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## Rhode Island School of Design FY23 ROPA+ Analysis Presentation

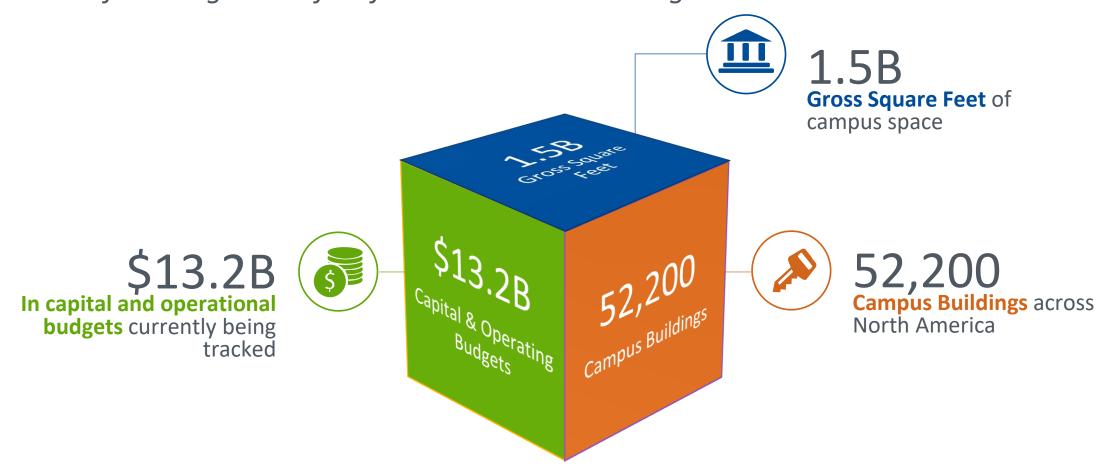
Presented by: Mike O'Neill & Pranim Padhan January 16, 2024

University of Southern University of Southern Maine University of St. Thomas University of Tennessee, Knoxville University of Texas - Austin University of Texas at Dallas University of Texas Health University of Texas Rio Grande Valley University of the Sciences in Philadelphia University of Toledo University of Vermont University of Washington University of West Florida University of Wisconsin - Madison WashU 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 **Xavier University** 

## Who is Gordian?



Owners of the largest verified facilities database in higher education



Gordian members serve over 20% of US College Enrollment



## **A Vocabulary for Measurement**



At the core of the Return on Physical Assets (ROPA) process is the common vocabulary that enables more effective communication around key facilities issues

### 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

**Operations Success** 



Asset Value Change



## **Rhode Island School of Design Facilities Peer Institutions**

Institutions	Location
Bentley University	Waltham, MA
Brown University	Providence, RI
Emerson College	Boston, MA
Fitchburg State University	Fitchburg, MA
Massachusetts College of Art and Design	Boston, MA
Pratt Institute	Brooklyn, NY
Siena College	Loudonville, NY
Wesleyan University	Middletown, CT
Worcester State University	Worcester, MA



#### **Comparative Considerations**

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



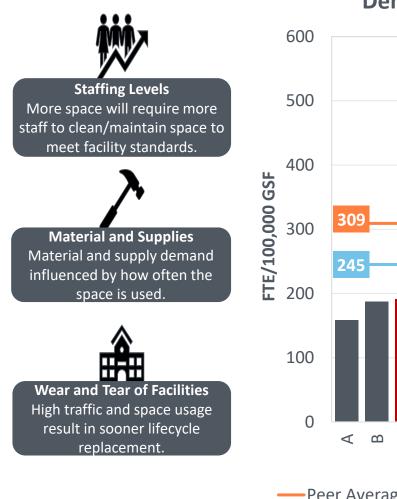
## **Space Profile**

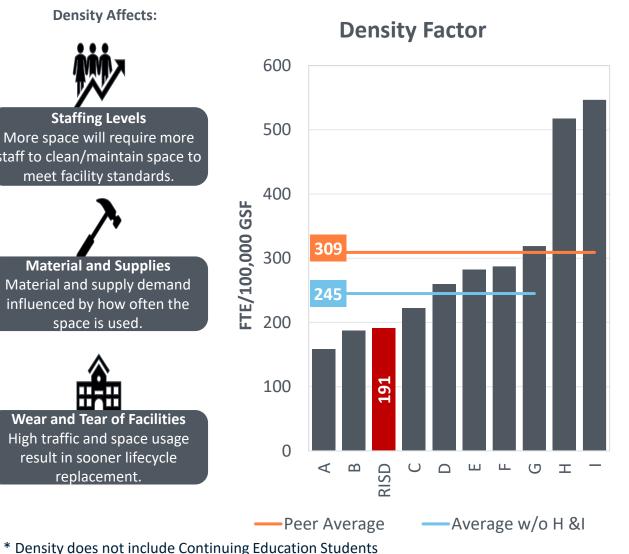


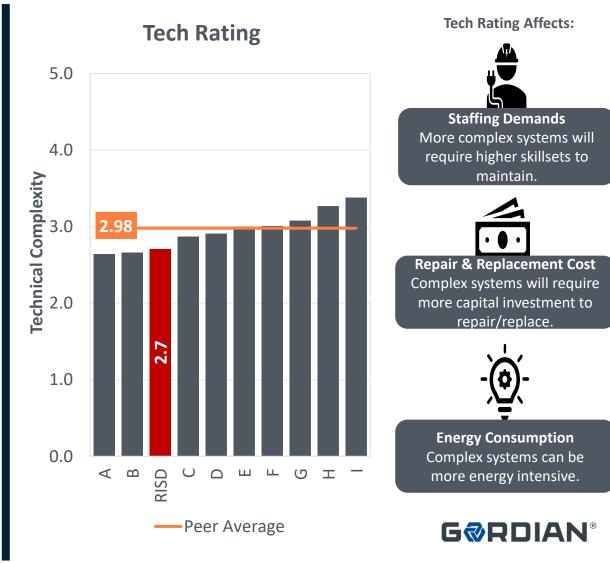
## **RISD Less "Busy" and Technically Complex Than Peers**

Portfolio context drives both daily operational and long-term stewardship resource needs

**Density Affects:** 









## **RISD Has More Buildings Than Peers But Smaller in Size**

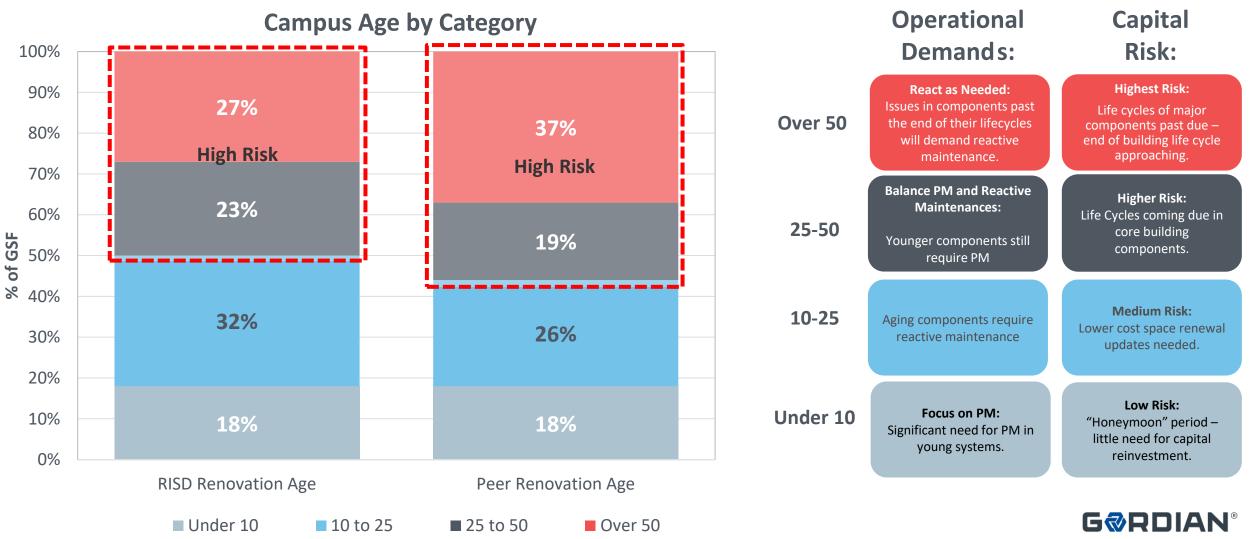
Higher building intensity can lead to the need for more capital and operational resources





