



College of Engineering Rio Tinto Kennecott Mechanical Engineering Building Phase 3 Expansion



Infrastructure & General Government Appropriations Subcommittee
February 7, 2020



COLLEGE OF ENGINEERING

Departments and Programs

Bioengineering

Civil and Environmental Engineering

Nuclear Engineering (MS, PhD)

Chemical Engineering

Mechanical Engineering

Materials Science and Engineering

Electrical and Computer Engineering

Computer Engineering

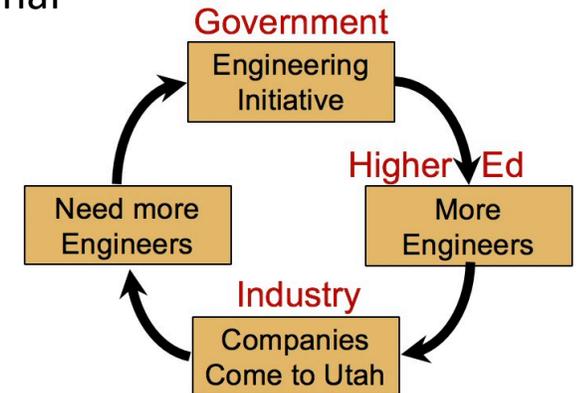
School of Computing

Data Science

Entertainment Arts and Engineering

Utah SB 61: 2001 Utah Engineering Initiative

- Increase the number of engineering and computer science graduates to advance the “well being of the State and its citizens.”
- Improve the quality of instructional programs
 - Faculty
 - Programs
 - Capital facilities
 - Equipment
- Matching On-Going Funds
The U of U continually exceeds it's annual commitment for number of graduates



ENROLLMENT GROWTH

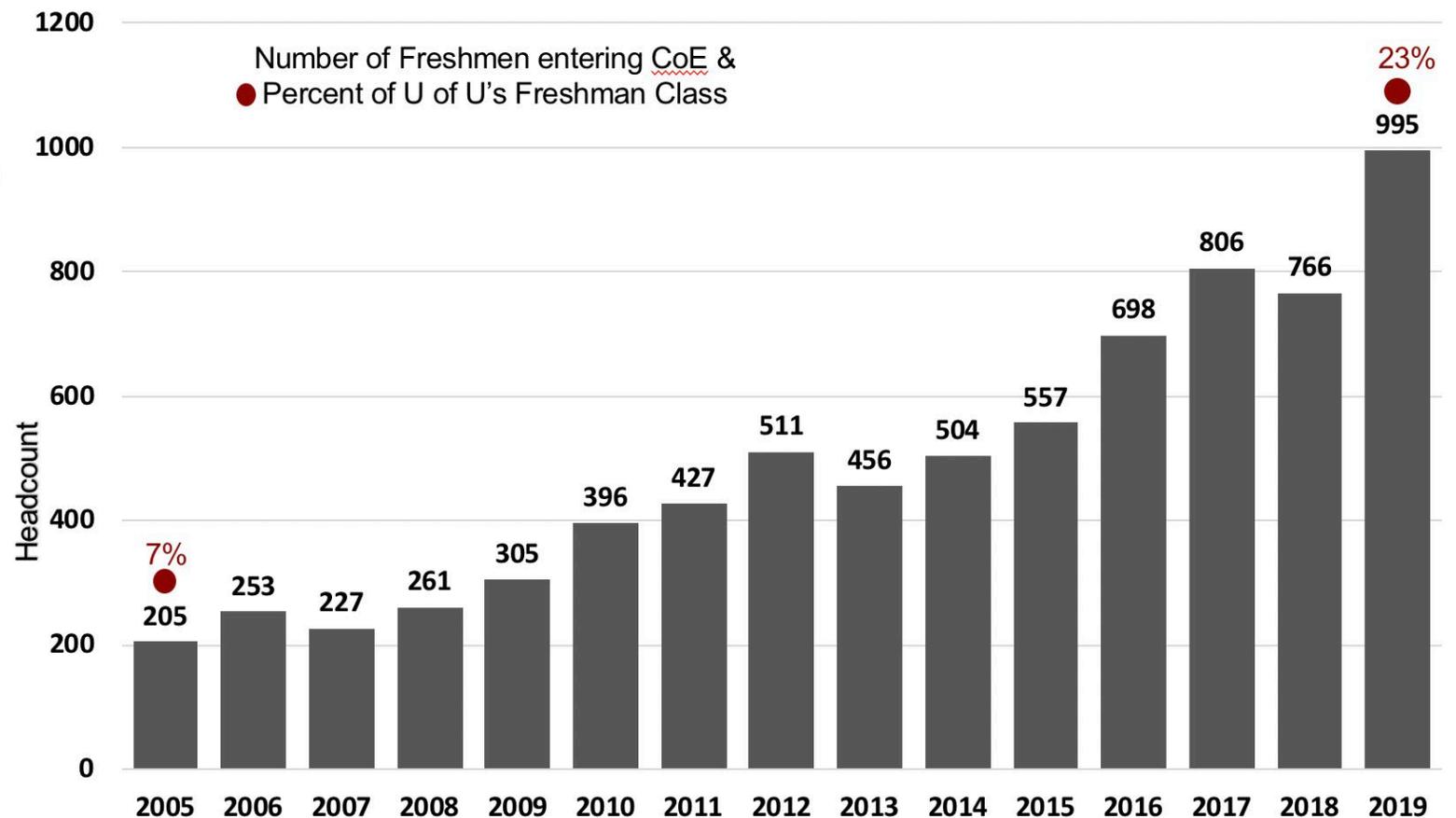
Engineering is the fastest growing college at the U of U

