

Wesleyan University FY18 ROPA+ Presentation

March 20, 2019

University of Toledo University of Vermont University of Washington University of West Florida University of Wisconsin - Madison Vanderbilt University Virginia Commonwealth University Wake Forest University Washburn University Washington State University Washington State University - Tri-Cities Campus Washington State University - Vancouver Washington University in St. Louis Wayne State University Wellesley College Wesleyan University West Chester University West Virginia Health Science Center West Virginia University Western Oregon University Westfield State University Widener University Williams College Worcester Polytechnic Institute Worcester State University



Annual Stewardship

The annual investment needed to ensure buildings will properly perform and reach their useful life *"Keep-Up Costs"*.

Asset Reinvestment

The accumulation of repair and modernization needs and the definition of resource capacity to correct them *"Catch-Up Costs"*

Operational Effectiveness

The effectiveness of the facilities operating budget, staffing, supervision, and energy management.

Service

The measure of service process, the maintenance quality of space and systems, and the customers opinion of service delivery.

Asset Value Change

Operations Success



Wesleyan Peer Institutions

SLAC Institutions

Institution	Location
Amherst College	Amherst, MA
Bowdoin College	Brunswick, ME
Bryn Mawr College	Bryn Mawr, PA
Carleton College	Northfield, MN
Davidson College	Davidson, NC
Hamilton College	Clinton, NY
Mount Holyoke College	South Hadley, MA
Pomona College	Pomona, CA
Swarthmore College	Swarthmore, PA
Williams College	Williamstown, MA



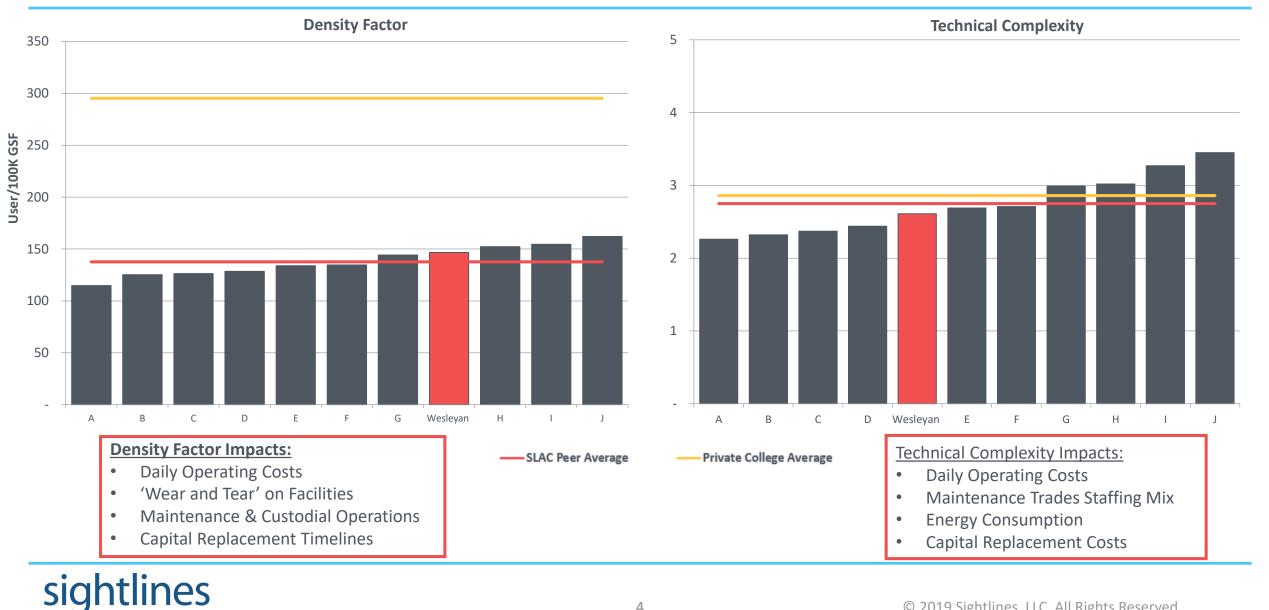
Comparative Considerations

Size, technical complexity, region, geographic location, and setting are all factors included in the selection of peer institutions



Comparing the SLAC Institutions

a **GRDIAN**[®] company

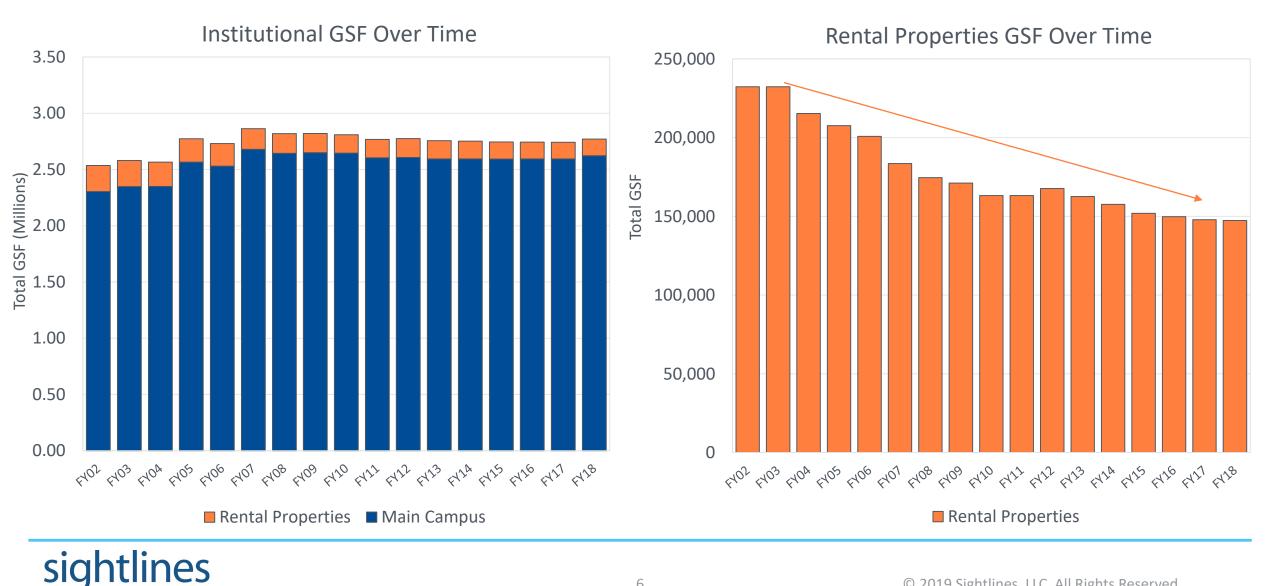




Space Profile



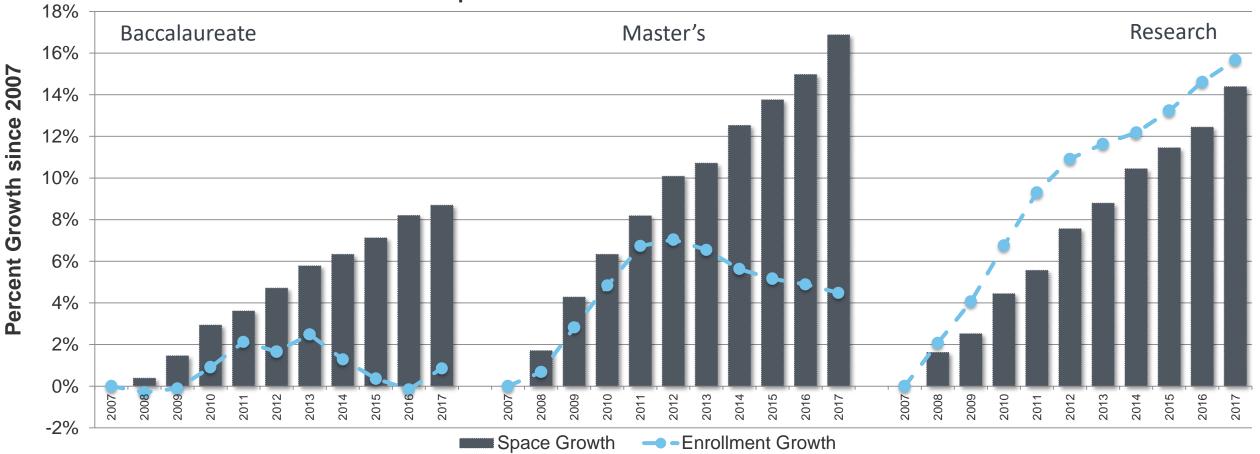
Wesleyan's GSF Consistent Over Time



a **G C D I A N** ° company

Space Growth with Declining Enrollment is an Exposure

Wesleyan not growing at same rate as other baccalaureate institutions, less exposure