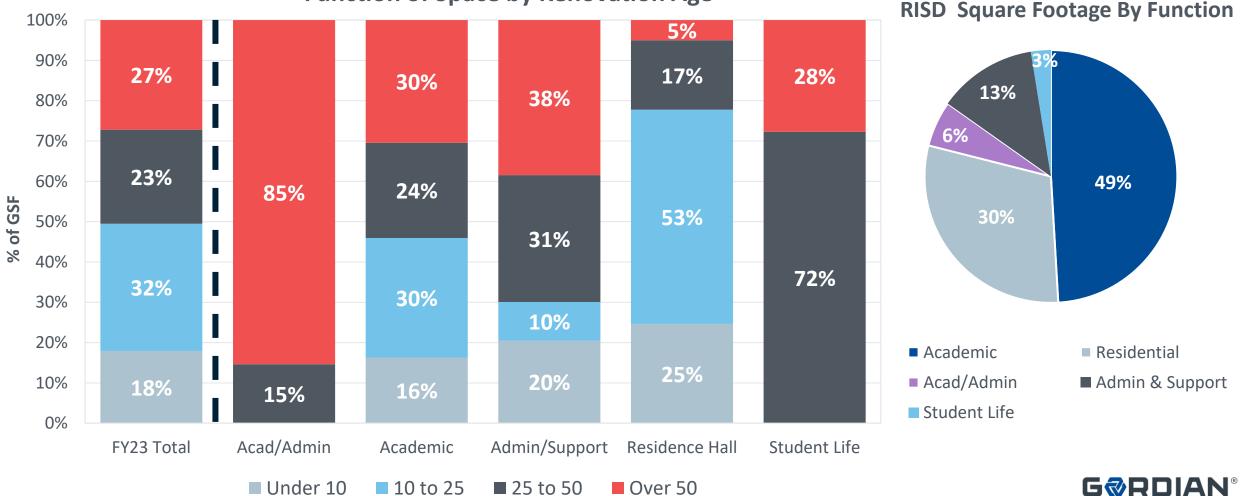
## **Relatively Equal Age Distribution Provides Flexibility**

RISD has a similar age and risk profile to Peers with half of the portfolio in High Risk



## **Segmenting Portfolio Helps Define Future Investment**

Academic and Residence Hall space the bulk of portfolio; carrying the least amount of age risk

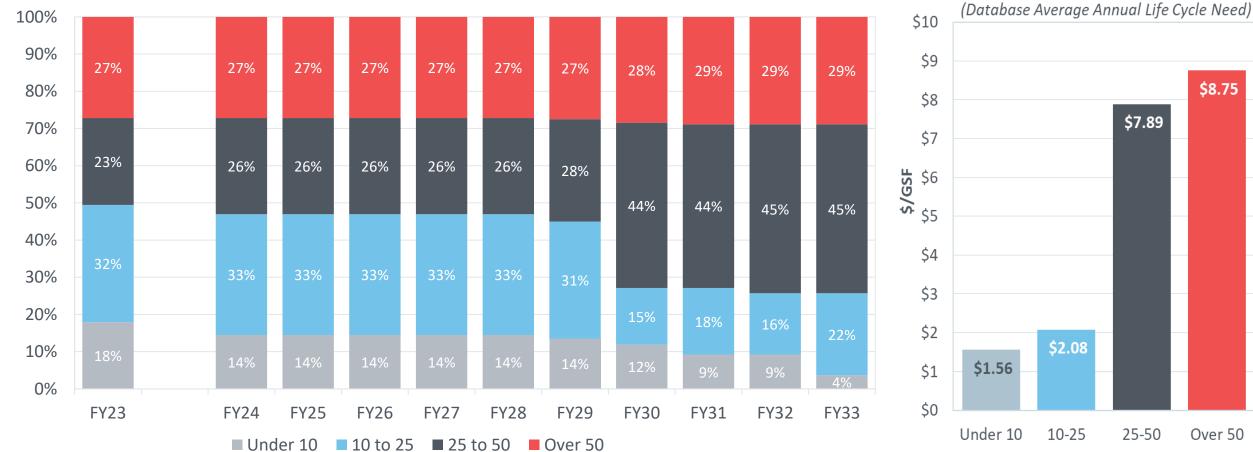


Function of Space by Renovation Age



## Strategic Investment Plan Needed to Address Shifting Age Profile

In 2030 almost 75% of the portfolio will be in High-Risk where large scale capital investment often needed



#### **Renovation Age by Category**

**Capital Costs** 

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\$8.75



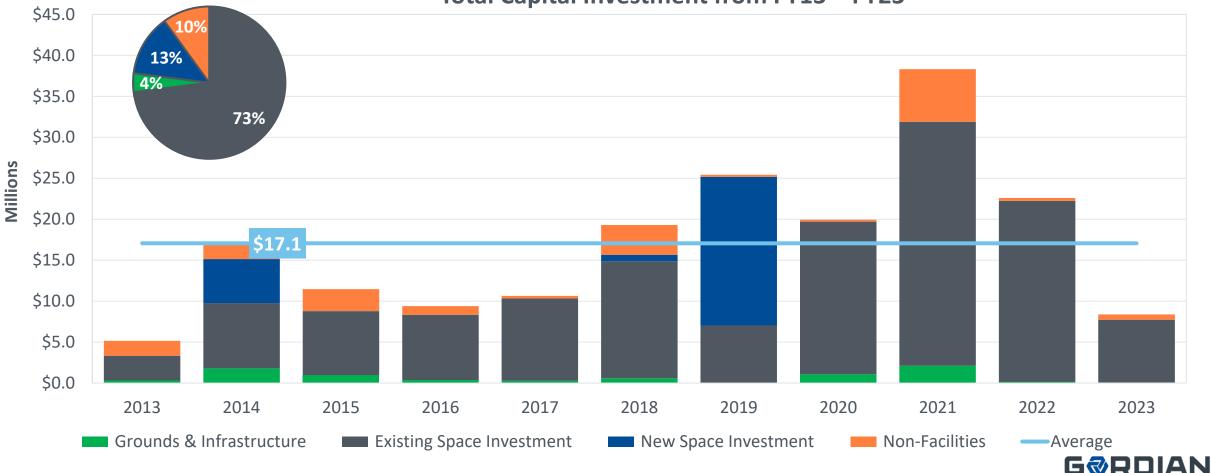
Over 50

## **Capital Investment**

## **Majority of Capital Investment Targeting Existing Space**



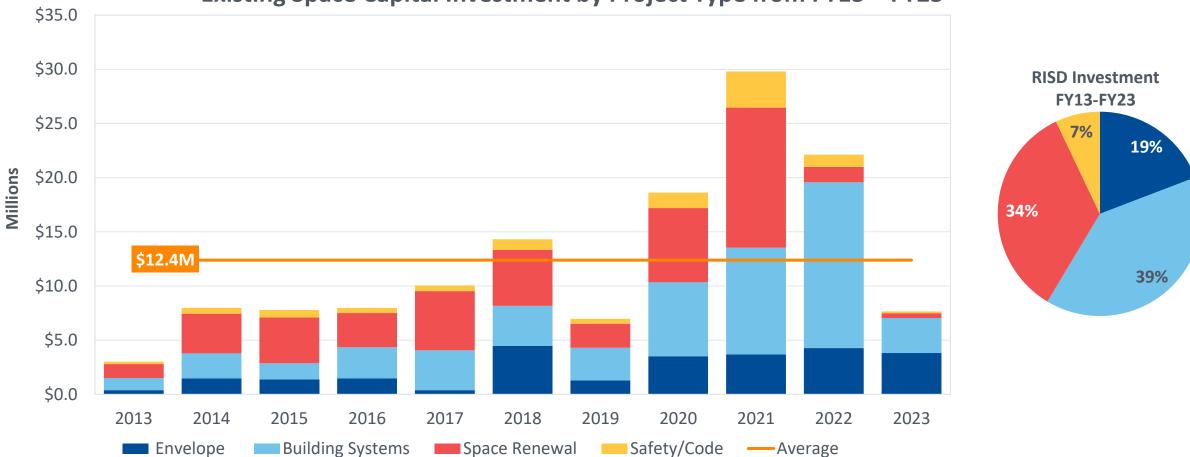
Total capital investment into Existing Space has averaged \$12.4M over the last 11 years



### **Total Capital Investment from FY13 – FY23**

## 58% of Investment Focused on Mechanical/Envelope Projects

Investment lower but still targeting projects which have higher programmatic impacts and ROIs



