

**Faculty Council Meeting November 5, 2020**  
**3:30 – 5:30 pm**

**Zoom Meeting: <https://slu.zoom.us/j/99012623942>**

## MINUTES

1. Ken Oliff and Michele Sabick  
Presentation on research, areas of impact and centers of excellence (see appendix)
2. Approve minutes from previous meeting     **APPROVED**
3. Dean's Comments (See Appendix)
4. Committee Reports:
  - a. Academic Affairs – Kathryn Kuhn (no report)
  - b. Academic Honesty – Tony Hasler  
Moving ahead with reconsidering the academic honesty policy in CAS  
There's a university-level committee doing something similar
  - c. Board of Graduate Education – Dan Warren (no report)
  - d. 

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Motion from the Core Curriculum Committee rivony  
The Core Curriculum Committee moves to approve the course HIST 3420 'The Atlantic World' to fulfill the Global Citizenship requirement.  
**MOTION PASSED**
  - e. Curriculum Committee – Mike May     **MOTION PASSED**

**Reminder: early February approvals necessary to be included in 21-22 Catalog**

**Background files at**

**[https://drive.google.com/drive/folders/1oMsAF3pyxsCYAEnG\\_oIKy8ecGzPKbQ3V?usp=sharing](https://drive.google.com/drive/folders/1oMsAF3pyxsCYAEnG_oIKy8ecGzPKbQ3V?usp=sharing)**

**Curriculum Committee Motion for November.**

On behalf of the committee I move that the council approve the following additions, deletions, and changes that were approved at the October meeting of the undergraduate curriculum committee.

**From the Department of Sociology and Anthropology**

**Change of Course Description**

Quantitative Research Methods: Soc 4015 new description

**From the Department of Earth and Atmospheric Studies**

**New course in GIS 8:15**

GIS 4080 Digital Cartography and Geovisualization

**New numbers or names for courses**

EAS-1010 Earth System I - The Solid Earth  
from EAS-1430 Introduction to the Solid Earth

EAS-1020 Earth's Environment I Lab  
from EAS-1435 Introduction to the Solid Earth Lab

EAS-1050 Introduction to Oceanography  
from EAS-1450 Introduction to Oceanography

EAS-1420 Foundations of Atmospheric Science  
from EAS-1420 Introduction to Atmospheric Science

EAS-2210 Mineralogy Lab  
from EAS-2205 Mineralogy Lab

EAS-2440 Atmospheric Processes and Systems  
from EAS-2440 Atmospheric Processes

EAS-2530 Fundamentals of the Climate System  
from EAS-2530 Climate and Climate Change

EAS-3150 Broadcast Meteorology I  
from EAS-3150 Broadcast Meteorology

EAS-3330 Physical Meteorology I  
from EAS-3330 Atmospheric Thermodynamics

EAS-3340 Physical Meteorology II  
from EAS-3340 Physical Meteorology

EAS-4050 Petrology  
from EAS-3350 Petrology

EAS-4060 Petrology Lab  
from EAS-3355 Petrology Lab

EAS-4110 Surface Processes Lab  
From EAS-4105 Surface Processes Lab

EAS-4310 Structural Geology Lab  
From EAS-4305 Structural Geology Lab

EAS-4780 COMET Modules  
From EAS-3780 COMET Modules

**Change in credit hours**

EAS -2400 Field Techniques in Geoscience:  
Changed from 2 to 3 credits.

EAS -3900 SLU TV Practicum:

Changed from 1-3 credits to only 1 credit.

**Courses to be deleted**

EAS-1010 Earth Systems I-The Solid Earth

EAS-1020 Earth's Environment I Lab

EAS-1040 Earth's Environment II Lab

EAS-1180 Physical Geography Lab

EAS-1320 Natural Disasters

EAS-1330 Drifting Continents

EAS-1360 Beauty of the Atmosphere

EAS-1370 Meteorological Aspects of Emergency Response

EAS-1400 Energy Resources for a Sustainable Future

EAS-2110 Meteorological Analysis

EAS-2600 Environmental Science Seminar Series

EAS-3160 Broadcast Meteorology II

EAS-3250 Global Change

EAS-3310 Paleontology

EAS-4150 Instrumentation and Remote Sensing

EAS-4230 Micrometeorology

EAS-4500 Scientific Communications

EAS-4510 Seismic Exploration

EAS-4520 Seismic Exploration Lab

EAS-3400 Soils - Formation, Properties, Identification and Current Issues

**Courses to be removed because they duplicate a GIS course**

EAS-2170 Geographic Information System in Civil Engineering

EAS-4170 Introduction to GIS

EAS-4180 Intermediate GIS

EAS-4190 Geospatial Methods in Environmental Studies

EAS-4480 Introduction to Remote Sensing

EAS-4490 Microwave Remote Sensing: SAR Principles, Data Processing and Applications

