

National Association of College and University Business Officers

Continuous Improvement

Becoming an efficient and effective university through Continuous Improvement

Tuesday, September 13th – 10:15am

Presented by:

Dr. Paul N. Friga, UNC-CH and ABC Insights® Brian P. Fairhurst, Florida State University



Your hosts for this session



Dr. Paul N. Friga - pnf@unc.edu

- Clinical Associate Professor of Strategy, UNC Kenan-Flagler School of Business;
- Chief Strategy Officer and Co-Founder, ABC Insights (Benchmarking Consortium)
- Paul earned a B.S. degree in Management and Accounting from St. Francis University (served on Board of Trustees) and an MBA and Ph.D. from the UNC-Chapel Hill, Kenan-Flagler Business School

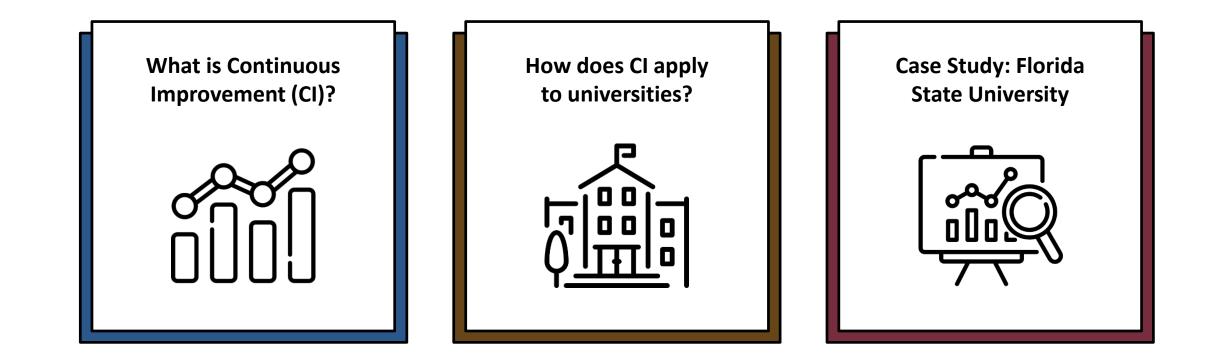


Brian P. Fairhurst - bfairhurst@fsu.edu

- Director of Continuous Improvement at Florida State University
- Brian has worked at Florida State University for over 15 years, serving as Associate Lab Director of a National Lab, Special Advisor to the Vice President of Research, and facilitator of initiatives designed to improve campus-wide efficiency and effectiveness.