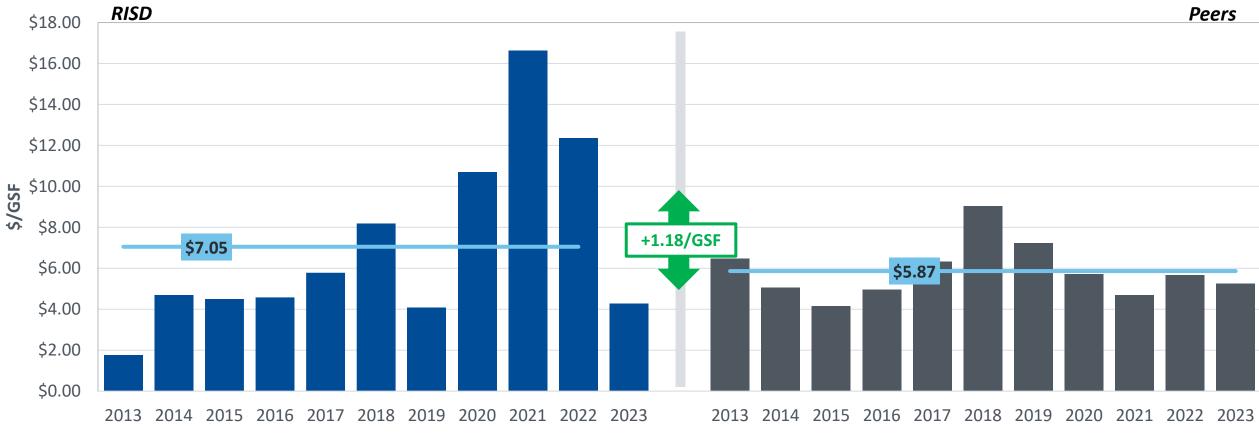
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### **Existing Space Capital Investment by Project Type from FY13 – FY23**



# Despite Decline in FY23 RISD Continues to Outpace Peers

RISD invested \$1.18/GSF (\$2.2M) more on average compared to peers into Existing Space



**Capital Investment into Existing Space** 

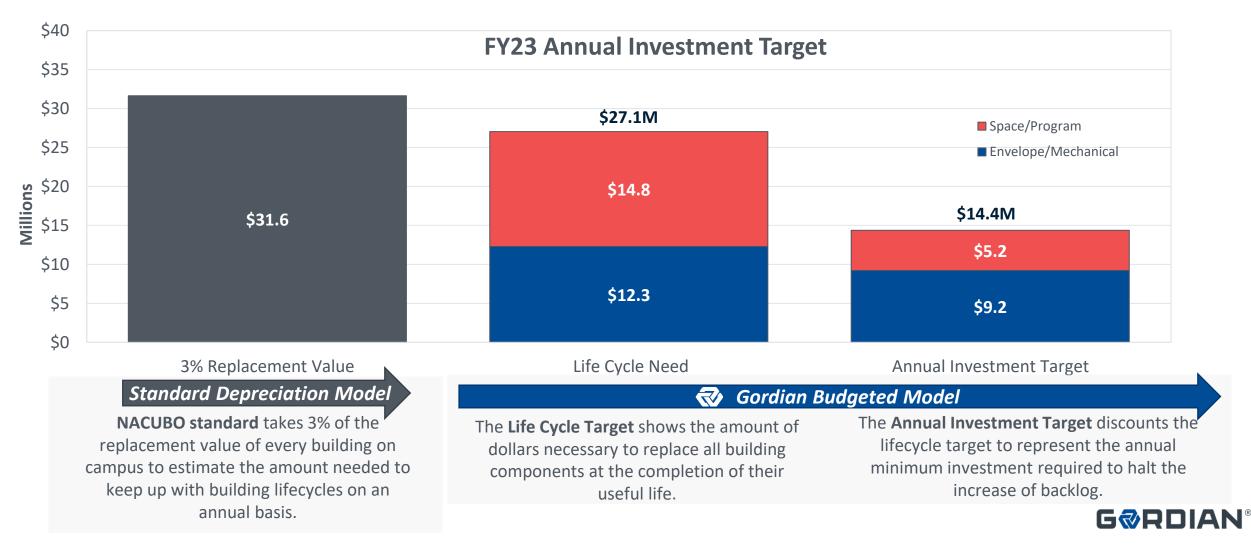


\$/GSF — Average Spending

## **Defining an Annual Investment Target**

FY23 Annual Funding Target: \$14.4M

Replacement Value: \$1.05B

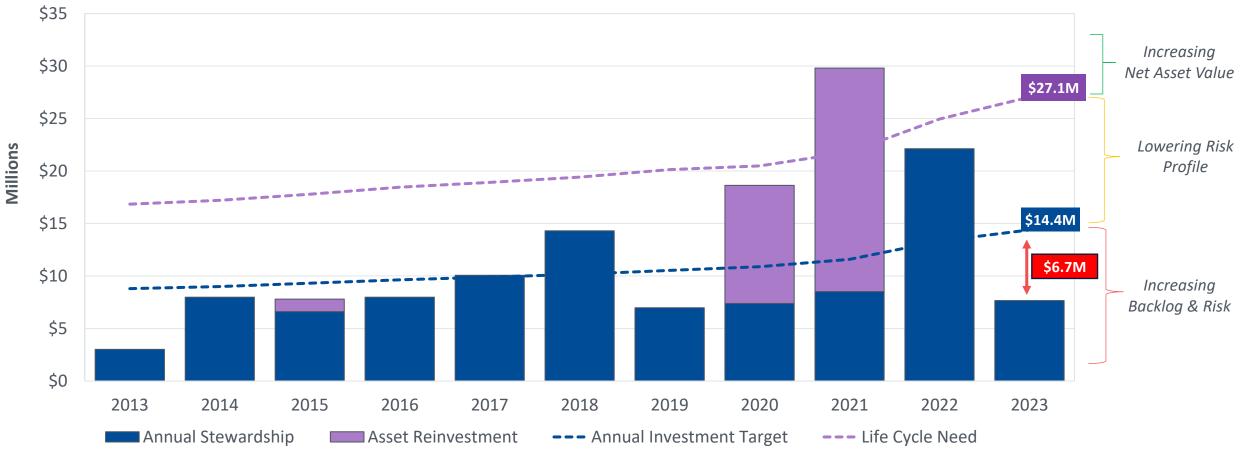




## Shortfall of \$6.7M to Target Added to Backlog in FY23

Funding above annual investment target enables Facilities to address backlog and lower risk profile

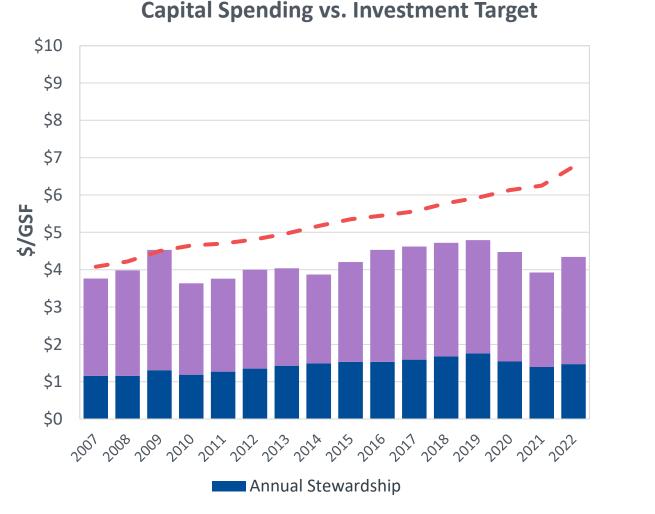
Total Capital Investment into Existing Space vs. Funding Target

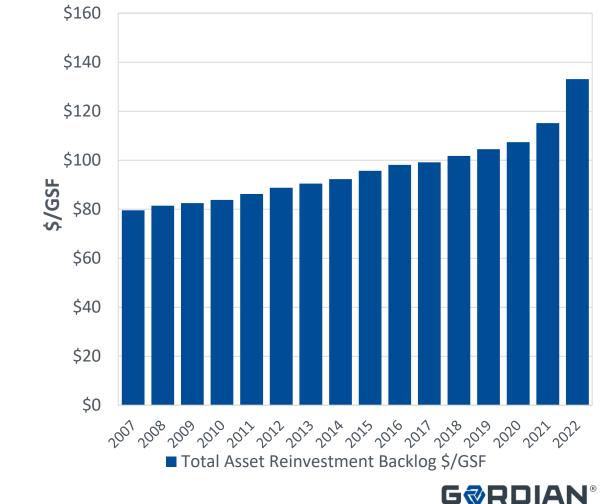


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## **Capital Investment & Growing Backlog Across Higher Ed**

13-year pattern of underinvestment in existing spaces; 16% growth in backlog in one year