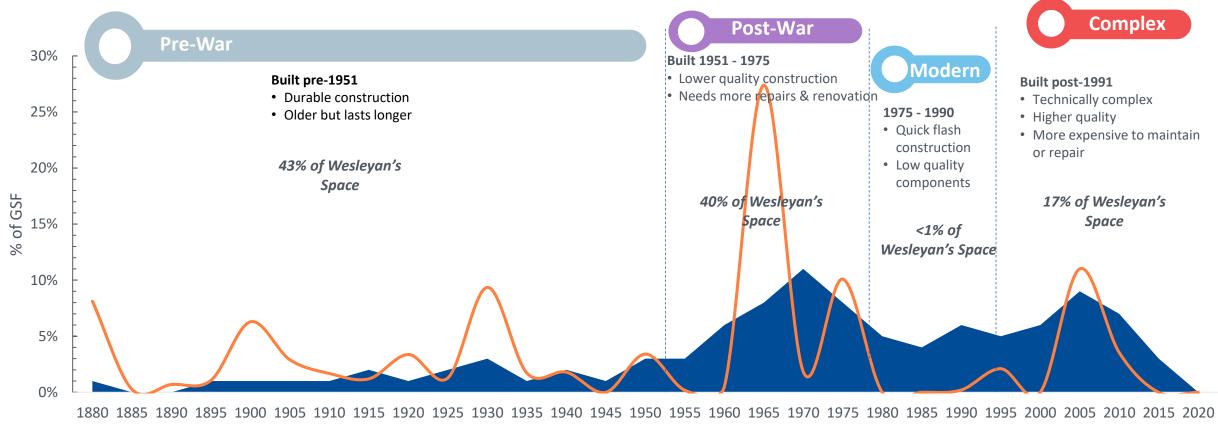


Space Growth vs. Enrollment Growth



Putting Your Campus Building Age in Context

% of GSF by Construction & Renovation Year

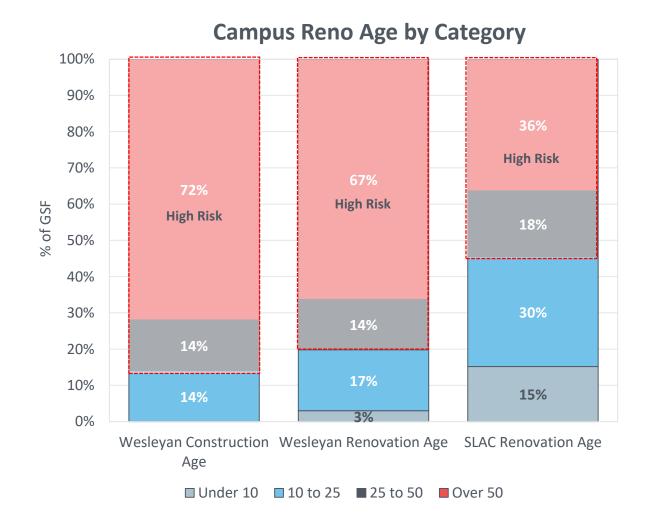


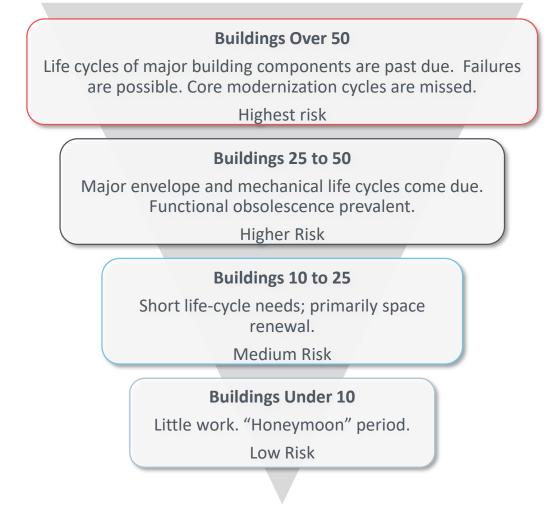
Sightlines Database- Construction Age —

-----Wesleyan



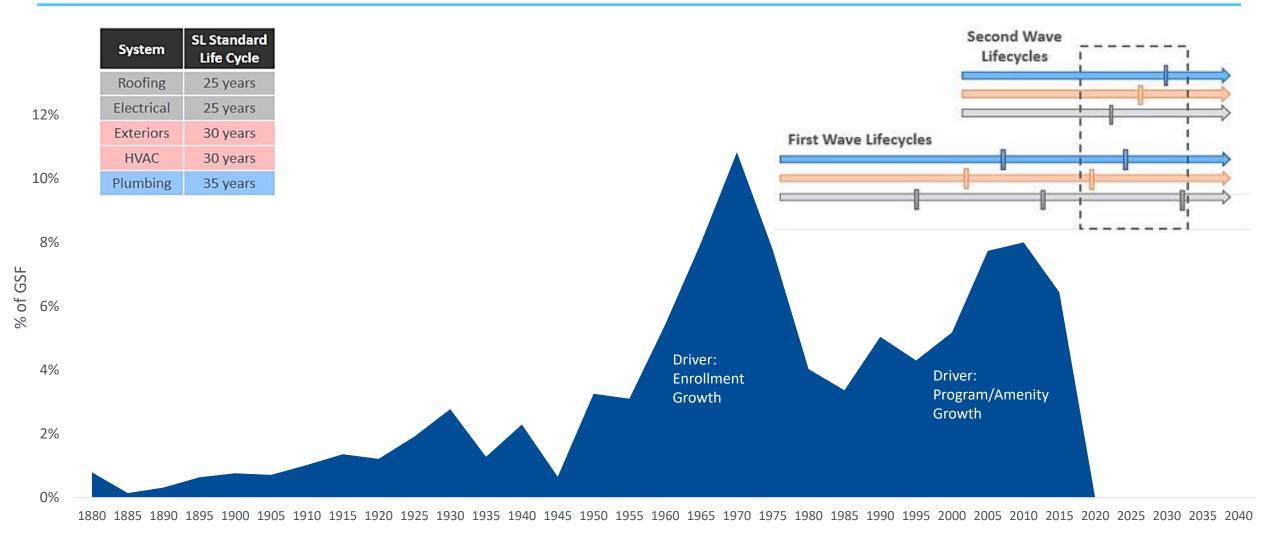
67% of Wesleyan's Campus Over 50 Years Old





a **GORDIAN**[®] company

Waves of Construction Drive Increasing Capital Need



Sightlines Database- Construction Age



© 2019 Sightlines, LLC. All Rights Reserved.



