



AMERICAN COLLEGE OF SURGEONS • DIVISION OF EDUCATION<sup>®</sup>  
**ACCREDITED EDUCATION INSTITUTES**  
ENHANCING PATIENT SAFETY THROUGH SIMULATION

# 2020 Annual Data Report

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100+years

AMERICAN COLLEGE OF SURGEONS  
*Inspiring Quality:  
Highest Standards, Better Outcomes*

AMERICAN COLLEGE OF SURGEONS  
DIVISION OF EDUCATION  
*Blended Surgical Education and Training for Life<sup>®</sup>*



Each year, Accredited Education Institutes (AEIs) submit data to demonstrate their ongoing compliance with the accreditation standards and criteria. After review by the Accreditation Review Committee, select data points are aggregated and published in a report as a service to the AEI Consortium.

From academic teaching centers to health care delivery systems, AEIs can be found in a variety of settings. To acknowledge the similarities and differences among our centers, the report includes a series of tables with data broken down by center type, size, and budget, enabling centers to benchmark themselves against their peers and gain a better understanding of where they fit in the AEI Consortium.

The aggregated information published in this annual report is based upon self-reporting by AEIs. The American College of Surgeons (ACS) does not provide full verification of the accuracy of all reported information but does follow up on outliers or significant changes from previous years. We also investigate if it appears that the data do not conform to the reporting instructions.

2020 marks a unique year, and the Committee acknowledges that COVID-19 has had a significant impact on many AEIs. It is the Committee's expectation that all AEIs maintain compliance with the accreditation standards in a way that provides safe, quality education and training during the pandemic. In some instances, this may contribute to temporary decreases in areas such as learner encounters. However, virtual education is on the rise, and the Committee commends the AEIs' commitment to innovation and creativity during these difficult times.

