

The University of Maine

FY22 ROPA Final Presentation

Presenters: Jordan Morris and Emma Viles

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





Introduction



A Vocabulary for Measurement



Facilities Measurement, Benchmarking & Analysis

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"

Asset Value Change

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



Core Observations





Space:

 UMaine is an older campus than peers, and is comprised of smaller, less complex buildings.



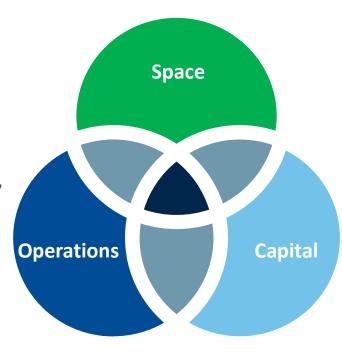
Capital:

 UMaine has funded under the Annual Investment Target for the last 8 years of analysis, adding an estimated \$100 M to the Asset Reinvestment backlog over that span.



Operations:

 Operating costs increased in 2022 across all categories (people 13%, expenses 17%, utilities 16%)





UM Facilities Peer Institutions

Benchmarking analysis includes all campus facilities totaling 4.45M GSF

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Institution	Location
Indiana University of PA	Indiana, PA
University of Alaska Fairbanks	Fairbanks, AK
University of Maryland – College Park	College Park, MD
University of Massachusetts – Dartmouth	North Dartmouth, MA
University of Massachusetts – Lowell	Lowell, MA
University of Massachusetts Amherst	Amherst, MA
University of New Hampshire	Durham, NH
University of Rhode Island	Kingston, RI
University of Vermont	Burlington, VT
West Chester University of PA	West Chester, PA



