

ROPA+

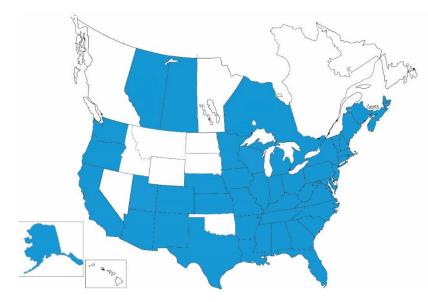
Indiana University of PA

Presenters: Adam Gogolski & Ditee Hossain June 17th, 2016

Immaculata University Indiana University Indiana University – Purdue University Indianapolis Indiana University of PA Iowa State University Ithaca College Jackson State University Kansas State University Keene State College Kent State University Kutztown University LaSalle University Lasell College Le Moyne College Lebanon Valley College Lewis & Clark College Lock Haven University Louisiana State University Loyola University in Maryland Manchester Community College Mansfield University of PA Manage all Links and t

Who Partners with Sightlines?

Robust membership includes colleges, universities, consortiums and state systems



Serving the Nation's Leading Institutions:

- 70% of the Top 20 Colleges*
- 75% of the Top 20 Universities*
- 34 Flagship State Universities
- 14 of the 14 Big 10 Institutions
- 9 of the 12 Ivy Plus Institutions

* U.S. News 2016 Rankings

Sightlines is proud to announce that:

- 450 colleges and universities are Sightlines clients including over 325 ROPA members.
- Consistently over 90%
 member retention rate
- We have clients in over 40 states, the District of Columbia and four Canadian provinces
- More than 125 new institutions became Sightlines members since 2013

Sightlines advises state systems in:

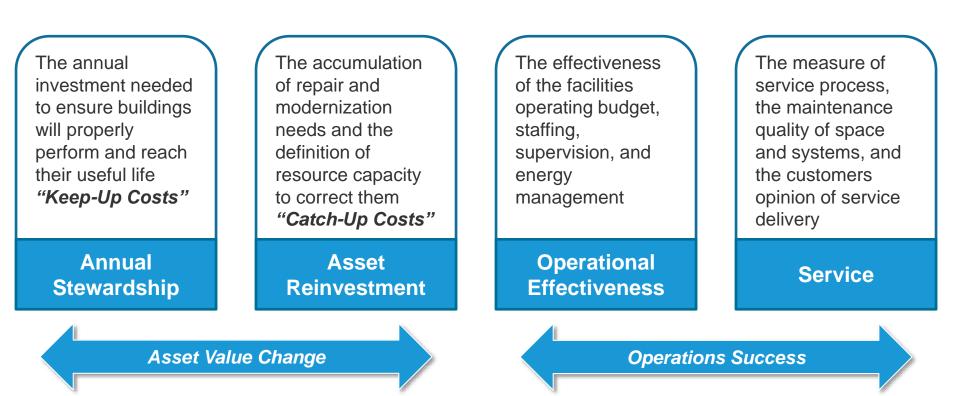
- Alaska
- California
- Florida
- Hawaii
- Maine
- Massachusetts
- Minnesota
- Mississippi
- Missouri
- Nebraska
- New Hampshire
- New Jersey
- Pennsylvania
- Texas



A Vocabulary for Measurement

The Return on Physical Assets – ROPASM







Peer Institutions

ROPA+ Peer Benchmarking Includes All PASSHE Institutions



Institution

Location

Bloomsburg University of PA California University of PA Cheyney University of PA **Clarion University of PA** East Stroudsburg University of PA Edinboro University of PA Kutztown University of PA Lock Haven University of PA Mansfield University of PA Millersville University of PA Shippensburg University of PA Slippery Rock University of PA West Chester University of PA

Bloomsburg, Pennsylvania California, Pennsylvania West Chester, Pennsylvania Clarion, Pennsylvania Stroudsburg, Pennsylvania Edinboro, Pennsylvania Kutztown, Pennsylvania Lock Haven, Pennsylvania Mansfield, Pennsylvania Millersville, Pennsylvania Shippensburg, Pennsylvania Slippery Rock, Pennsylvania West Chester, Pennsylvania



Pennsylvania's **STATE SYSTEM** of Higher Education

Comparative Considerations

Size, technical complexity, region, geographic location, and setting



Core Observations



1. Significant amount of young space

- 2. Capital investment below Target
- 3. J Annual Stewardship = 1 Asset Reinvestment Needs

4. Staff cover more space than peers.





Core Observations



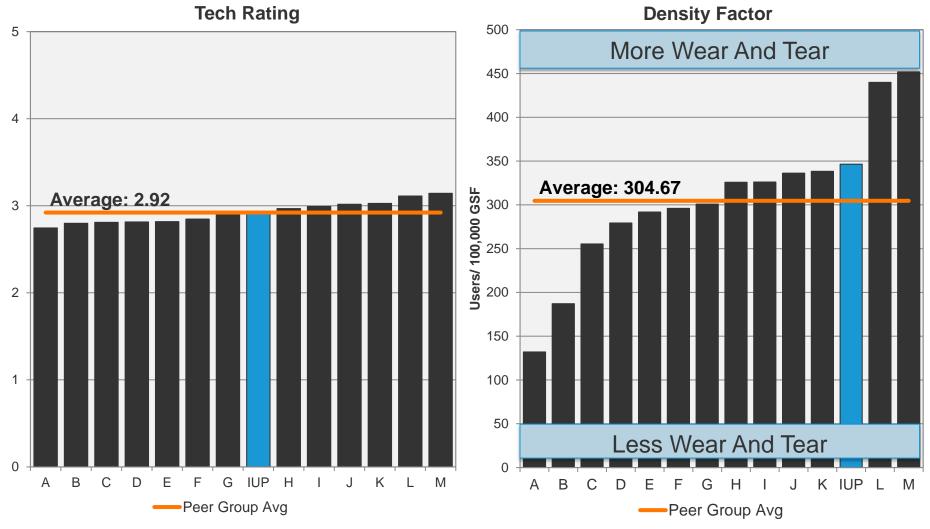
Diving into more detail with the observations from the previous slide

- 1. 43% of campus GSF is currently under 10 years old; this large portion of space will age concurrently, resulting in large demands for capital investment to maintain the currently young spaces in good condition
- 2. 48% of campus GSF is currently designated as high risk. However, capital investment levels have been below the identified target level of funding. If you can't maintain your high-risk spaces now, how will you manage to maintain both the high-risk spaces as they continue to age and the younger spaces of today that will hit major life cycles at once in the next 5 to 10 years?
- 3. Annual Stewardship levels have funded just 11% of target need on average since 2003. The lack of Stewardship results in a situation where Asset Reinvestment funds are playing a dual role both catch-up and keep-up to keep campus running in good condition
 - a) This has resulted in more rapid growth in the deferred maintenance which is now above peers
- 4. Both maintenance and custodial staff are covering 30% more space than peers & operating costs fall below peer levels. Investing into your daily operations will help to keep buildings in good condition and reduce the need for greater capital investments down the road