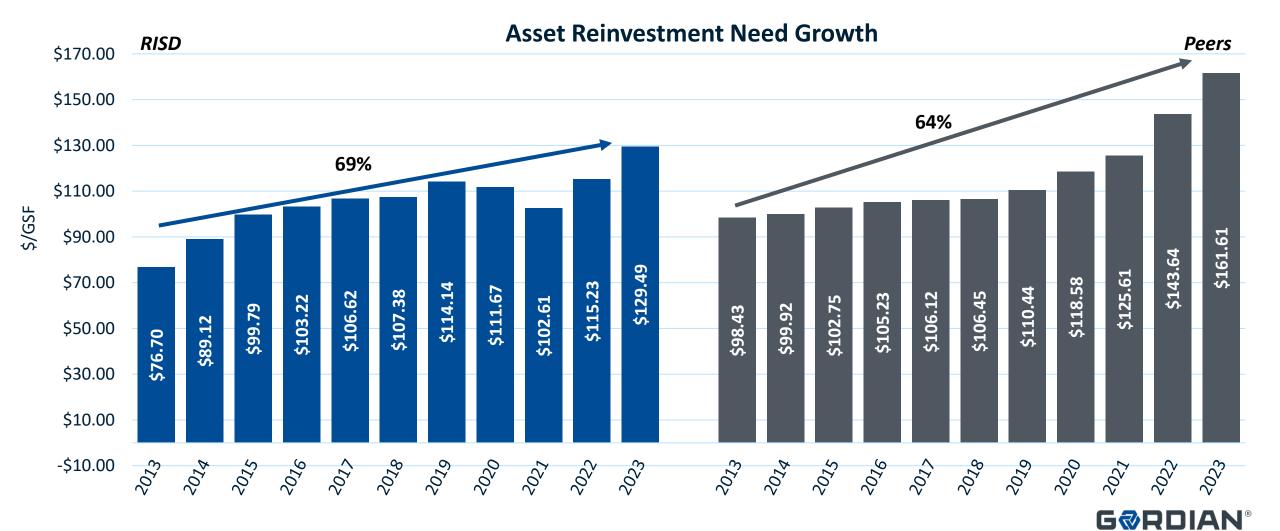
Asset Reinvestment Need (\$/GSF)





### **RISD AR Need Growing at a Similar Rate to Peers Since 2013**

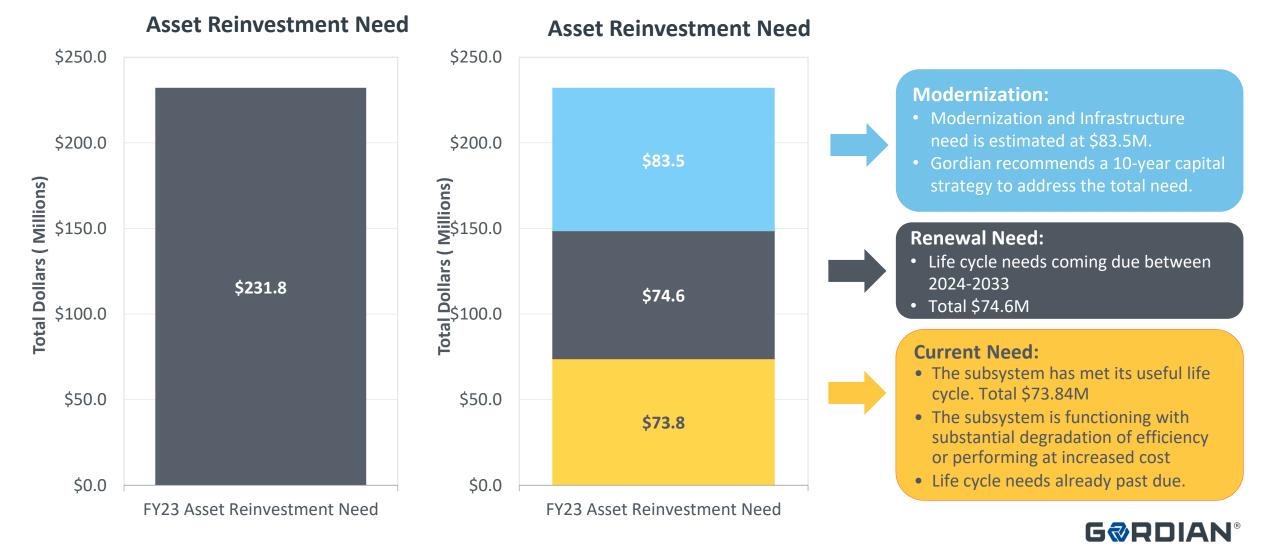
RISD average exceeds annual investment targets primarily due to strong investment levels the last 6 years





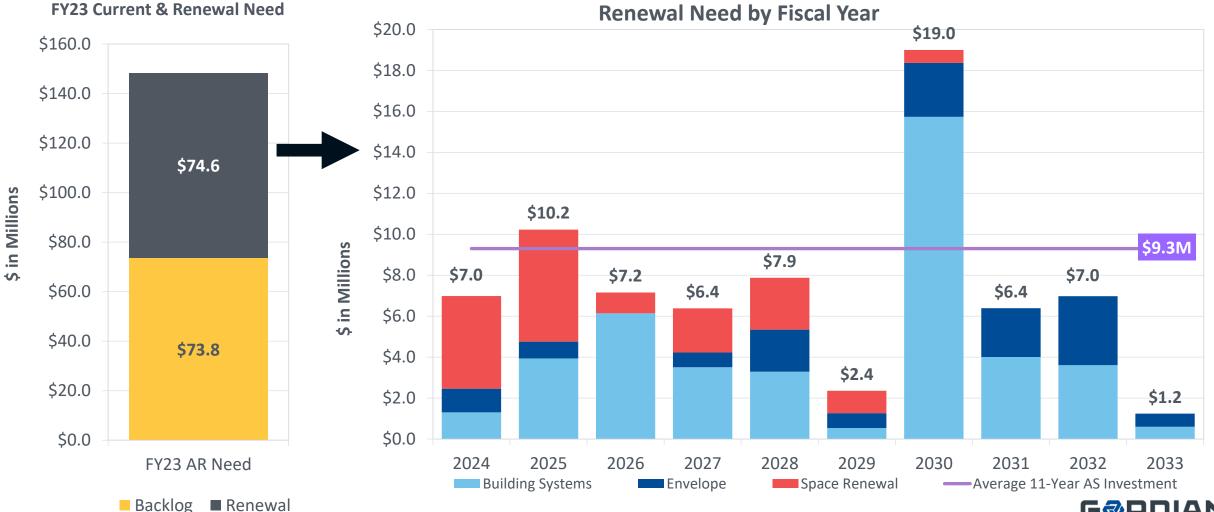
## Identified Need Totals \$232M Over Next 10 Years

Backlog accounts for 32% of total need; majority of backlog (65%) driven by mechanical needs



## Strategic Project Selection Needed With Available Resources

Historic Annual Stewardship investment would meet coming needs in most years of the 10-year window





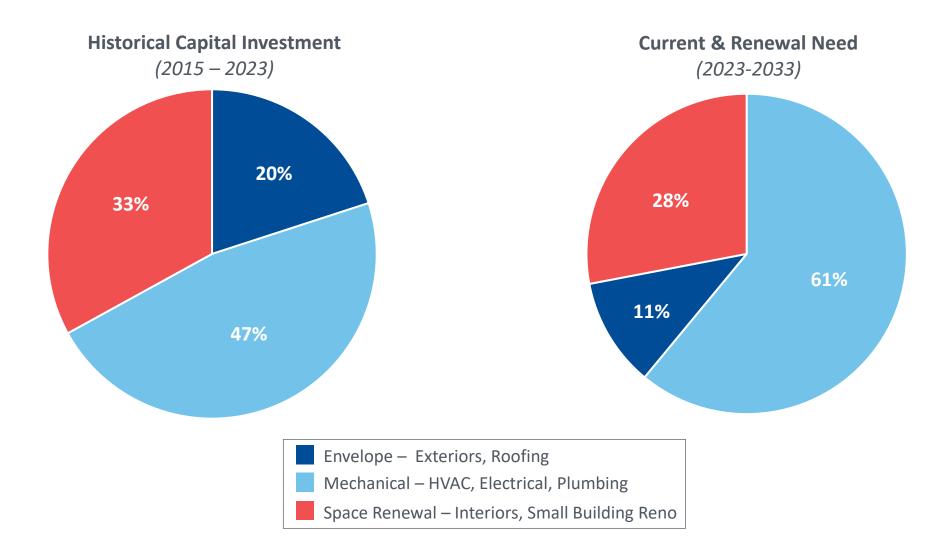
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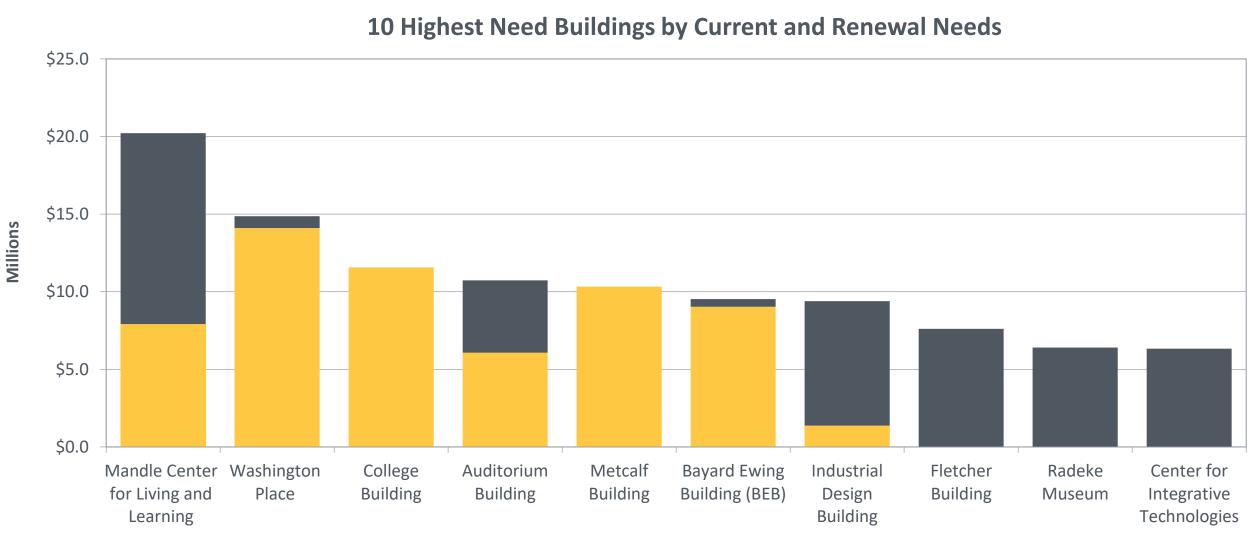
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## **Continued Capital Investment into Higher ROI Projects**