Comparative Considerations

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



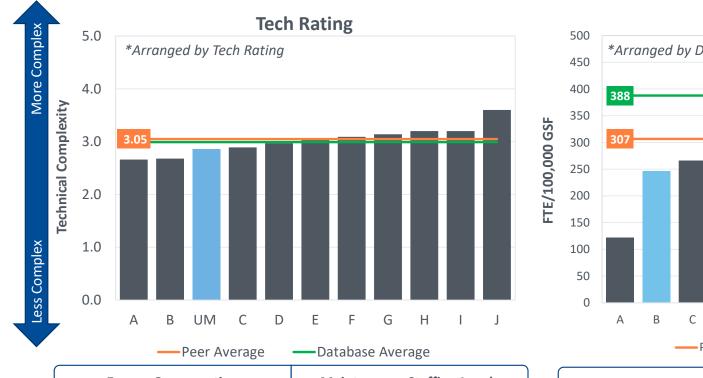


Space Profile

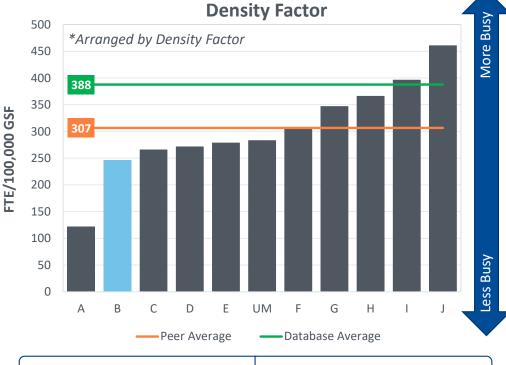




Qualifying Metrics: Tech Rating and Density Factor



Energy Consumpti		enance Staffing Levels
Stewardship Nee	d	 ntenance Materials



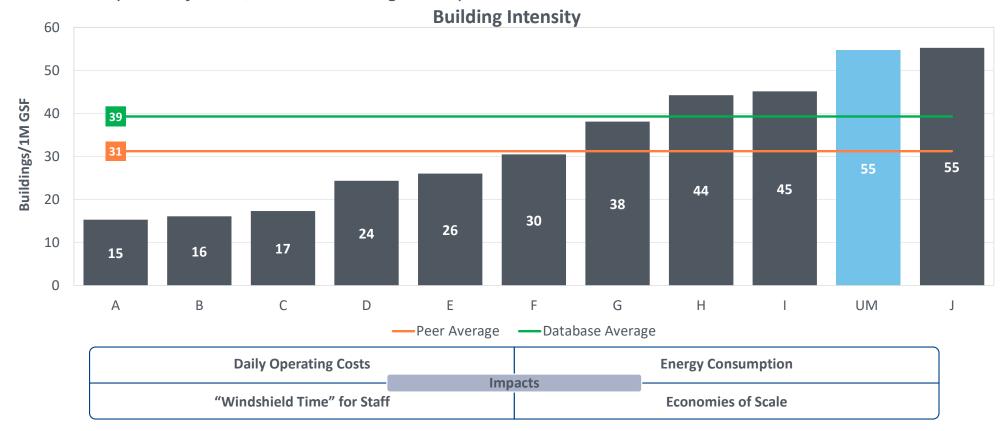
Wear and Tear of S	pace	Custodial Staffing Levels
Maintenance Staffing	Impacts	User Perception