Qualifying Metrics – Tech Rating and Density Factor

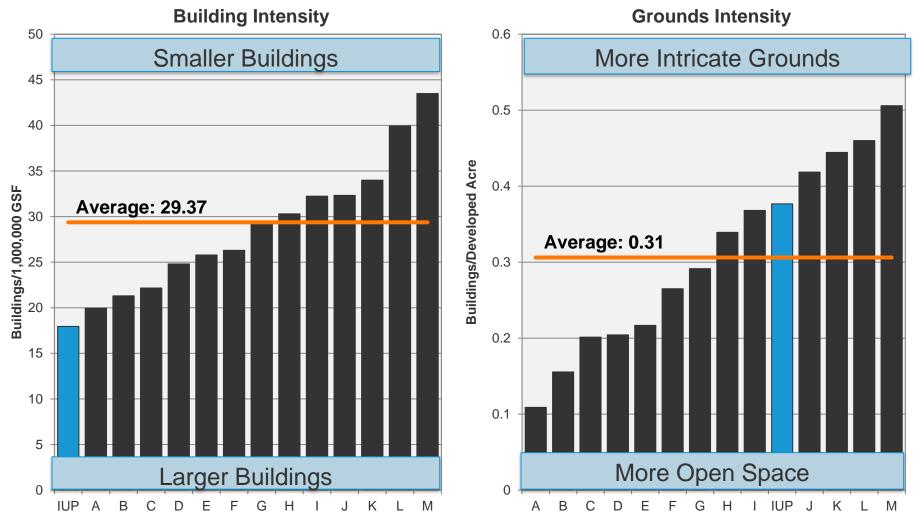






Qualifying Metrics - Building Intensity and Grounds Intensity

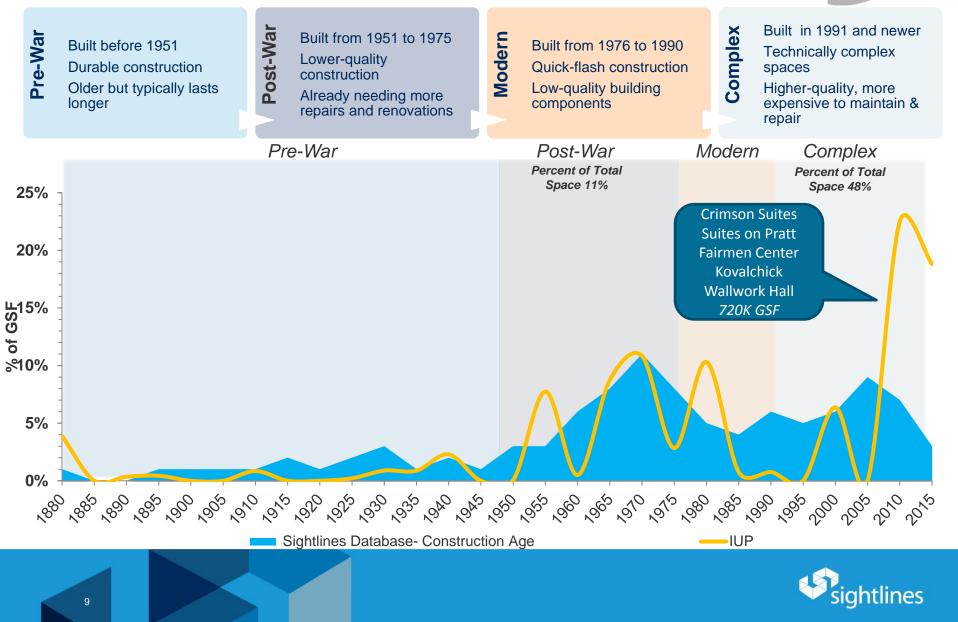






Putting Your Campus Building Age in Context

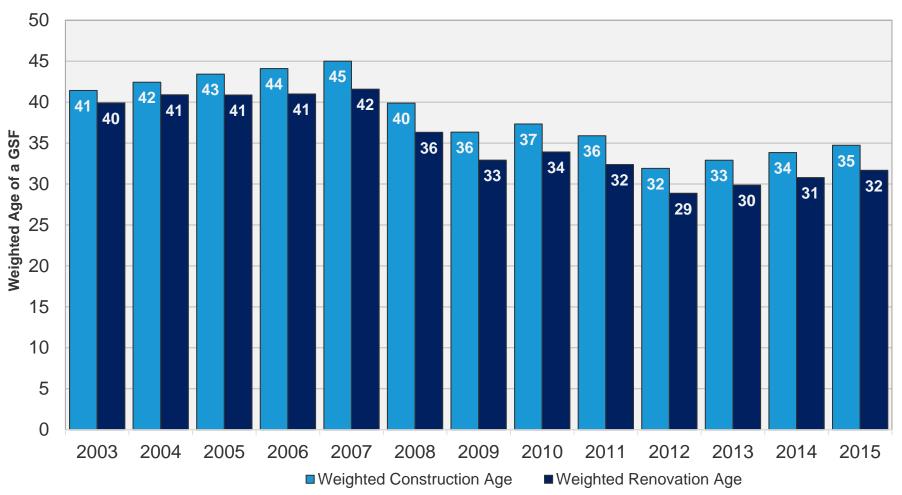
The campus age drives the overall risk profile



Construction Vs. Renovation Age

Campus is younger today than it was 12 years ago



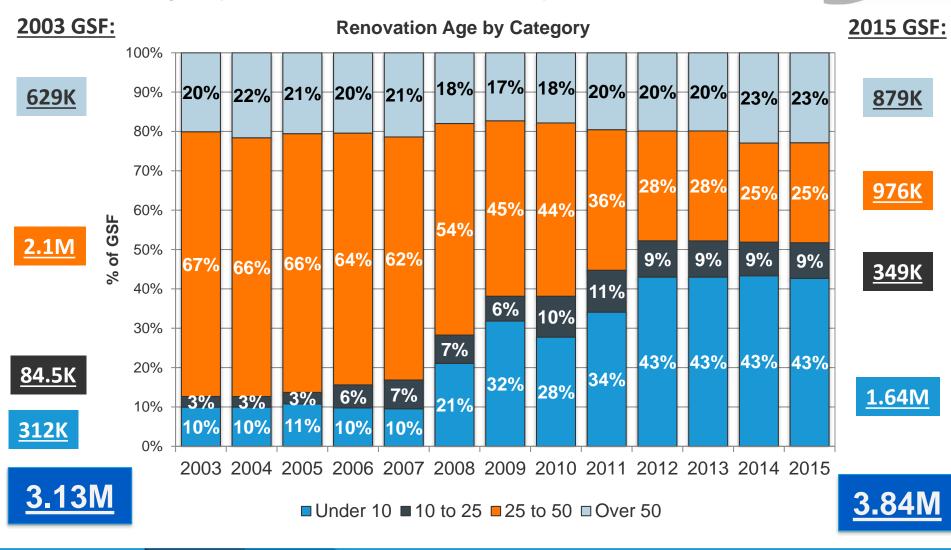


Construction Vs. Renovation Age



43% of Space Constructed since 2006

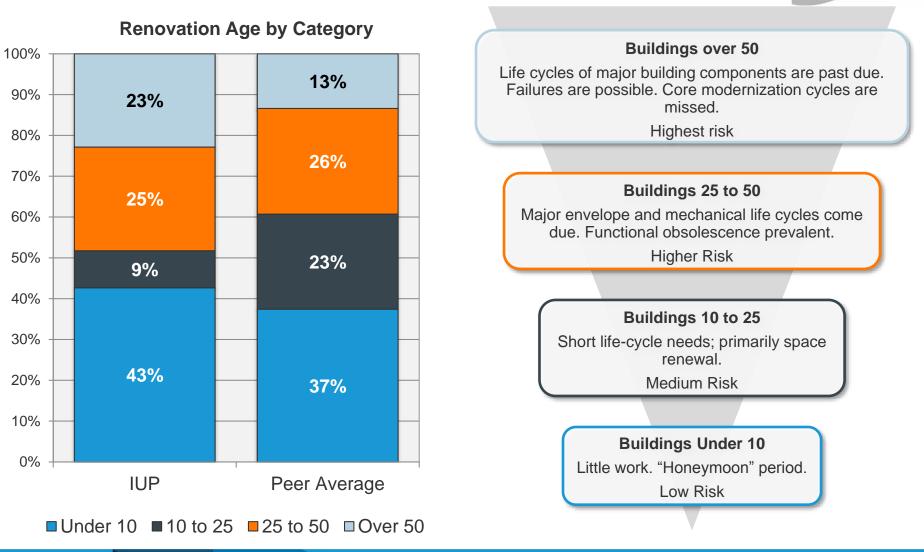
New, technologically advanced space will be costly to keep-up





Campus Age Profile

Unevenly distributed profile causes risk to accumulate in one age group

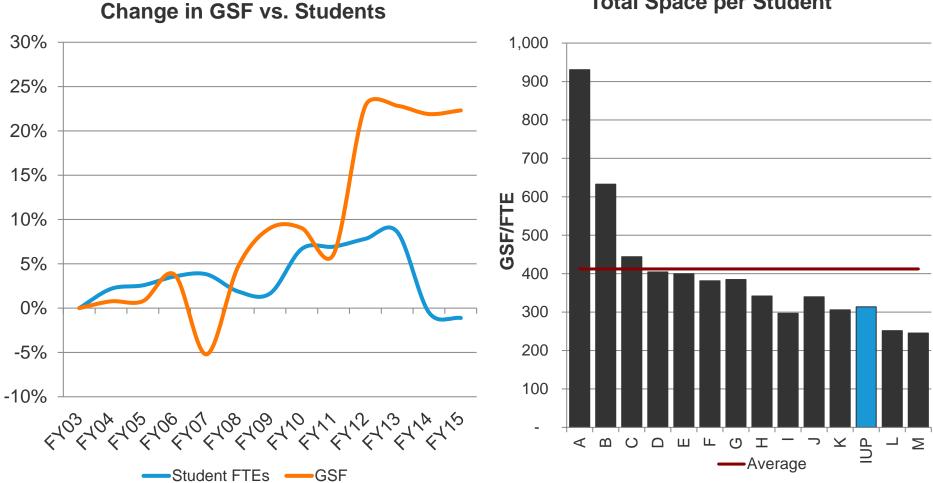




% of GSF

GSF Outpaces Student Enrollment Growth

Does the trend in growth and student space contribute to institutional goals?