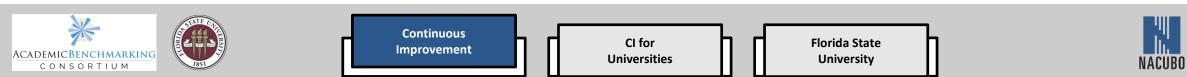






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Lets hear from you

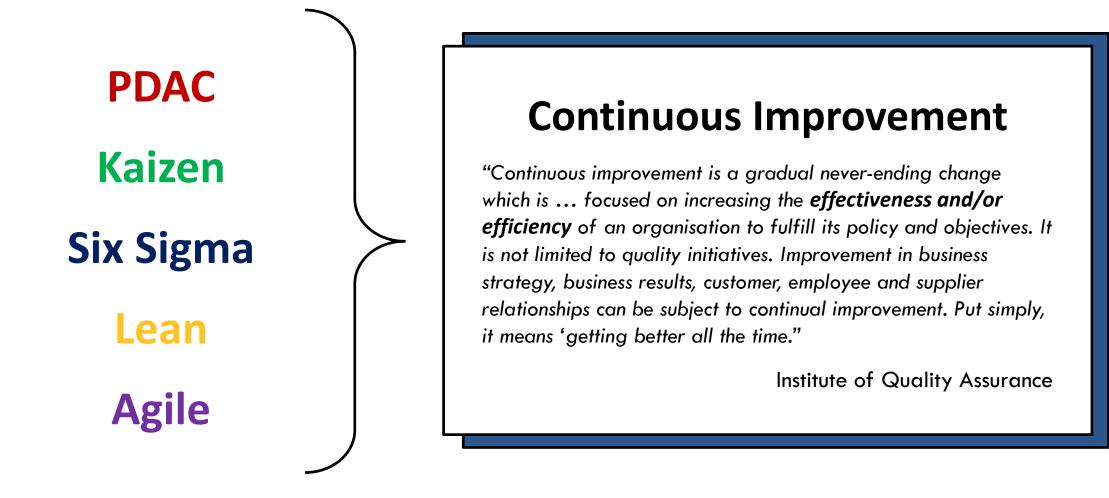


Source: KaiNexus and Institute of Quality Assurance









Source: KaiNexus and Institute of Quality Assurance





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However, "success rate for Continuous Improvement efforts is less than 60 percent"

-McKinsey

Source: McKinsey and KaiNexus



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Florida State University



What leads to successful outcomes?



Source: Deloitte



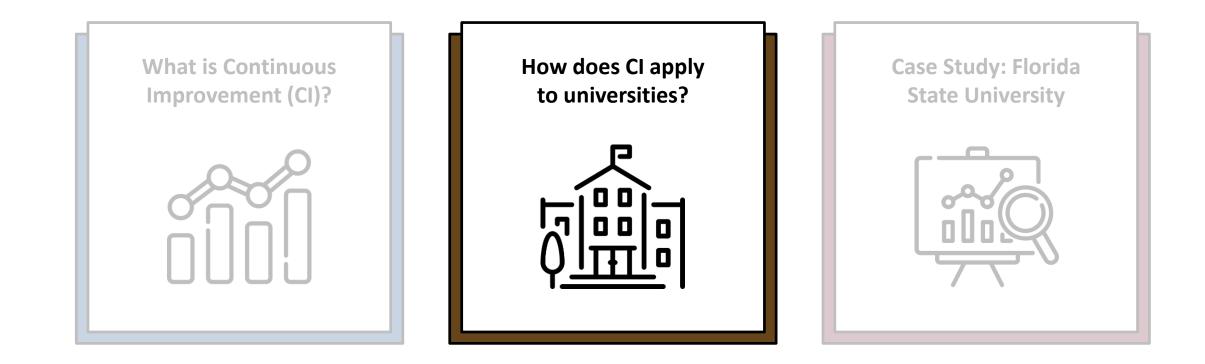




Florida State University



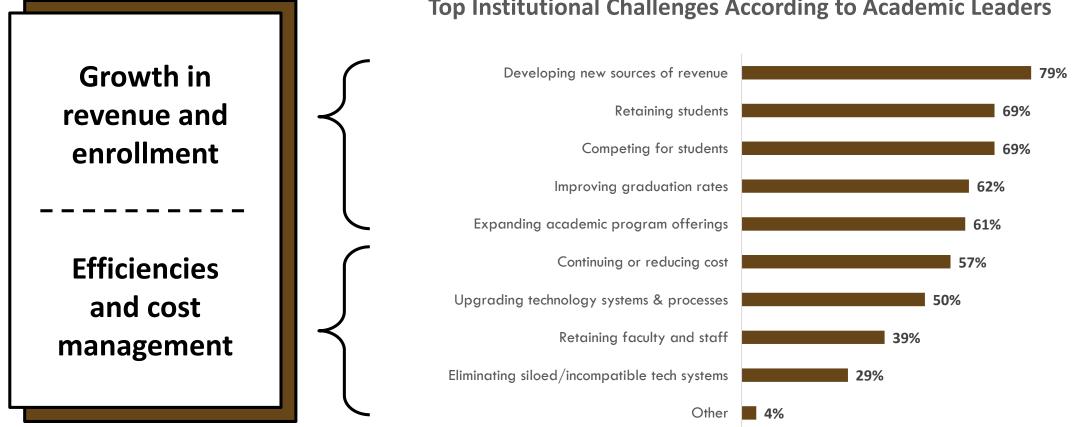
How does Continuous Improvement apply to universities?





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Growth and efficiency are key challenges at universities today



Top Institutional Challenges According to Academic Leaders

Source: Chronicle of Higher Education







A 2017 survey of institutions found that **91 percent** of colleges report that they are investing in descriptive data and analytics in some way, and **89 percent** report that they are investing in predictive data and analytics in some way.