Enrollment has grown from 7% of the freshman class to 23% over 14 years

Current Enrollment (Fall 2019 census)

- 5,803 Engineering Students
 - 4,548 Undergraduate
 - 553 Masters
 - 702 Ph.D.

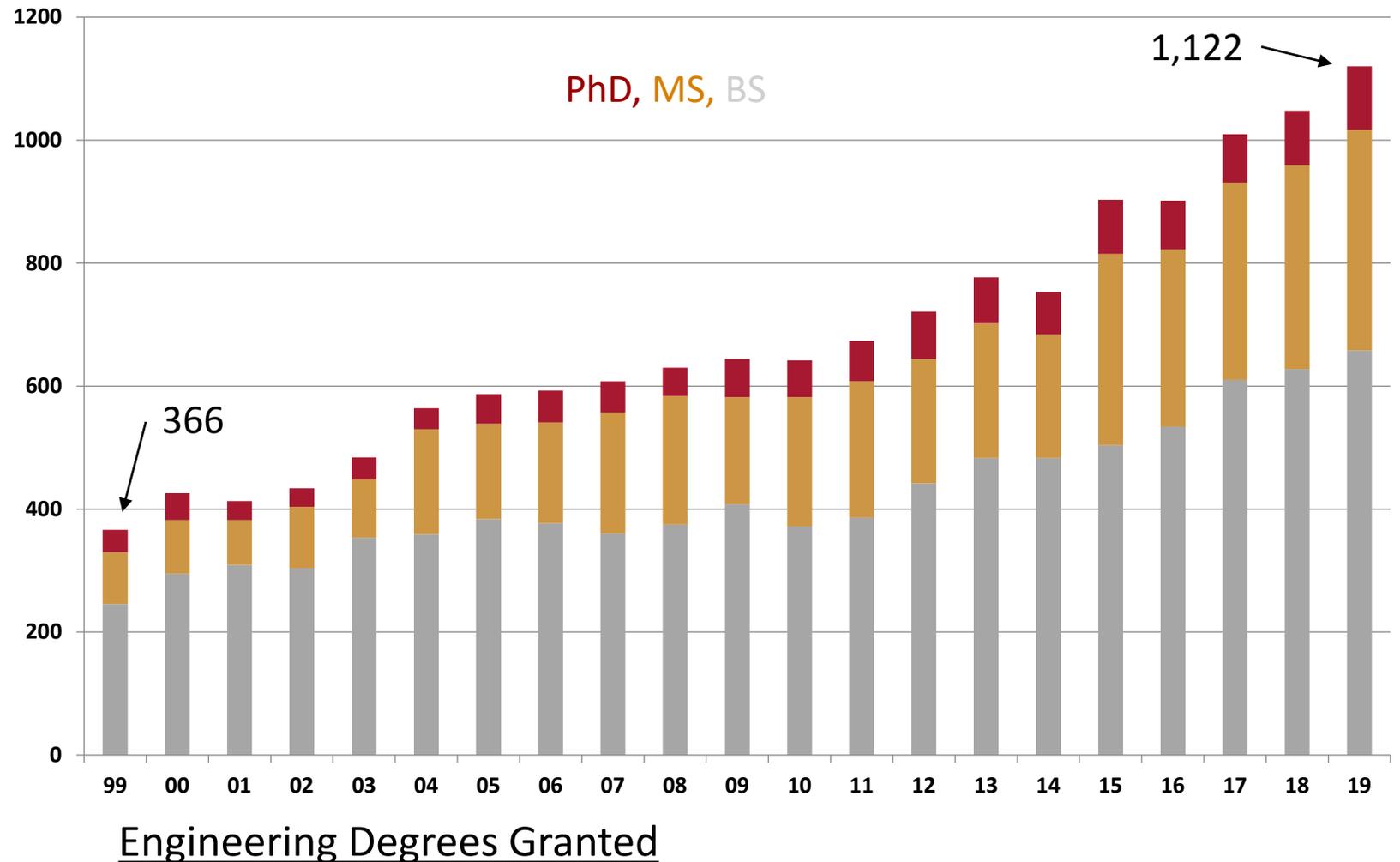
Freshman Enrollment Growth in Engineering: 2005 - 2019