Qualifying Metric: Building Intensity

UM is comprised of more, smaller buildings than peers and database

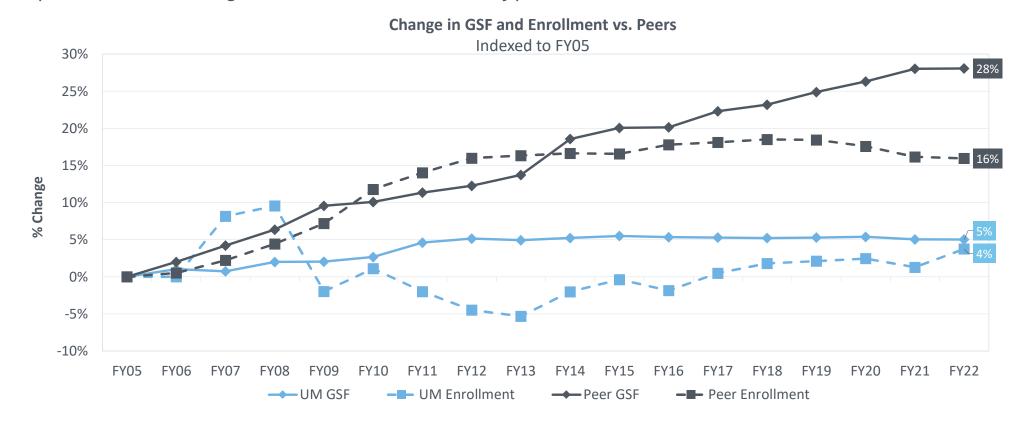






% Change in GSF and Enrollment Since FY05

Space and enrollment growth at UM are below that of peers

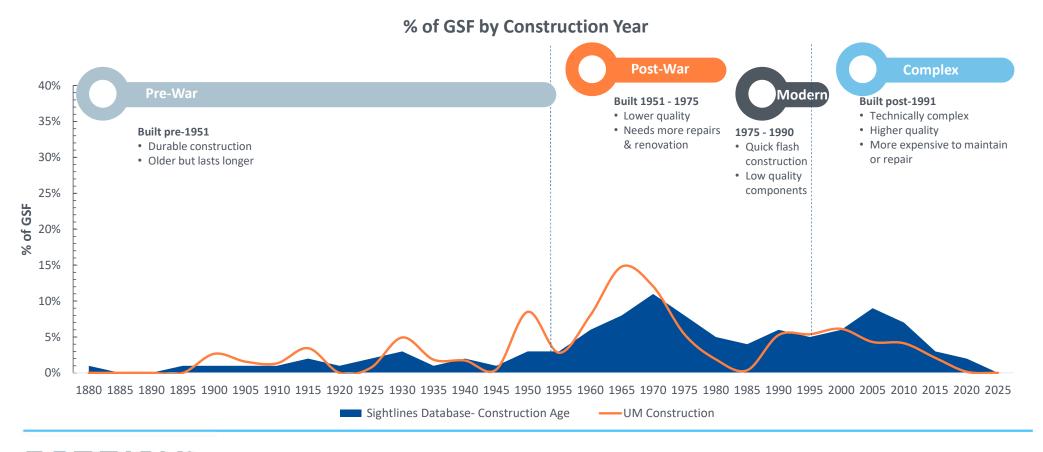






Putting Your Campus Building Age in Context

The campus age drives the overall risk profile

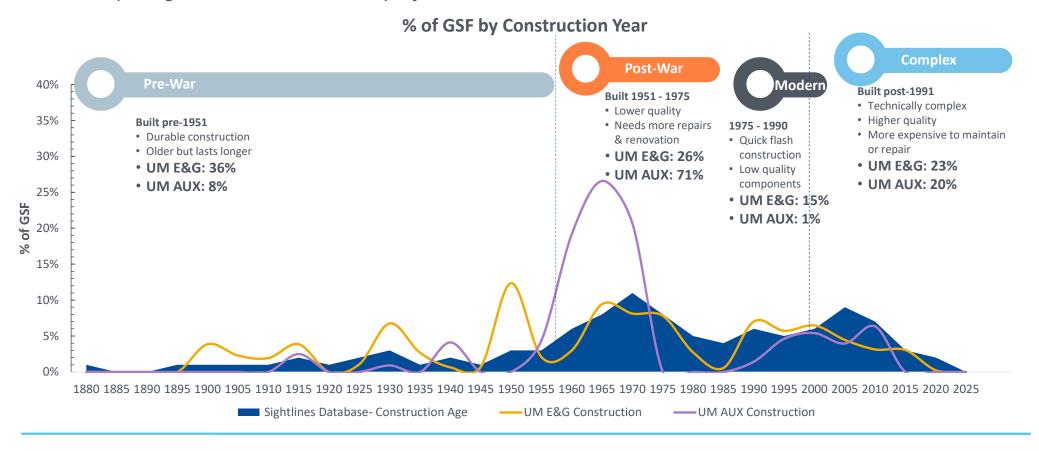






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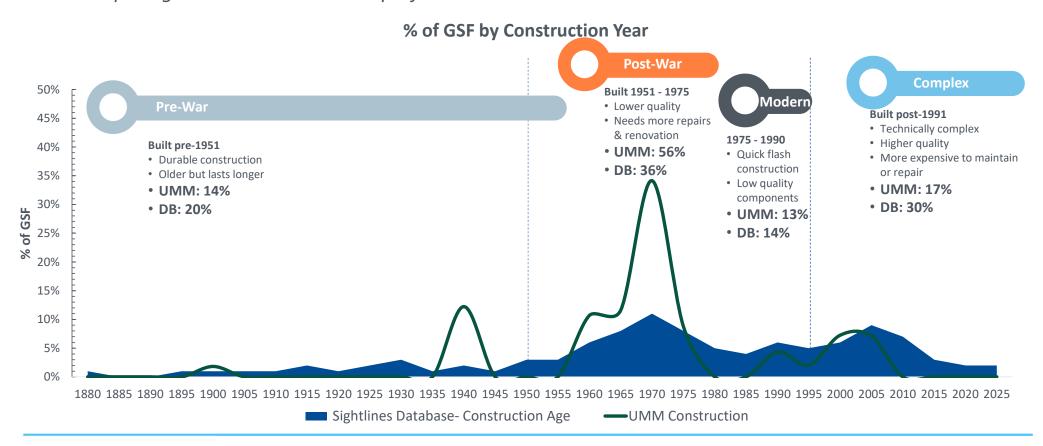