Only **40 percent** of college representatives agree that they "are able to implement the results of student success analytic studies effectively"

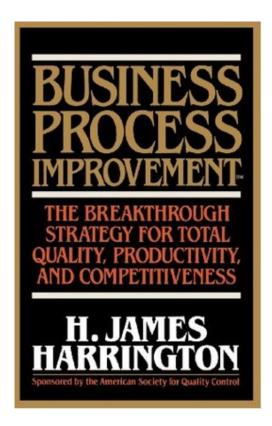
Source: Institute for College Access and Success







Benchmarking is key to process improvement



".... If you can't measure something, you can't understand it.

If you can't understand it, you can't control it.

If you can't control it, you can't improve it."

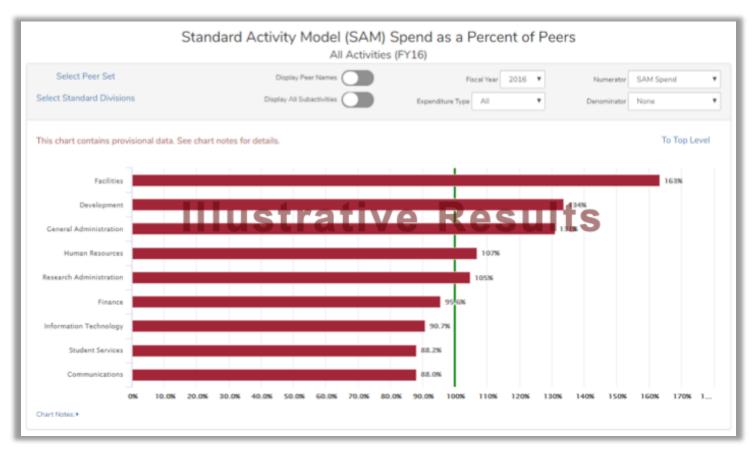






We formed a University Consortium to share data

ABC Insights[®] Standard Activity Model (SAM)



ABC Insights® Mission

To improve decision-making in higher education by providing reliable benchmarking data and insights

In the Chronicle of Higher Education

What Does It Mean to Be an Efficient University?

Top-Ranked Colleges Spend Their Money Differently From the Rest. Here's How.

Source: ABC Insights®



Cl for Improvement Universities University



Many of the most efficient US universities use data for CI



(Blue = ABC Member)

Efficiency Rank	University (state)	U.S. News National Universities Rank	Overall Score	Financial Resource Rank	Spending per student for each point in U.S. News overall score
1	Miami University – Oxford (OH)	78 (tie)	55	226	\$362
2	Florida State University	81 (tie)	54	211	\$390.18
3	Brigham Young University – Provo (UT)	61 (tie)	174	174	\$411.92
4	San Diego State University	140 (tie)	42	250	\$413.62
5	Binghamton University – SUNY	87 (tie)	53	190	\$436.49
6	University of Alabama	110 (tie)	48	211	\$443.19
7	College of William and Mary (VA)	32 (tie)	70	111	\$466.87
8	Clark University (MA)	81 (tie)	54	163	\$481.80
9	University of Georgia	54 (tie)	62	121	\$484.40
10	Arizona State University – Tempe	115 (tie)	47	197	\$489.01
11	Texas Christian University	78 (tie)	55	158	\$489.16
12	Indiana University – Bloomington	90 (tie)	52	163	\$493.10
13	University of Texas – Dallas	145 (tie)	41	217	\$494.94
14	DePaul University (IL)	120 (tie)	46	197	\$497.35
15	Clemson University (SC)	67	59	129	\$501.72
16	University of South Carolina	103 (tie)	49	179	\$501.77
17	Auburn University (AL)	103 (tie)	49	174	\$517.16
18	George Mason University (VA)	140 (tie)	42	202	\$522.68
19	Villanova University (PA)	46 (tie)	64	103	\$524.05
20	St. John Fisher College (NY)	145 (tie)	41	202	\$528.42
21	Virginia Tech	69 (tie)	57	114	\$546.37
22	Stevens Institute of Technology (NJ)	69 (tie)	57	114	\$552.13
23	University of Missouri	120 (tie)	46	163	\$556.18
24	University of Oregon	103 (tie)	49	147	\$561.80
25	Duquesne University (PA)	120 (tie)	46	163	\$565.05

