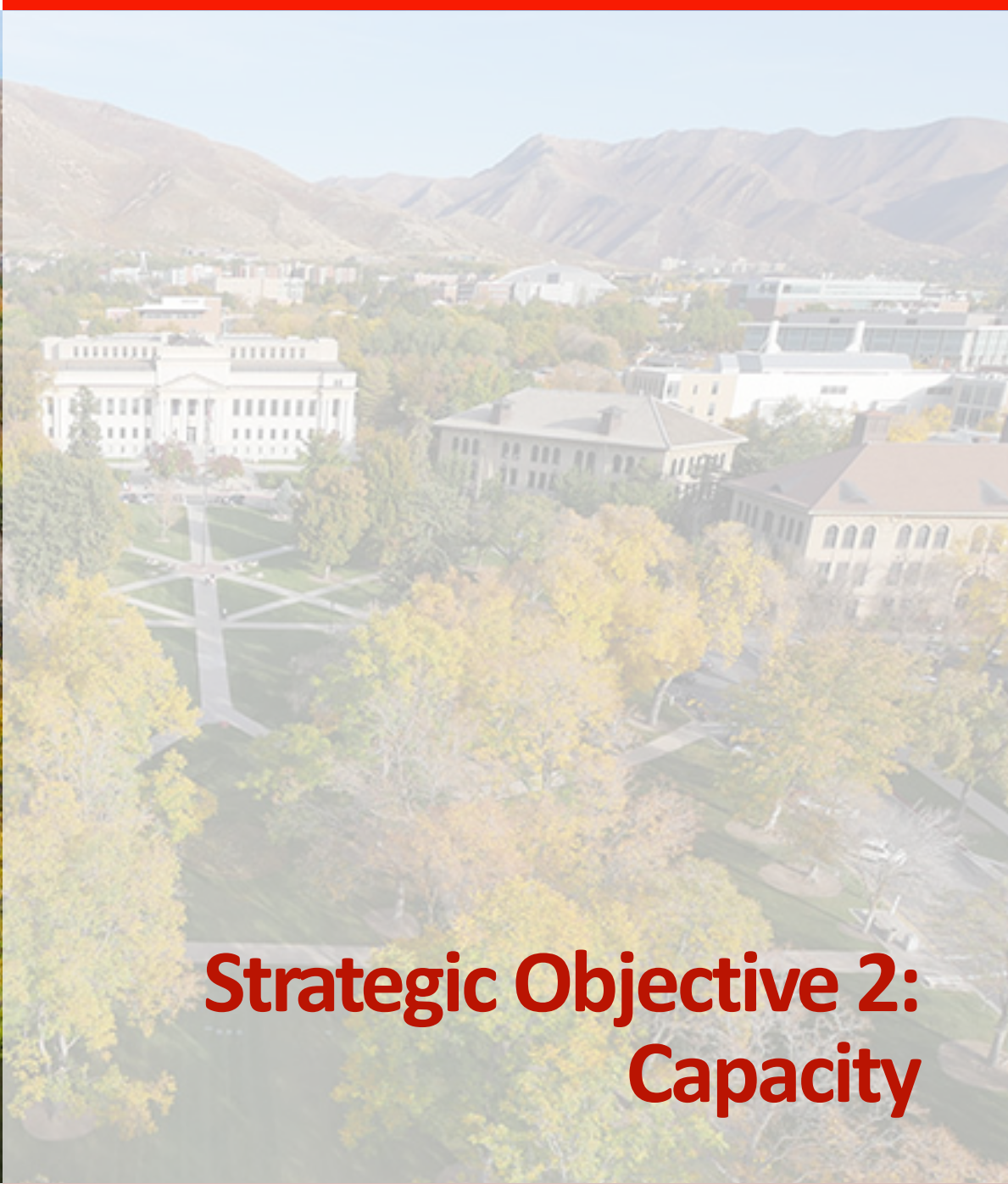
College of Engineering

- Biomedical Engineering
- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Computer Science
- Construction Engineering
- Electrical Engineering
- Entertainment Arts and Engineering
- Materials Science
- Mechanical Engineering



Pre-Professional Programs

- Chiropractic
- Dental
- Medical
- Occupational Therapy
- Optometry
- Pharmacy
- Physical Therapy
- Podiatry
- Veterinary



**Strategic Objective 2:
Capacity**

2. Capacity



Undergraduate Labs

56% increase in
experimental and
computing labs.



Instruction Space

Modern
experiential
teaching space.



Time to Graduation

Reduces bottlenecks
in high-demand
courses.



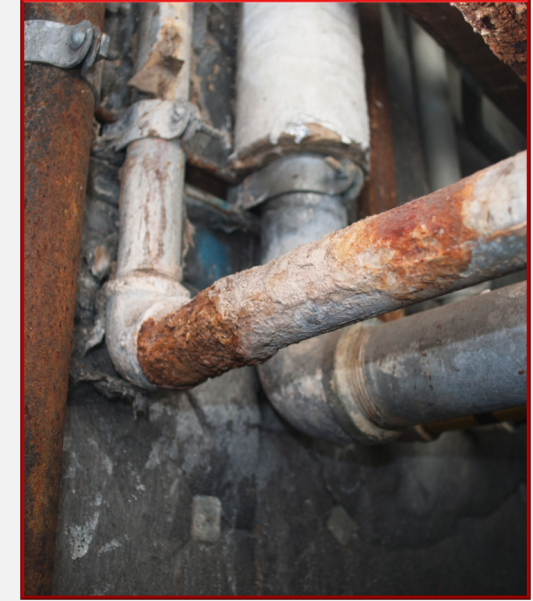
K-12 STEM Education

Integral part of
Utah's STEM
education pipeline.