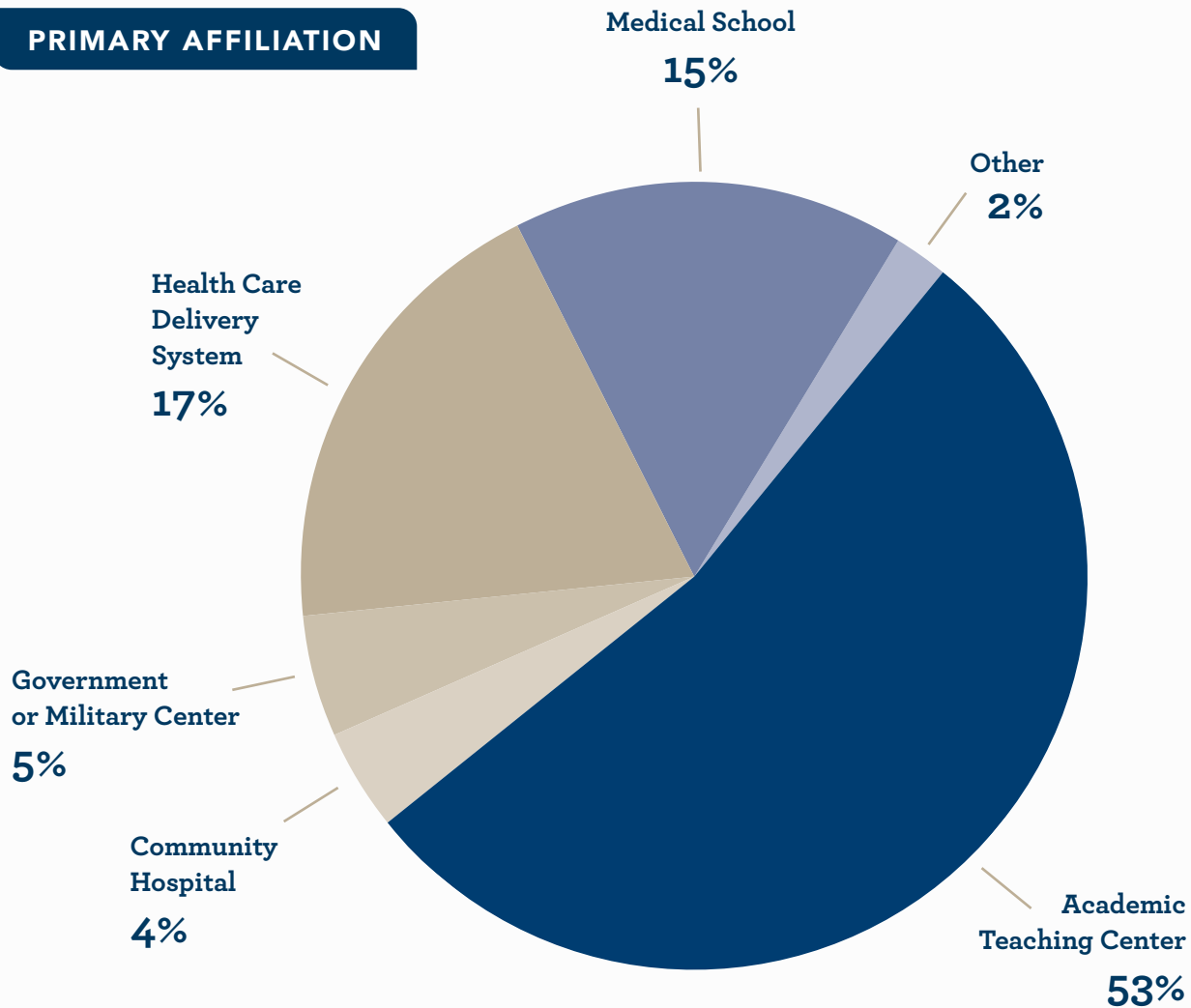
# 2020 Data Points

## Makeup of Respondents (91)

Focused AEs—9

Comprehensive AEs—82

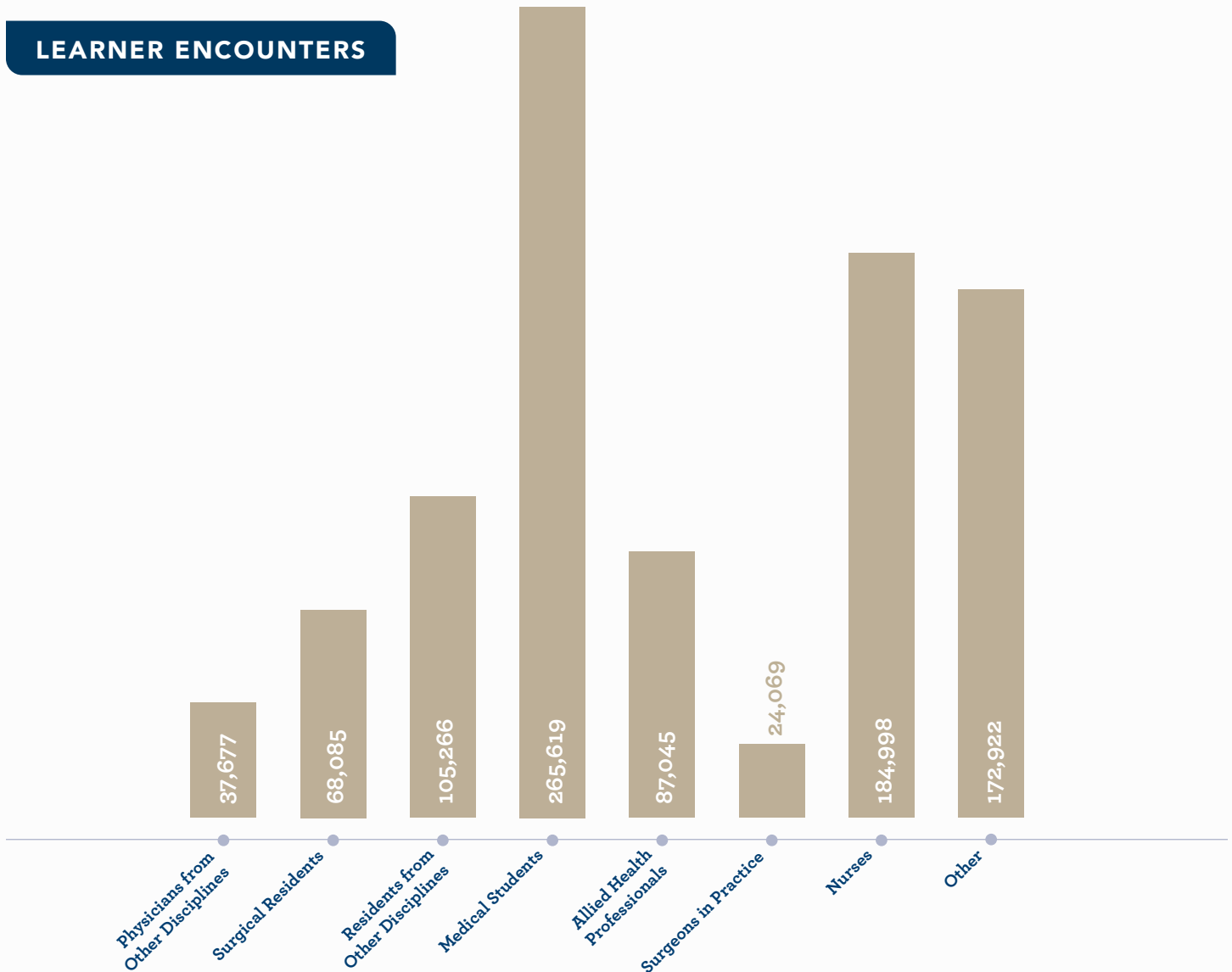
### PRIMARY AFFILIATION



**QUICK INSIGHT:** More than half (53%) of AEs selected "Academic Teaching Center" as their primary affiliation.

## Learner Encounters

AEIs report the number of participants at each activity, referred to as learner encounters. The data represent aggregate numbers of interactions and not the number of unique participants. Participants attending multiple activities are counted multiple times.



### COURSE INSTRUCTIONAL HOURS

Average: **6,741** | Total: **613,433**

### NUMBER OF CME ACTIVITIES

Average: **74** | Total: **6,704**