Mechanical makes up 47% of historical capital investments and continues to be focus of current/renewal need



## Top 10 Buildings Account for 72% of 10-Year Need



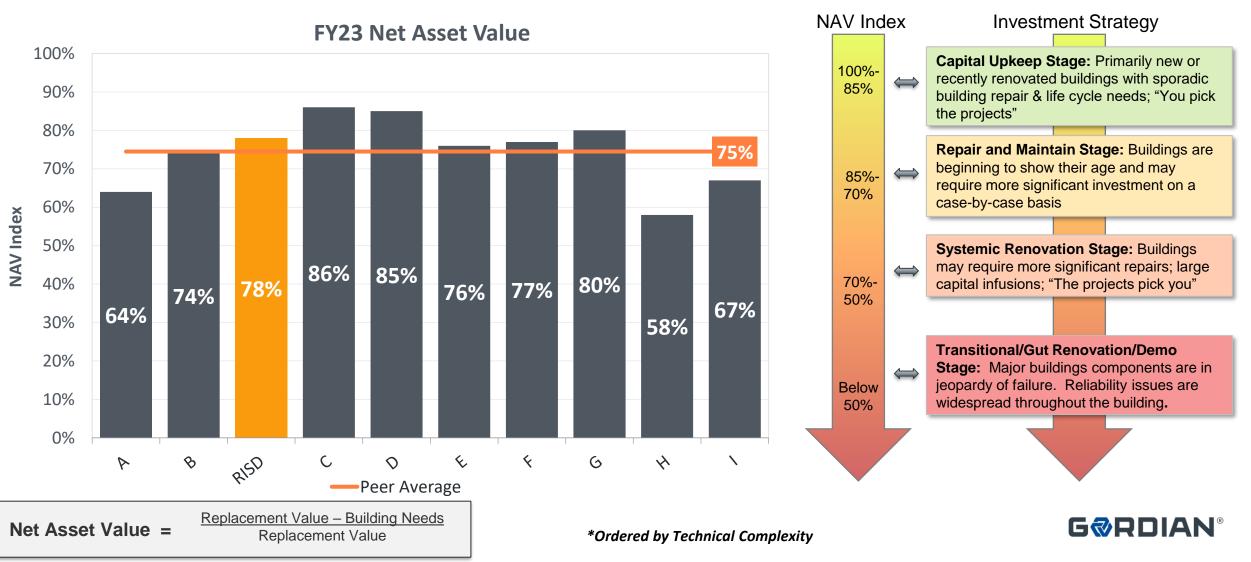
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## Net Asset Value Measures the "Good" Space on Campus

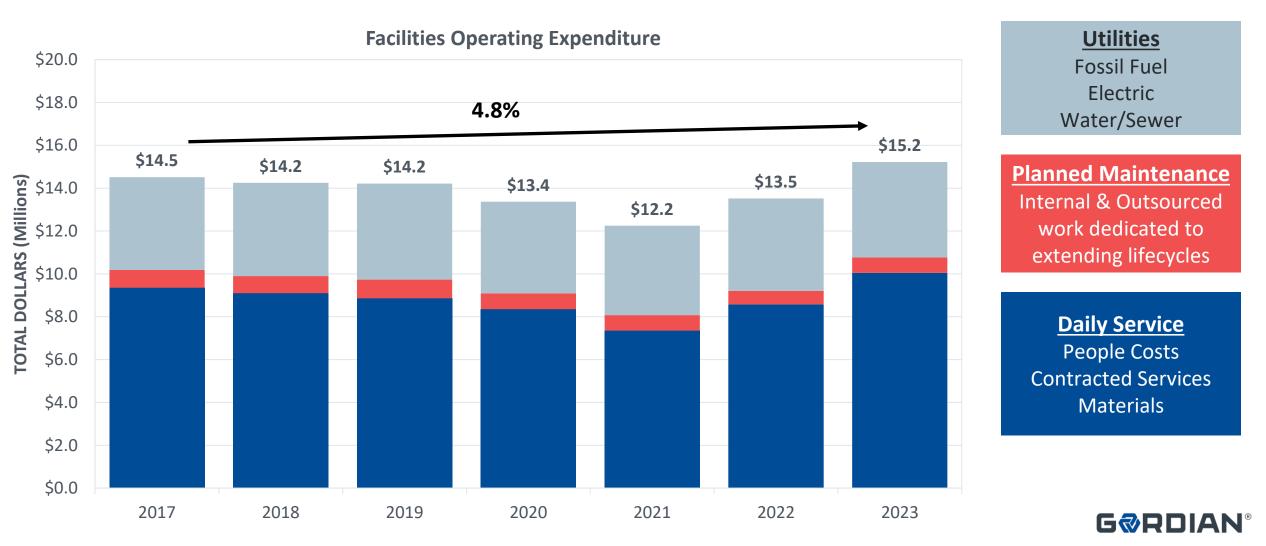
RISD NAV above peer average falls right in the middle of Repair and Maintenance stage



## **Operational Effectiveness**



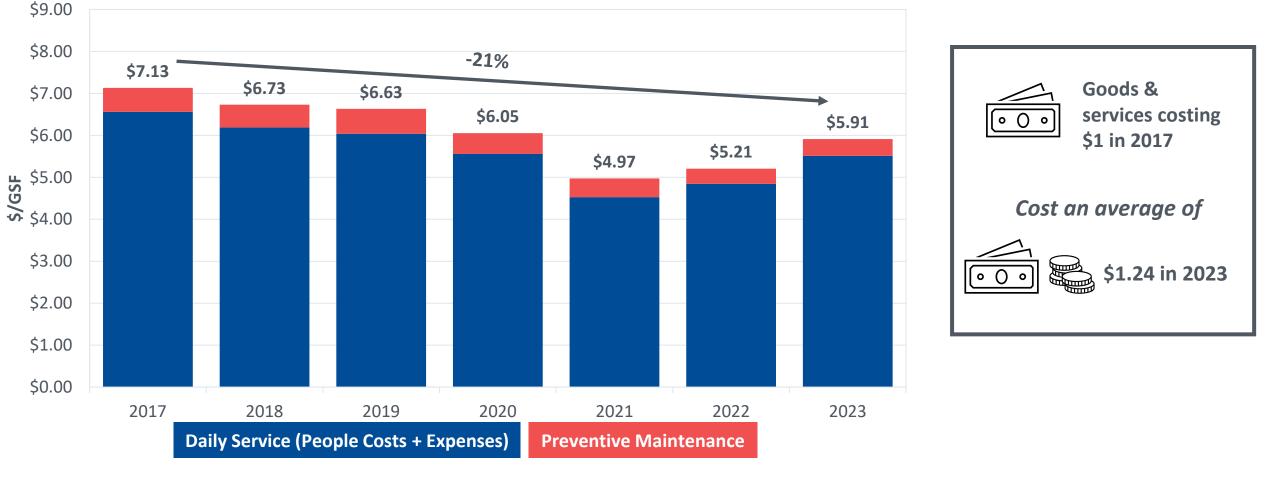
### Increases driven by stewardship of the portfolio via Daily Service and PM spending



## Growing Cost of Goods Putting Additional Strain on Operation

When factoring for inflation the buying power of operating resources is reduced

**Inflation Adjusted Facilities Operating Expenditure** 



\*Consumer Price Index (CPI): measure of the average change over time in the prices paid by consumers for a market basket of consumer goods/services <u>Consumer Price Index for All Urban Consumers: All Items in U.S. City Average (CPIAUCSL) | FRED | St. Louis Fed (stlouisfed.org)</u>