EAS-4560 Interferometric Synthetic Aperture Radar to GIS 4110 (They thought this had already happened).

**Course to be deleted**

GIS-2170 Geographic Information System in Civil Engineering

**Prerequisite changes**

EAS 1420 Introduction to Atmospheric Science

EAS 1435 Introduction to the Solid Earth Lab  
EAS 2200 Mineralogy  
EAS 2400 Field Techniques in the Geosciences  
EAS 2440 Atmospheric Processes  
EAS 2450 Communicating in Science  
EAS 2530 Climate and Climate Change  
EAS 3100 Environmental Issues  
EAS 3150 Broadcast Meteorology  
EAS 3330 Atmospheric Thermodynamics  
EAS 3340 Physical Meteorology  
EAS 3500 Numerical Modeling Applications  
EAS 3350 Petrology  
EAS 3355 Petrology Lab  
EAS 3780 COMET Modules  
EAS 3900 SLU TV Practicum  
EAS 4030 Elements of Air Pollution  
EAS 4100 Surface Processes  
EAS 4105 Surface Processes Lab  
EAS 4140 Soil Science  
EAS 4200 Synoptic Meteorology I  
EAS 4220 Synoptic Meteorology II  
EAS 4280 Environmental Geochemistry  
EAS 4300 Structural Geology  
EAS 4270 Earth Dynamics  
EAS 4410 Hydrology  
EAS 4440 Principles of Dynamic Meteorology I  
EAS 4450 Principles of Dynamic Meteorology II  
EAS 4600 Introduction to the Physics of the Solid Earth  
EAS 4620 Introduction to Earthquake Seismology  
EAS 4680 Mesoscale Meteorology  
EAS 4720 Seismological Instrumentation

- f. Nominations Committee – Fenglian Xu (no report)
- g. Technology Committee – Jason Fritts (no report)
- h. Rank, Tenure and Promotion Committee (no report)

5. CAS Reorganization 5:00 pm

Discussion of whether and how FC should discuss CAS reorganization going forward, and whether to sponsor some sort of survey.

6. Representatives from other University bodies 5:05 pm



- a. Faculty Senate
- b. APR
- c. UAAC
- d. GAAC

7. Old Business

8. New Business

Motion to Adjourn 4:45pm

# Faculty Council Meeting 11/05/2020

## Dean's Report

- **APRC Update:** Phase 2 responses submitted; under review by APRC subcommittees
- **University Budget process** has begun; no new funding for next year; all “new” positions must come from reallocated college funds
  - Reminder: we are operating on a ~\$1.5m deficit this FY
- **New Jesuit Hiring Policy:** approved by CADD 10/30/2020
- **Development Opportunities**
  - Partnering with Parks Development office to seek STEM funding for shared areas of interest
  - Center for Humanities
- **Reminder:** Town Hall with President Pestello and Provost Lewis, Weds 11/11, 3:30 p.m.



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# SLU RESEARCH

COLLEGE OF ARTS & SCIENCES —  
FALL 2020 RESEARCH UPDATE

# SLU RESEARCH VISION

- **GROW SLU** into a preeminent Jesuit research university
  - Carnegie 1 Status
  - \$100M in annual research expenditures
  - Top Ranked Research Strengths
  - Eminent Scholars and Scientists
  - Leader in Innovation



