



How to Communicate Your Message of Value to the Higher Education Market

Colin M. Coyne, Ed.D., M.M.
Chief Strategy Officer, Samford University

Lens 1 – Understand Who You're Dealing With









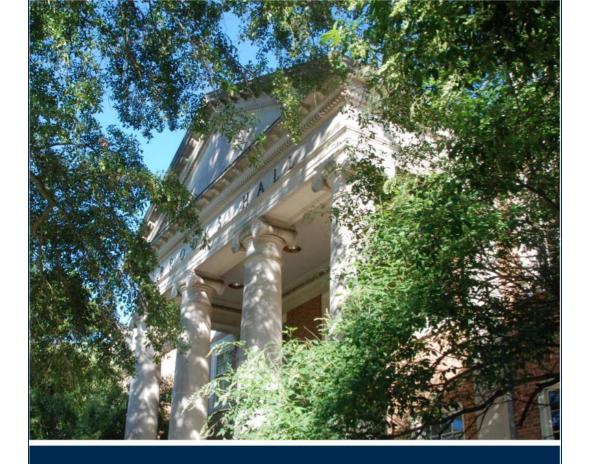




MOVIECLIPS.COM







2016 Campus Infrastructure Improvement Through Environmental and Financial Stewardship

Our campus will be better for it



Lens 2 – Appreciate the Context of our Need



Riding the Slippery Slope of Deferred Maintenance



The Slippery Slope of Funding Facilities and Grounds

	or runding racinties		•					
	CAMPUSMA	ASTER PLAN		OPERATING CASH FLOW				
	New Construction	Renovation	Deferred Maintenance	Normal Replacement / Preventative Maintenance	Operations			
	\$x	\$0.5x	\$0.1Σ(x+.5x)	\$.05Σ(x+.5x)	\$y			
Buildings								
Systems								
Hardscape								
Infrastructure								
Appealing to donors; regularly funded by operating cash flows; financeable Less appealing to donors; last dollar funded from operating cash flows Special funding required; "non essential" until essential; usually unfunded capital items Unfunded by donors; capital investment required; triage funding mentality								
W hat is Spent	Facilities Funding = $y + \Sigma$ (x+.	Facilities Funding = $y + \Sigma (x+.5x)$ (finaniang cost) $y + .045 (\Sigma (x+.5x))$						
Should be Spent	Facilities Funding = y + .05(2	$\Sigma(x+.5x)) + \Sigma(x+.5x)$ (financing	ng cost)	y +. 095 (Σ (x+.5x)				
Needs to be Spent	Facilities Funding = $y + .05(\Sigma(x+.5x)) + \$.1\Sigma(x+.5x) + \Sigma(x+.5x)$ (financing cost) $y + .195(\Sigma(x+.5x))$							

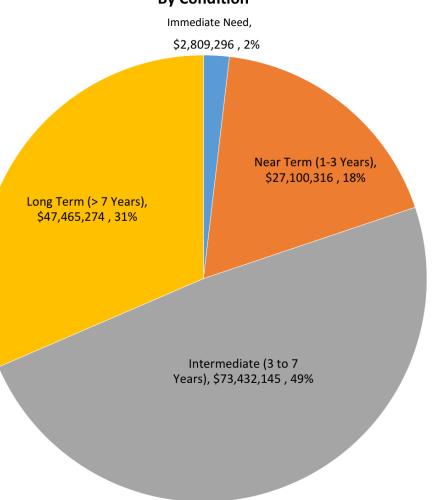


The Campus We Love needs some Love

- 60 years on Lakeshore Campus
- Aging Facilities
- Inefficient Equipment
- Failing Systems
- Competing Capital Investments
- Cash Flow Management
- Maintaining consistency with Values and Mission
- Adhering to our Strategic Plan

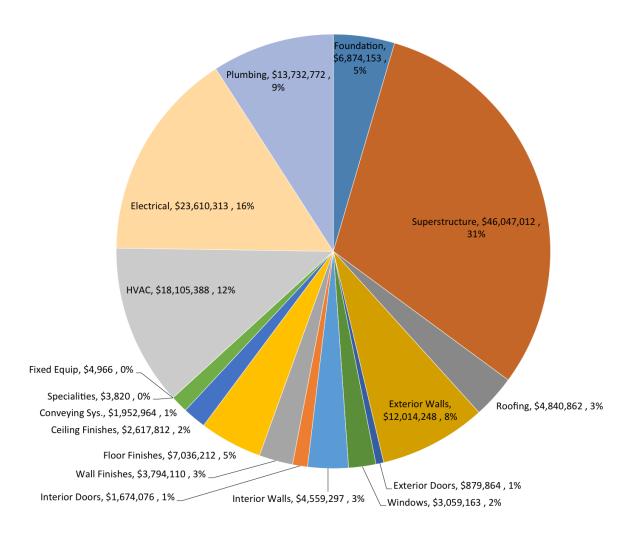
Campus Master Planning: Respecting the Past, Embracing the Future