Total Space per Student

Institutions arranged by Density Factor

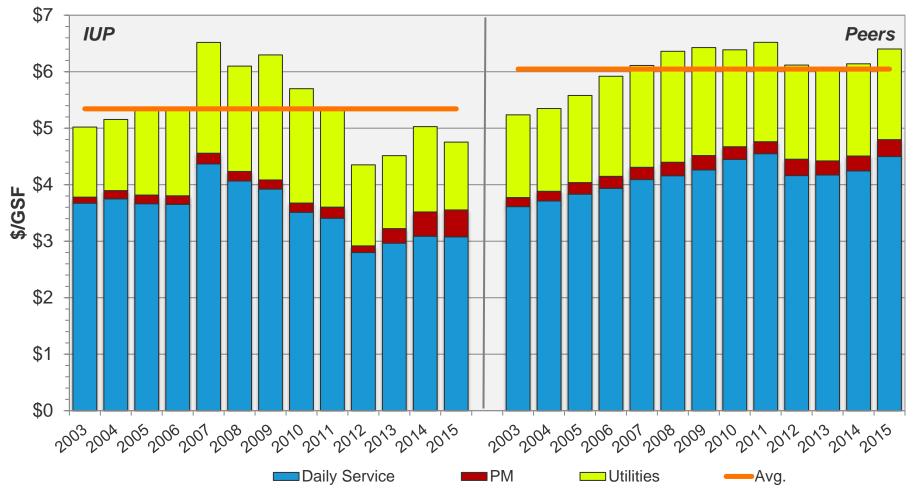




Facilities Operating Expenditures vs. Peers

Lower cost per GSF with younger space across campus

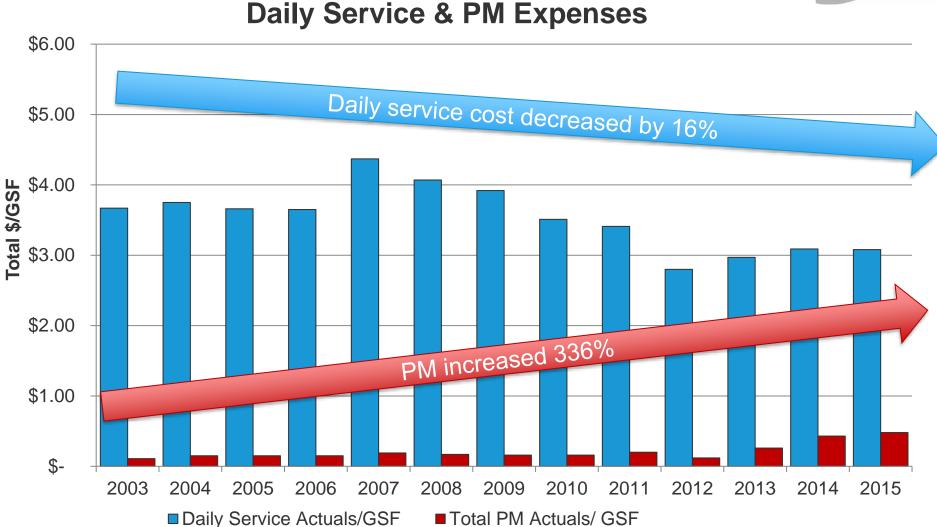
Facilities Operating Actuals





Lower FY15 Expenditures than FY03 Baseline



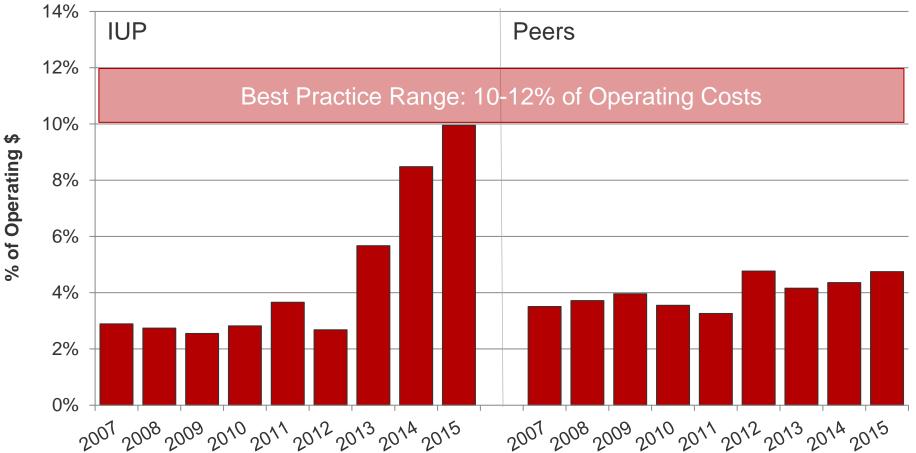




Opportunity for Better Internal PM Tracking

Investing in PM now is critical while spaces are young & in good condition

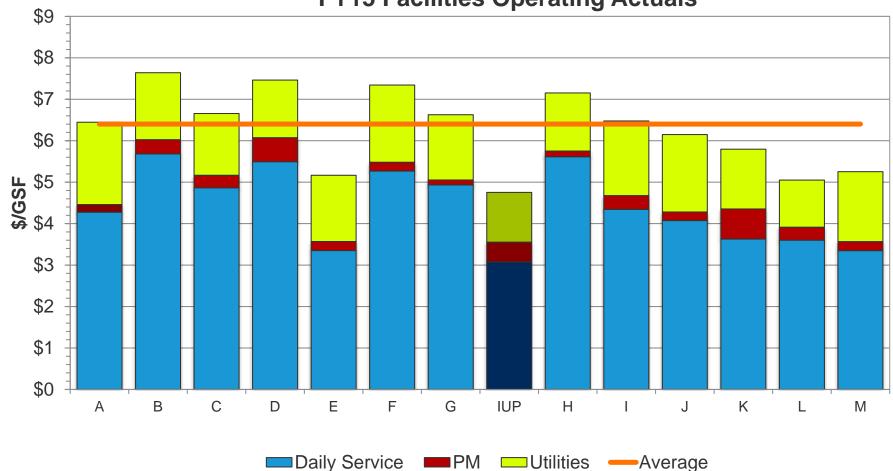
PM as % of Operating Budget





IUP's Operating Expenditures Lowest Among PASSHE





FY15 Facilities Operating Actuals

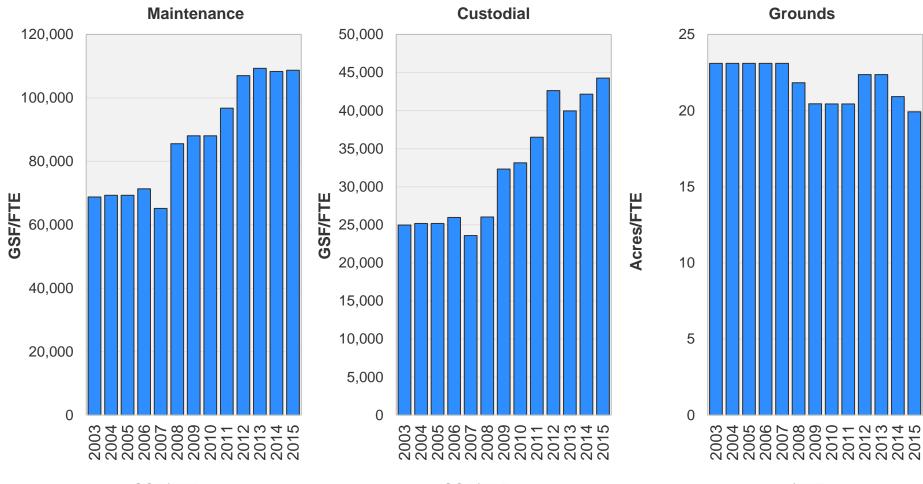
Institutions arranged by Tech Rating



Staffing Trend