Strategic Objective 3: Affordability

3. Affordability



“[Maintenance] costs will only escalate and still barely stay ahead of their failing systems. The current state of these aging facilities and failing infrastructure places them in immediate crisis.”



3. Affordability: Stewart vs. Fletcher

		Stewart Building			Fletcher Building		
		Sq. Ft.	Cost per SF.	Total	Sq. Ft.	Cost per SF.	Total
Existing Building	Seismic Upgrade	40,729	\$34	\$1,400,000	53,860	\$550	\$29,600,000
	Life Safety Upgrade		\$27	\$1,100,000		\$24	\$1,300,000
	Infrastructure Upgrades		\$106	\$4,300,000		\$123	\$6,600,000
	Renovation		\$420	\$17,113,731		\$420	\$22,631,185
New							
	Addition	100,000	\$606	\$60,646,269	86,869	\$606	\$52,682,807
Total		140,729	\$601	\$84,560,000	140,729	\$802	\$112,813,993

\$28,253,993
Savings with Proposed Project



**Strategic Objective 4:
Workforce**

4. Workforce



NORTHROP GRUMMAN



Technologies



EVANS & SUTHERLAND



UNIVERSITY OF UTAH
HEALTH CARE



MOTOROLA



O.C.TANNER
Engaging Workplace Cultures



qualtrics[®]



GRANDEUR PEAK FUNDS
ELEVATED GLOBAL INVESTING[®]



**ZIONS
BANK[®]**



4. Workforce : Graduate Programs



The STEM Economy

Companies need high-skilled employees with **graduate degrees and research experience**.



Satisfying the Demand

87% of physics graduate degrees awarded by USHE institutions in 2017 were from the University of Utah.



Unique to the U

The Atmospheric Sciences Graduate Program is the **only one in the state**.



The Stewart Building for Applied Sciences

Elevating Statewide STEM Success

Supporting Material:

Project Budget Summary

COST CATEGORY	COST TO BUILD TODAY	ESCALATED COST
Demo Fletcher Bldg. (53,863 sq. ft.)	\$ 932,945 (\$ 17.32 / sq. ft.)	\$ 1,030,329 (\$ 19.12 / sq. ft.)
Renovate Stewart Bldg. (40,729 sq. ft.)		
• Construction	\$ 15,273,370 (\$375.00 / sq. ft.)	\$17,201,670 (\$422.34 / sq. ft.)
• Soft Costs	\$ 6,413,869 (\$ 46.00 / sq. ft.)	
• TOTAL	\$ 23,615,539 (\$579.81 / sq. ft.)	
New Construction (100,000 sq. ft.)		
• Construction	\$ 39,250,000 (\$392.50 / sq. ft.)	\$44,167,123 (\$441.67 / sq. ft.)
• Soft Costs	\$ 15,747,671 (\$112.00 / sq. ft.)	
• TOTAL	\$ 59,914,794 (\$599.15 / sq. ft.)	
TOTAL PROJECT COST	\$ 78,662,854 (\$558.97 / sq. ft.)	\$84,560,663 (\$600.88 / sq. ft.)

Supporting Material:

R2 Old Dominion
Chemistry Building
Size: 110,000 Sq. Ft.
Cost: \$75,600,000
\$687 Per Sq. Ft.

R1 U. Mass
Physical Science Building
Size: 107,300 Sq. Ft.
Cost: \$101,800,000
\$949 Per Sq. Ft.

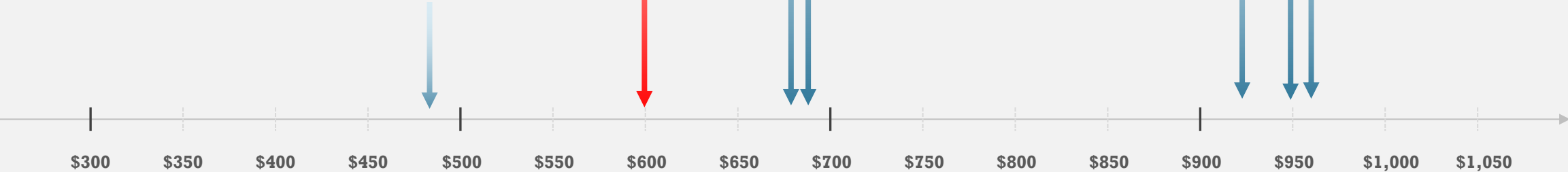
R1 N.C. State University
Engineering Building
Size: 225,000 Sq. Ft.
Cost: \$154,000,000
\$684 Per Sq. Ft.

Chico State
Natural Science Building
Size: 110,000 Sq. Ft.
Cost: \$101,700,000
\$925 Per Sq. Ft.

R1 Penn State
Physics Building
Size: 152,000 Sq. Ft.
Cost: \$146,000,000
\$960 Per Sq. Ft.

R1 U. of Utah
Applied Sciences Building
Size: 140,729 Sq. Ft.
Cost: \$85,560,663
\$601 Per Sq. Ft.

R1 U. of New Mexico
Physics & Astronomy Building
Size: 137,000 Sq. Ft.
Cost: \$65,700,000
\$480 Per Sq. Ft.



Cost Per Square Foot
From Current STEM Capital Projects Nationwide