Samford University Estimated Long Term Maintenance By Condition



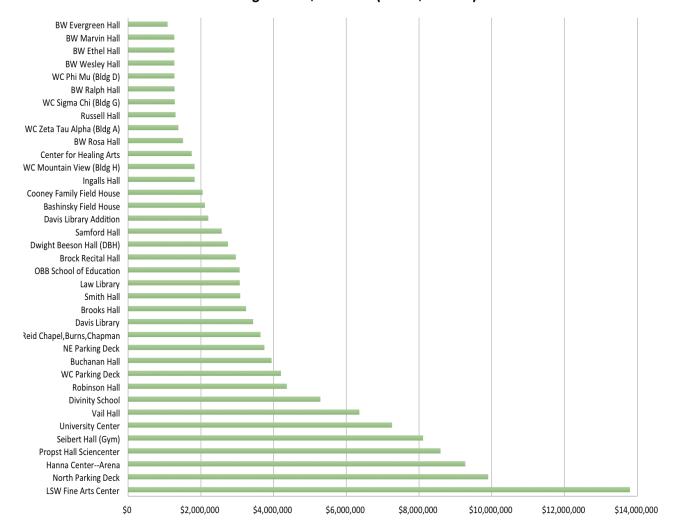
Campus Master Planning: Respecting the Past, Embracing the Future

Samford University Estimated Long-Term Maintenance Costs \$150.8 million

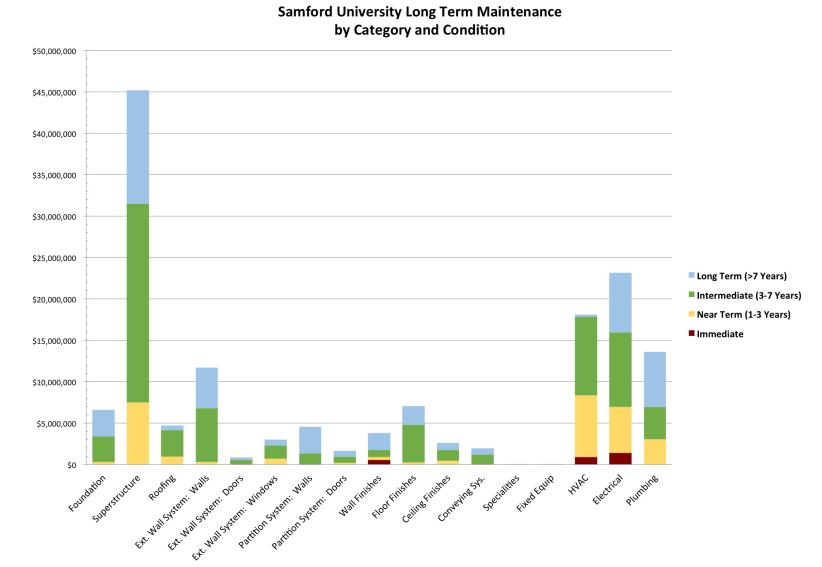


Campus Master Planning: A Need for Granularity

Estimated Long Term Maintenance Costs by Buildings with >\$1 million (Total \$137.4m)



Chunking: Tasty Bite-sized Morsels



Lens 3 – Put it Where the Goats Can Get It





Execution or Executed?

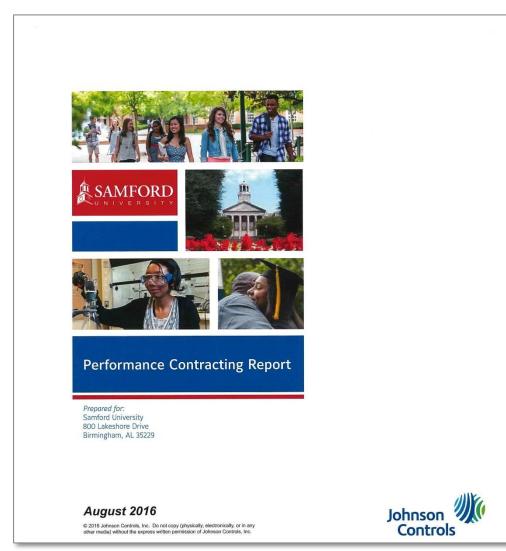
Having the Right CPPC Partner



- Successful Three Year Relationship
- Fortune 100 firm (Fiscal 2015 Revenues = \$37.2 billion)
- 1,300 locations
- 8,565 projects
- 137,145 employees
- 1,887 higher education partners
- Deep experience with ESPC's
- Values alignment
- \$287,000 Performance Audit

Performance Contracting Report:

An exhaustive audit that establishes priorities by ROI





Energy Conservation Measures (ECM)