Staffing has not been added to meet space changes





■GSF/FTE

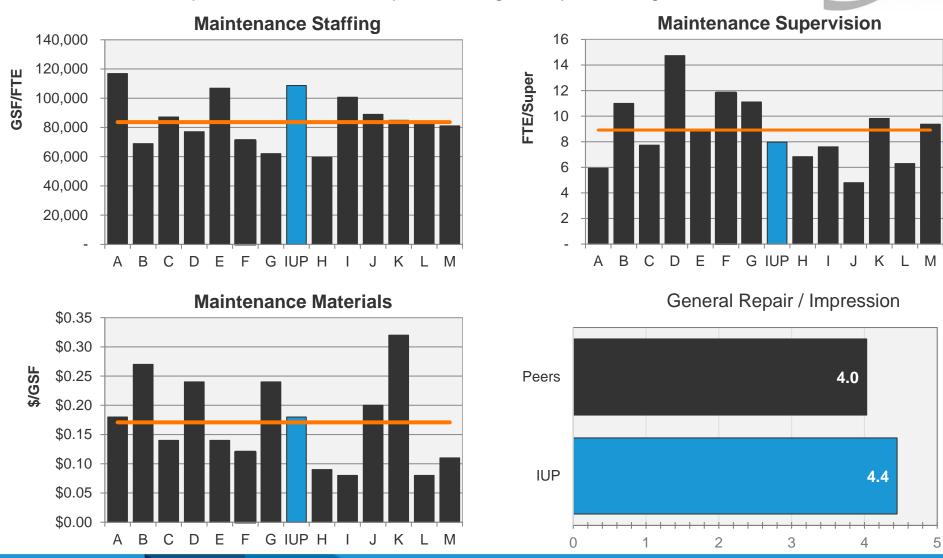
■GSF/FTE

Acres/FTE



Maintenance Metrics

Maintenance staff responsible for 30% more space coverage than peer average

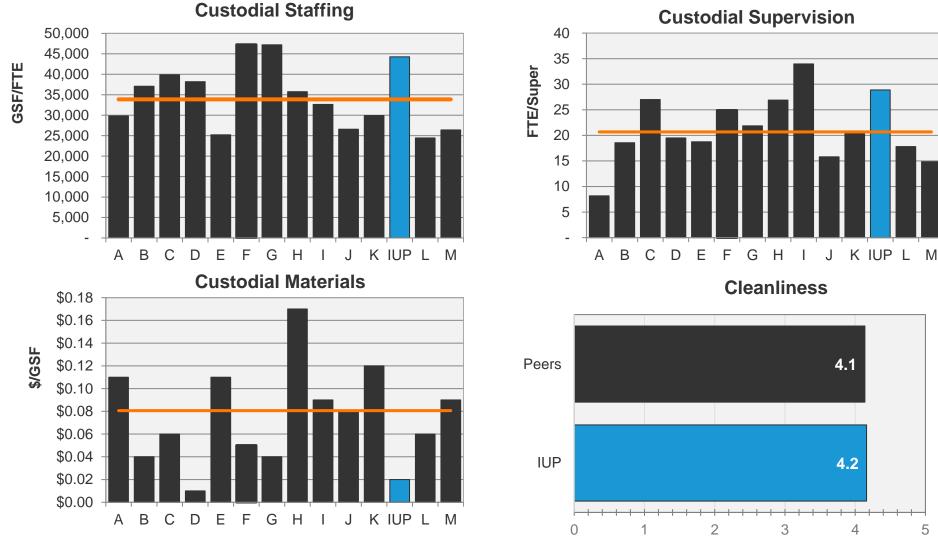


Institutions arranged by Tech Rating



Custodial Metrics

Custodial staff covering 31% more space than the peer average



Institutions arranged by Density Factor

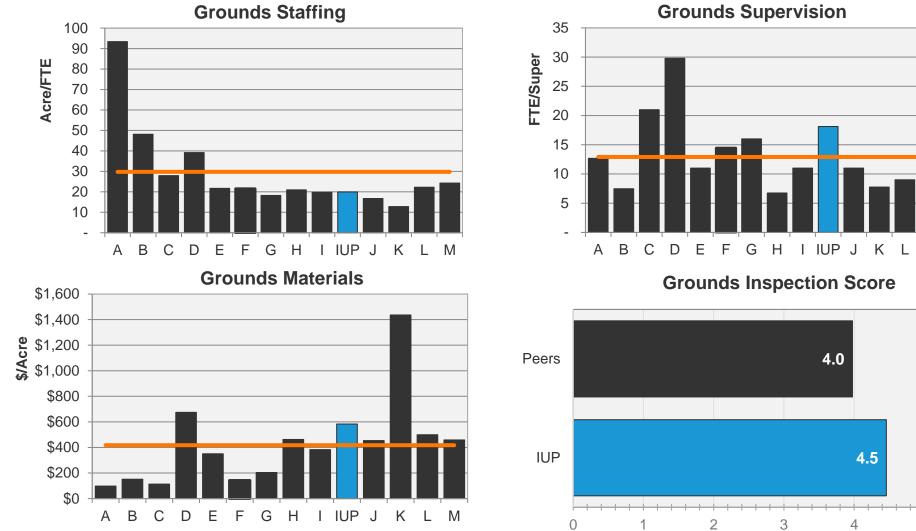




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Grounds Metrics

rounds Supervision



Institutions arranged by Grounds Intensity



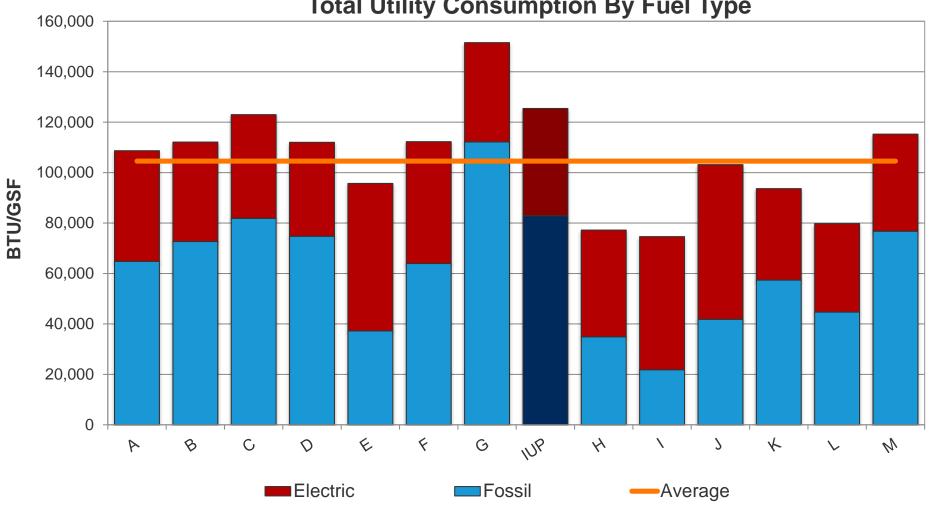
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2015 Energy Consumption vs. Peers