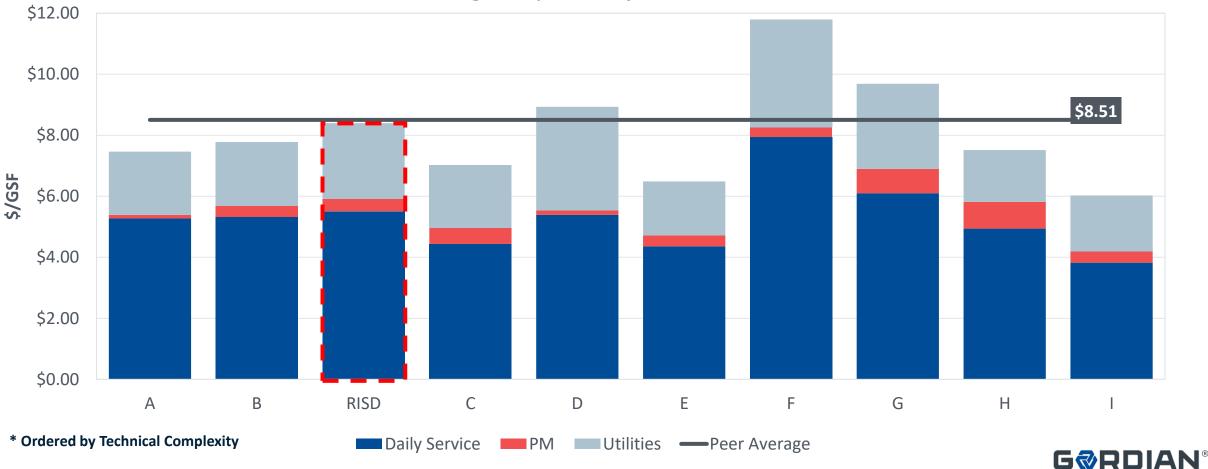




### **COLI Adjusted FY23 Expenditures At Peer Level**

### **FY23 Facilities Operating Actuals**

Regionally COLI Adjusted

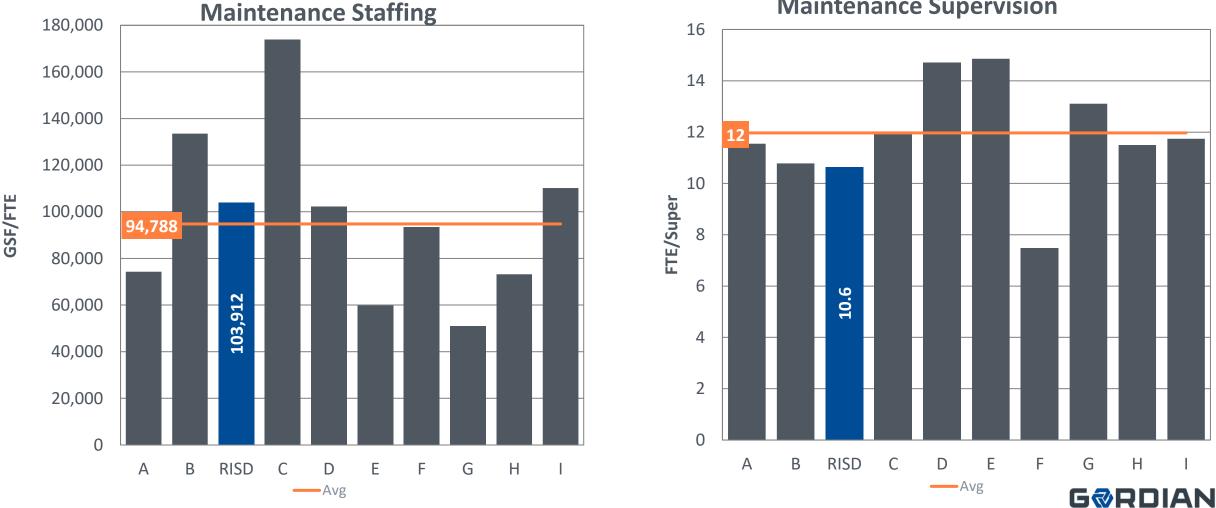




### **RISD** Maintenance Metrics Compared to Peers

RISD staff covering more space per FTE with tighter supervision

\* Ordered by Technical Complexity



#### **Maintenance Supervision**



## **RISD Custodial Metrics Compared to Peers**

RISD staff covering less space per FTE with looser supervision

**Custodial Staffing** 70,000 25 60,000 20 50,000 15 10 10 40.441 40,000 **GSF/FTE** 30,000 20.0 20,000 32,681 5 10,000 0 0 RISD G RISD Α В D F F Η В Α G Η -Avg Avg G&RDIAN

**Custodial Supervision** 

\* Ordered by Density

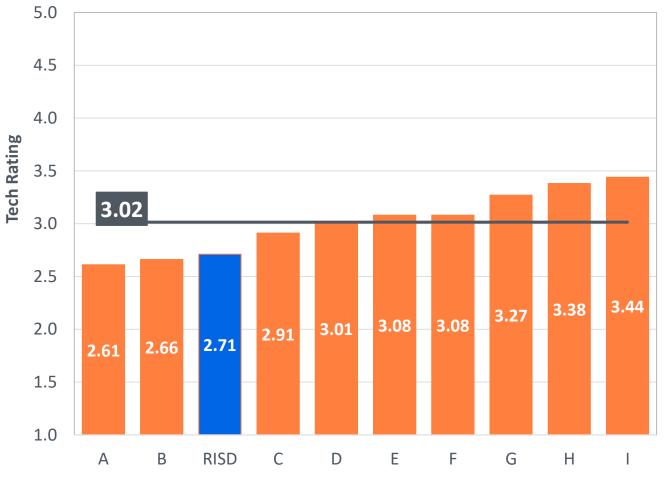




## **RISD Regional Energy Peer Institutions**

Massachusetts		
Amherst College	Amherst, MA	
Babson College	Wellesley, MA	
Emerson College	Boston, MA	
Fitchburg State University	Fitchburg, MA	
Massachusetts College of Art & Desi	ign Boston, MA	
Univ of Massachusetts-Dartmouth	h Dartmouth, MA	
Worcester State University	Worcester, MA	
Rhode Island		
Brown University	Providence, RI	
University of Rhode Island	South Kingstown, RI	

### **Technical Complexity vs. Energy Peers**

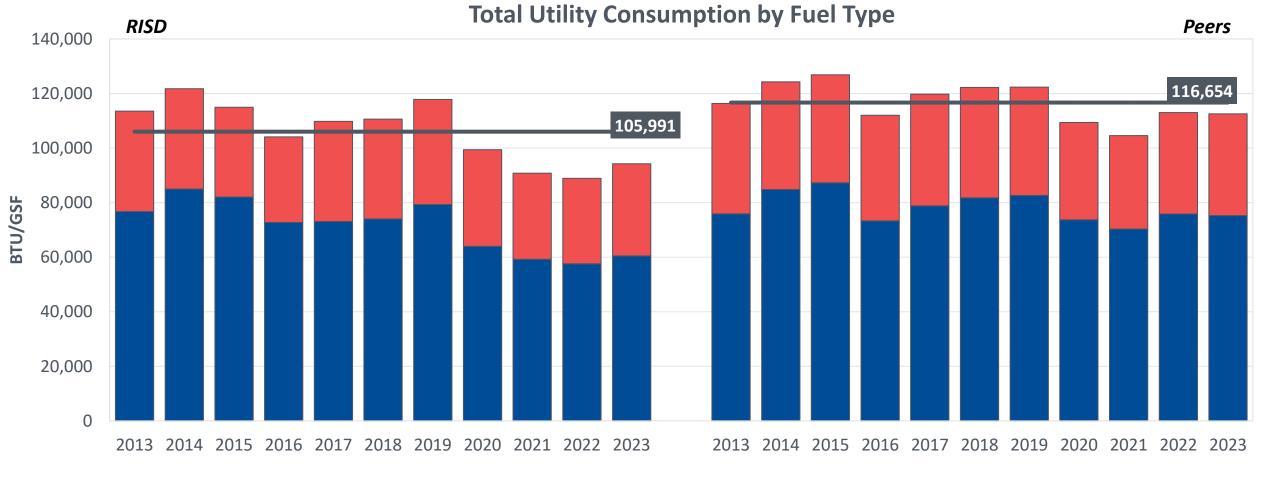


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## **Continue to Consume Less Energy than Peers**

While we saw a bump in energy consumption in FY23 total consumption down 20% from high in FY19