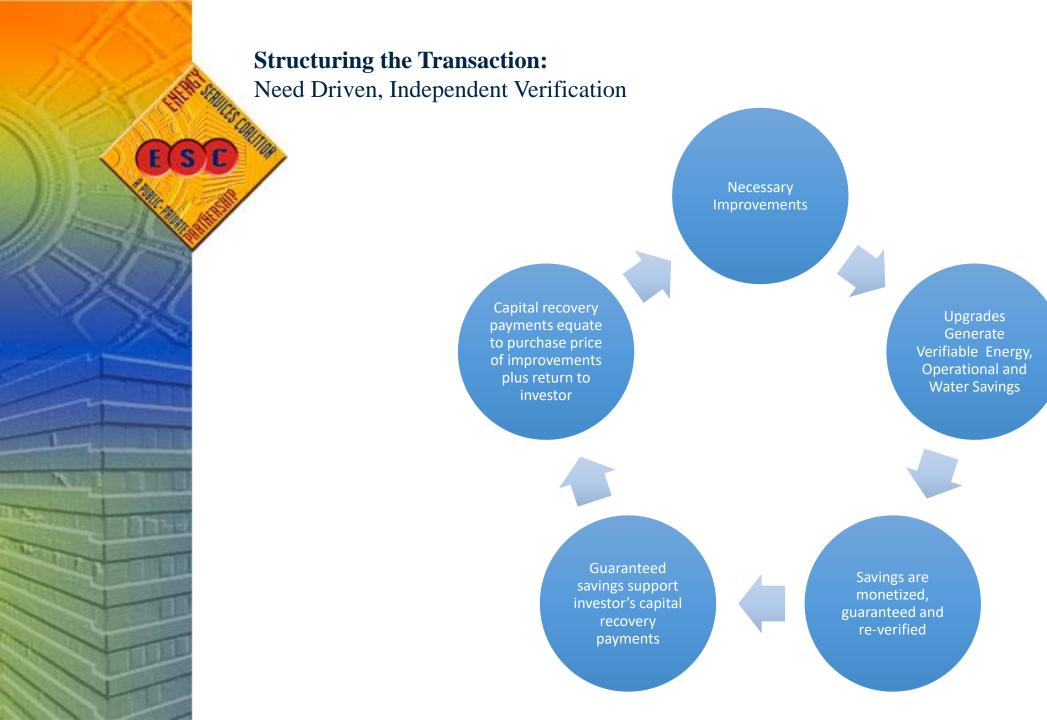
- ECM 1 Lighting Upgrades
- ECM 2 Domestic Water Conservation
- ECM 3 Building Envelope
- ECM 4 Window Replacements
- ECM 5 Piping Insulation
- ECM 6 Metasys® Upgrades
- ECM 7 Controls and Mechanical Improvements
- ECM 8 Chilled Water Plant Modernization
- ECM 9 Natural Gas Rate Change
- ECM 10 Heating Venting Air Conditioning (HVAC) Improvements
- ECM 13 Electrical Improvements
- ECM 14 Miscellaneous Mechanical Improvements
- ECM 15 Domestic Hot Water Equipment Upgrades
- ECM 16 Hot Water System Improvements



The Solution:

Contingent Payment Performance Contract ("CPPC")

- Replace failing systems; address inefficiencies
- Improvements lead to reduced operating costs (energy, water, labor)
- Savings are sufficient to pay for improvements within a 20 year period
- CPPC provider finances cost of improvements
- CPPC provider is repaid only if and as savings are realized
- Net result: no cash investment by Samford; cash flow neutral; long-term operating discipline is assured; benefits inure to Samford
- Samford has received exclusion from debt covenants for CPPC; if financed conventionally, would stress covenant restrictions





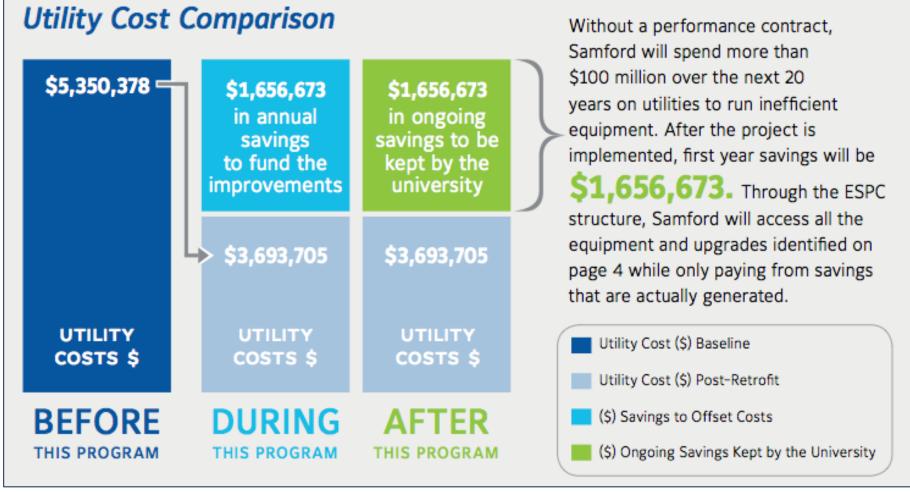




Redirecte We are sp

Redirected Energy Costs

We are spending the money either way



Structuring the Operational Transaction:

Legitimizing Energy, Water and Operational Savings: **VERIFICATION**

Field Measured Performance on Existing Equipment

ASHRAE Formulas applied to actual measures

New Equipment Installed

Field Measured Post Installation on Replaced Equipment

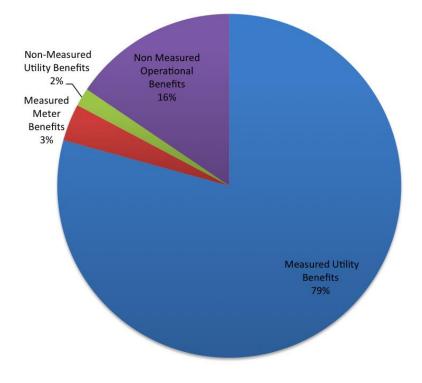
3 year historical use and rates Temperature and Burn Hours based on Samford parameters