IUP's total energy consumption is 20% above peer average





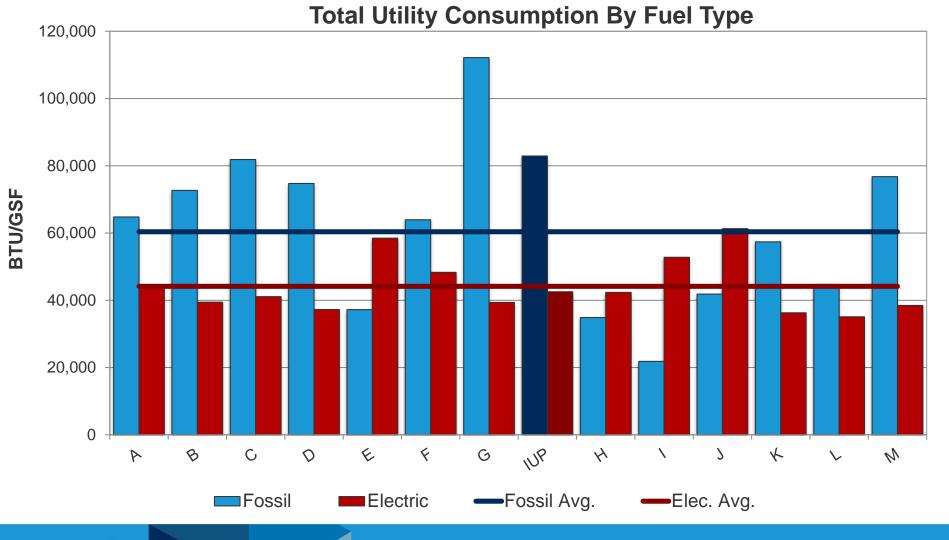
Total Utility Consumption By Fuel Type



2015 Energy Consumption vs. Peers

IUP's total energy consumption is 20% above peer average; driven by fossil



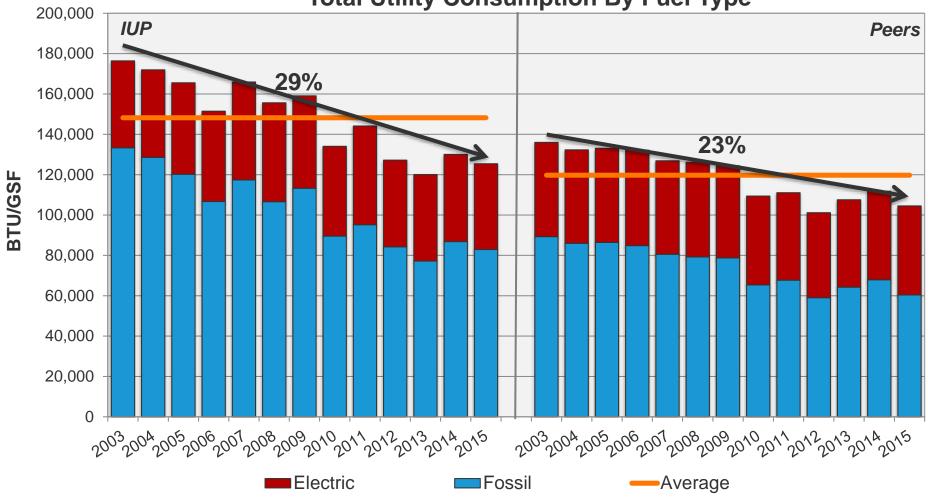




Energy Consumption vs. Peers

Continued steady decrease in fossil, Electric stays constant through FY15





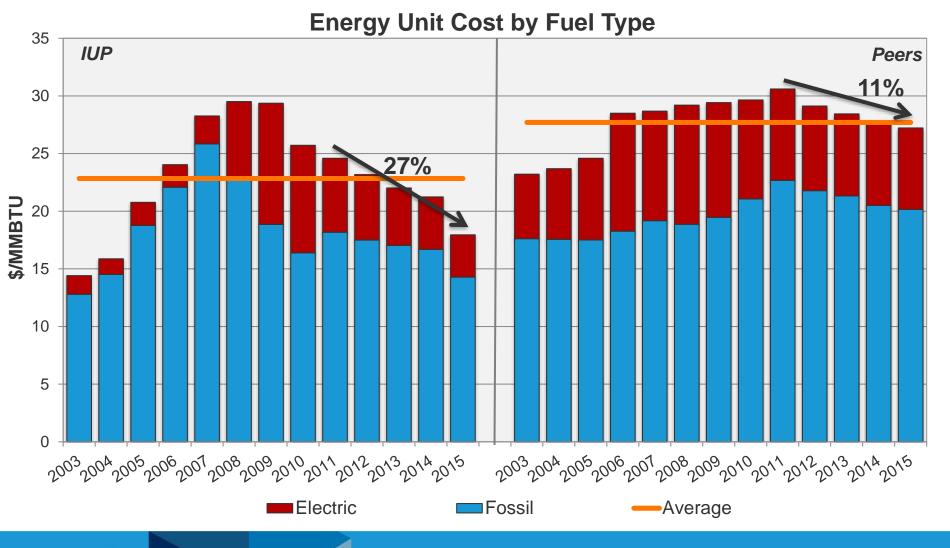
Total Utility Consumption By Fuel Type



Energy Unit Cost by Fuel Type

\$/MMBTU

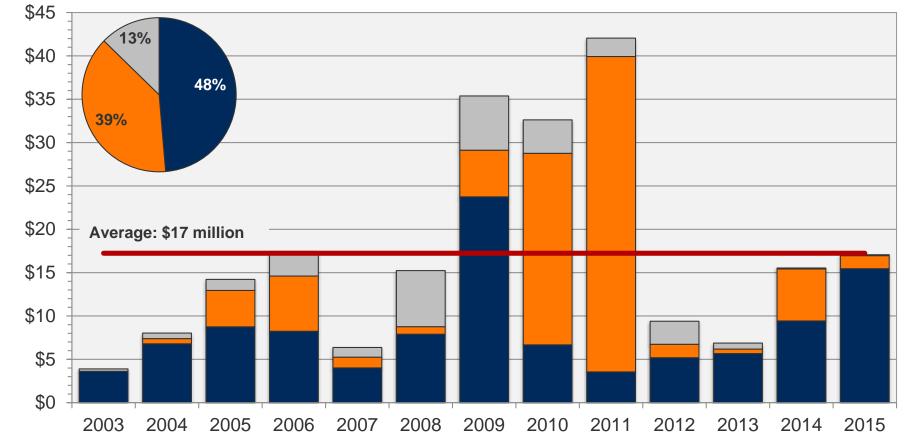






Total Capital Investment





Total Capital Investment

Existing Space Investment Rew Space Investment Non-Facilities -Average

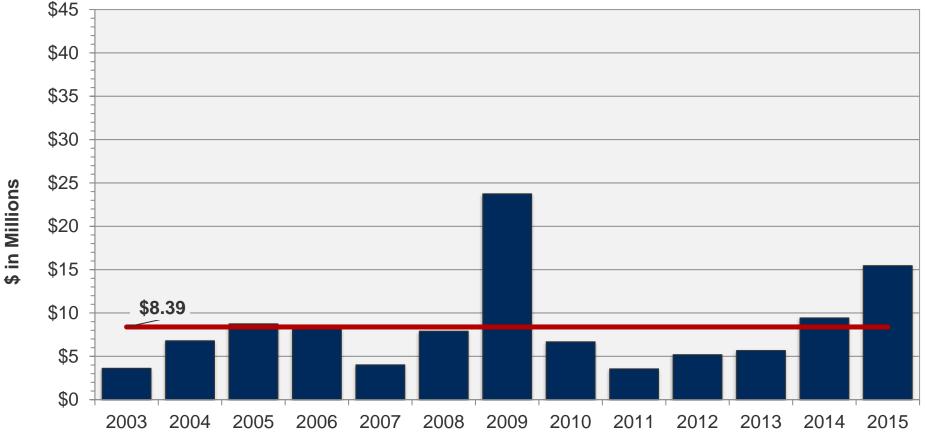


Total Capital Investment

Average into existing space reduces from \$17M to \$8.4M







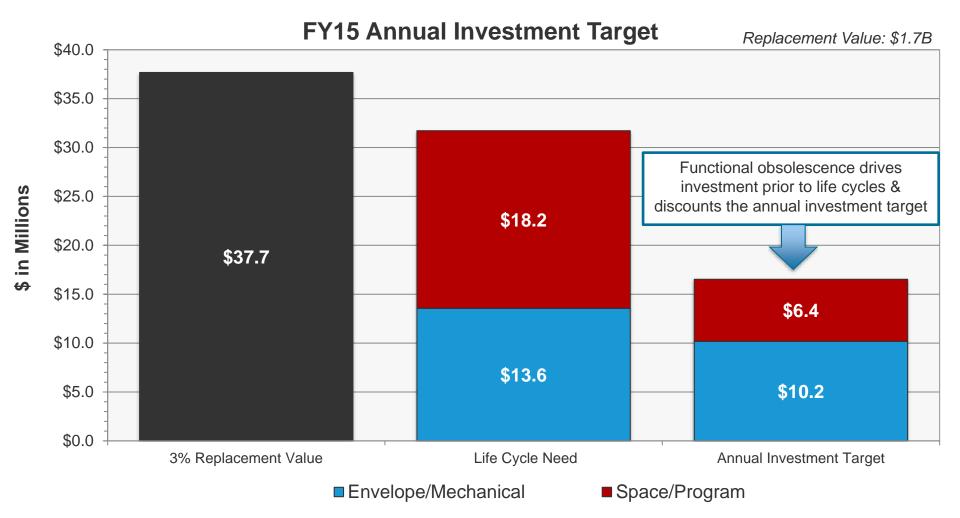
Existing Space Investment —Average



Defining an Annual Investment Target

Annual Funding Target: \$16.6M into existing space



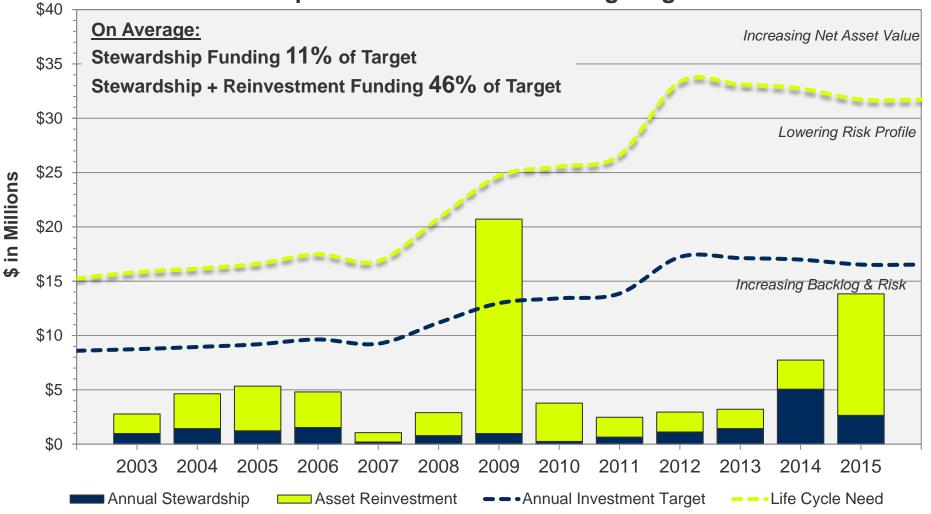


Sightlines

Total Capital Investment vs. Funding Target

Includes only the investment in existing facilities (excluding infrastructure)