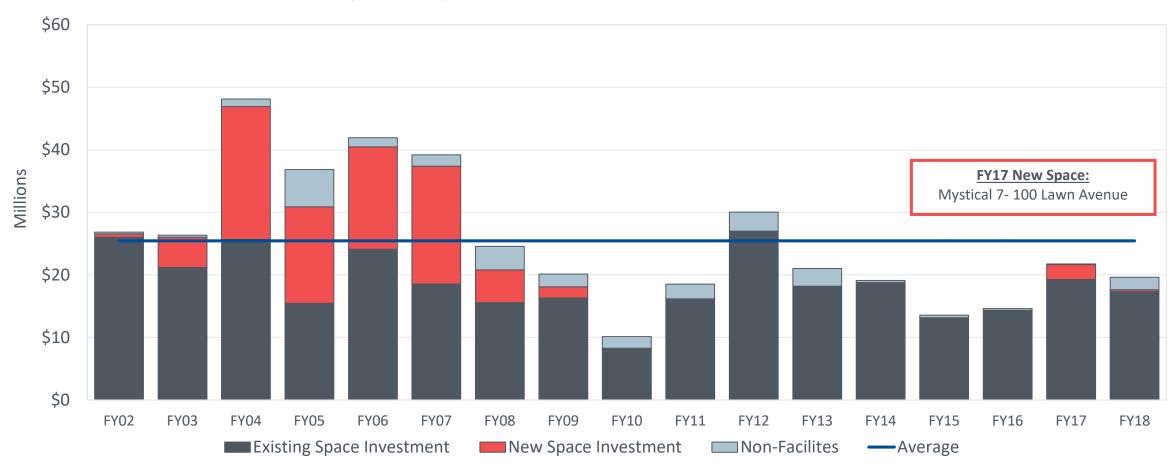
Asset Value Change



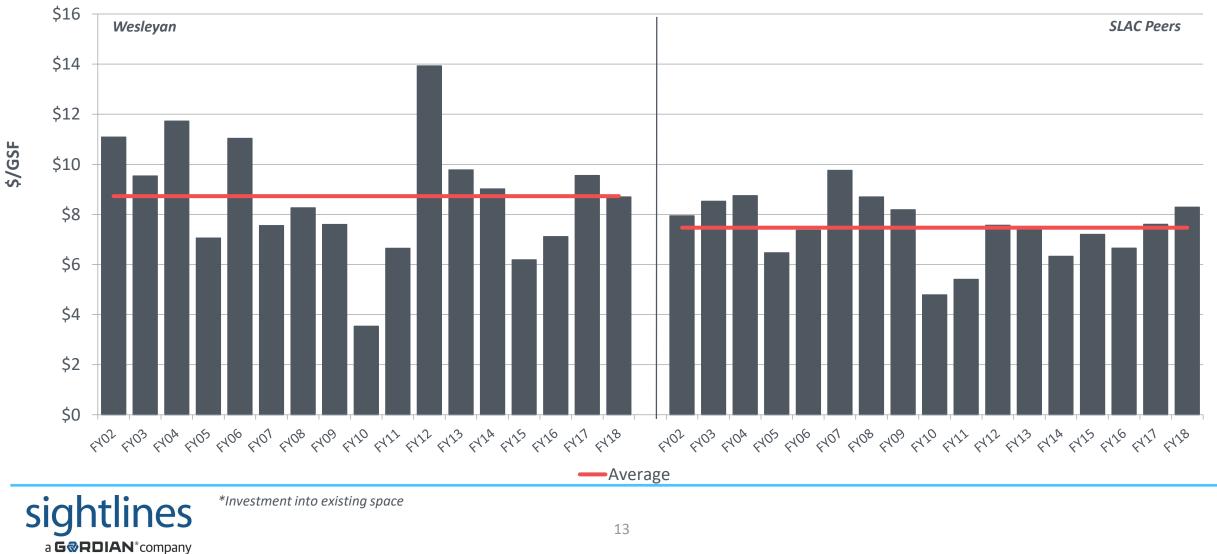
Total Investment FY02-FY18: \$441.1M

FY18 investment \$19.6M

Total Capital/Major Maintenance Investments from FY02-FY18



FY18 Investments Similar to Peers



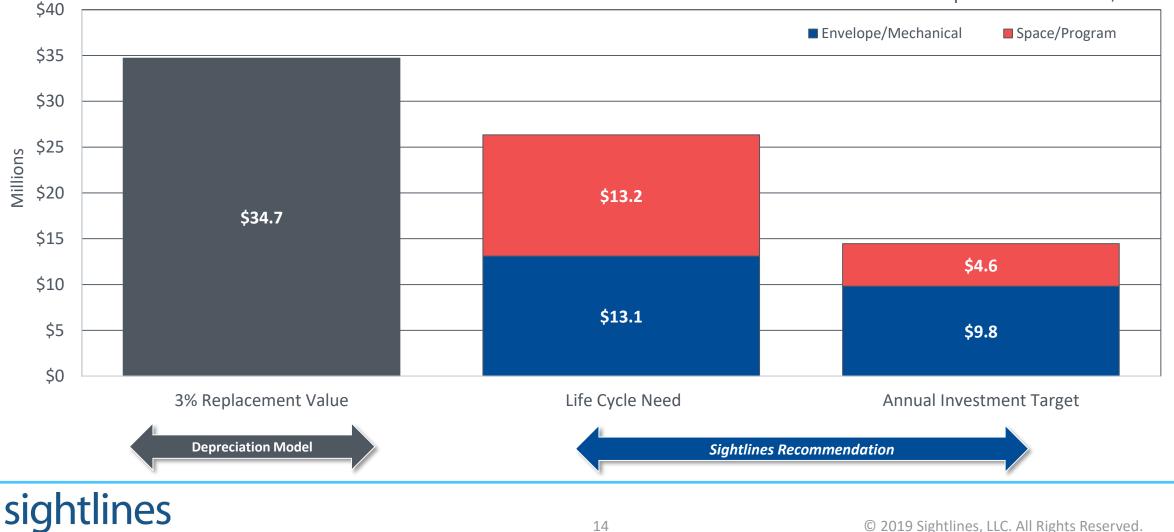
Total Investment \$/GSF vs. Peers

Defining an Annual Investment Target for Wesleyan

Annual Funding Target: \$14.4M

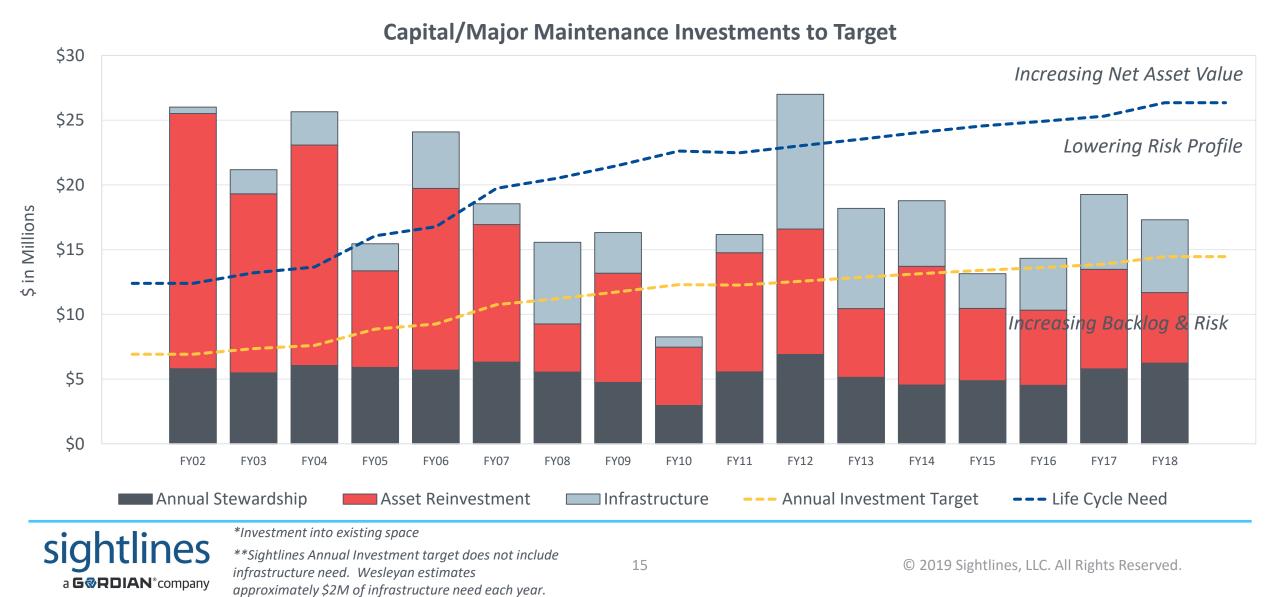
FY18 Annual Investment Target

Replacement Value: \$1.15B



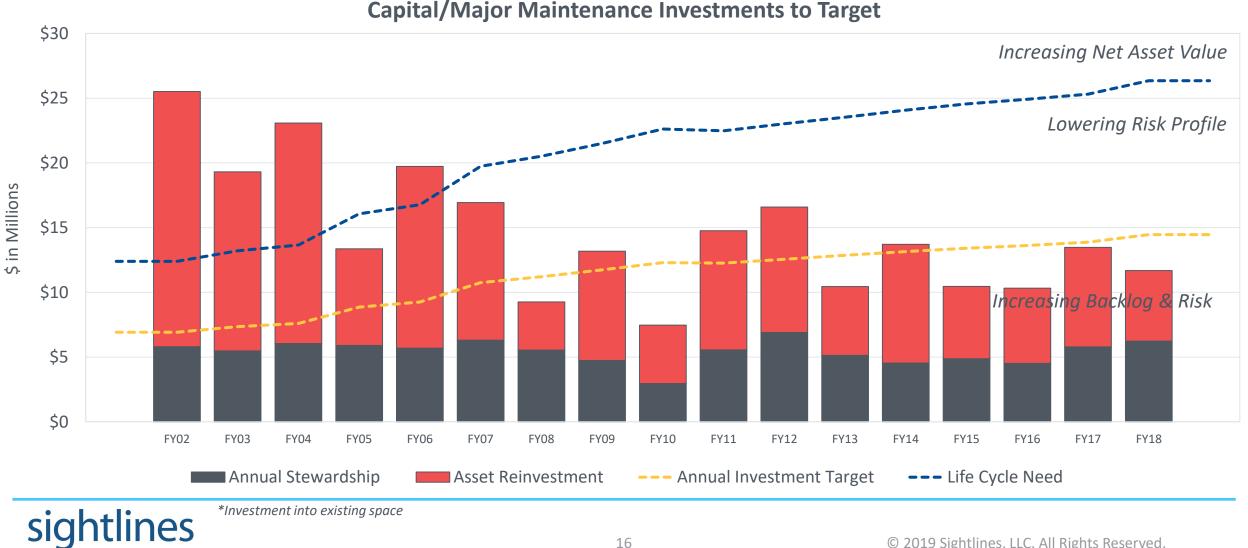
a **G RDIAN**[°] company

Chasing A Growing Target



Chasing A Growing Target

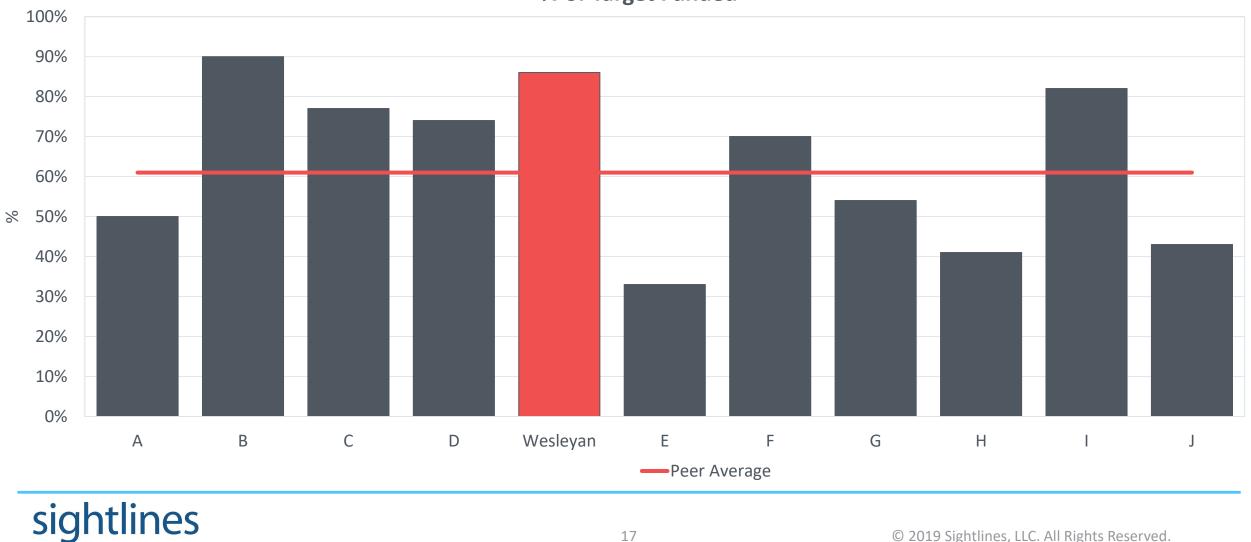
a **G C D I A N** ° company



© 2019 Sightlines, LLC. All Rights Reserved.