Putting Your Campus Building Age in Context



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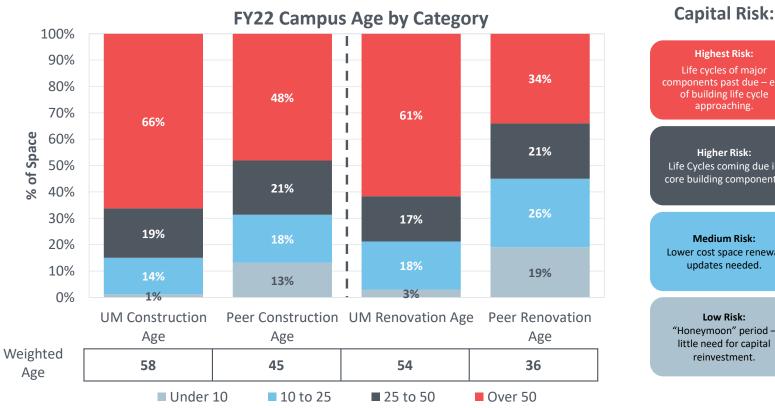






UM Renovation Age Distribution

78% of space at UM is in the high-risk (over 25 years old) category, with 61% of space over 50 years old



Operational Demands:

Life cycles of major components past due – end of building life cycle

Issues in components past the end of their lifecycles will demand reactive approaching.

Life Cycles coming due in core building components.

Maintenance: Younger components still

Lower cost space renewal

Aging components require reactive maintenance.

require PM.

Balance PM and Reactive

React as Needed:

"Honeymoon" period little need for capital reinvestment.

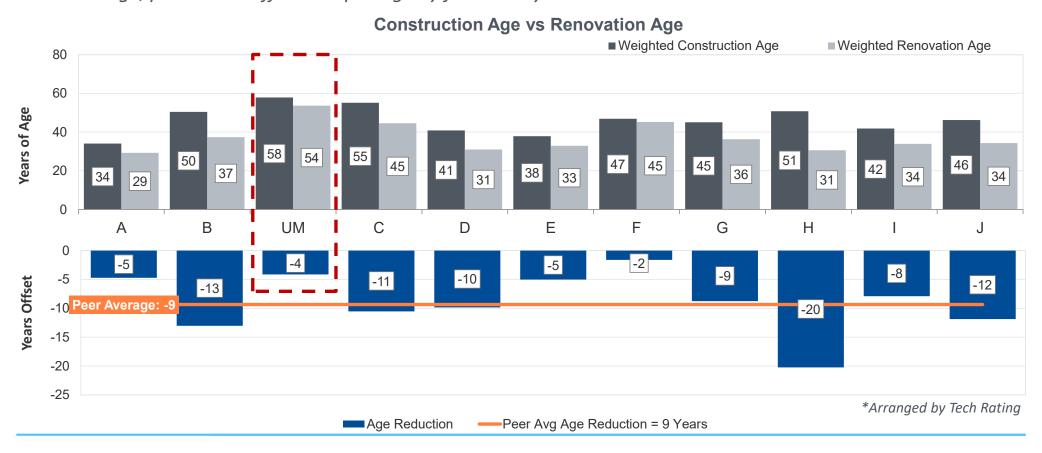
Focus on PM: Significant need for PM in young systems.





UM Has Performed Less Gut Renovations than Peers

On average, peers have offset campus age by five more years than UM





Construction Age vs. Renovation Age



On average, peers have offset 8 more years than UMM

Construction Age vs Renovation Age



Institution	Location
Fitchburg State University	Fitchburg, MA
Keene State College	Keene, NH
Lack Haven University of PA	Lock Haven, PA
Mansfield University of PA	Mansfield, PA
University of Alaska - Juneau	Juneau, AK
University of Maine at Fort Kent	Fort Kent, ME
University of Maine at Presque Isle	Presque Isle, ME
Worcester State University	Worcester, MA