Total Capital Investment vs. Funding Target

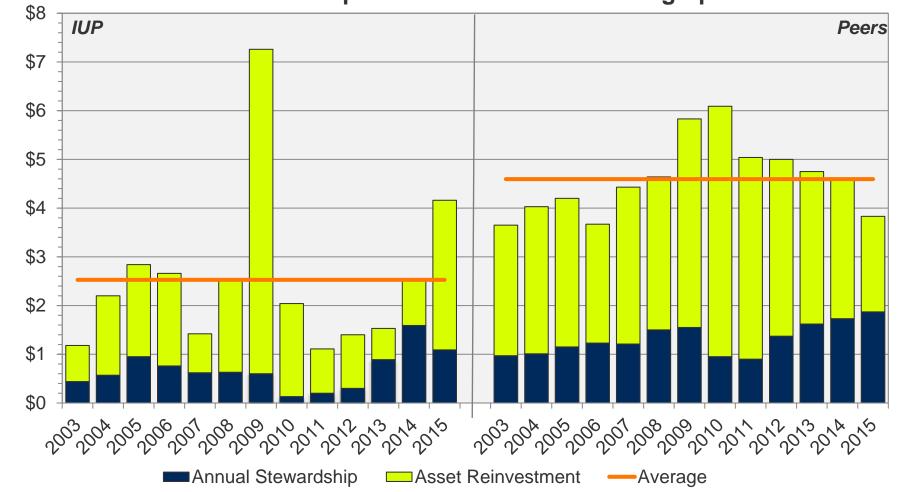




Total Project Spending vs. Peers

Includes only the investment in existing facilities







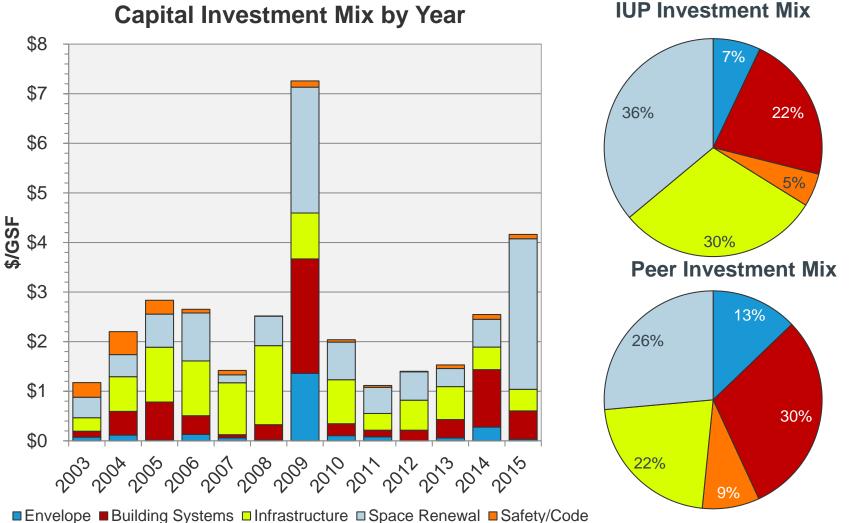
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\$/GSF



Total Project Spending by Package

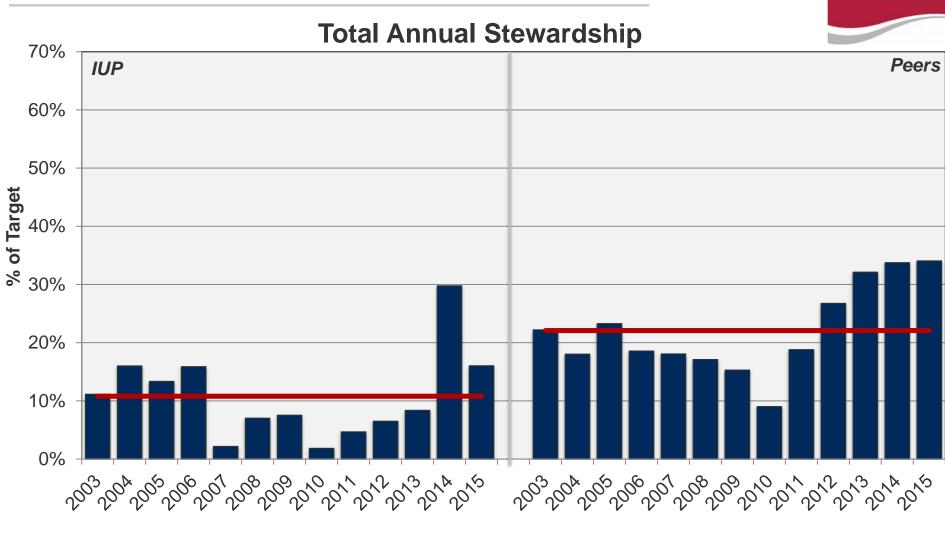
Envelope/Systems Investments Critical to Keep Buildings Running







Peers are Focusing on Increasing Stewardship

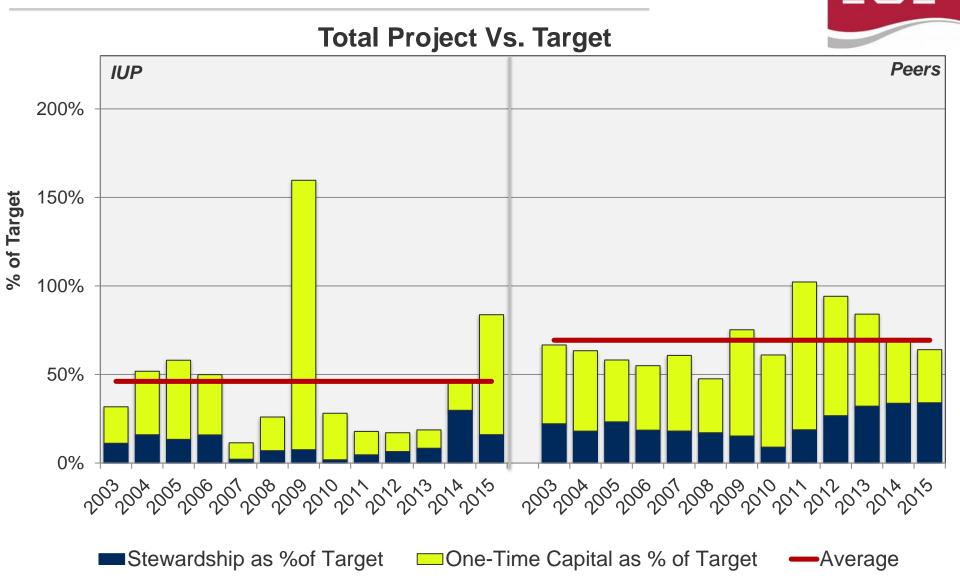


Stewardship as % of Target —Average





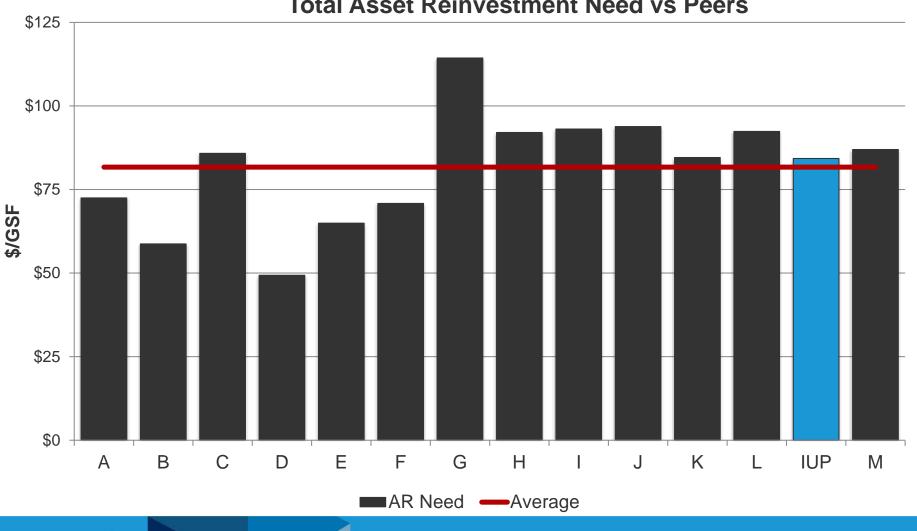
Spending Below Peer Average over 13-Year Span