FY18 % of Target Funded

Wesleyan is meeting 86% of target

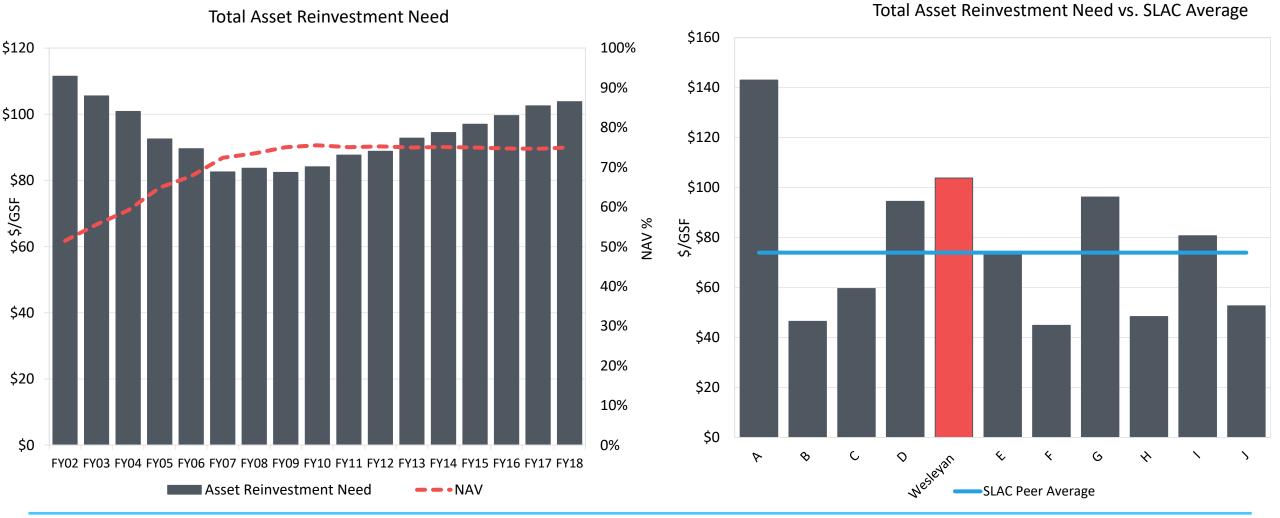


% of Target Funded

a **GRDIAN**[®] company

Total Asset Reinvestment Need

Wesleyan's Backlog is at \$104/GSF; SLAC Peers: \$74/GSF; SL database: \$89/GSF

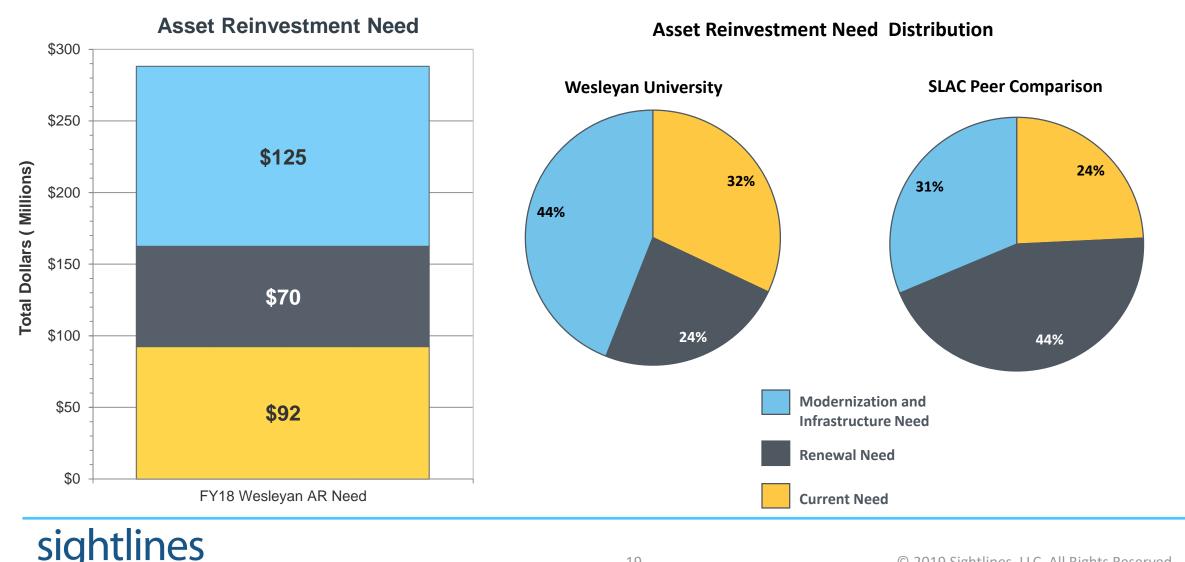


a GORDIAN° company

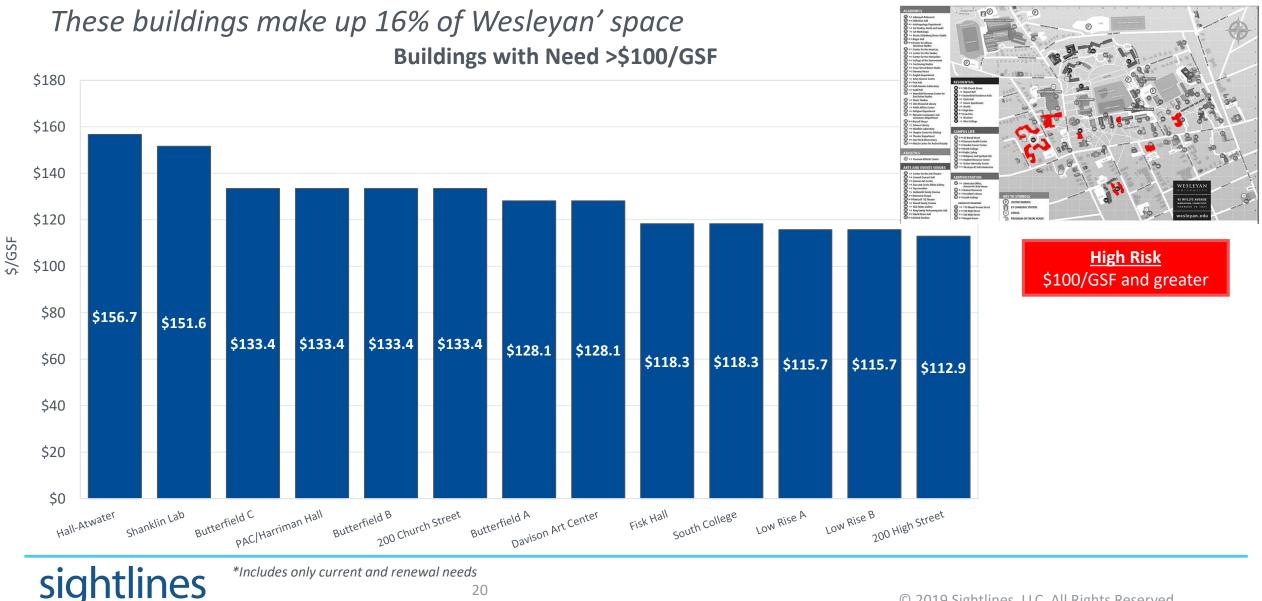
Wesleyan's Ten Year Backlog of Need - \$288M total need

Sightlines quantifies \$162 Million in system-specific need

a **G RDIAN**[°] company



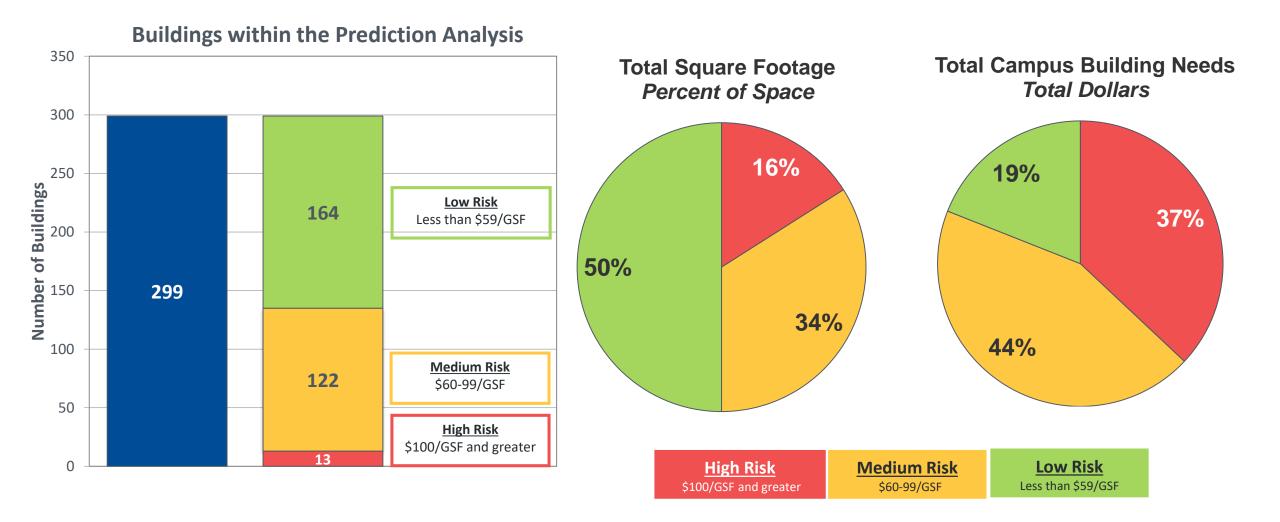
Buildings with Need Greater than \$100/GSF



a **GRDIAN**° company

© 2019 Sightlines, LLC. All Rights Reserved.