Source: <u>US News</u>



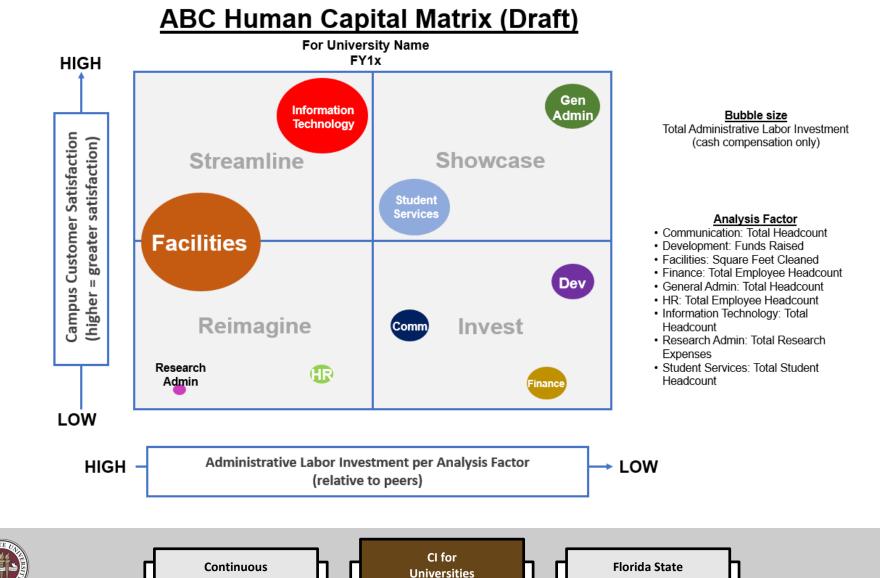




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We evaluate administrative investment on a campus

Improvement



University



Source: ABC Insights®



Popular solutions towards Continuous Improvement efforts

- 1. Make it easy for faculty, administration and staff to suggest ideas for improvement
- 2. Opportunities for improvement are evaluated and action plans developed
- 3. Ensure forward progress with active alerts and notifications
- 4. Create a repository of institutional knowledge and capture best practices
- 5. Simplify assessing the impact of implemented improvements
- 6. Broadcast success
- 7. Give leaders insight into the health of improvement culture across the entire institution

Source: KaiNexus











Florida State University



- Main Campus: Tallahassee, FL
- Carnegie Classification Public R1
- Almost 42,000 Undergraduate and Graduate Students
- Over 6,700 Faculty and Staff
- \$1.2 Billion Operating Expenses
- Designated a Preeminent University in Florida
- US News and World Report
 - #26 National Public Universities
 - #1-2 Most Efficient University
- Kiplinger's Personal Finance
 - # 3 Best Value Public Out of State Students
- Insight into Diversity Magazine
 - Higher Education Excellence in Diversity (HEED) Award 2014, 2015, 2016, 2017 ad 2018
- Fitch Ratings Incorporated
 - AA+ Rating 4th in U.S.



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Performance (Florida) - System and University Goals

State University System of Florida Strategic Goals

Florida State University Strategic Goals

	EXCELLENCE	PRODUCTIVITY			
			PRIORITIES		Deepening our Distinctive Commitment to
TEACHING &	Strengthen Quality & Reputation	Increase Degree Productivity and Program	Increase the Number of Degrees Awarded within		Continuous Innovation
LEARNING	of Academic Programs and Universities	of Academic Programs Ffficiency Programs of Strateg	Programs of Strategic	tegic	Amplifying Excellence Across Our Academic and Research Programs
SCHOLARSHIP, RESEARCH, & INNOVATION	Strengthen Quality & Reputation of Scholarship, Research, and Innovation	Increase Research Activity and Attract More External Funding	Increase Commercialization Activity		Realizing the Full Potential of Diversity and Inclusion
COMMUNITY &	Strengthen Quality & Recognition of	Increase Community and	Increase Community and Business Workforce		Ensuring Student Success on Campus and Beyond
BUSINESS ENGAGEMENT	Commitment to Community	Increase Community and Business Engagement			Investing Strategically in Our Institution and Reputation