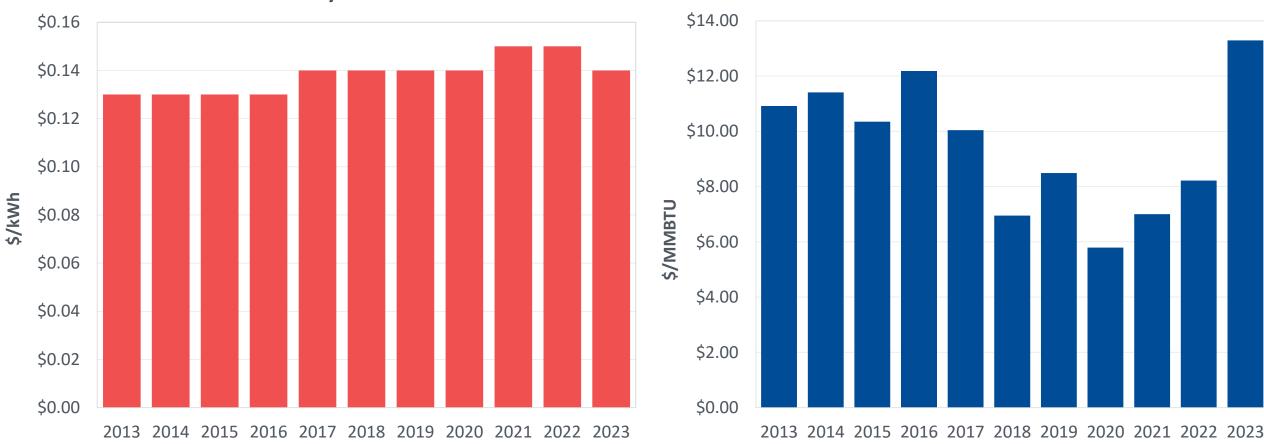


Fossil Electric Average



## **Overall Utility Spending Relatively Stable Year-over-Year**

Fossil unit costs jumped significantly in FY23; off-set by reduced electric unit costs



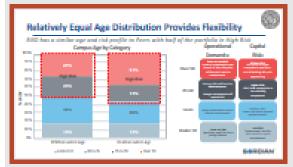
**Electricity Unit Cost** 



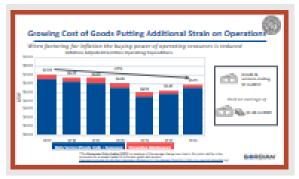




## **Concluding Comments / Key Takeaways**







#### **Building Age Sets the Stage**

- RISD has a slightly younger age profile than their peer group, but similar distribution of age risk. The campus has more buildings on average that are smaller in size driving varying capital and operational needs.
- Without major renovations, RISD's age profile is projected to shift in FY30 with 75% of space considered high-risk.
- Academic and Residence Hall space make up the majority of the portfolio; carrying the least amount of age risk.

#### **Capital investment Improves Buildings Condition of Buildings**

- Historic capital expenditures have overwhelming prioritized existing space; investment has targeted mechanical and envelope projects (58% of investment) which aligns to where the majority of coming needs exist.
- Strong investment over the last 6 years have slowed the growth in Asset Reinvestment need as compared to peers.
- Asset Reinvestment need above the \$100/GSF target level where "projects tend to pick us" and our ability to
  prioritize projects will be challenged as the facilities team is forced to react to system failures.

#### **Facilities Operating Profile**

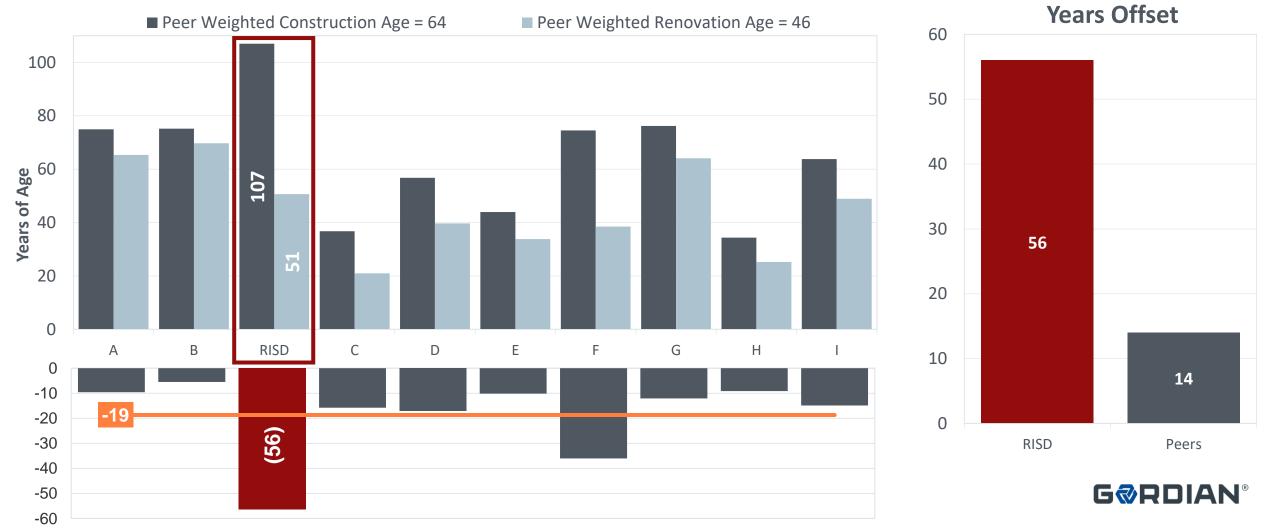
- Operating resources have grown slightly over the last 7 years (4.8% increase in actual dollars); these resources do not have the same buying power when factoring for inflation. Operations are being asked to do more with less as our Asset Reinvestment need is growing.
- Maintenance covering more space than peers in alignment with technical complexity; Custodial staff covering less space than peers, however when accounting for absenteeism coverage levels are more in-line with peers.
- Continued to see benefits of strong energy program; overall consumption slightly higher, but continues to be less than peers.



## **Questions / Discussion**

## **RISD Significantly Reduced Age of Campus Via Renovations**

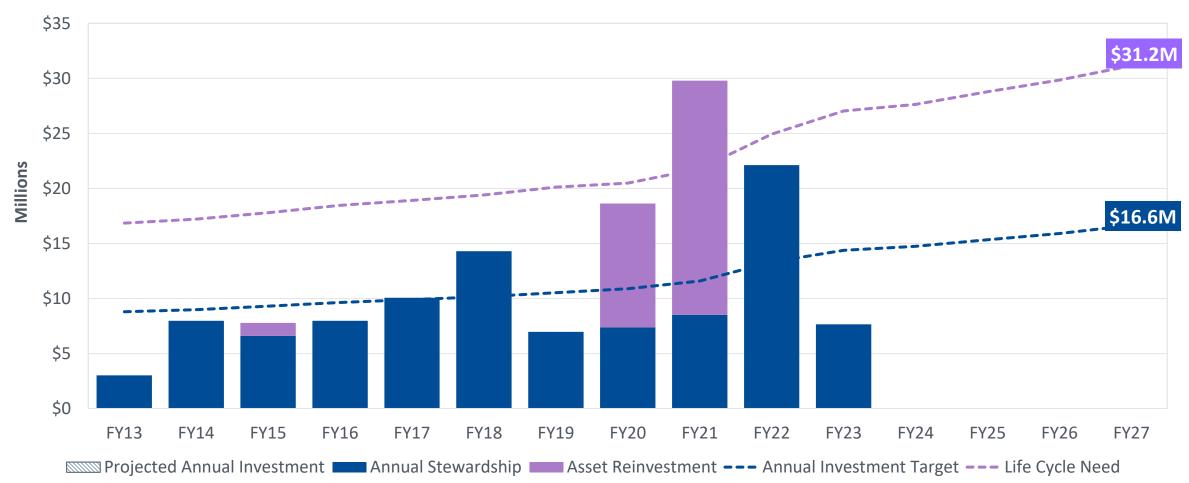
### Strategic renovations can reduce campus age and negate growth of deferred maintenance Construction Age vs Renovation Age





### **Projecting Out Future Investment Targets**

**Total Capital Investment into Existing Space vs. Funding Target** 





## RISD has Higher Level of Annual Stewardship Funding than Peers

RISD average exceeds annual investment targets as a result of strong investment levels the last 6 years

RISD Peers 250% **200% of Investment Target** 150% 100% 107% 76% 50% 0% 2015 2016 2017 2018 2019 2020 2023 2016 2013 2014 2021 2022 2013 2014 2015 2017 2018 2019 2020 2021 2022 2023 —Average % of Target - Annual Stewardship % of Target - Asset Reinvestment