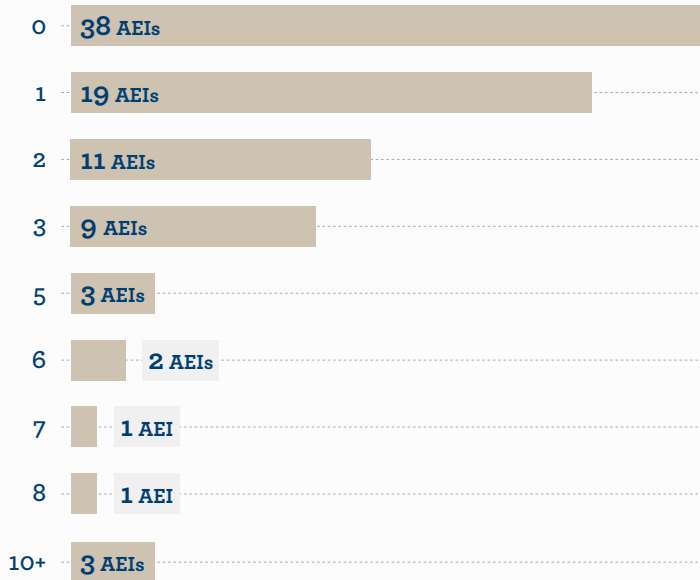


**QUICK INSIGHT:** Approximately, 945,681 learning encounters took place over 613,433 hours. Medical students accounted for the largest learner group, with “other” and nurses taking second and third place.

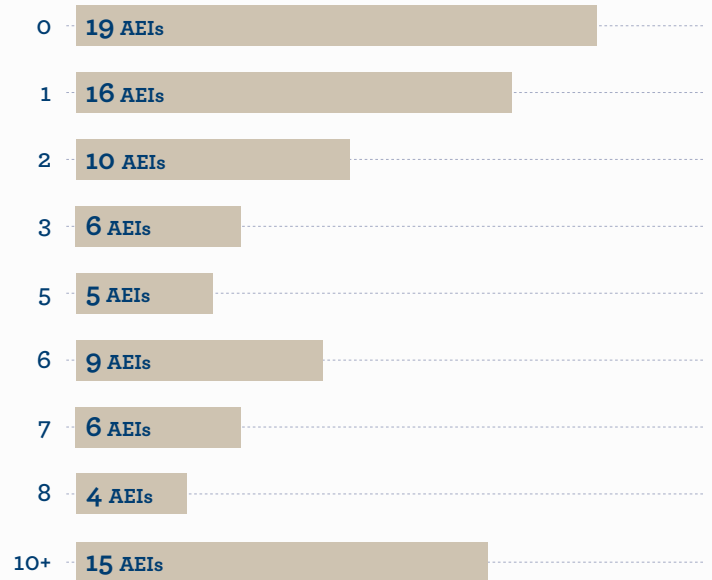
# Curriculum

Comprehensive AEIs must demonstrate innovation by developing original curricula. Curricula used by Comprehensive and Focused AEIs, whether adopted or original, must have been developed using the steps of curriculum development as outlined in the Standards. For the purpose of this report, both Comprehensive and Focused AEIs were asked to respond to the questions below.