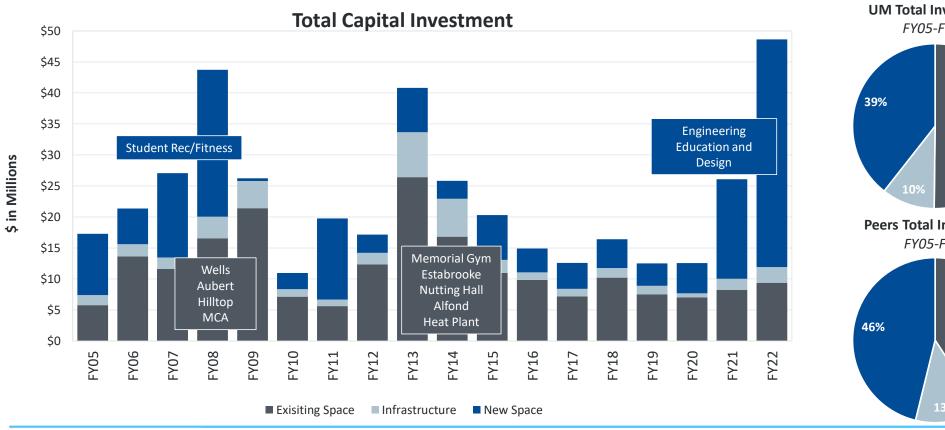
Capital Profile

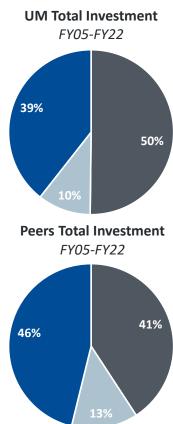


Total Capital Investment



Average total capital investment \$23.0M/year from FY05-FY22



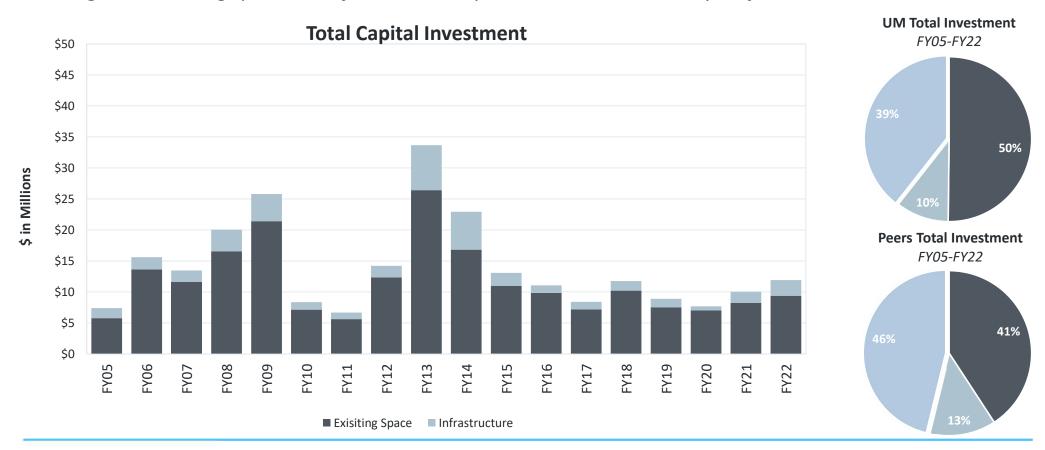




Total Capital Investment



Average total existing space and infrastructure capital investment \$13.9 M/year from FY05-FY22