Analysis of Building Needs



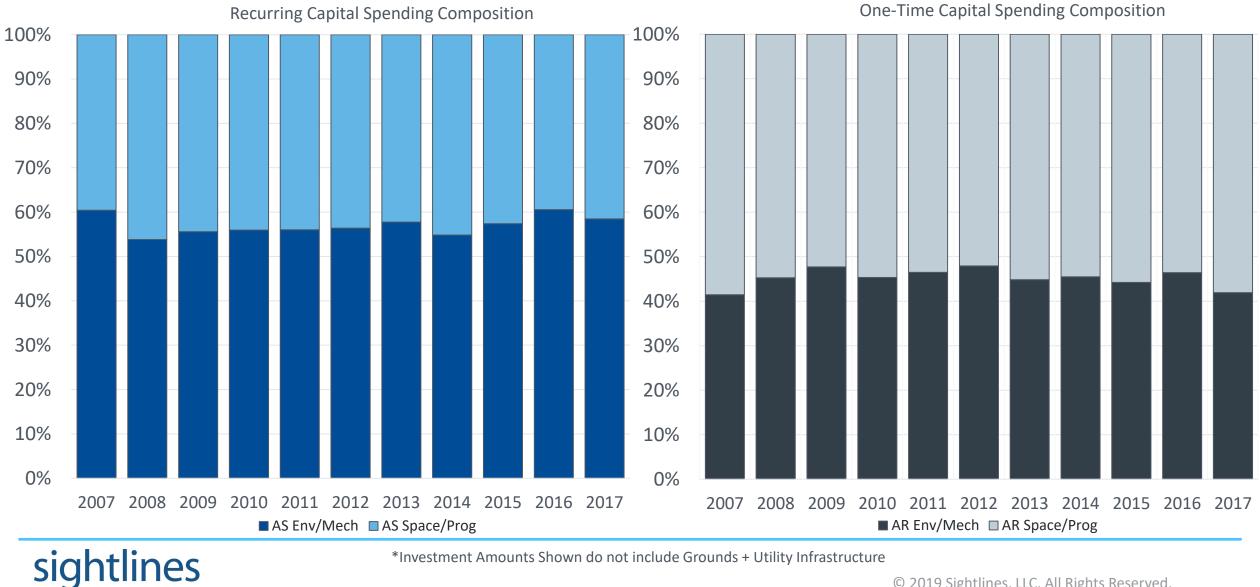
21

*Includes only current and renewal needs

sightlines

a **GRDIAN**[®] company

Database Continues to use Recurring Dollars for Envelope and Mechanical Projects

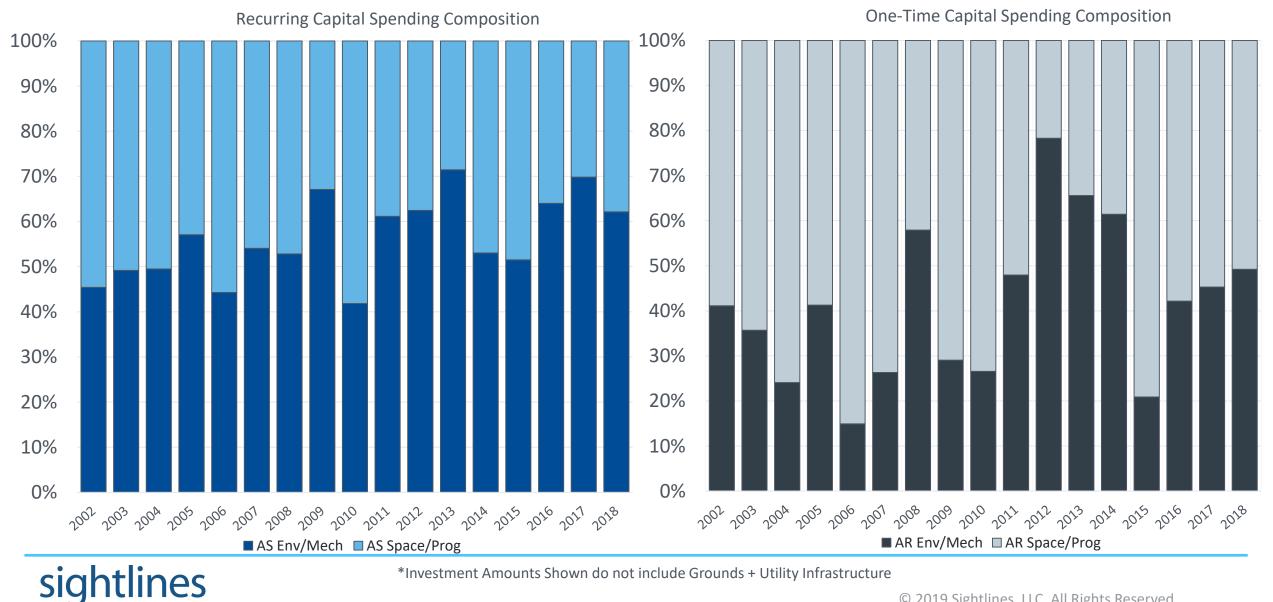


*Investment Amounts Shown do not include Grounds + Utility Infrastructure

a **G C D I A N** ° company

© 2019 Sightlines, LLC. All Rights Reserved.

Wesleyan Uses Recurring Dollars for Envelope and Mechanical Projects

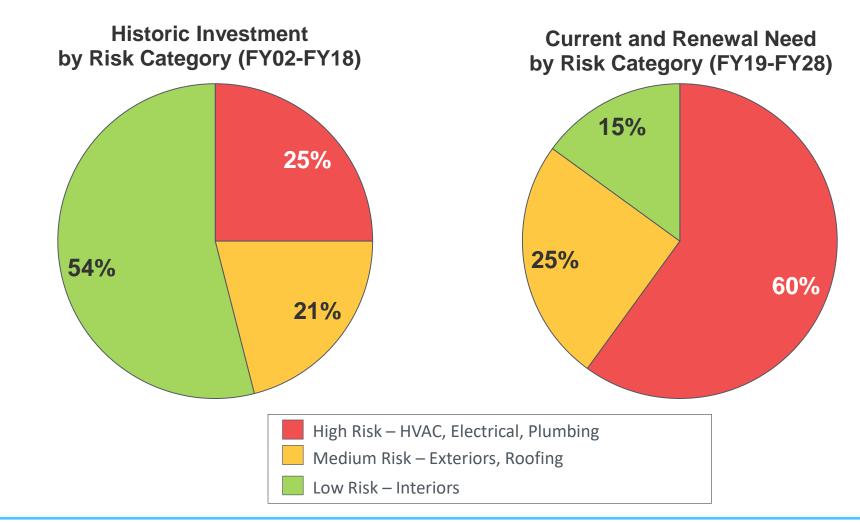


© 2019 Sightlines, LLC. All Rights Reserved.

a **GRDIAN**[®] company

Historic Investment in Existing Space vs. Future Needs

Upcoming Needs Will Shift Project Investment Portfolio to Focus on MEP Projects



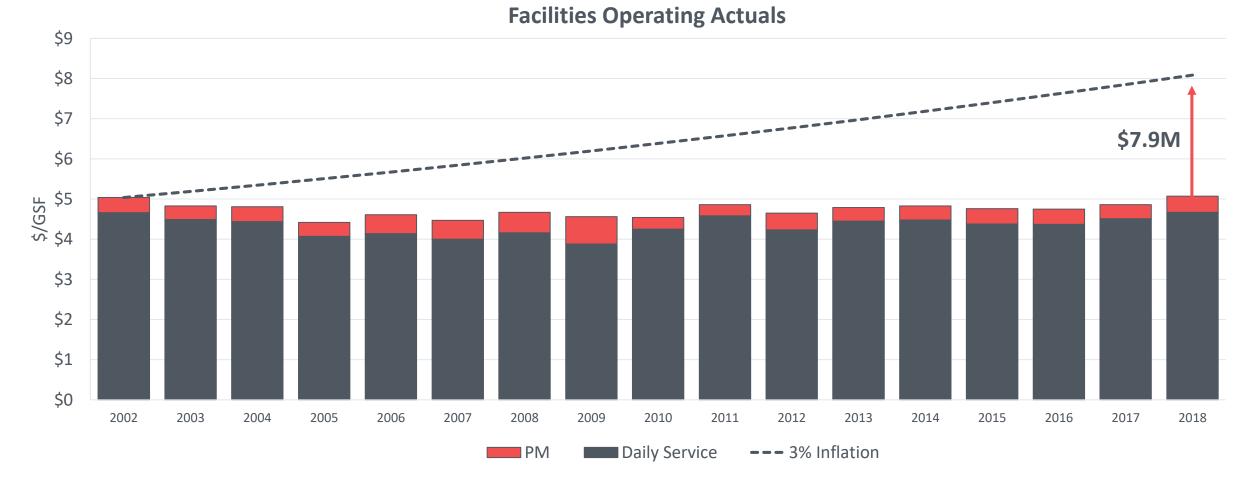


Operations



Main Campus Operating Efficiencies Save \$7.9M

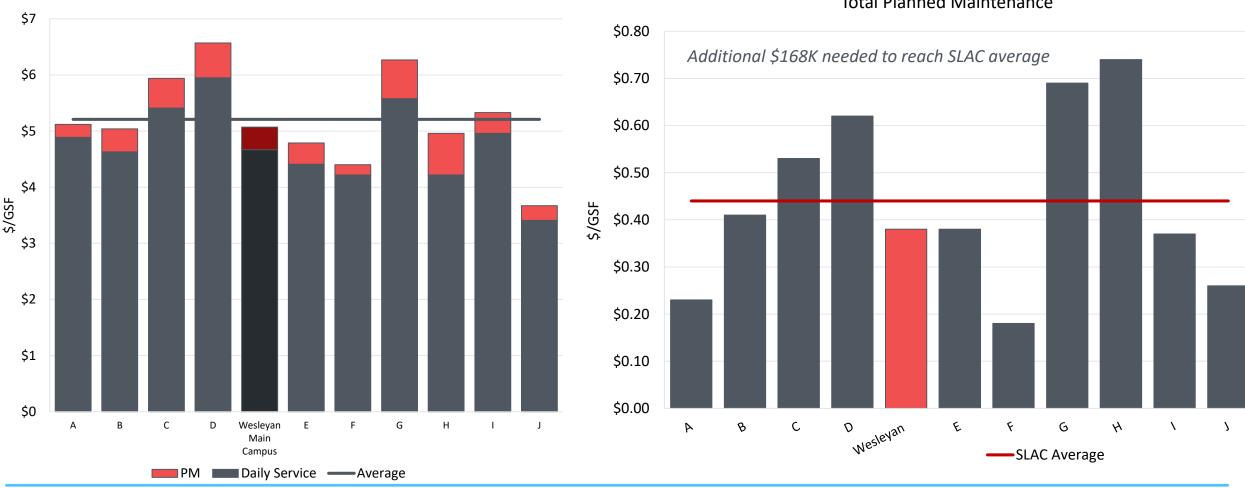
Investment of \$3.05/GSF or \$7.9M additional resources to match inflation growth in FY18



a GORDIAN° company

FY18 Main Campus Facilities Operating Expenditures

Operates with \$259K less in Daily Service dollars or \$367K less than total Operating Actuals, including PM