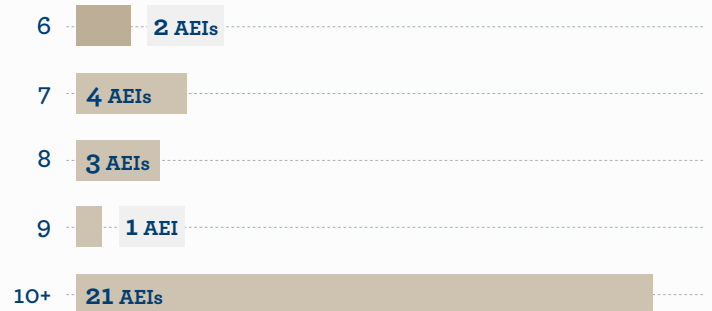
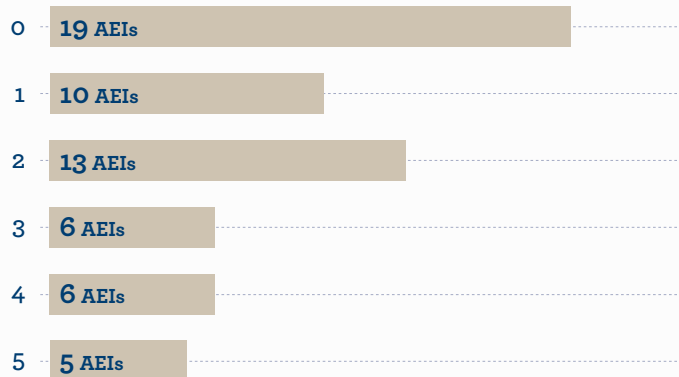
## NUMBER OF CURRICULA ADOPTED