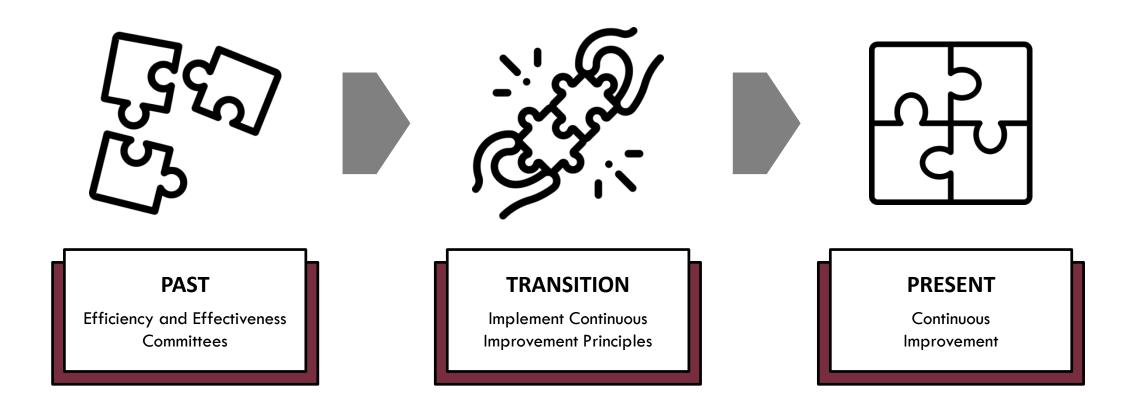
Source: State Univ. System of Florida







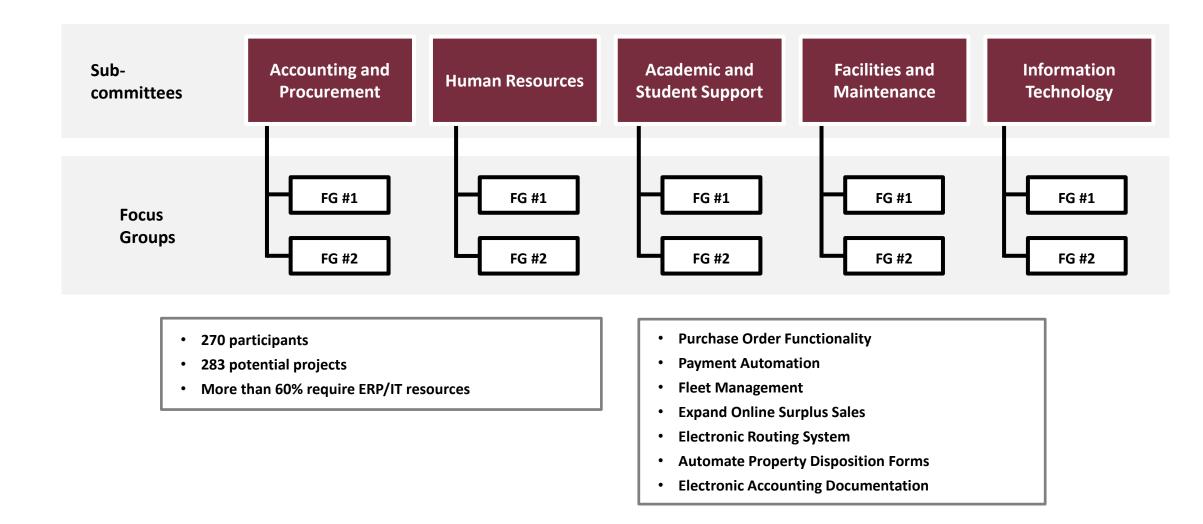
Efficiency and Effectiveness Committee to Continuous Improvement