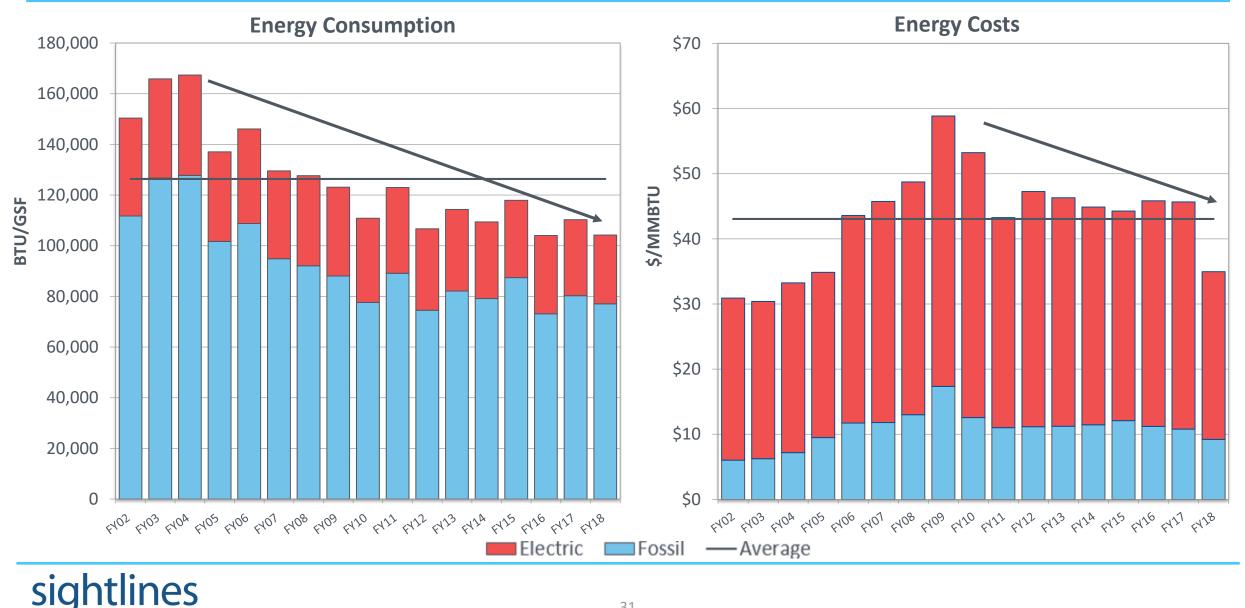
Facilities Operating Actuals

htlines

a **G RDIAN**[°] company

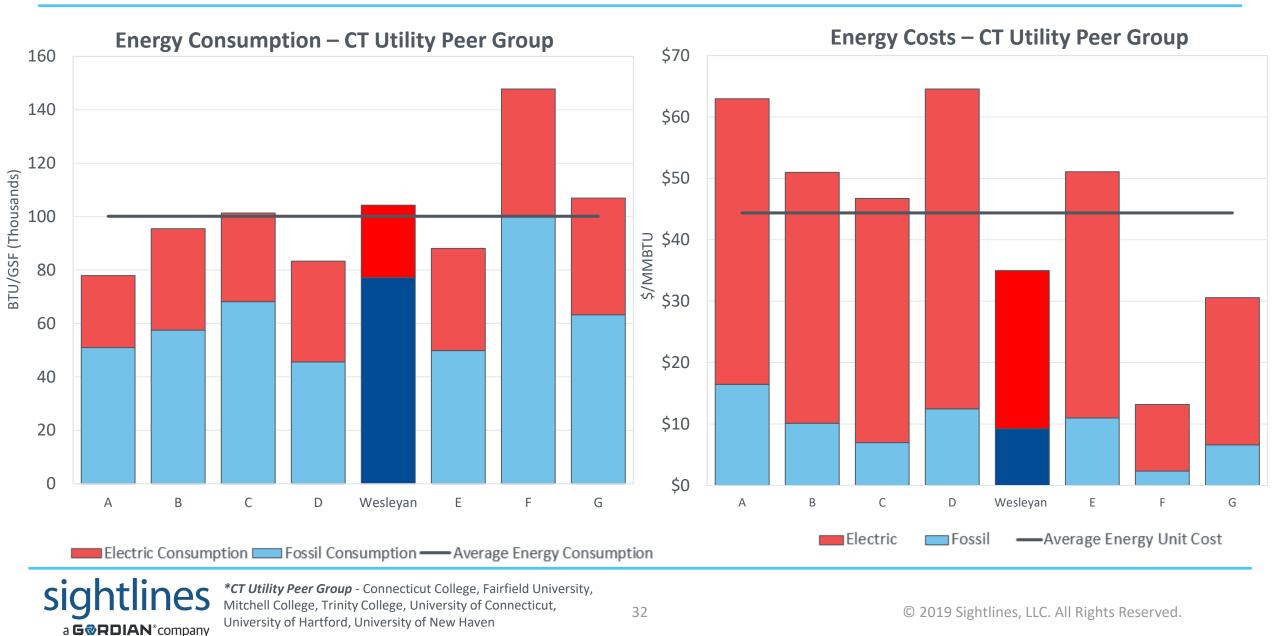
Total Planned Maintenance

Wesleyan's Historical Utility Consumption and Cost



a **G C D I A N** ° company

FY18 CT Peer Consumption and Unit Costs





Concluding Comments



Concluding Comments

Proactively Implement "Portfolios"

• Intentionally allocate resources to certain assets and avoid others. These priorities must be developed and communicated throughout the entire institution.

• Develop Resiliency and Efficiency in Operations

• Leverage data and technology to improve efficiencies and create operations that are resilient to economic uncertainty or demographic headwinds.

Make Communication a Priority

• Communicate directly with customers and "tell their story" throughout the institution.



sightlines a G@RDIAN[®] company

Questions & Discussion



Appendix



Comparing the SLAC Institutions

a **G C D I A N** ° company



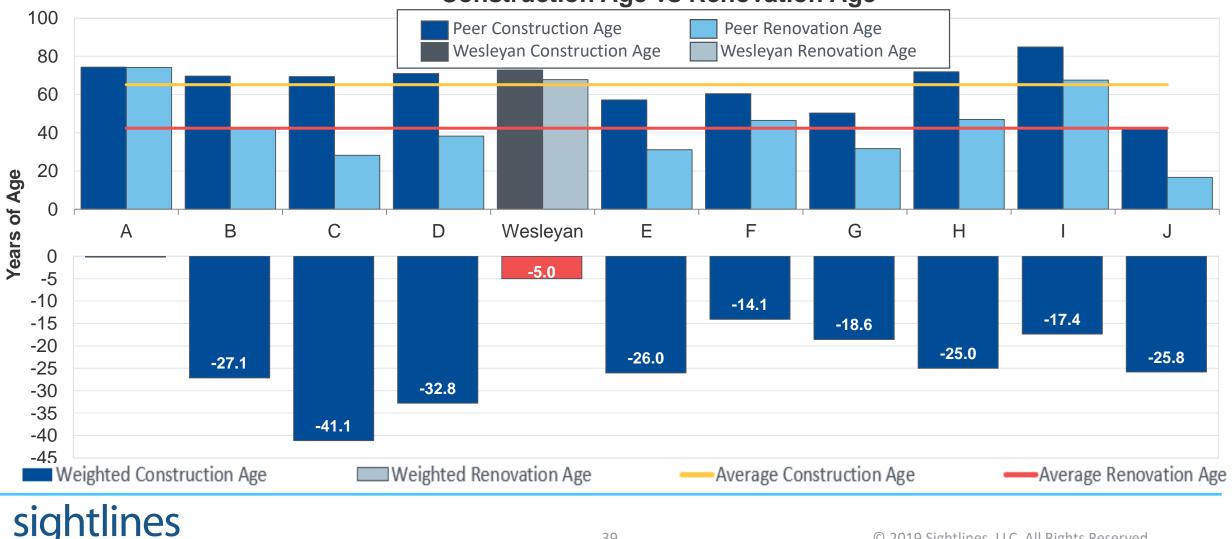
© 2019 Sightlines, LLC. All Rights Reserved.

Comparing the SLAC Institutions



a **G R DIAN**[°] company

Construction Age and Renovation Age vs. Peers

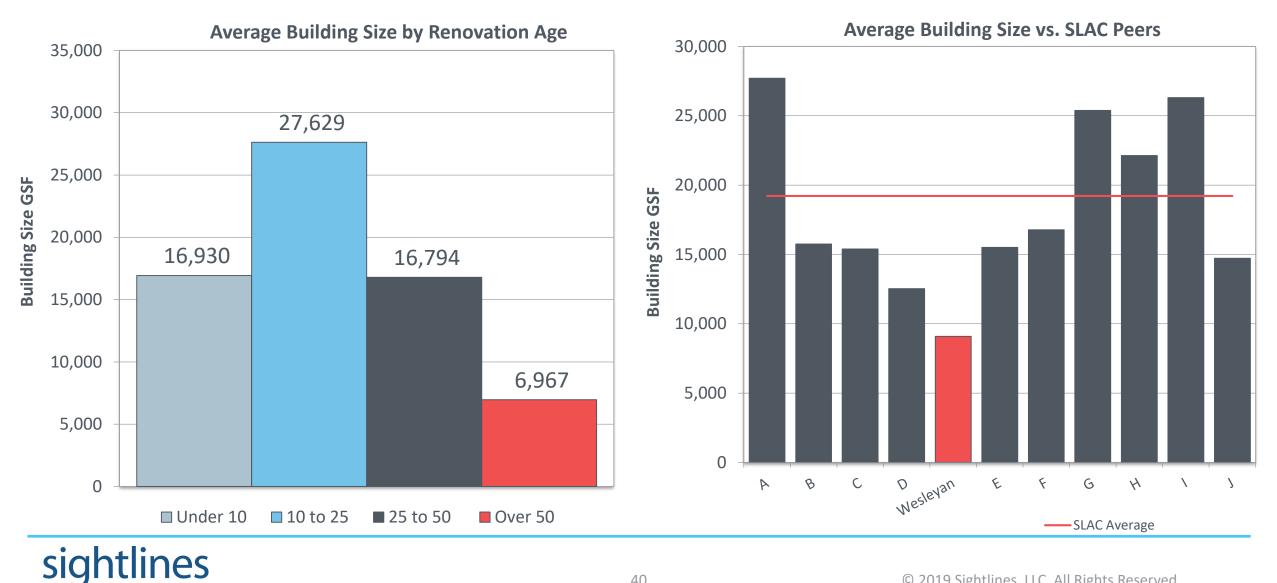


Construction Age vs Renovation Age

© 2019 Sightlines, LLC. All Rights Reserved.