## NUMBER OF ORIGINAL CURRICULA



## NUMBER OF CURRICULA IMPLEMENTED

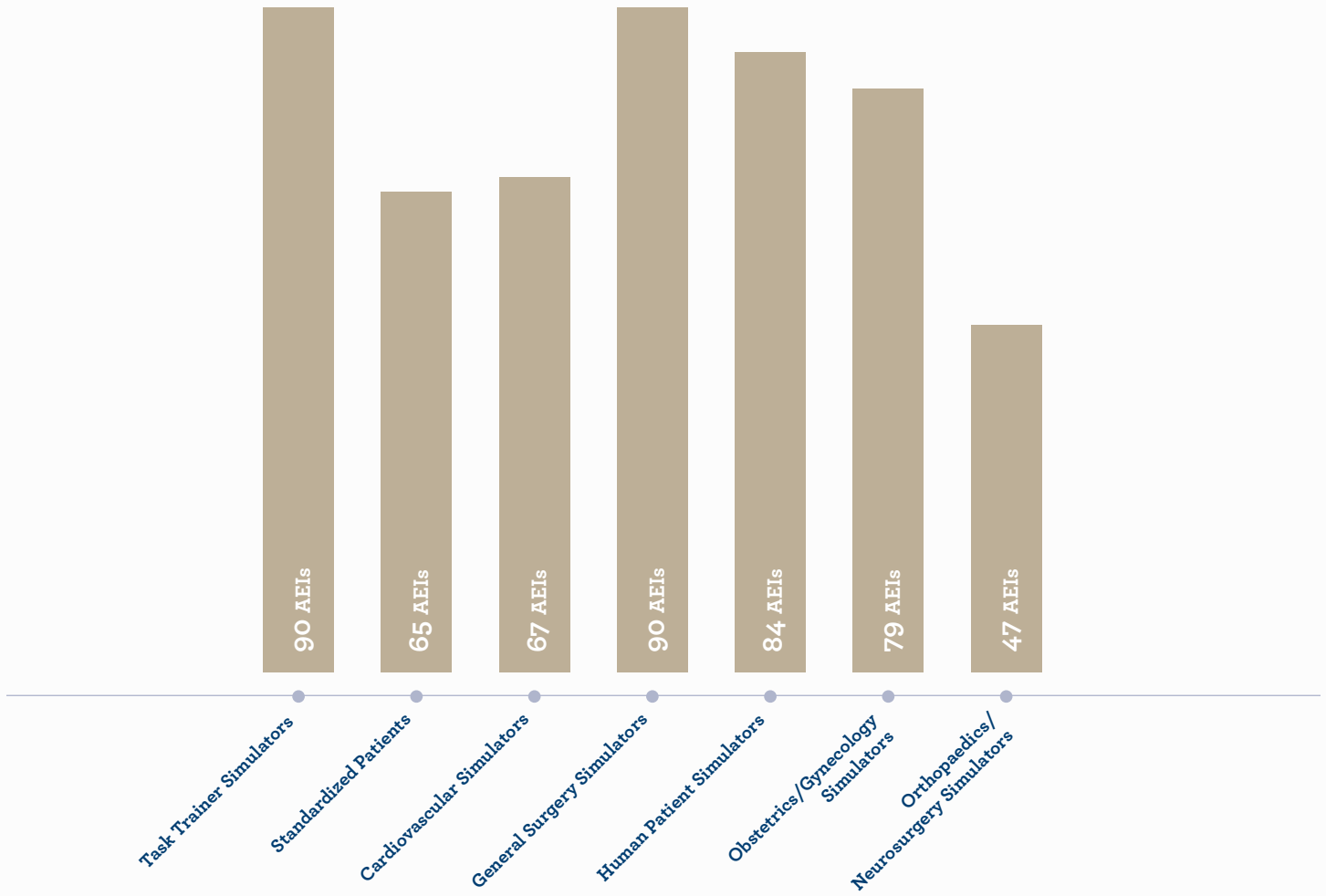


**QUICK INSIGHT:** More than 377 curricula were created and 140 were adopted. Approximately 85% of these original and adopted curricula were implemented.

# Simulators

AEIs must have devices, and the support to use them effectively, to meet learner and curricular needs.