ABC Insights[®] allows transparent conversation about improvement opportunities



Efficiency and Effectiveness Committee





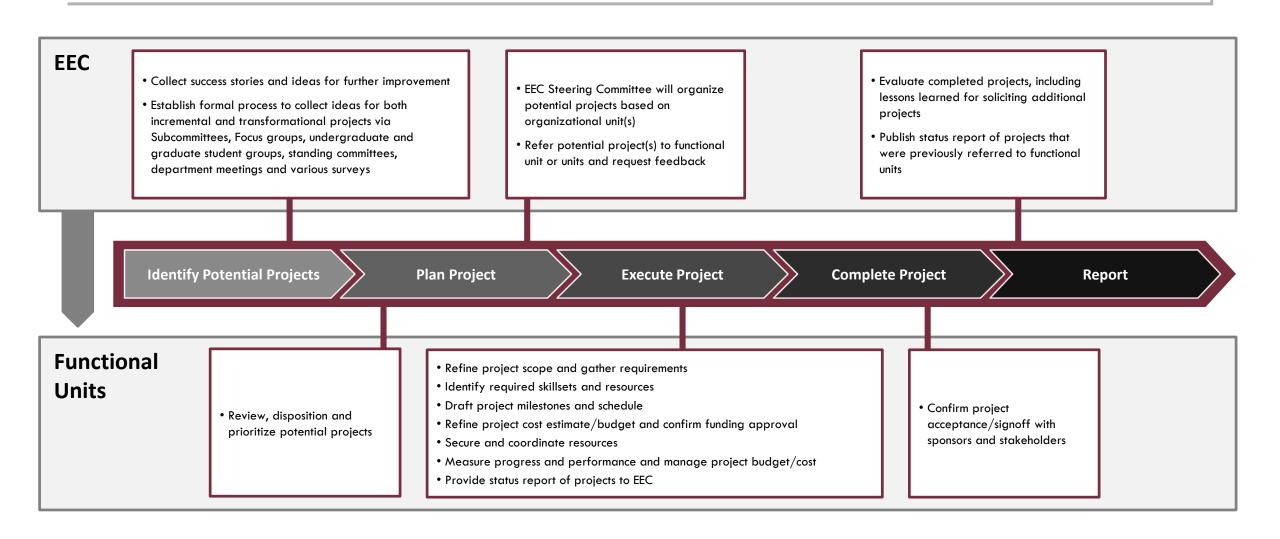
Continuous Improvement

CI for Universities Florida State University



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Roadmap for Integrating FSU EEC Activities with Functional Units





Lessons Learned from Efficiency and Effectiveness Committee

- Efficiency efforts focused on obtaining the best value for the university whether it is through sustainable cost reductions or through cost avoidance
- Recommendations provided did not necessarily contain projected cost savings, but rather presented improved operational efficiencies and services
- Sharing of successes with university stakeholders promotes alignment of more business-like structures and procedures that support the work of academic colleagues

Florida State

University



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Transition to Continuous Improvement

- Introduce within FSU organizational improvement methodologies that are commonly used by leading
 organizations worldwide and which support FSU's strategy, commitments and goals
- Guide the implementation of campus-wide efforts to build continuous improvement (CI) into our
 organizational culture and day-to-day business practices with the goal of making services simpler, faster,
 better quality, and available when administrators, faculty, staff and students need them
- Create a network of data/analytics experts to identify CI opportunities and sustain the effort over time. and provide CI leadership within their offices and workspaces
- Establish longer term benchmarks and milestones for program implementation.







FSU is USNWR one of the most efficient universities. How can we further improve?

- Are we able to access benchmark data in a standardized, meaningful way that is trended over time and comparable to relevant peers?
- In what areas am I spending more than my peers? Am I overinvested?
- In what areas am I spending less than my peers? Am I underinvested?
- Am I comparatively invested well in key priority areas?
- Based on peer comparison, where might there be opportunities for continuous improvement?