a **G RDIAN**[°] company

Smallest Buildings are the Oldest





Investment into Existing Space Decreases In FY2018

Average annual investment: \$18.5M

Total Capital/Major Maintenance Investments from FY02-FY18

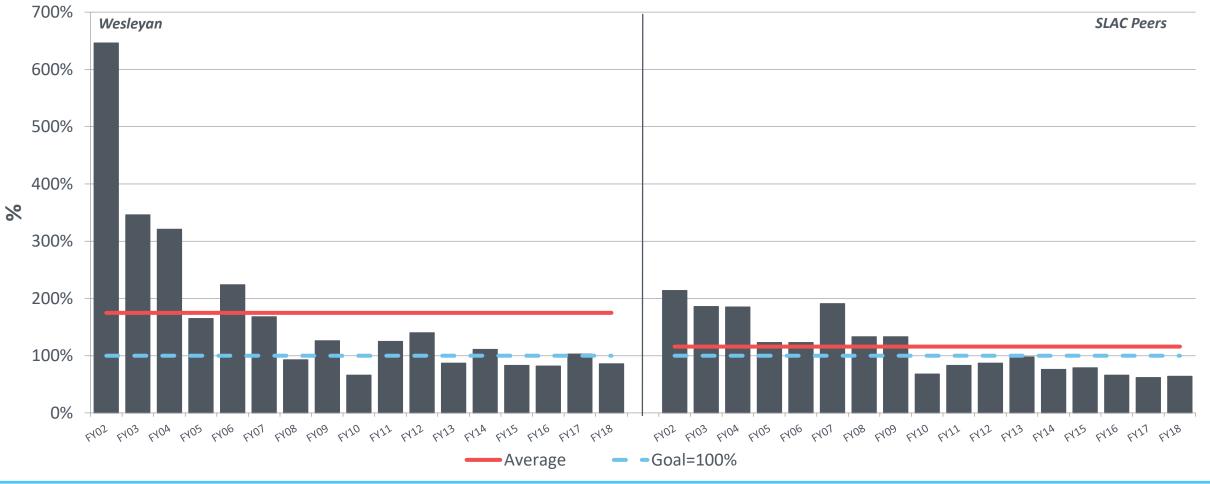


a GORDIAN° company

*Excludes new space and non-facilities investments **Includes Infrastructure

Wesleyan Meets Higher % of Target

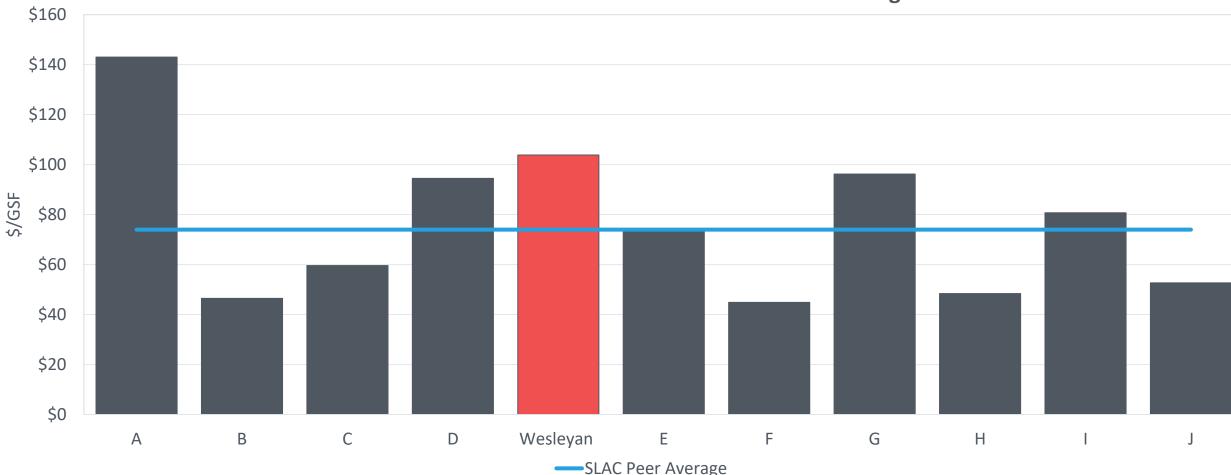




a GORDIAN° company

FY18 Total Asset Reinvestment Need Above SLAC Average

Wesleyan's Backlog is at \$104/GSF; SLAC Peers: \$74/GSF; SL database: \$89/GSF



Total Asset Reinvestment Need vs. SLAC Average

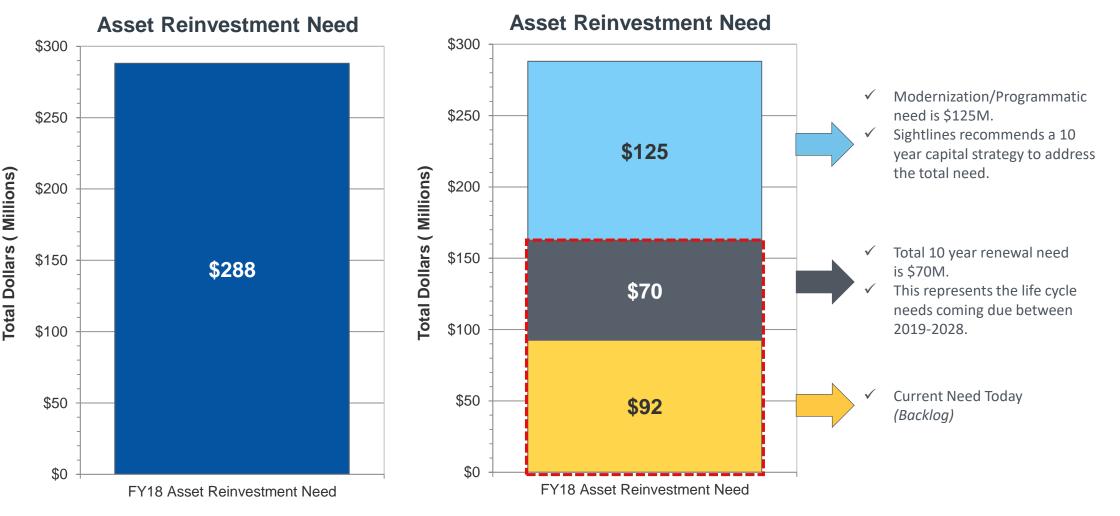
*SLAC average is \$66/GSF without Peer A