# SLU RESEARCH STRATEGY

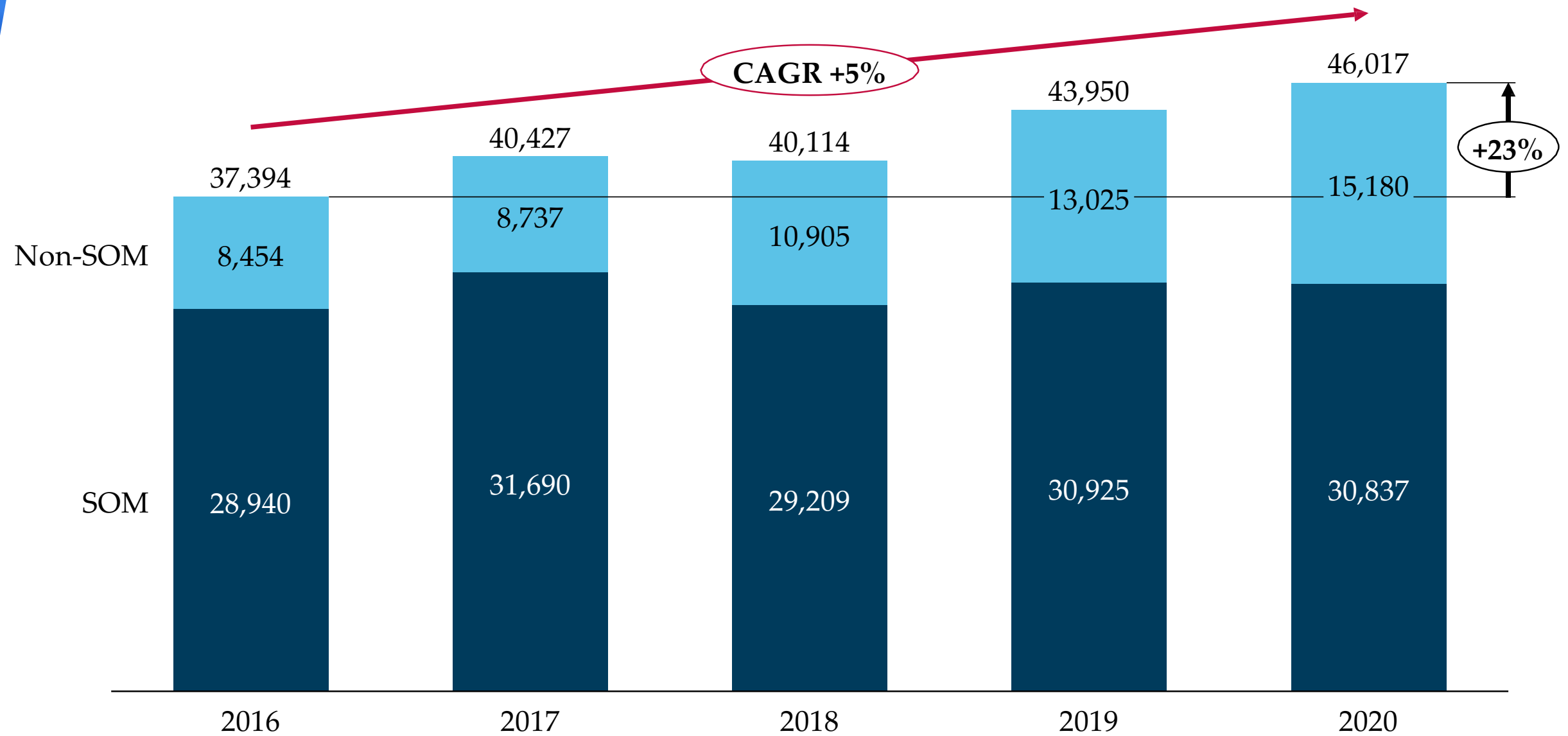
- Achieve and sustain **annual research expenditure growth** that places SLU among the fastest growing universities in the country
- Establish eminence in strategic, university-wide **research priority areas**
- Raise the **profile and reputation** of SLU as a world-class research university in the St. Louis area and around the world
- Recruit and retain **world-class research leaders** and provide significant investments in their work
- Leverage the Sinquefelds' \$50M gift to increase **federal, industry, and philanthropic funding** for research done at SLU





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## RESEARCH EXPENDITURES: OVERALL