Legitimizing Energy, Water and Operational Savings: VERIFICATION

Year 1 Annual Project Benefits \$2,006,513

Performance Year	Utility Benefits	Meter Benefits	Utility Benefits	Operational Benefits	Annual Project Benefits
	MPB	MPB	NMPB	NMPB	MPB & NMPB
1	\$1,590,769.65	\$69,878.83	\$34,430.22	\$311,434.92	\$2,006,513.62
2	\$1,635,278.35	\$71,975.19	\$35,463.12	\$320,777.97	\$2,063,494.64
3	\$1,681,058.03	\$74,134.45	\$36,527.02	\$330,401.31	\$2,122,120.80
4	\$1,728,145.52	\$76,358.48	\$37,622.83	\$340,313.35	\$2,182,440.17
5	\$1,776,578.75	\$78,649.24	\$38,751.51	\$350,522.75	\$2,244,502.24



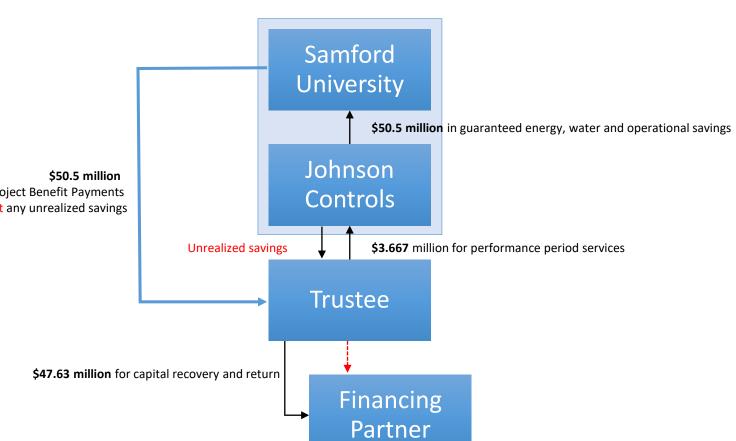
Structuring the Operational Transaction:

Legitimizing Energy, Water and Operational Savings: VERIFICATION

Non-Measured Utility Benefits	ECM	Year 1 Benefits	Escalation
The Non-Measured Project Benefits of ECM 2C and 2D are a result of irrigation water savings replaced with well water the sustainable flow rate of which could not be pre-established.	2C, 2D	\$29,522	3%
The Non-Measured Project Benefits of 10A are a result of a minor energy savings associated with and efficiency improvement associated with the scope for work.	10A	\$4,908	3%
Total Non-Measured Utility Benefits =		\$34,430	

Non-Measured Operational Benefits	ECM	Year 1 Benefits	Escalation
The Non-Measured Project Benefits of ECM 1A, 1B and 1E are a result of material savings associated with the warranty covering replacement materials.		\$47,299	3%
The Non-Measured Project Benefits of ECM 2 are a result of material savings associated new materials and attic stock provided.	2	\$3,646	3%
The Non-Measured Project Benefits of ECM 4 are a result of avoided contract costs associated with repainting existing wood windows	4	\$161,358	3%
The Non-Measured Project Benefits of ECM 8 are a result of avoided service costs associated with the extended warranty covering the new chillers and chiller drives	8	\$24,972	3%
The Non-Measured Project Benefits of ECM 10A are a result of avoided service costs associated rental spot cooling units.	10	\$74,160	3%
Total Non-Measured Operational Benefits =		\$311,435	

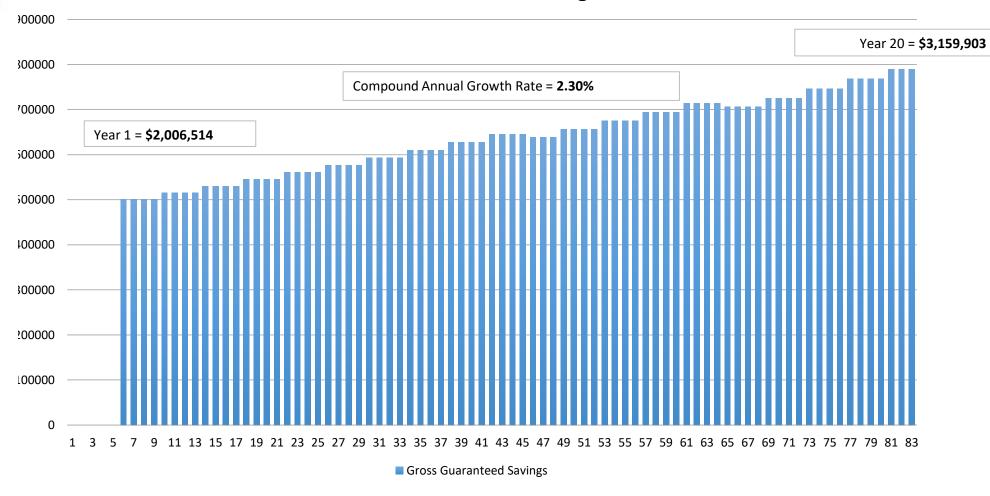
Structuring the Financial Transaction: Cash Flow and Participants \$50.5 million **Project Benefit Payments** net any unrealized savings



Project Benefit Payments are fixed in advanced, paid quarterly, and adjust annually pursuant to Schedule 2-1.