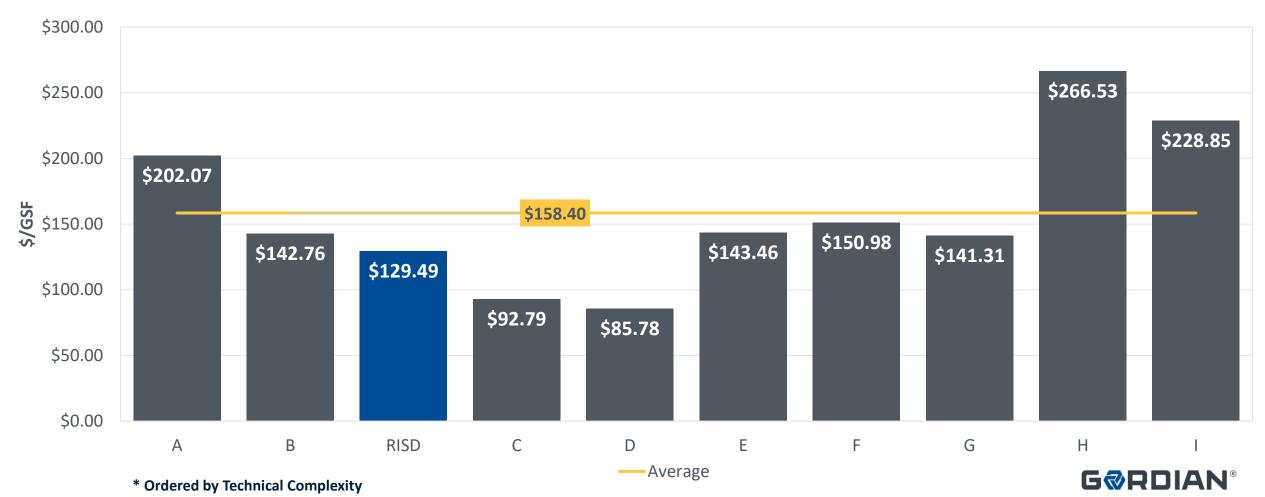
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### % of Target Funded

## **RISD Total AR Need Below Overall Peer Average**

As AR Need grows over \$100/GSF we start to see challenges with project prioritization

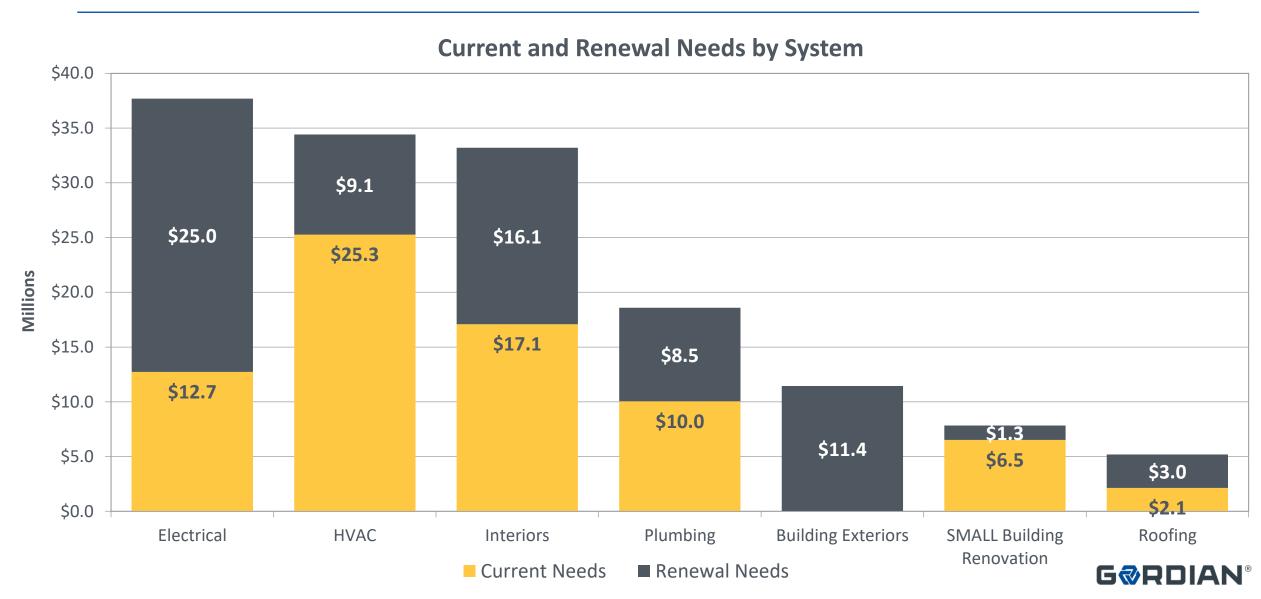
FY23 Asset Reinvestment Need vs. Peers



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## Understanding Current and Renewal Needs by System

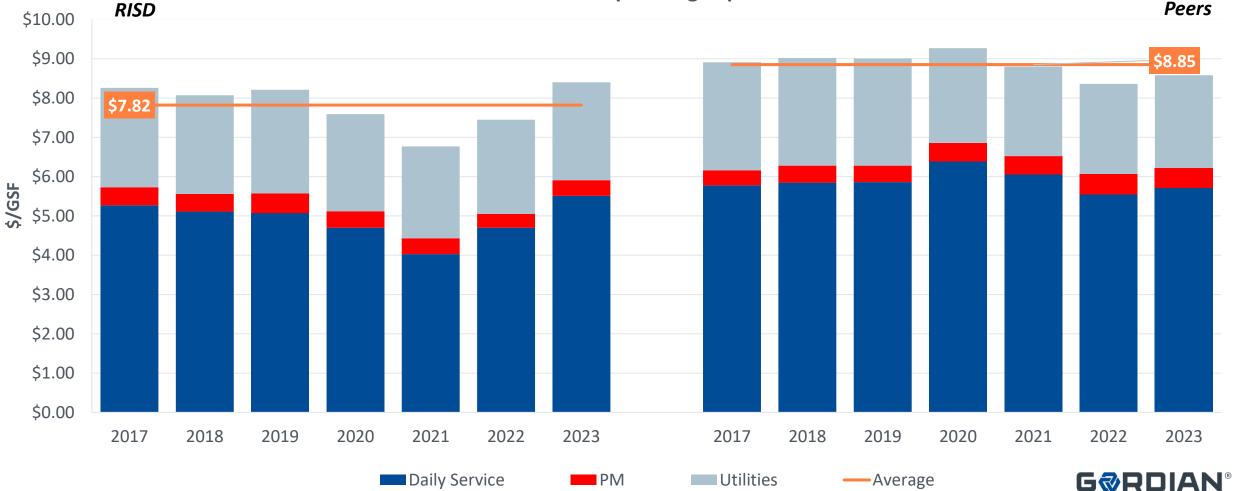
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## **RISD Historically Operating With Less Resources Than Peers**

Daily Service and PM resources growing while peers have decreased coming out of COVID

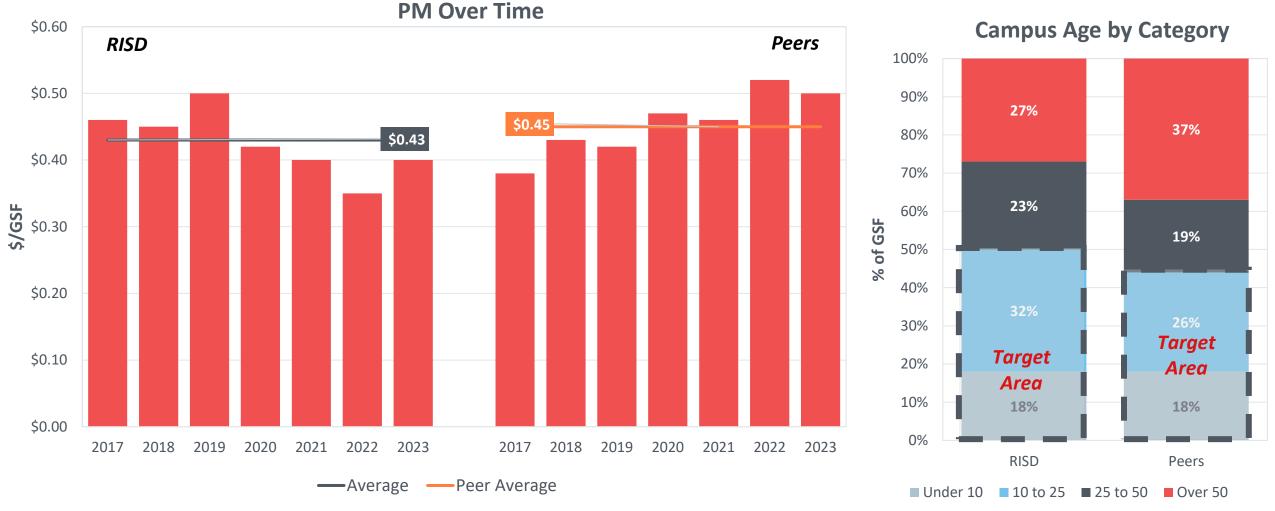


**Normalized Operating Expenditures** 



## **Similar Planned Maintenance Spending to Peers**

### Focused PM for younger spaces will assist in extending useful life of systems on campus



PM: The *materials, labor costs, service contracts,* etc. that enhance or extend the useful life of campus buildings and components. These are things that should be done on a regular (or scheduled) basis so that buildings or components can reach the maximum lifecycle length.



## **Fewer Available Hands Make for Heavier Burden**

Custodial team challenged by absenteeism each day reducing total FTEs truly available