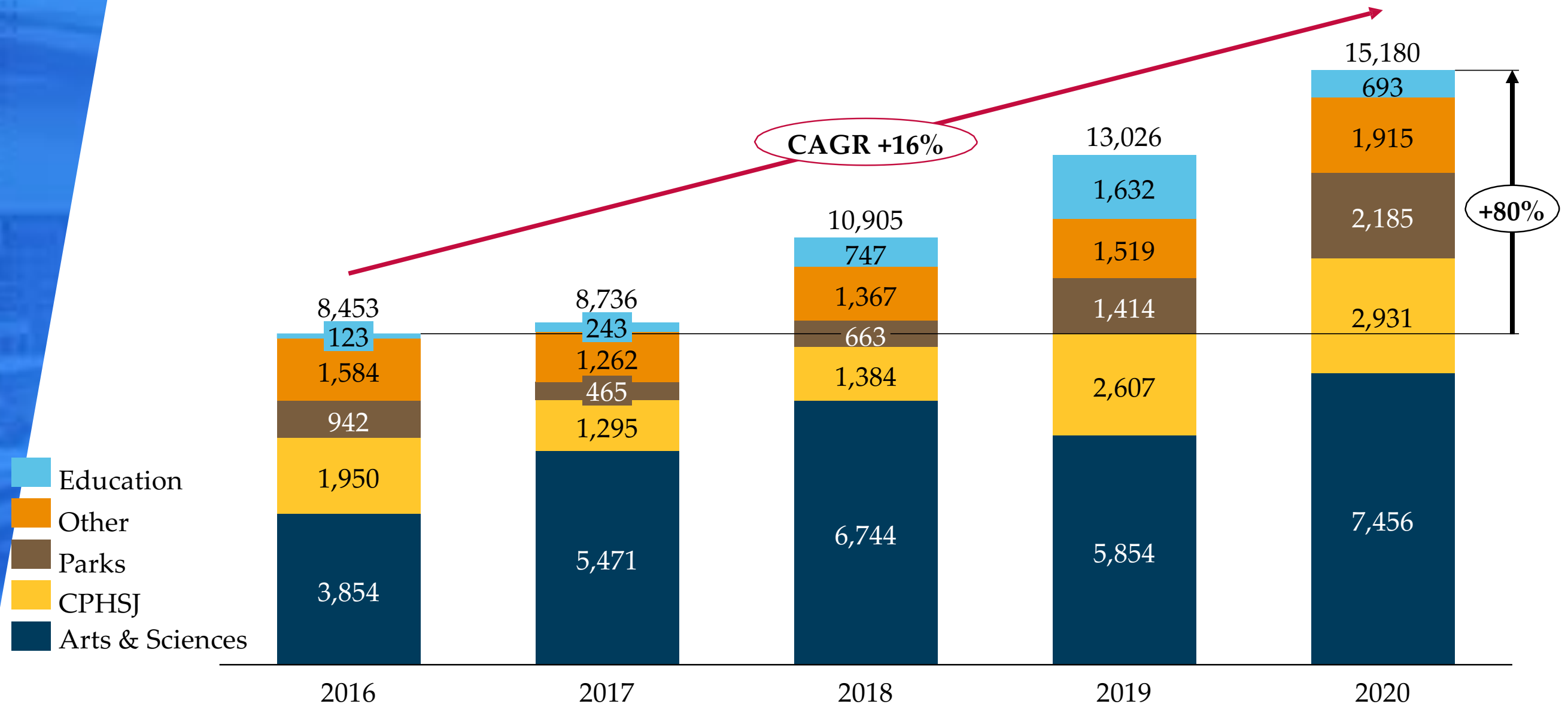
OVERALL: COMPOUND ANNUAL GROWTH OF 5%





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## RESEARCH EXPENDITURES: NON-SOM