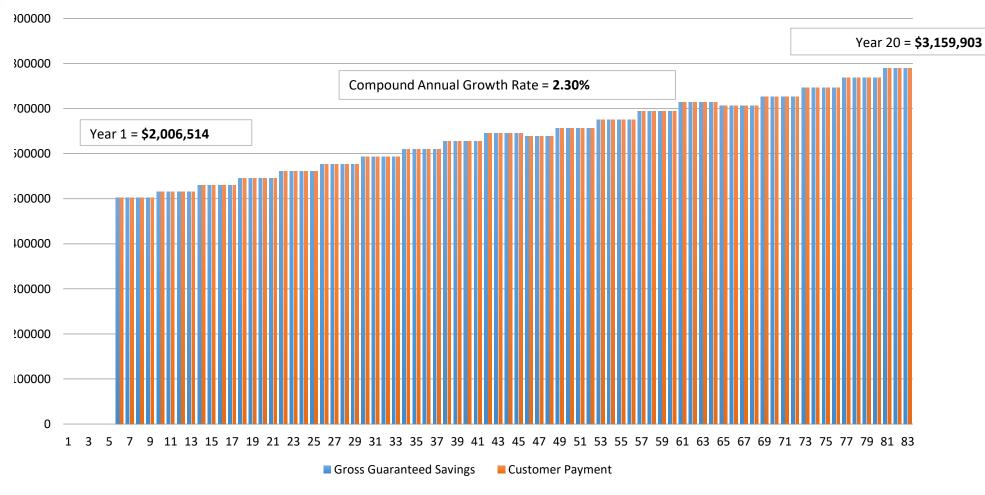
Charting Guaranteed Savings



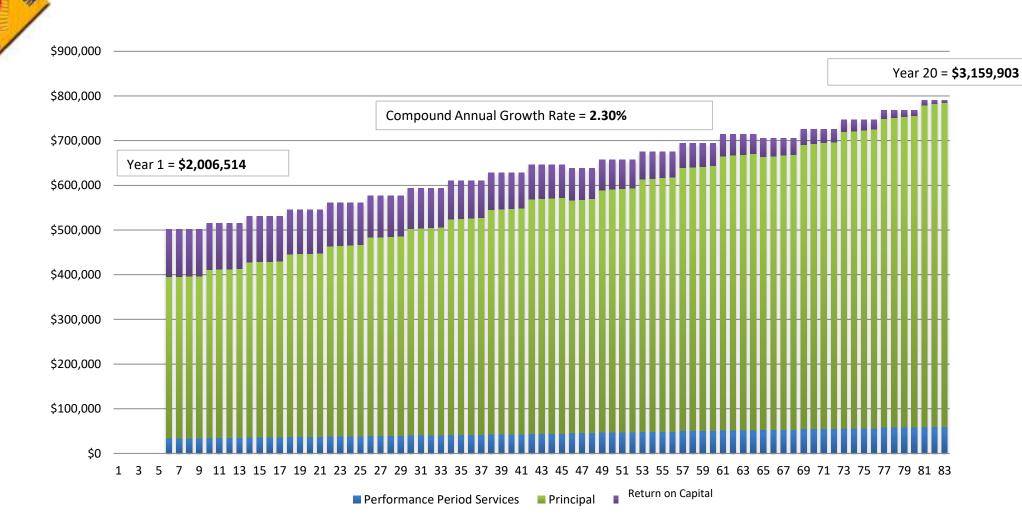


Guaranteed Savings Support Annual Debt Service Payments





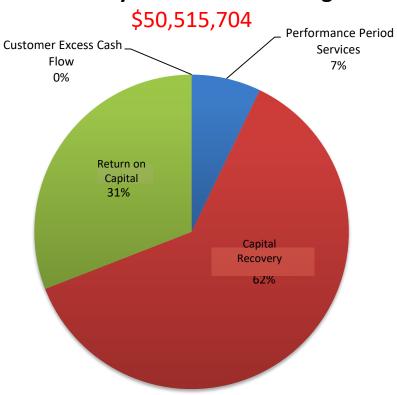
Reconciling Payment Breakdown to Implied Cost of Capital