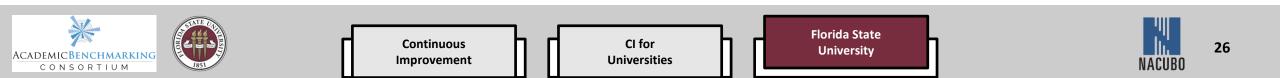


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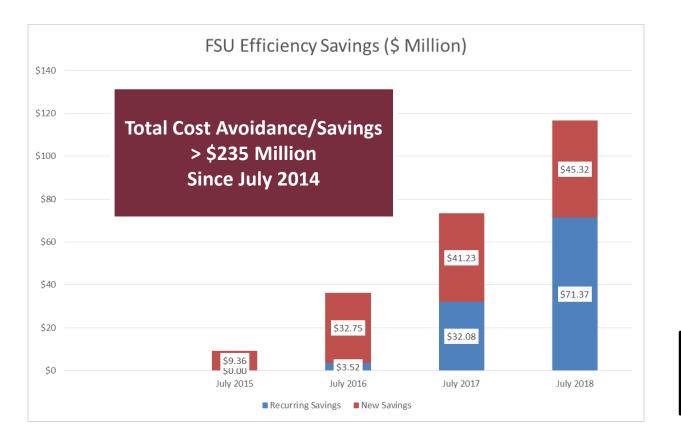


Insert slides from IT case study that is currently being developed by Scott Brees



Successes

Annual Efficiency Savings Since July 2014



July 2018 Efficiency Savings

New Savings of \$45.32 Million

Highlights

Procurement Savings – Cooperatives/Consortiums	\$17.6M
Procurement Savings – Other Savings	\$7.8M
FSU Take 15 Initiative	\$7.4M
Procurement Savings – Shared Initiatives	\$5.1M
Shared Services Energy Management Program	\$2.3M
Bookstore Contract	\$1.2M
Enterprise Software Licensing Agreements	\$1.1M

FSU received nine of the twelve 2019 Prudential Productivity Awards that were distributed to universities in the State University System







Successes/Lessons learned

- For the seventh consecutive year, Florida State University is among the most efficient of the nation's highest ranked universities, according to U.S. News and World Report
- Drivers for efficiency and value for money are about more than just cost cutting. Florida State University is responding to a more competitive environment, with the needs of a diverse student community paramount, and investing any savings into areas that benefit academic programs for students
- Florida State has taken significant steps to become a university known for low tuition, high quality education and the most efficient operations. The cost per degree in the FL state university system has decreased from \$15,110 to \$9,450 in the most recent 5 years and Kiplinger's Personal Finance has ranked FSU #3 as a Best Value Public University for Out-of-State Students
- While Florida State continues to be one of the nation's most efficient universities, the university also has risen in national academic rankings in recent years. Florida State University jumped to No. 26 among national public universities in the most recent U.S. News & World Report rankings. FSU has soared 17 spots among public universities since placing No. 43 in 2016
- FSU boasts the best four-year graduation rate in State of Florida University System (SUS) at 71.5%. The state university system average is 49.4%. FSU continues to outperform its predicted graduation rate by *U.S. News*, which is based on the university's resources and student profile. The university ranks No. 17 among publics when comparing the actual graduation rate against the predicted rate. University data also shows we have erased graduation rate disparities between all categories of under-represented students and traditional students. In addition, there is no disparity among all FSU students in attaining a first to second year retention rate of 94 percent, making FSU the highest-ranked public university to achieve this status.