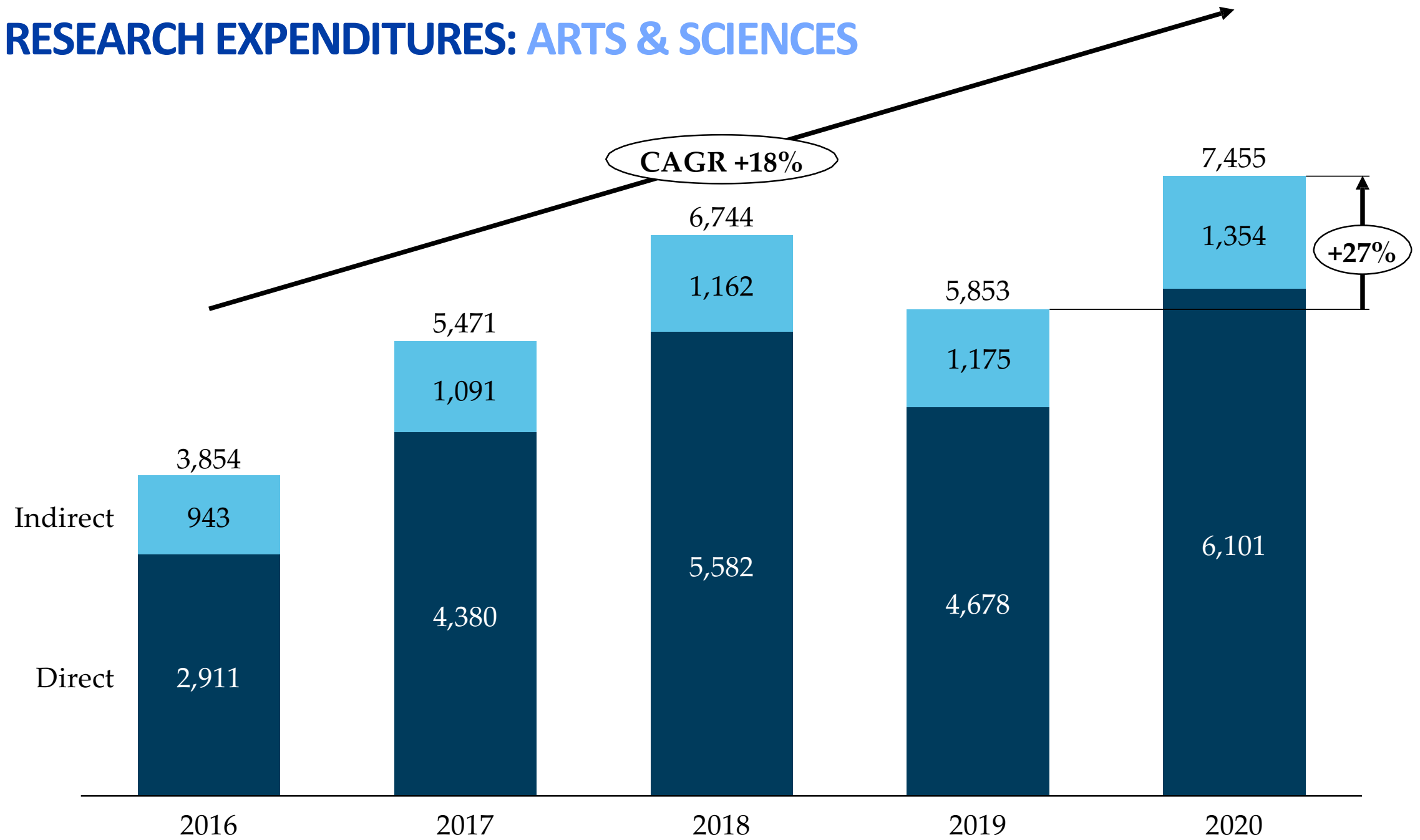


EXPLOSIVE GROWTH OUTSIDE SCHOOL OF MEDICINE



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## RESEARCH EXPENDITURES: ARTS & SCIENCES