Payments to Savings Reconciliation

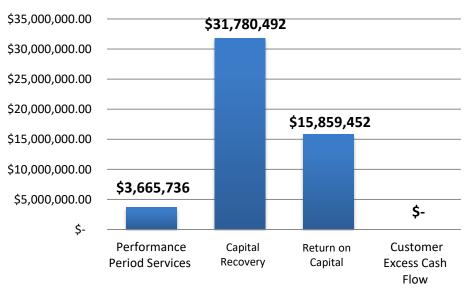
E(S)E

Total Payments = Total Savings



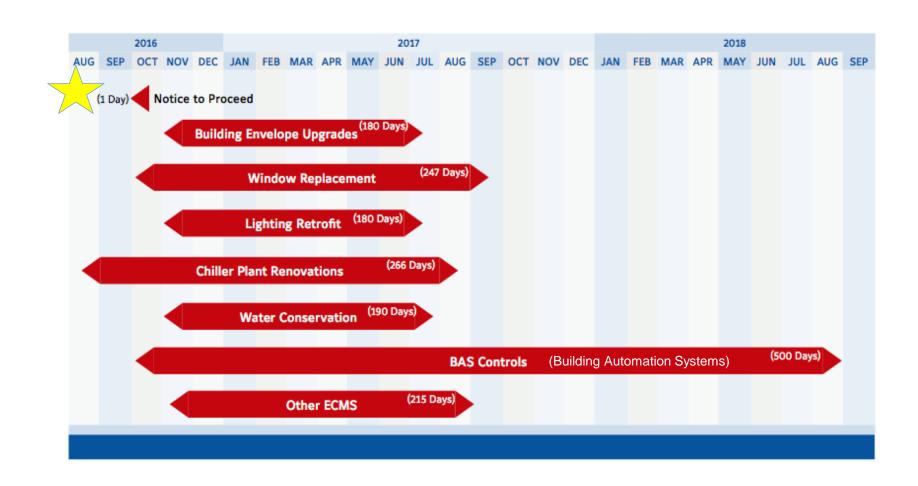
Total Payments = Total Savings

\$50,515,704



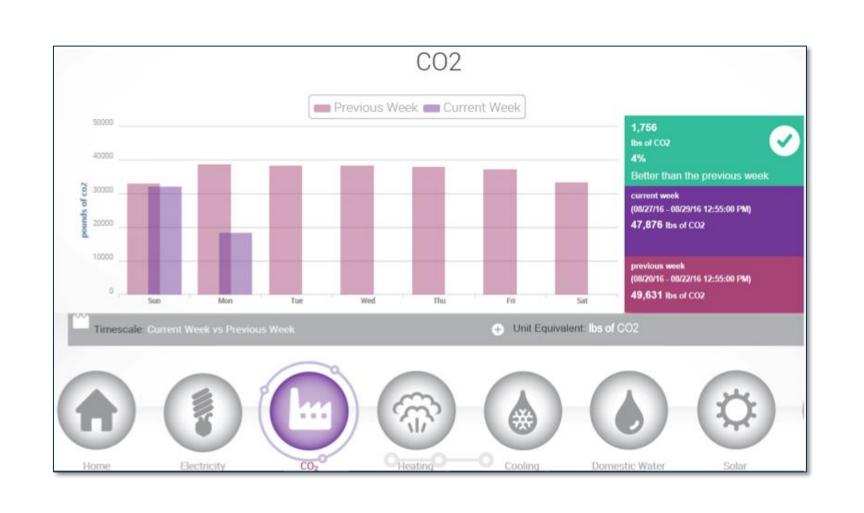
Turning Plans to Reality:

Implementation Timeline



Internal Branding:

Increased Savings through Feedback – Process Improvements, Perceptual Gain





The Obligation of Stewardship

Taking on the Iron Triangle

These improvements are guaranteed to save the University

15,074

Metric tons of CO₂ each year

20,471,000

Gallons of water each year

For perspective, over the next 20 years, 15,074 tons of CO2 is the equivalent of...

7,813,200 trees planted in urban areas

for future generations to stand in!

That's a lot of shade

285,380 acres of pine fir forest

That's the equivalent of 1,000 Samford Universities.

63,680 cars on the road

This would give us 1,310% more parking challenges!

the energy used by

31,840

homes

That's three times the number of households in Homewood.

20 million gallons of water is the equivalent of...

100Seibert Gym pools refilled every year

Or 10 gallons of ice tea from the Caf for each Samford student!

Source: US Environmental Protection Agency. (2015). Measure Your Impact. Retrieved from https://www.epa.gov/energy/measure-your-impact

Riding the Slippery Slope of Deferred Maintenance

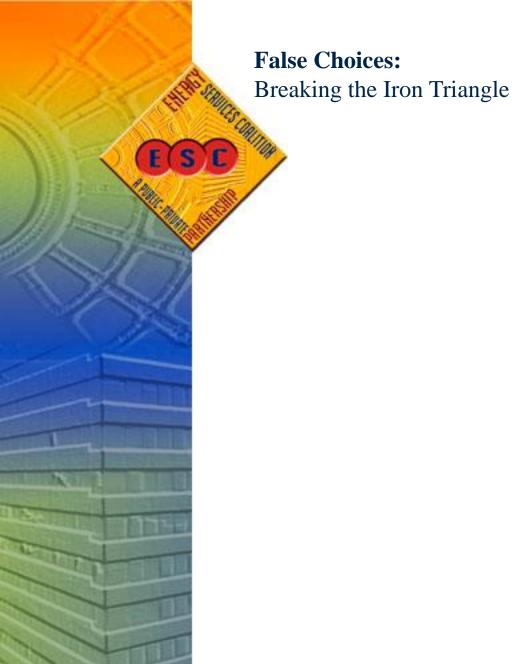


The Slippery Slope of Funding Facilities and Grounds

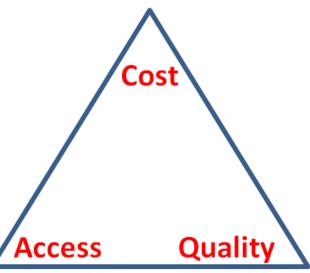
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	\$x	\$0.5x	\$0.1Σ(x+.5x)	\$.05Σ(x+.5x)	\$y	
Buildings						
Systems			Johnson Controls Continget Payment Performance Contract	Johnson Controls Continget Payment Performance Contract	>	
Hardscape						
Infrastructure		Johnson Controls Continget Payment Performance Contract	Johnson Controls Continget Payment Performance Contract	Johnson Controls Continget Payment Performance Contract	>	
Appealing to donors; regularly funded by operating cash flows; financeable Less appealing to donors; last dollar funded from operating cash flows Special funding regularity—through cash flows Unfunded by donors; capital investment required; triage funding mentality Unfunded by donors; capital investment required; triage funding mentality						
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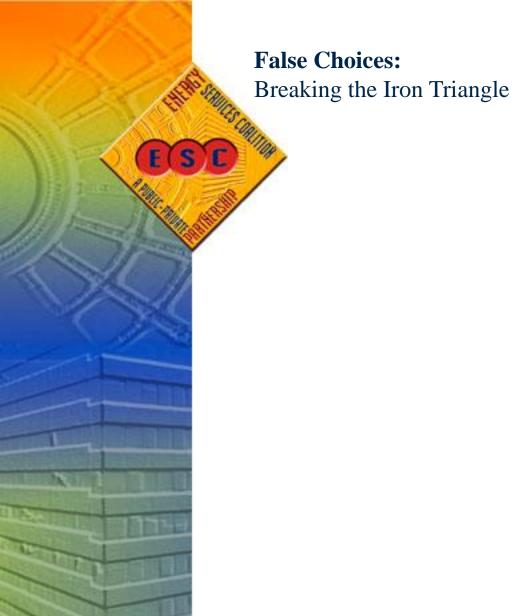
Lens 4 – Play the Long Game