- FSU's Procurement Services office was recognized for the fourth year in a row by the National Procurement Institute's Achievement of Excellence in Procurement Award. Ongoing improvements to FSU's electronic procurement system are providing end users with a "One Stop Shopping" experience and further enhancing strategic purchasing activities and spend analytics
- Scientific Equipment Application Team. Reduced costs associated with duplicate science equipment purchases and leverage existing technologies to meet an emerging need, the Scientific Equipment application was created by an interdisciplinary team to promote the shared tracking and use of equipment across the University community
- Executed an innovative new dining services 10 year contract that merges residential, retail, concessions, and catering and includes unique components such as locally sourced menu options, internships and scholarships for students, funding for sustainability initiatives, and highlights celebrity chef and FSU alumnus Art Smith as our campus Culinary Ambassador.
- New Coke pouring rights agreement, including a 38% increase in annual contributions, student internships, and a campus speaker series.
- Implemented new onboarding software that eliminates paper and transforms the recruitment process for applicants and hiring managers
- New 10-year Bookstore Contract that provides a new location; improves affordability for students through reduced course material costs; increases annual commissions to the University; and provides student scholarships and internships
- FSU Auxiliary Accounting Team. The FSU Controller's office developed new processes for auxiliary activity within Florida State University's enterpriselevel accounting system. Before implementing this project, departments that charged customers for goods or services used external systems to record this activity, resulting in inefficiencies and a lack of transparency. The new process allows auxiliary departments to record these transactions directly into Florida State's official system of record, reducing the need for external systems and centralizing invoicing, payment processing, and collections efforts for enhanced effectiveness
- Continued to hone budgeting system and policies as we strive toward greater transparency and efficiency for campus users. The system was recognized by the Southern Association of College and University Business Officers as an outstanding business practice. The Hyperion Budget System provides greater transparency when booking and tracking budgets along with managing salary rates and positions



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- College of Arts & Sciences "College Check" portal. On-line reporting tool designed to help COAS students stay on academic track and facilitate degree advancement for timely graduation. Provides mechanism for students to plan courses more efficiently, saving both time and money. Provides reporting system for students and advisors to compare Student Central Data to university, college, and department requirements to verify completion; identifies deficiencies and provides course information for unmet requirements. This is a recurring project that is continually updated as requirements are changed.
- FSU Admissions and IT Team. As part of an effort to increase the enrollment of under-served students, development of a new electronic process, Soup to Nuts, which has resulted in dramatically reduced processing time and more informed and timely admission decisions
- Developed the Faculty Project Planner (FPP) as a tool for managing complex research and creative projects over time for an individual faculty member or a faculty member with collaborators. The FPP is also a tool for mentoring beginning faculty members completing multiple complex projects and for mentoring students completing theses and dissertations. Prior to this tool being created, this was a manual process that had no standardization across campus
- Lean Work Order Communications Team. Faced with more than 36,000 annual work orders, a Facilities Lean Team was formed to better understand their respective roles, streamline a complex process and improve customer service. The outcome was a reduction in the average number of days to complete work orders by more than 70 percent and electronic communications through the work order website and emails were significantly improved



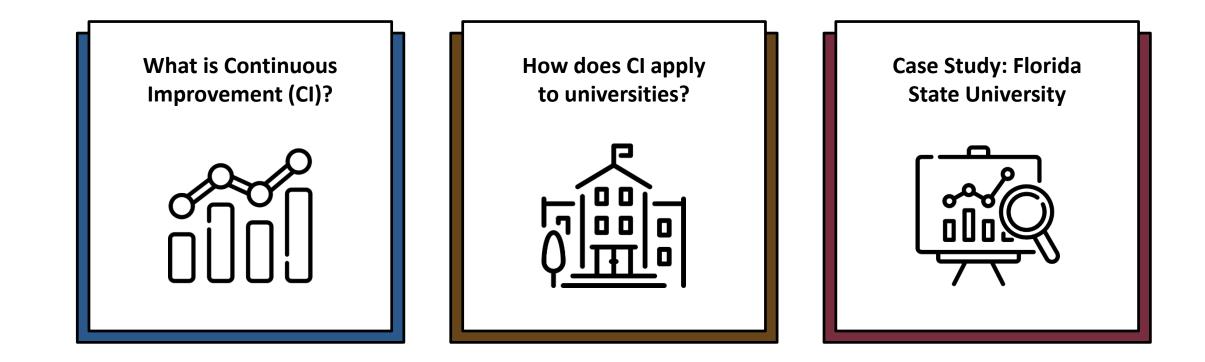
Continuous Improvement Lessons Learned from Other Institutions

- Universities have evolved to use more business the structures and procedures to support the work of academic colleagues
- The Network for Change and Continuous Intervation (NCCI) is higher education's network for change levelership
- Focus of NCCI is on continuous improvement process improvement, administrative excellance and unovation
- Common use f formal sols such as Lean, Kaizen, Six Sigma and Baldrige
- Sharing of best fractices in academic and administrative processes from dozens of universities, associations and businesses



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APPENDIX