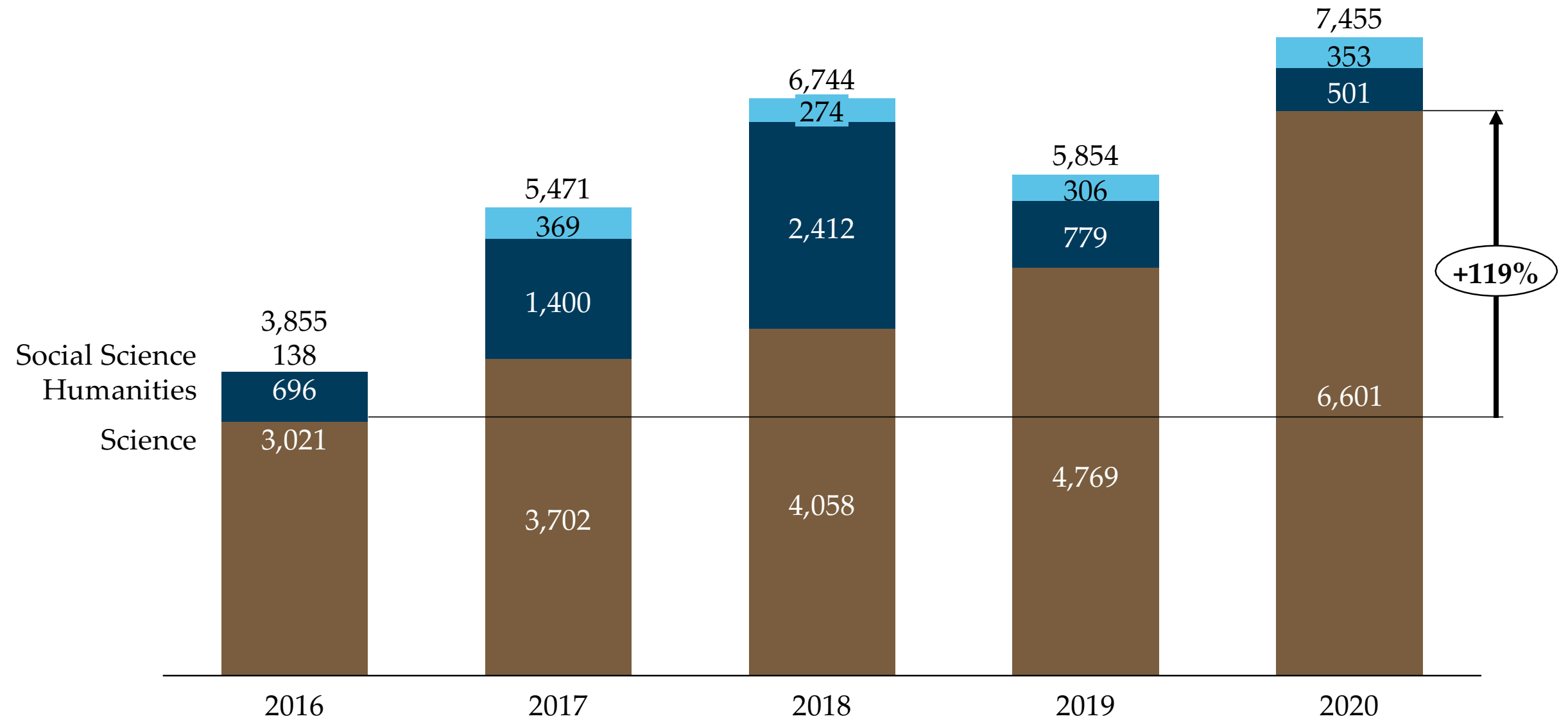
ARTS & SCIENCES HAS NEARLY DOUBLED IN FOUR YEARS





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## RESEARCH EXPENDITURES: BROAD FIELD