The Iron Triangle of Education





The Iron Triangle of Educationsustainabi Cost **People Planet** Access Quality **Profit**



American Association of University Administrators **Donald A. Gatzke Outstanding Dissertation Award 2018**

An Explanatory Model of First Year Retention:

Application and Adaptation of Braxton, Doyle, Hartley, Hirschy, Jones & McLendon's Rethinking College Student Retention

Colin M. Coyne, Ed.D., M.M. Alexis J. Stokes, Ed.D., M.E.





Question 2:

Driving Retention

After **removing co-curricular** activities of any type, what factors most influence and/are most **predictive of first year to second year persistence**?

- a) Specifically, what factors most **influence social integration**?
- b) Specifically, what differences (if any) exist between a Low Retention Institution and a High Retention Institution?

Explaining the Gap:

ESC

A Colloquial Guide to Terminology

Variable Name	Description	Might Say		
Psychosocial Engagement	Self-reported estimates of how frequently during the course of the school year the student has	Sign me up!		
Social Integration	engaged in activities outside of class Degree of student's integration into the campus social system	"I love you man!"		
Communal Potential	Student's perception of the potential for	"We are family!"		
Institutional Integrity	community among peers on campus Student's perception that the institution acts in a manner consistent with its stated values and	"Show me the money!"		
Commitment of the Institution to Student Welfare	espoused mission Student's perception that the institution genuinely supports the well-being of students	"You love me; you really love me!"		
Faith Engagement*	Extent to which student exhibits or engages in faith related activities	"Lord, just get me through this and I'll never"		
Diversity Climate*	Student perceptions of campus tolerance for diversity	"You say tomAto, I say tomAHto."		
Faculty Engagement *	Influence of faculty interactions on student experience	"Yes, Obi Wan."		

Driving Persistence:

ESE

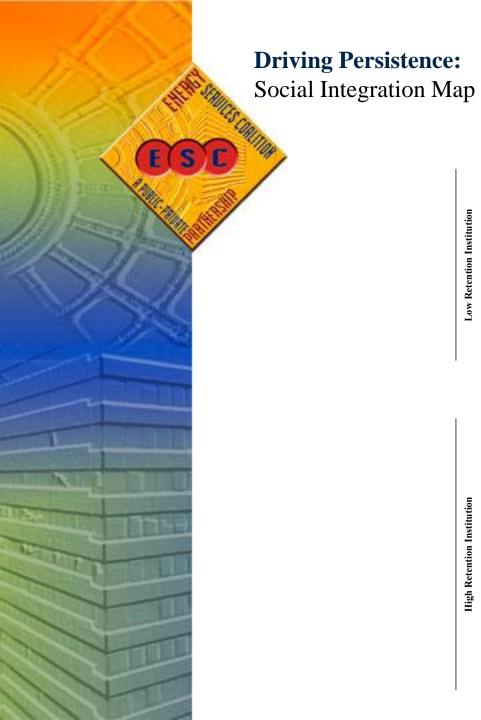
Low Retention Institution vs. High Retention Institution

Un-
ındardized
48
)2
23
27
03
24
57
34
04
27
3 (2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

^{*}p<0.05, **p<.01, ***p<.001

⁺⁺ Bivariate analysis on numaric variable indicates significant correlation with Social Integration at the .01 Level

⁺ Bivariate analysis on numeric variable indicates significant correlation with Social Integration at the .05 Level



		-	Ath	letes		Co-Curriculars		First Years	
		Institution	Athletes	Non-Athletes	Participants	Non-Participants	Non-Athlete Non-Participants	First Year	Non First Year
	ents	Communal Potential	Communal Potential	Communal Potential	Communal Potential	Communal Potential	Communal Potential	Communal Potential	Communal Potential
uo	nteced	Commitment to Student Welfare	Psychosocial Engagement	Psychosocial Engagement	Psychosocial Engagement			Institutional Integrity	Psychsocial Engagement
Institution	Primary Antecedents	Psychosocial Engagement							Commitment to Student Welfare
	Prii								
Low Retention	dant ry nts	Institutional Integrity		Institutional Integrity	Commitment to Student Welfare	Psychosocial Engagement	NA	Psychosocial Engagement	Institutional Integrity
Lo	Non-Redundant Secondary Antecedents					Institutional Integrity	NA		
	Non- Se An								
		-	Ath	letes		Co-Curriculars		First	Years

