

# **New College**

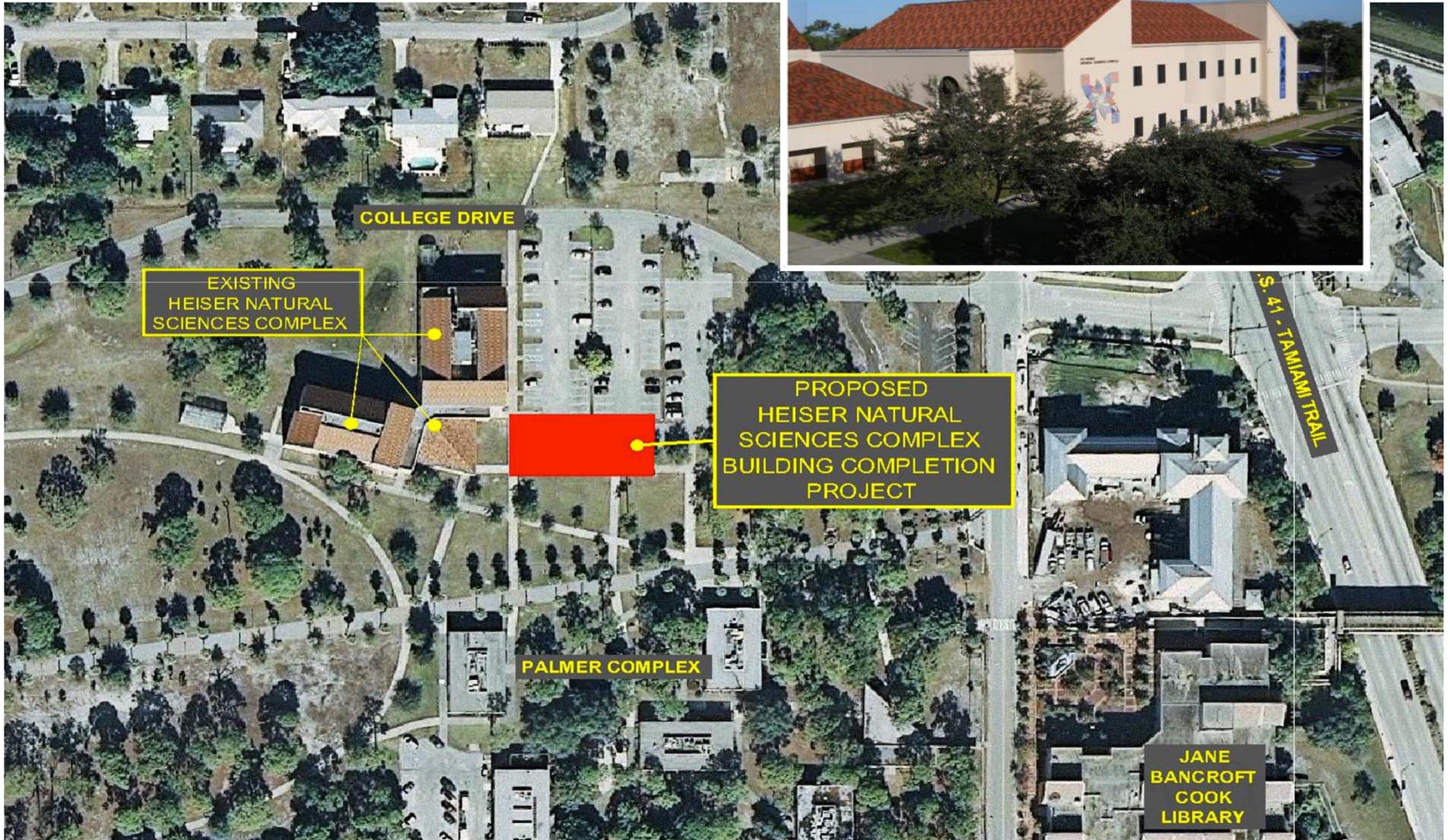
## **Heiser Natural Sciences Addition**

State University System of Florida

Board of Governors Facilities Committee Workshop

September 22, 2015

# Heiser Natural Sciences Addition



## RETURN ON INVESTMENT

### Increasing the Number of STEM Degrees, Access and Student Success

- ✓ The percentage of New College of Florida bachelor's degrees awarded in STEM majors in 2015 was 27% (48 STEM degrees). The six new research laboratories will be able to accommodate 4 to 6 research undergraduates, leading to 24 to 36 more STEM graduates per year. **By 2020, we expect the percentage of New College of Florida bachelor's degrees awarded in STEM majors to increase to 41%.**
- ✓ This project will increase access and success in NCF science and math programs for STEM and all majors. In Fall 2015, a total of 497 (55%) of all NCF enrolled students are enrolled in at least one STEM course.
- ✓ A larger number of slots in laboratory classes each semester will help students complete their graduation requirements in a shorter time. New science laboratories are likely to improve retention of first year students taking introductory laboratory classes in the sciences.

## RETURN ON INVESTMENT

### Jobs

- ✓ The new Data Science masters program (which will be housed in the Heiser Addition) has business partners that will provide guaranteed internships for the students during their second year in the program, and these internships are expected to lead to lucrative jobs that will benefit the state. When the new building is completed, the masters program will be completely developed and there will be 15 masters students graduating each year, likely with multiple job offers.
- ✓ It is estimated that by 2020, the growth in STEM undergraduate and graduate degrees supported by this facility will produce 40 to 50 additional outstanding graduates to meet Florida's workforce needs.

### Externally Funded Research

- ✓ The Heiser Addition will allow NCF to at least double externally funded faculty research. All research money directly benefits undergraduates, who get advanced training in science and go on to contribute to Florida's research efforts.

## DEMAND METRICS

- ✓ Current space lacks research and teaching labs for bioinformatics, molecular biology, earth science, bioorganic chemistry and biology/environmental studies.
- ✓ Data science masters and computer science bachelor's programs will be housed here.
- ✓ Current space lacks faculty office and lab areas needed to meet increasing student enrollment in STEM laboratory courses.
- ✓ This new space will be able to accommodate growth for up to:
  - **40** students taking **biology courses**
  - **60** students taking **chemistry** and
  - **60** students in other math and science disciplines.

## DEMAND METRICS

### New Space:

- 21,975 gross/14,650 net square feet.
- 3 large modules, each including: teaching lab, research lab, faculty offices, support space.
- 3 small modules, each including: teaching lab, research lab, faculty offices.
- Support space including: lobby, restrooms, elevator, mechanical, custodial, electrical, IT, data, circulation.
- Anticipated construction start date: July 2016
- Estimated completion date: September 2017

## CURRENT REQUEST: \$5,245,000

Total Project Budget:		<u>\$8,900,000</u>
Prior Funding Received	\$ 3,655,000	
Current Request	\$ 5,245,000	
Remaining Need	\$ 0	

Plant Operations & Maintenance Budget: \$ 346,000

Changes to the Budget Since the August 2014 Request Include:

- Prior funding received includes \$655,000 planning funds (2014) plus \$3 million in construction funds (2015).
- The total project budget increased from \$8.1M to \$8.9M (9.9%) over 2014-15 to account for a projected increase in construction costs.