PROGRESS & ACCOMPLISHMENTS

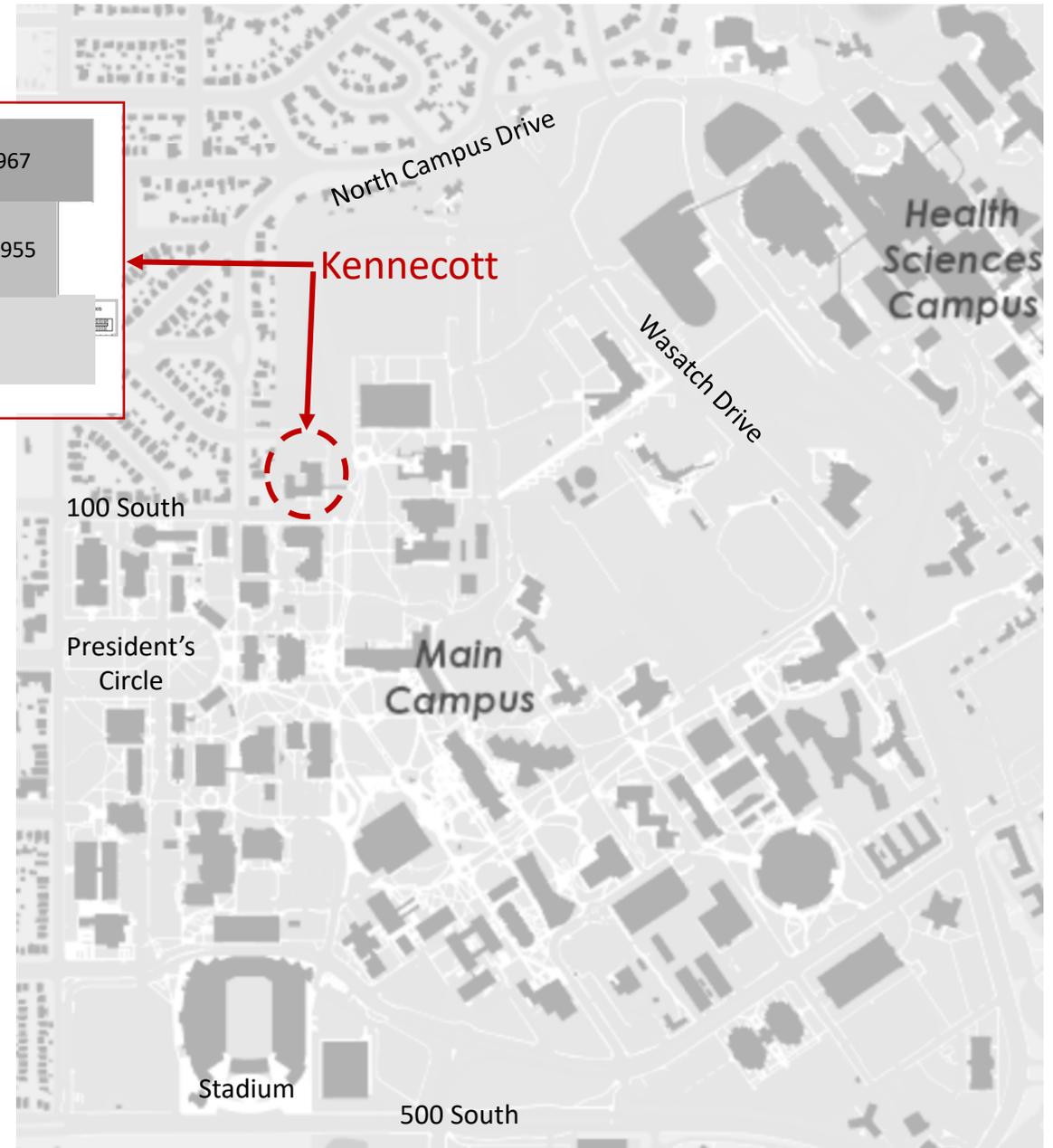
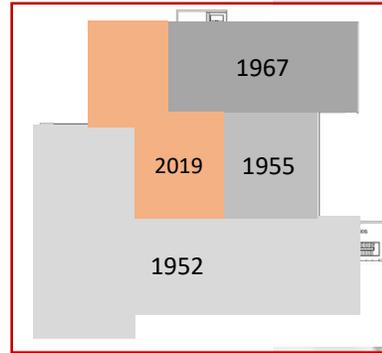
Engineering degrees at the U have increased from 366 per year to 1,122 per year over the past 20 years