FY15 Total Asset Reinvestment Need vs. Peers

IUP need is aligned with peer of a similar campus renovation age



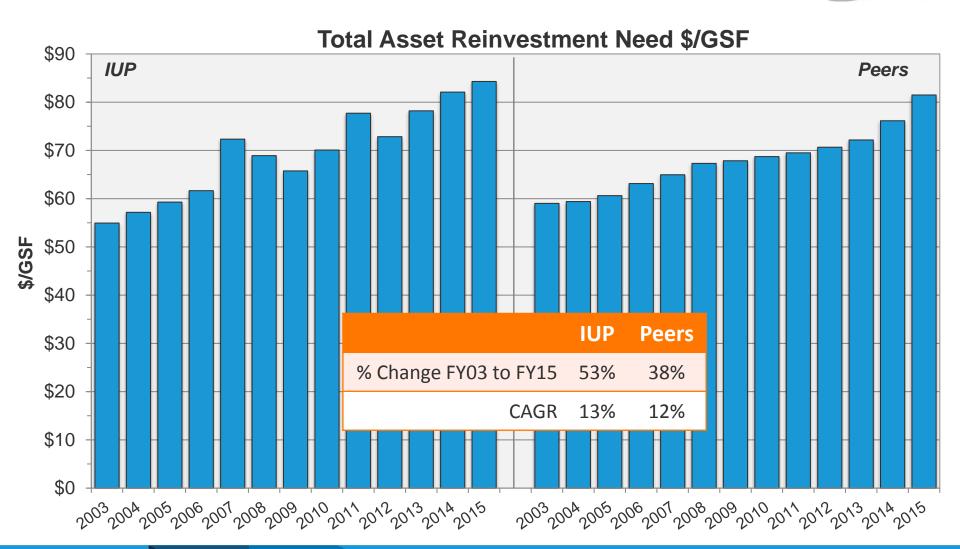
Total Asset Reinvestment Need vs Peers





Total Asset Reinvestment Need vs. Peers

IUP has seen greater growth in AR need both annually and as a % change









Renewal/Life Cycle Needs



Total Asset Reinvestment Need

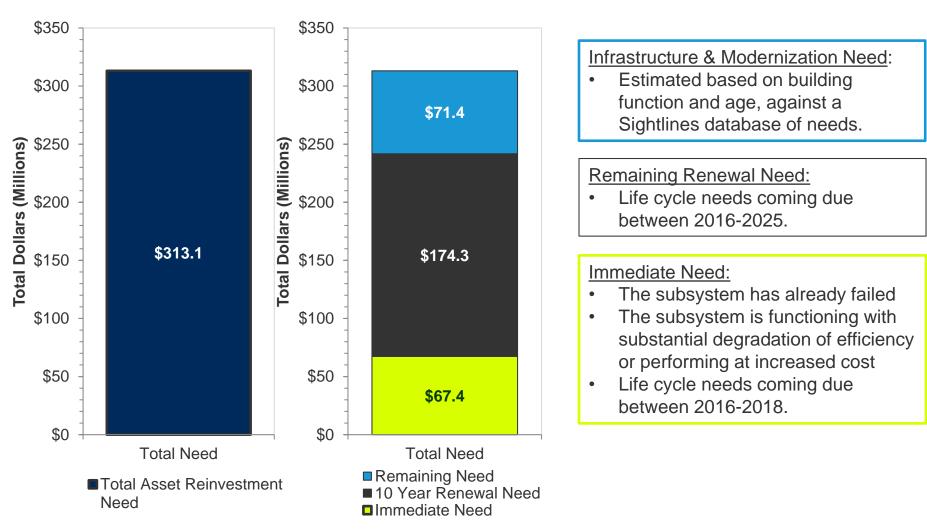
Modernization/ Upgrade Projects



IUP's Ten Year Need

\$67.4M in immediate need



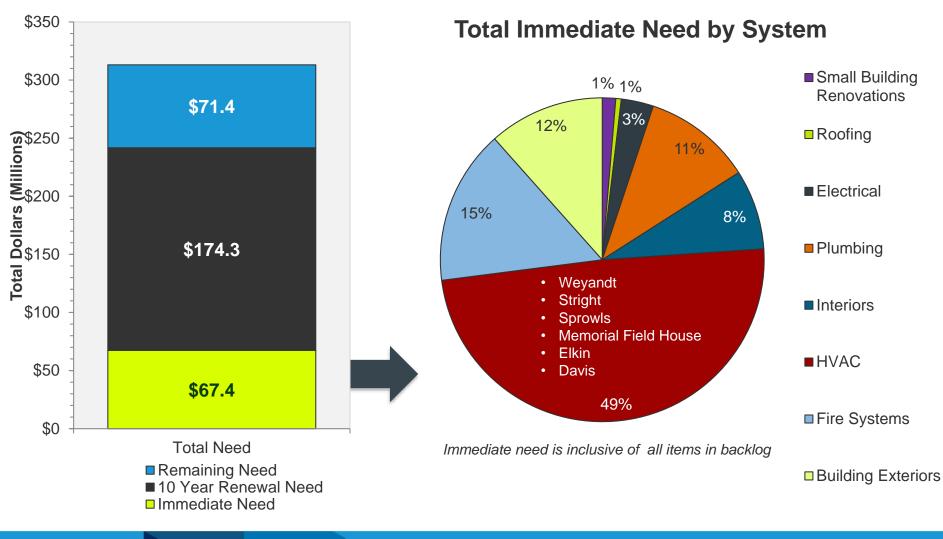




Total Immediate Need by System

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\$67.4M in immediate need





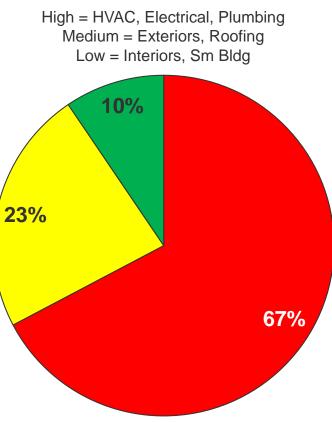
54% of Immediate Need is High Risk

Comprised of HVAC, Electrical and Plumbing backlogged needs





IUP: Immediate Needs by Risk

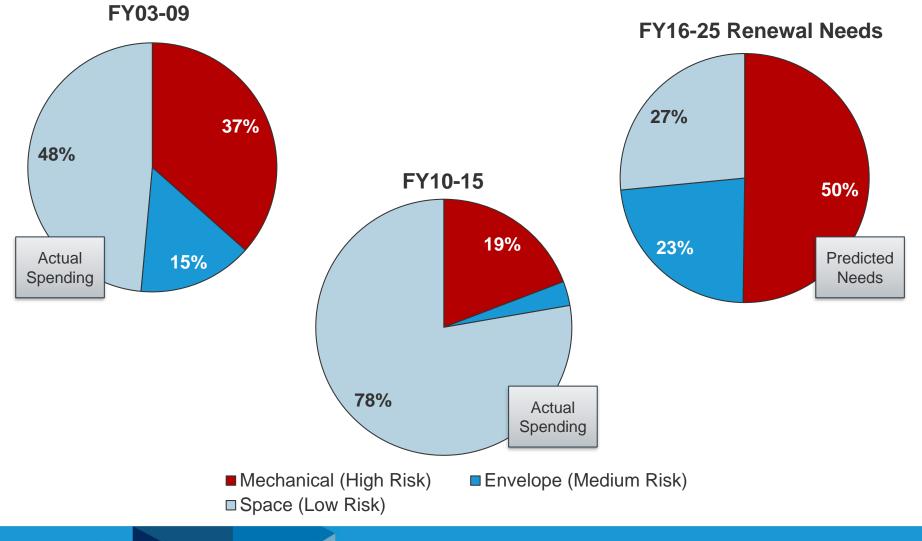




Past Investments Compared to Prediction Needs

IUP

Future investments recommended to shift towards mechanical systems

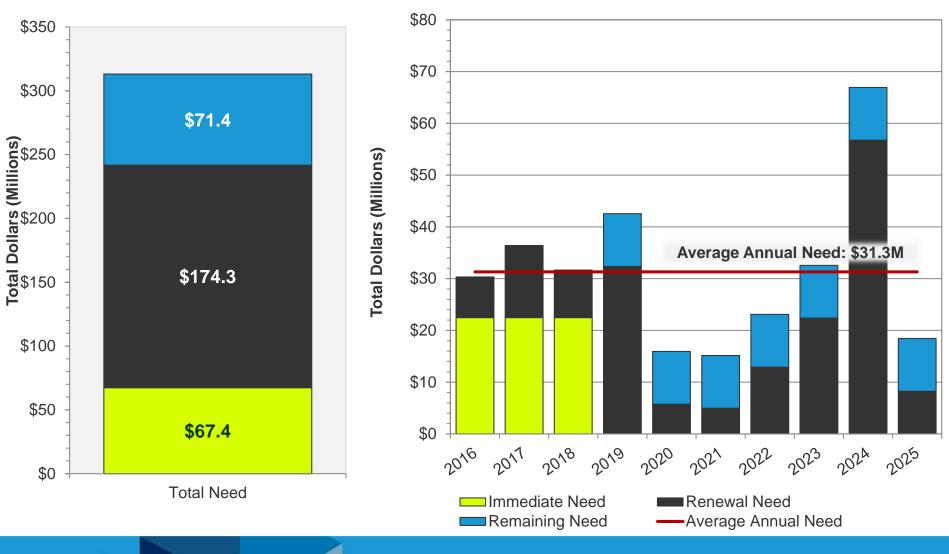




10-Year Renewal Need, Addressing Backlog

IUP

Immediate and 10-year renewal needs totaling \$241.7M

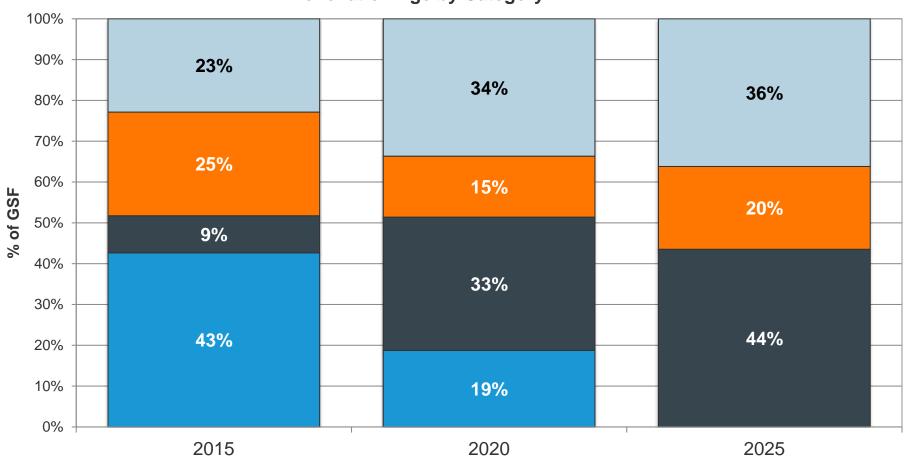




Young Spaces Today Facing Future Capital Infusions

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Today's young campus will age concurrently and require significant investment



Renovation Age by Category

■ Under 10 ■ 10 to 25 ■ 25 to 50 ■ Over 50



Breaking Down the ROPA Radar

A single chart to summarize IUP's performance in FY15



Annual Stewardship:

IUP is operating significantly below target in this category. Continuing to increase institutionlevel funding to facilities will increase this area

Asset Reinvestment

Annual Stewardship:

IUP is operating significantly below target in this category. Identifying and executing on large-scale renovations and demolitions will improve this area



Operating Effectiveness:

IUP is operating at close to target. Reducing the strain on the custodial department through strategic hiring of staff and supervisors will close the gap here

Operating Effectiveness

Service:

IUP is operating at close to target. Improving the ability for customers to communicate with staff when service requests are completed will improve this category