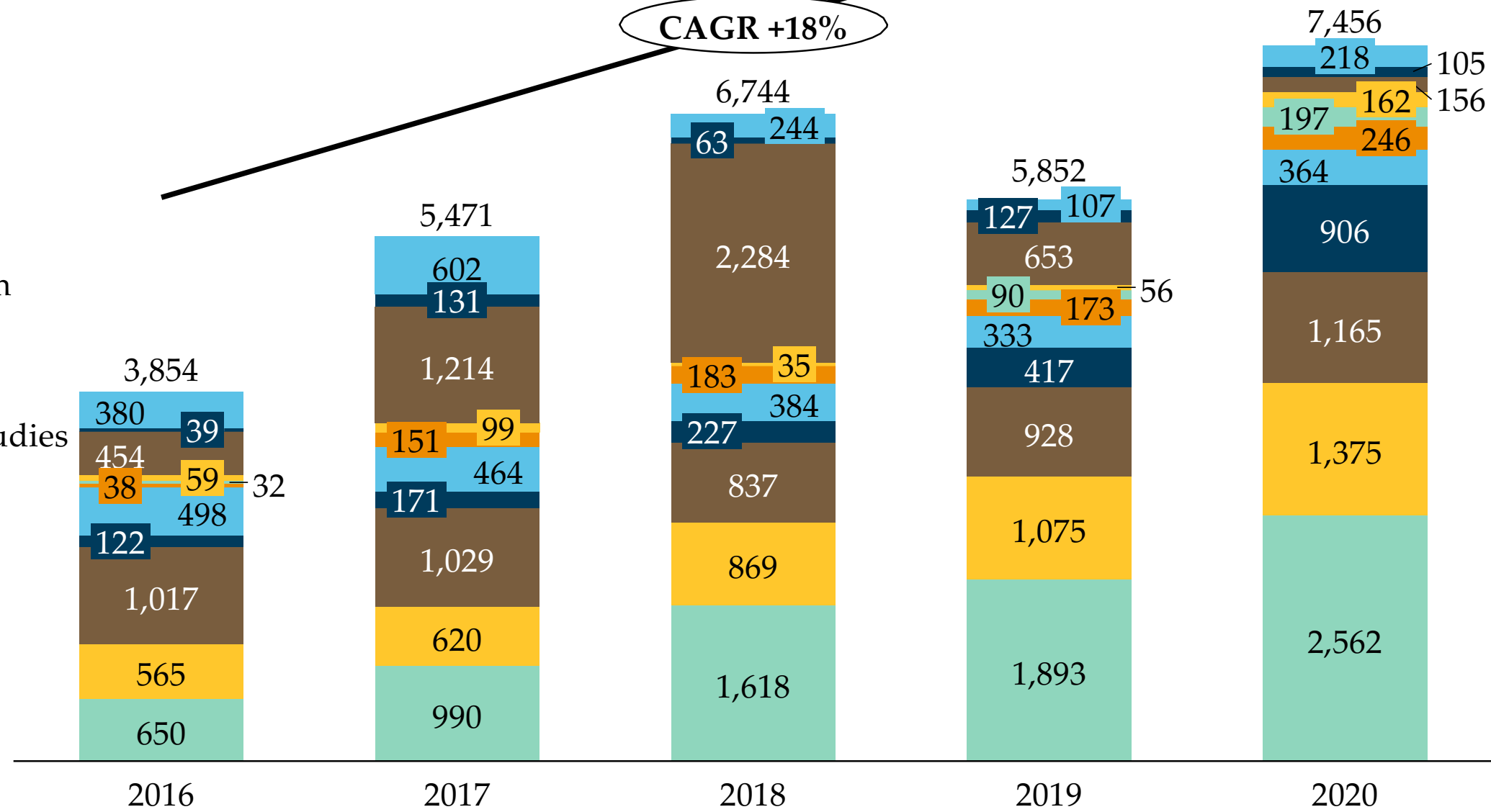
BIGGEST GROWTH IN SCIENCE FIELDS



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## RESEARCH EXPENDITURES: BY DEPT

- Other
- Prison Program
- Philosophy
- Math & Stats
- Theological Studies
- Soci & Anth
- Psychology
- Computer Sci
- EAS
- Chemistry
- Biology



DEPT BREAKDOWN



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Division Name	Dept Name (group)	Fiscal Year				
		FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Arts and Sciences	Admin. Arts & Sciences					13K
	American Studies	78K	0K		2K	60K
	Biology	650K	990K	1,618K	1,893K	2,562K
	Center for Sustainability	110K	329K			
	Chemistry	565K	620K	869K	1,075K	1,375K
	Communication	47K	72K	27K	5K	3K
	Computer Science	122K	171K	227K	417K	906K
	Digital Humanities		16K	26K	18K	-2K
	Earth & Atmospheric Sciences	1,017K	1,029K	837K	928K	1,165K
	English	50K	128K	54K	-2K	9K
	Ethics, Ctr. for Health Care	31K	-5K	1K		52K
	Fine & Performing Arts	0K		0K	9K	6K
	History	50K	47K	46K	7K	10K
	Mathematics & Statistics	59K	99K	35K	56K	162K
	Philosophy	454K	1,214K	2,284K	653K	156K
	Physics			89K	67K	67K
	Political Science	13K	15K			0K
	Prison Program	39K	131K	63K	127K	105K
	Psychology	498K	464K	384K	333K	364K
	Sociology & Anthropology	38K	151K	183K	173K	246K
Theological Studies	32K			90K	197K	
<b>Total</b>		<b>3,854K</b>	<b>5,471K</b>	<b>6,744K</b>	<b>5,854K</b>	<b>7,456K</b>