- 659 Bachelors of Science
- 360 Masters
- 103 Ph.D.



KENNECOTT BUILDING

- 1952: Constructed as a Research Facility for the Kennecott Copper Corporation
- 1955: Additions to the northeast
- 1967: Addition to the north
- 1997: U of U takes possession of the building
- 2002: Remodel
- 2004: Upgrades to electrical service, fire alarm system and fire sprinkler system
- 2008: Master Plan Prepared**
- 2013: Phase 1 Renovation of South Wing & Mechanical Upgrades
- 2015: Phase 2 Northeast Wing & Pedestrian Bridge
- 2019: Phase 3 Infill**



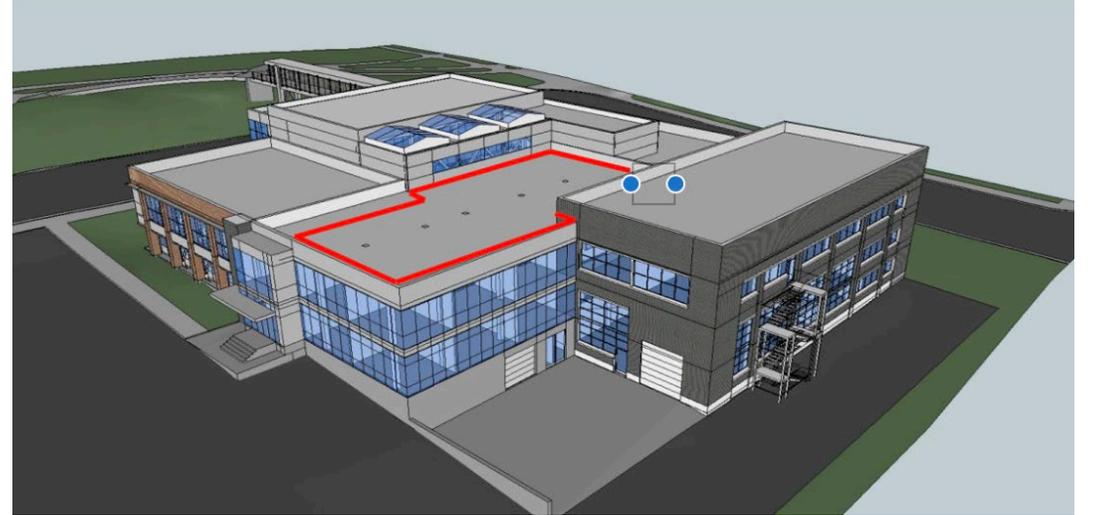
PROJECT SCOPE

Space Need

- ME faculty hires funded by the Utah Engineering Initiative
- Faculty & Labs housed in other buildings (freeing up space for other growing programs)

Program

- 18,089 sq. ft. 3-story “Infill”
 - 15 Offices - for 10 faculty & 25 students
 - 10 Undergraduate & Graduate Labs
 - Design spaces
 - Mechatronics teaching space
 - Thermal Fluid Energy Systems teaching facility



BUDGET & FUNDING

Project Cost:

Construction \$6,743,780

Soft Costs: \$2,941,267

Total Project Cost: \$9,685,047

Source of Funds:

Institutional Funds and Donations

State Funded O&M Increase: \$162,100

18,089 gsf x \$8.96 for classroom/office type space

Eligibility for State Capital Improvement Funds