				Ath	letes		Co-Curriculars		First	Years
		_	Institution	Athletes	Non-Athletes	Participants	Non-Participants	Non-Athlete Non-Participants	First Year	Non First Year
			Communal Potential	Communal Potential	Communal Potential	Communal Potential	Communal Potential	Communal Potential	Communal Potential	Communal Potential
	edents		Psychosocial Engagement	Athletic Experience	Psychosocial Engagement	Institutional Integrity	Psychosocial Engagement	Psychosocial Engagement		Psychsocial Engagement
tion	Primary Antecedents		Institutional Integrity		Institutional Integrity	Psychosocial Engagement				Institutional Integrity
Institution	Prima		Faculty Engagement		Faculty Engagement	Faculty Engagement				Faculty Engagement
High Retention										
ligh Ro			Commitment to	Psychosocial	Commitment to	Commitment to	Institutional	Institutional	Institutional	Commitment to
ш	lant y ts		Student Welfare	Engagement	Student Welfare	Student Welfare	Integrity	Integrity	Integrity	Student Welfare
	Von-Redundant Secondary Antecedents								Psychosocial Engagement	
	Jon-R Seco								Lugagement	

Unpacking Institutional Integrity:

If it's the big driver, what drives it?

ESE

	HRI Institut	ional Integrity
	Standardized	Un-
Variables	Coefficients	Standardized
(Constant)		0.648
Gender	-0.084	-0.109
Race/Ethnicity	0.002	0.003
Parental Education Level	0.063	0.013
Parental Income	-0.018	-0.003
Average Grades in High School	0.023	0.01
On-Campus Residence	-0.02	-0.037
Initial Institutional Commitment	-0.068	-0.056
Ability to Pay	0.021	0.018
Psychosocial Engagement	-0.136**	-0.167
Social Integration	0.148**	0.162
Communal Potential	0.102**	0.112
Commitment of the Institution to Student Welfare	0.487***	0.491
Faith Engagement	0.062	0.045
Diversity Climate	-0.089*	-0.075
Faculty Engagement	0.072	0.095

Conceptual Framework for Study Questions

Braxton, et al. (2014): Rethinking College Student Retention revised by Coyne & Stokes

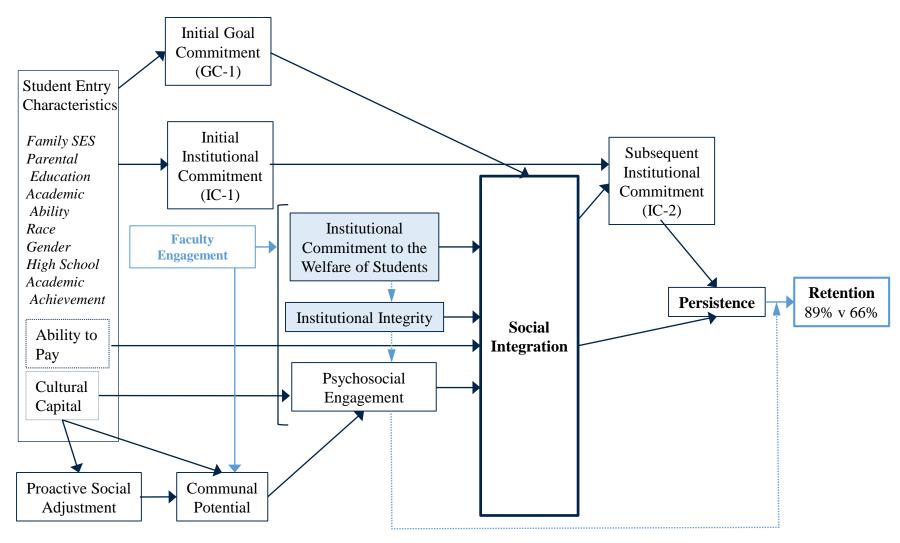
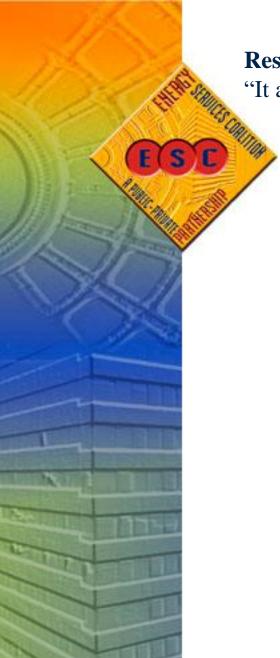


Figure 1: Toward a revision of the theory of student persistence in residential colleges and universities.

Lens 5 – Talk with me, not at me





Results

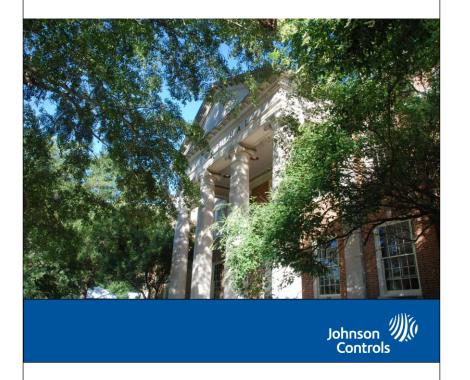
"It ain't bragging if you've done it."

FY- 17

Samford University Birmingham, Alabama

Construction Period M&V Report

January 1, 2017 through December 31, 2017





E(S)C

"It ain't bragging if you've done it."