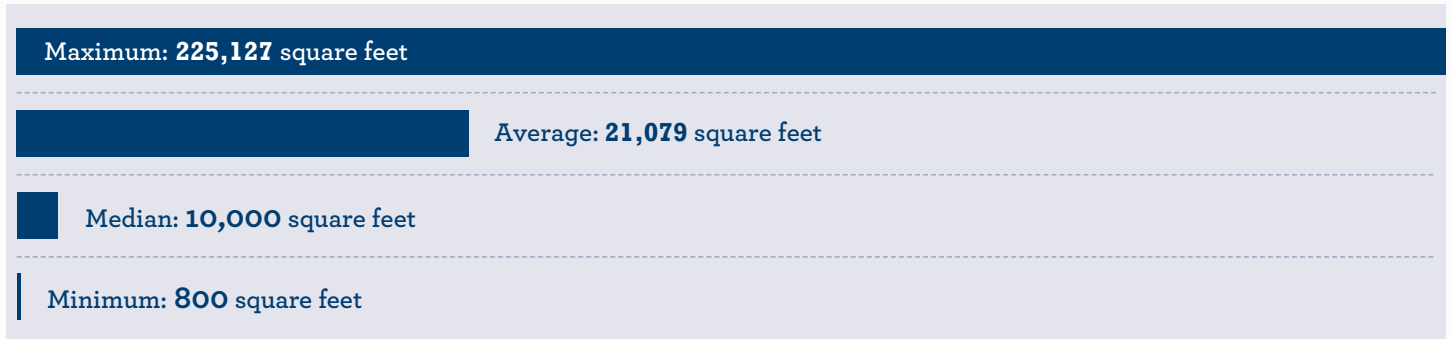
## TYPES OF SIMULATORS



## Space

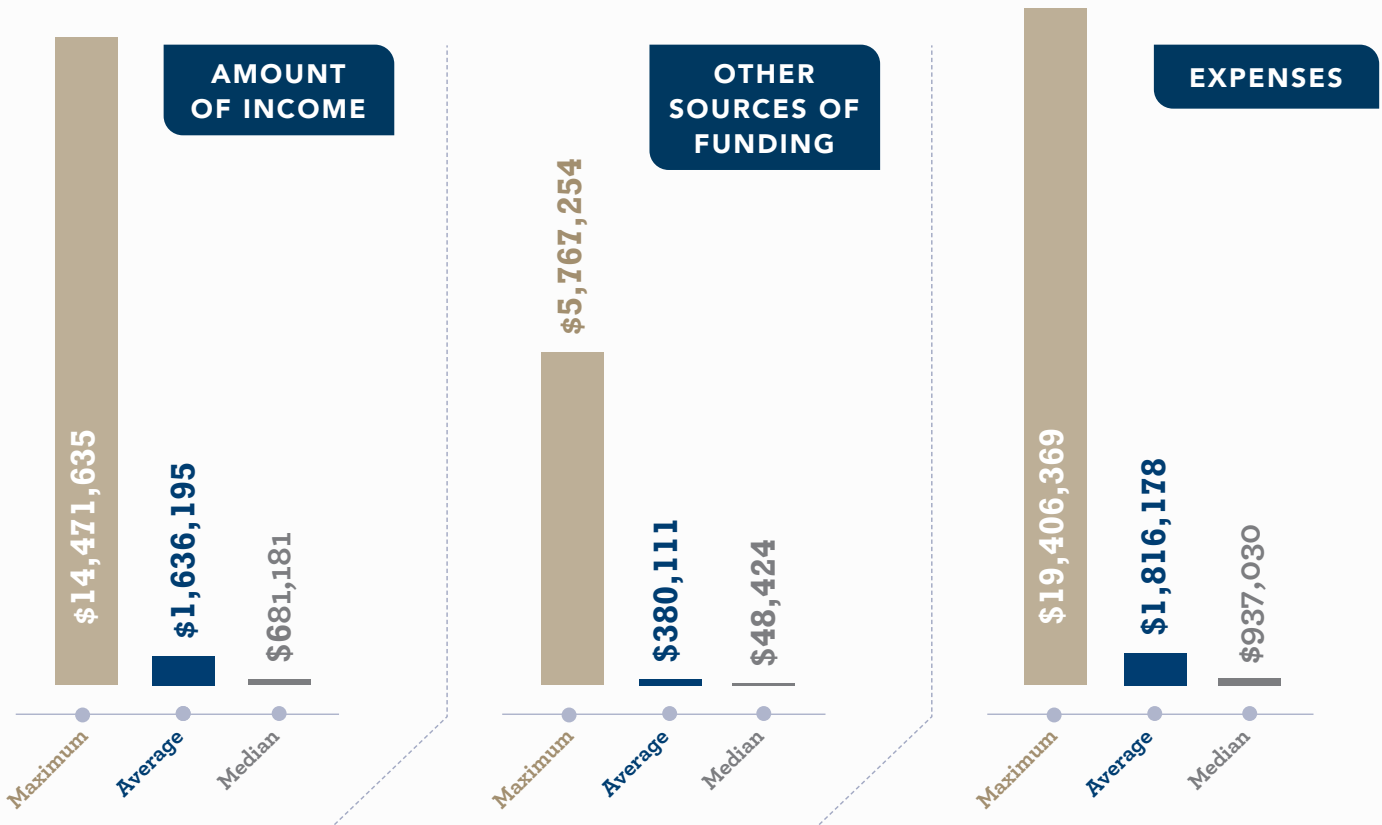
Comprehensive AEIs are required to have no less than 1,200 square feet of contiguous space dedicated to education and training, and under the direct control of the Institute. Focused AEIs are required to have 800 dedicated square feet. The figures below do not include the additional 4,000 square feet of additional space required for Comprehensive AEIs to have to meet the needs of learners and administrative support staff.

### Amount of Contiguous Square Footage under the Direct Control of the AEI:



## Finances

AEIs provide budgetary information to confirm that resources are available to support the Institute.