a **G R DIAN**[°] company

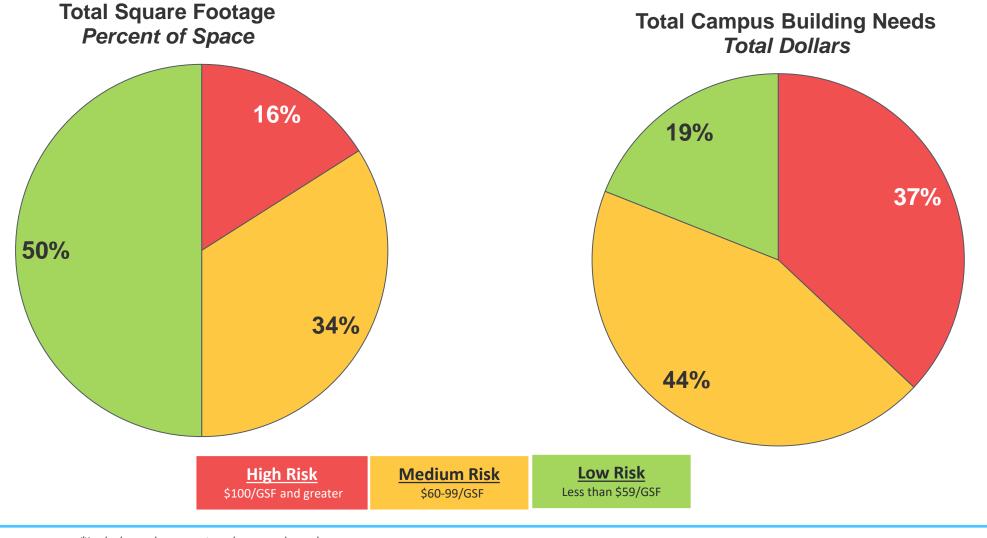
43

Wesleyan's Ten Year Backlog of Need

Sightlines quantifies \$162 Million in system-specific need



Understanding Wesleyan's Building Needs



a **G** R DIAN[®] company

*Includes only current and renewal needs

Understanding the Risk of Wesleyan's Backlog of Need

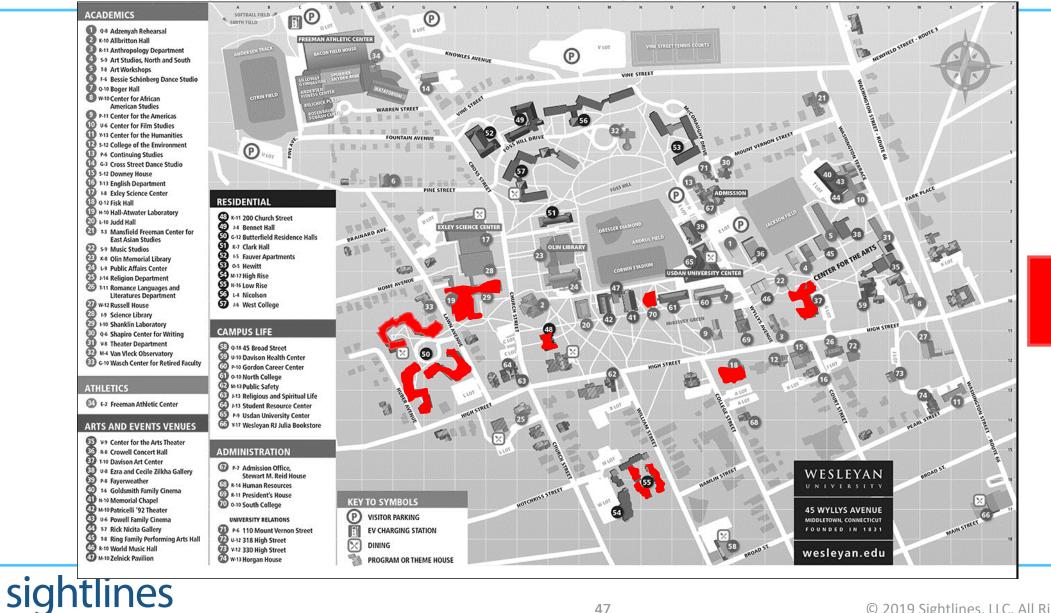


Buildings Within the Prediction Analysis



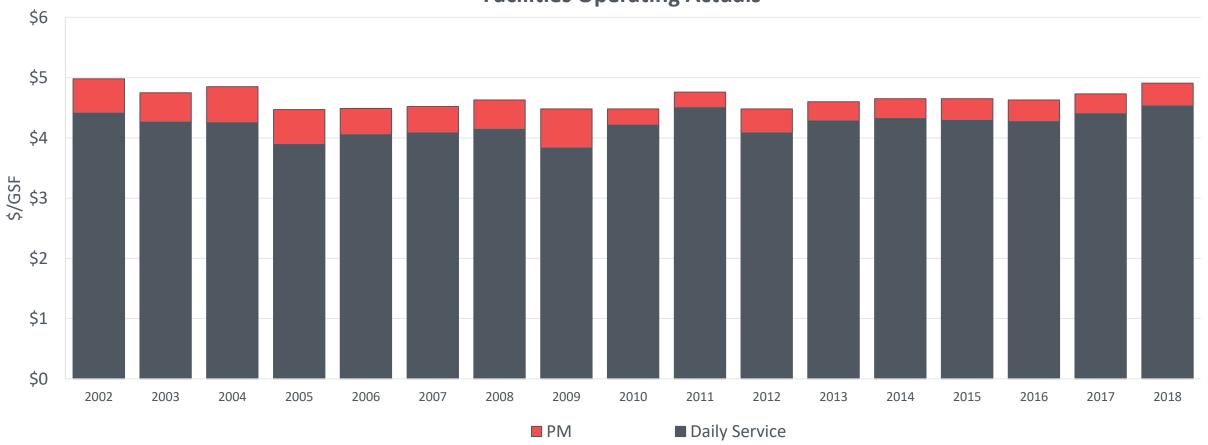
Examining Facilities Need Geographically

a **G RDIAN**[°] company



High Risk \$100/GSF and greater

Facilities Operating Expenditures

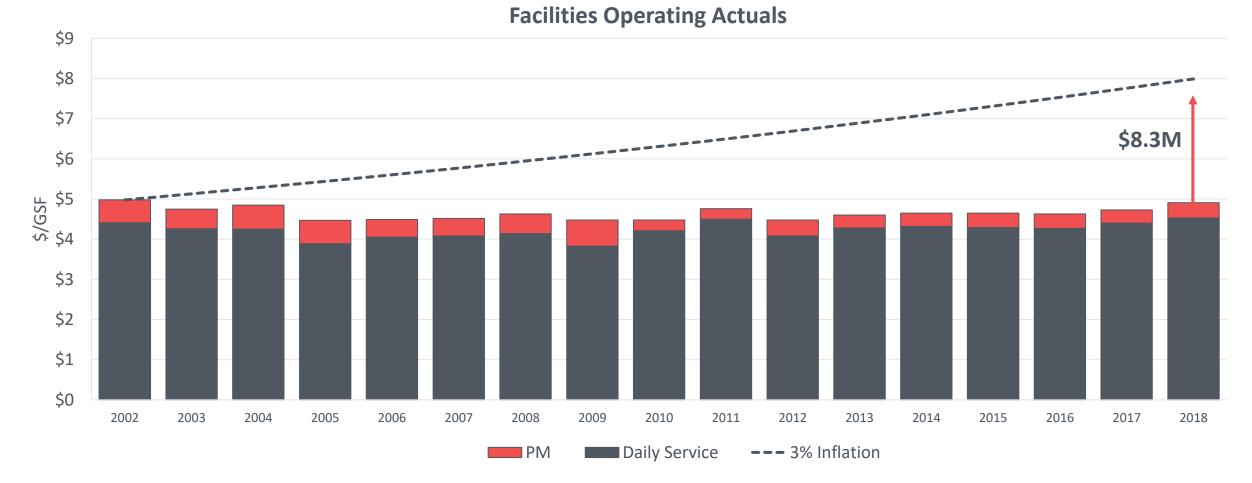


Facilities Operating Actuals



Operating Efficiencies Save \$8.3M Annually by FY18

Investment of \$3.01/GSF or \$8.3M additional resources to match inflation growth in FY18



FY18 Facilities Operating Expenditures

sightlines

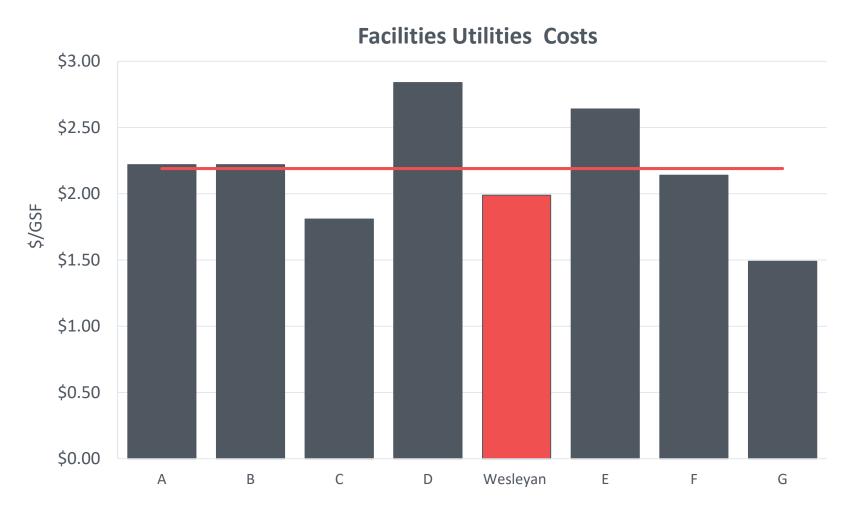
a **G RDIAN**[°] company

Operates with \$662K less in Daily Service dollars or \$830K less than total Operating Actuals, including PM **Facilities Operating Actuals** \$7 \$6 \$5 \$4 \$/GSF \$3 \$2 \$1 \$0 А В С D Wesleyan Е F G Н Daily Service PM —Average

FY18 Facilities Utilities Costs

sightlines

a **G C D I A N** [°] company



Connecticut Utility Average

- Connecticut College
- Fairfield University
- Mitchell College
- Trinity College
- University of Connecticut
- University of Hartford
- University of New Haven

Supervision Levels and Material Costs

Maintenance	Wesleyan	SLAC Average	Private School Average
FTE's per Supervisor	8.88	16.10	13.20
Total Materials \$/GSF	\$0.32	\$0.22	\$0.27
Custodial	Wesleyan	SLAC Average	Private School Average
FTE's per Supervisor	16.87	19.67	19.56
Total Materials \$/GSF	\$0.09	\$0.13	\$0.14
Grounds	Wesleyan	SLAC Average	Private School Average
FTE's per Supervisor	25.67	14.44	13.02
Total Materials \$/Acre	\$429	\$660	\$928



Planned Maintenance Below SLAC Average

Additional \$168K needed to reach SLAC average



53

a GORDIAN° company

*Data from Ozanne Analytics – research of Sightlines database of work orders comparing costs of corrective and emergency work orders to planned and preventative work orders

Proactively Implement "Portfolios"

Successful institutions will intentionally allocate resources to certain assets and avoid others. These priorities must be developed and communicated throughout the entire institution.



- Which assets are not long term assets?
- Will these receive any funding?
- Are these targets for demolition or replacement?



3

- Which assets are core to the mission/strategy of the institution?
- How will these be invested in differently from other assets?

What is our strategy around new space?

- Replacement or "net-new" space?
- What is the strategy for understanding operating and future capital costs?



Develop Resiliency and Efficiency in Operations

Operating without the resources you had a decade ago, it will be critical for facilities organizations to leverage data and technology to improve efficiencies and create operations that are resilient to economic uncertainty or demographic headwinds.



- How can data be used to target limited resources to the highest needs?
- Tying capital needs to operational costs through the work order system



- Where can technology be implemented to minimize the personnel needed to maintain a building?
- Building automation to control systems and pinpoint problems
- Sensing and detection technology to predict component failures or reduced operating capacity



Make Communication a Priority

Facilities organizations must communicate directly with customers and "tell their story" throughout the institution.



3

What is most important to your customers and how do you deliver on it?

Do your customers understand the constraints you are under?

How can you involve your customers in the decision around resource trade offs?



sightlines a G@RDIAN® company