DETAIL BY DEPARTMENT

## SELECTED SCHOLARLY ACCOMPLISHMENTS

- Leonard McKinnis, Theological Studies, and Kate Moran, American Studies
  - Both won Louisville Institute grants of \$40K to advance their monograph projects this academic year.
- Julia Lieberman, Languages Literatures and Cultures
  - Won a William J. Fulbright Grant to Portugal
- Kira Banks, Psychology
  - Won grants from the Fahs-Beck Foundation, Deaconess Foundation, and Missouri Foundation for Health totaling over \$275,000 to support the Shut It Down initiative to end the school-to-prison pipeline for kids in St. Louis City schools.
- 7 faculty from 4 different departments submitted NEH Fellowship proposals



## SELECTED SCHOLARLY ACCOMPLISHMENTS

- Doug Boin, History
  - *Alaric the Goth: An Outsider's History of the Fall of Rome*, a new perspective on the Goths and the story of the fall of Rome, with W. W. Norton & Company
- Lorri Glover, History
  - Published biography of *Eliza Lucas Pinckney*, a woman of the Revolutionary War period, with Yale University Press
- Scott Berman, Philosophy
  - Published *Platonism and the Objects of Science*, with Bloomsbury Press



## SCHOLARSHIP OPPORTUNITY FUND

- The first round awards administered by the Scholarship Research Council totaled \$27,375 – for completing monographs and articles, organizing workshops/conference, submitting grant proposals, etc
  - Leveraged matching funds of \$43,700 in external funding
- Following the first group of awards, the Fund has made over \$50K in additional awards leveraging over \$130K in matching funds to 20+ faculty members





## EMINENCE IN RESEARCH PRIORITY AREAS

- **5 Big Ideas launched**
  - Geospatial Institute
  - Water Institute
  - Drug & Biotherapeutic Innovation
  - Institute for Healing Justice and Equity
  - Advanced Health Data Research
- Institute for Vaccine Science & Policy
- SLU Poll
- Center for Additive Manufacturing



## AREAS OF FUTURE EMINENCE

- Neuroscience
- Artificial Intelligence
- Humanities
- People and Technology Horizon (PATH@SLU)
- Applied Research in Interdisciplinary STEM Education (ARISE)
- Human Resiliency

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## SLU RESEARCH: CURRENT YEAR PRIORITIES

- Provost / President
  - Research Productivity / Analytics
  - Areas of Impact / Centers of Excellence
- RI Fellows - Existing Faculty
- RI Fellows - New Recruits
- Regional Leadership: National Center for Location Sciences
- Innovation / Industry
- SOM Research Growth Plan

# Proposed Areas of Impact



**Improving Health & Wellbeing:** *We provide compassionate care for the whole person and enable humanity to flourish through the development of new prevention and treatment strategies.*

Example Activities: chronic pain, systems biology, happiness studies, health care ethics, health law, drug discovery, medical humanities, tissue engineering, social determinants of health, vaccine development



**Understanding & Engaging the World:** *We reflect on our shared cultures, histories, faiths, and world views to pursue understanding and social justice for the common good.*

Example Activities: African politics, Catholic intellectual heritage, ethics, global cultures & histories, Jesuit and Catholic studies, medieval and Renaissance culture, the nature of God, history of theology



**Harnessing Data & Technology:** *We improve life through technology while developing a deep appreciation for the people and communities that will be affected by these advances.*

Example Activities: artificial intelligence, cybersecurity, digital humanities, geospatial technology, health informatics, supply chain management, social media and identity, additive manufacturing



**Cultivating Vibrant Urban Communities:** *We engage with and empower our regional and global community to educate, support, advocate, and heal.*

Example Activities: art activism, communicable diseases, critical race studies, emergency management, healing justice and equity, health disparities, jail re-entry prevention, urban education policy



**Caring for Our Shared Home:** *We care for our shared home through sustainable practices, policy changes, political action, technology, and education.*

Example Activities: animal studies, climate change, ecocriticism, insect communication, microplastics, origin of life, sustainable food supplies, urban pollinators, water and the built environment