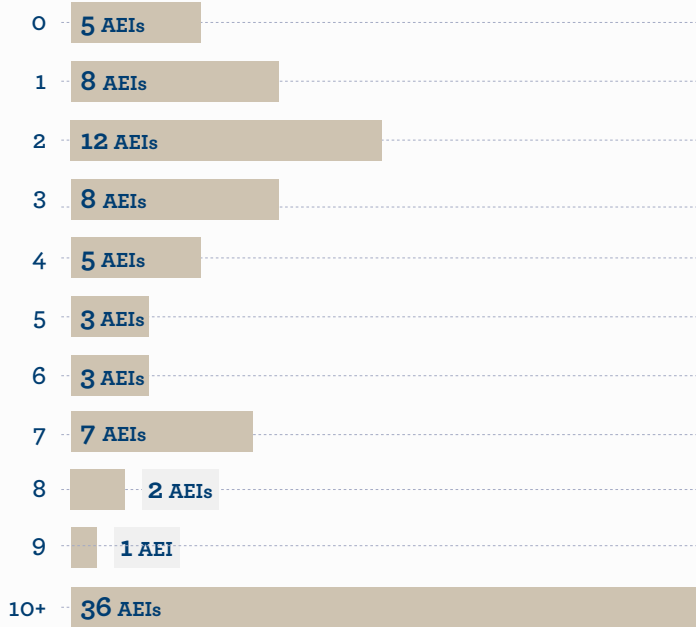


**QUICK INSIGHT:** The average AEI is 21,079 square feet and functions on an annual income of \$1,636,195, not including any other sources of funding.

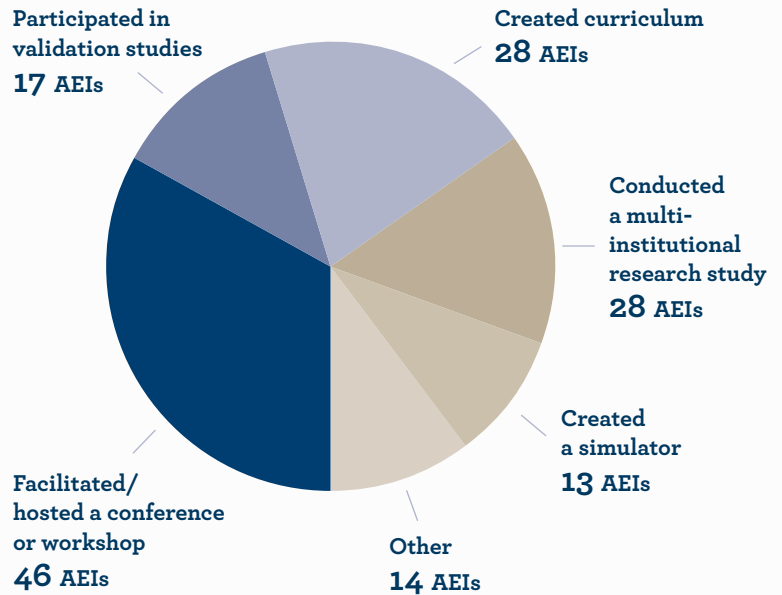
## Research, Scholarly Activities, and Collaboration

Comprehensive AElS are required to pursue research and other scholarly activities. While scholarly activity is not required of Focused AElS, they were asked to disclose their research activities for the purpose of this report.

### NUMBER OF RESEARCH OR SCHOLARLY ACTIVITIES



### COLLABORATIVE PROJECTS WITH OTHER AElS



### TYPES OF RESEARCH OR SCHOLARLY ACTIVITIES



**QUICK INSIGHT:** AElS were involved in more than 540 research/scholarly activities.



## Key Data Points by Type—Comprehensive or Focused

Values	Comprehensive	Focused
Number of AElS by Type	82	9
Average Square Feet	22,395	9,087
Average Expenses	\$1,928,107	\$796,380
Average Income	\$1,721,052	\$863,055
Average of "Other Sources of Funding"	\$421,617	\$20,385
Average Number of Learners	12,750	1,634
Average Number of Learners—Physicians from other Disciplines	451	75
Average Number of Learners—Surgical Residents	788	471
Average Number of Learners—Residents from other Disciplines	1,272	123
Average Number of Learners—Medical Students	3,211	260
Average Number of Learners—Allied Health	1,051	113
Average Number of Learners—Surgeons in Practice	279	131
Average Number of Learners—Nurses	2,227	262
Average Number of Learners—Other	2,107	22
Average Number of Course Hours	7,410	645
Average Number of CME Activities	81	3
Average Number of Adopted Curricula	1	1
Average Number of Original Curricula	3	2
Average Number of Curricula Implemented	3	2
Average Number of Research or Scholarly Activities	4	2