Optimal: "Ideal world" scenario in which IUP would be performing at the top of our database

Target: What IUP should strive to reach in order to operate both effectively and efficiently

Service

Target

Actual

Optimal

Actual: Where IUP is operating based on fiscal year 2015 analysis





- 1. Protect the investments you've made in recent years. Are your current operating funds enough to maintain the new spaces in good condition?
 - 1. Maintenance and custodial staff are both stretched to cover more than peers by 30%. Is this model sustainable, and can your staff keep up a high expectation level?
- 2. The large percent of campus that is under 10 today will age together and meet major life cycles at once. Current investment levels are falling far below target levels of need and upcoming renewal needs; what is the plan to address the needs moving forward?
- 3. Historical investments have been more heavily weighted towards space renewal; future needs will lie in the mechanical/high-risk systems. Work to strategize limited funding to maximize results and benefits
- 4. Recent investments into PM have been commendable, and it needs to be sustained. Investing \$1 in PM today can save \$2.73 in reactive maintenance down the road; ensuring continuation of these investments will be key for both cost effectiveness and building preservation





Key Performance Indicator

How is the Indicator Calculated?



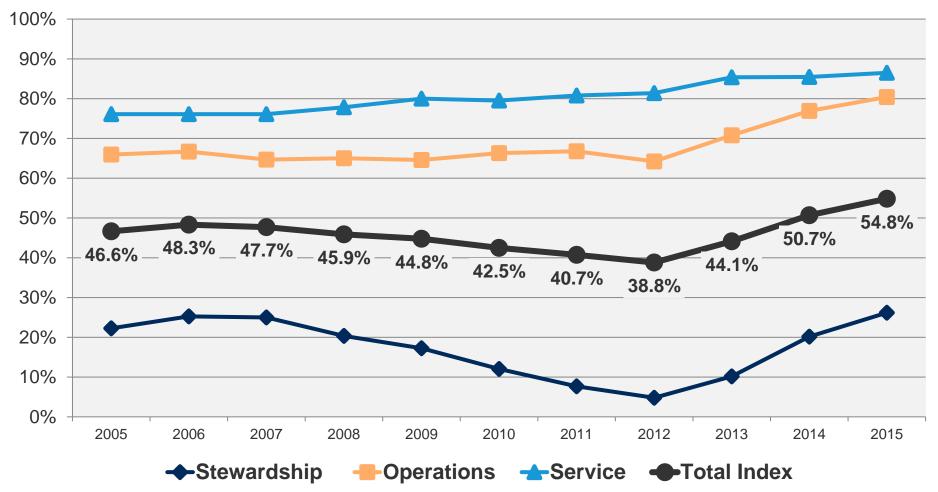
1	Annual Stewardship	Stewardship and Operating Budget – PM	50%
2	Preventive Maintenance	PM (% of facilities operating budget)	5%
	Maintenance	Coverage (GSF/FTE)	1.67%
		Supervision (FTE/Supervisor)	1.67%
		Materials (\$/FTE)	1.67%
	Custodial	Coverage (GSF/FTE)	1.67%
		Supervision (FTE/Supervisor)	1.67%
		Materials (\$/FTE)	1.67%
	Grounds	Coverage (GSF/FTE)	2.5%
		Supervision (FTE/Supervisor)	2.5%
	Energy	Consumption (BTU/GSF)	5%
3	Service	Campus Inspection	12.5%
		Service Process	12.5%



Indiana University of PA - KPI

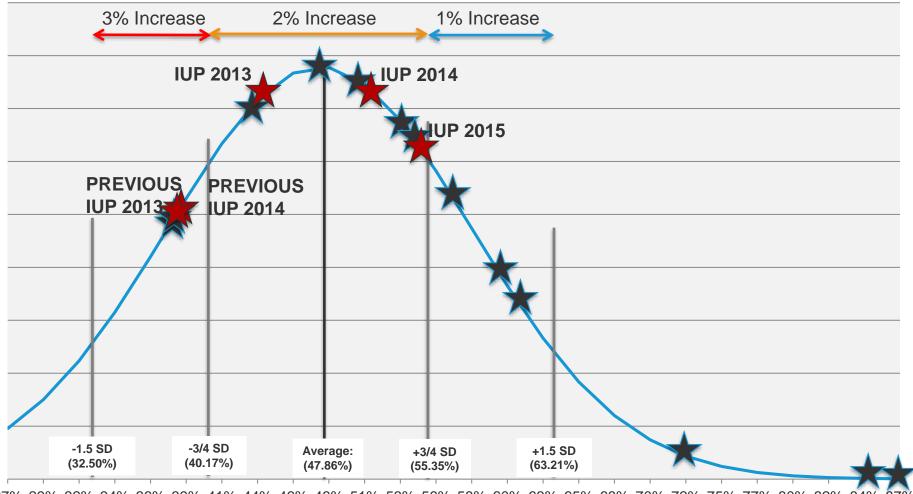


IUP Performance





Distribution of Peer KPI Index Value



27% 29% 32% 34% 36% 39% 41% 44% 46% 48% 51% 53% 56% 58% 60% 63% 65% 68% 70% 72% 75% 77% 80% 82% 84% 87%



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Questions & Discussion