## Key Data Points by Affiliation

Annual Values	Academic Teaching Center	Community Hospital	Government or Military Center	Health Care Delivery System	Medical School	Other
Number of AElS By Affiliation	48	4	5	17	15	2
Average Square Feet	23,224	7,748	15,318	22,808	12,514	60,199
Average Expenses	\$1,891,730	\$660,961	\$2,258,876	\$2,148,630	\$1,258,623	\$2,562,438
Average Income	\$1,547,793	\$879,041	\$1,959,644	\$2,544,164	\$872,879	\$2,470,672
Average of Other Sources of Funding	\$424,661	\$147,998	\$246,557	\$255,042	\$508,376	\$214,409
Average Number of Learners	11407.73333	3186.666667	8208.25	13863.53846	14650.125	13690
Average Number of Learners—Physicians from other Disciplines	376	145	542	593	332	641
Average Number of Learners—Surgical Residents	808	682	515	829	695	96
Average Number of Learners—Residents from other Disciplines	1,102	571	1,076	1,438	1,379	346
Average Number of Learners—Medical Students	2,938	592	1,197	2,233	4,915	2,281
Average Number of Learners—Allied Health	915	97	883	1,025	1,031	3,182
Average Number of Learners—Surgeons in Practice	259	86	270	293	269	472
Average Number of Learners—Nurses	1,843	514	1,358	4,110	705	3,617
Average Number of Learners—Other	1,794	210	1,469	2,446	2,197	3,057
Average Number of Course Hours	9,668	583	4,094	4,903	2,434	420
Average Number of CME Activities	85	0	17	133	8	93
Average Number of Adopted Curricula	1	1	4	2	1	2
Average Number of Original Curricula	3	2	3	3	2	2
Average Number of Curricula Implemented	3	2	6	2	2	2
Average Number of Research or Scholarly Activities	4	2	4	3	2	2

## Key Data Points by Center Square Footage

Annual Values	0 to 999	1,000 to 2,999	3,000 to 4,999	5,000 to 6,999	7,000 to 8,999	9,000 to 10,999	11,000 to 19,999	20,000 to 24,999	25,000 to 49,999	50,000+
Average Square Feet	844	2,025	4,238	5,849	8,059	9,992	15,202	23,250	34,278	113,954
Number of AElS by Square Feet	2	2	6	10	6	7	10	2	9	6
Average Expenses	\$314,763	\$128,753	\$477,400	\$944,536	\$862,234	\$1,061,053	\$1,877,002	\$1,975,753	\$3,653,776	\$6,221,180
Average Income	\$295,186	\$132,149	\$481,804	\$883,304	\$1,653,768	\$903,406	\$986,130	\$1,856,353	\$3,479,427	\$5,786,722
Average "Other Sources of Funding"	\$66,733	\$0	\$142,614	\$225,837	\$524,710	\$301,474	\$736,075	\$119,401	\$171,083	\$1,270,015
Average Number of Learners	535	2,621	2,722	3,578	7,234	7,589	12,388	16,838	27,556	24,732
Average Number of Learners—Physicians from other Disciplines	15	53	203	240	189	334	446	678	985	1,052
Average Number of Learners—Surgical Residents	644	616	477	309	898	604	1,019	501	778	918
Average Number of Learners—Residents from other Disciplines	13	218	505	711	726	833	1,299	1,960	2,767	2,371
Average Number of Learners—Medical Students	10	693	766	523	2,246	1,242	3,400	2,113	9,892	3,957
Average Number of Learners—Allied Health	45	128	148	340	217	467	856	2,651	2,852	3,716
Average Number of Learners—Surgeons in Practice	56	13	45	83	277	327	428	25	351	676
Average Number of Learners—Nurses	0	325	403	1,039	971	2,195	2,510	6,544	3,863	6,602
Average Number of Learners—Other	20	1,155	254	486	1,712	1,587	2,431	2,367	6,068	5,441
Average Number of Course Hours	389	530	1,853	5,953	12,267	10,403	3,694	8,158	13,490	7,391
Average Number of CME Activities	0	32	7	8	20	8	22	956	379	53
Average Number of Adopted Curricula	3	1	2	0	3	2	2	1	2	2
Average Number of Original Curricula	3	1	0	2	3	3	4	4	2	4
Average Number of Curricula Implemented	0	1	1	2	3	3	3	5	3	3
Average Number of Research or Scholarly Activities	1	0	2	2	3	4	6	0	4	1

# Membership



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## AEI CENTERS

Membership current as of January 2021.

**88** Comprehensive

**10** Focused

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