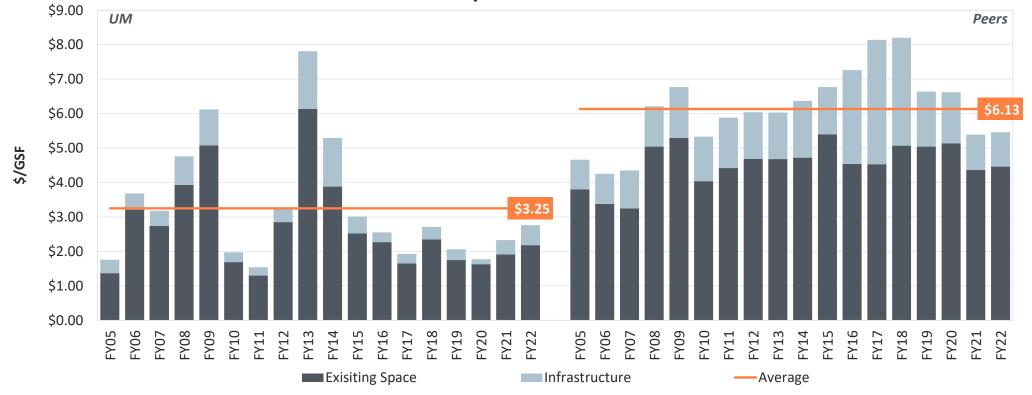




Total Capital Investment vs Peers

Peers investing \$2.88/GSF more than UM from FY05-FY22

Total Capital Investment vs Peers

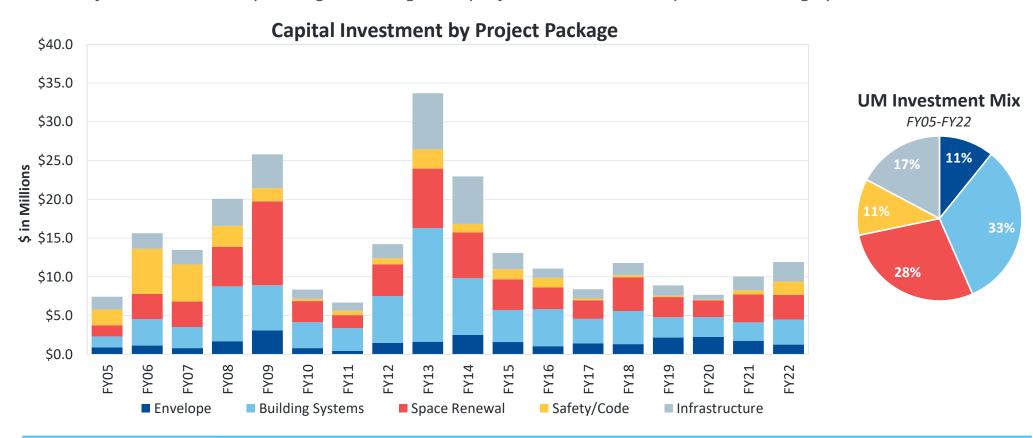






Total Project Spending by Package

44% of UM's historical spending is into high ROI projects such as Envelope and Building Systems

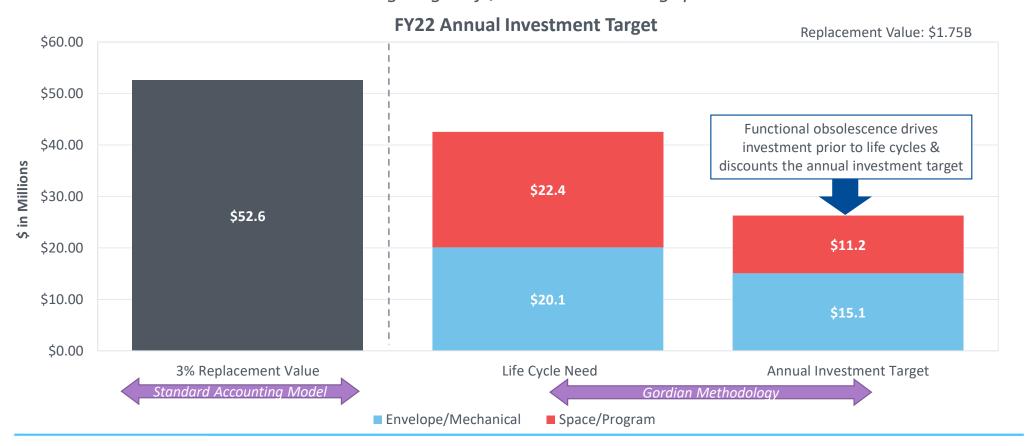






Defining an Annual Investment Target

Gordian recommends an Annual Funding Target of \$26.3M into existing space

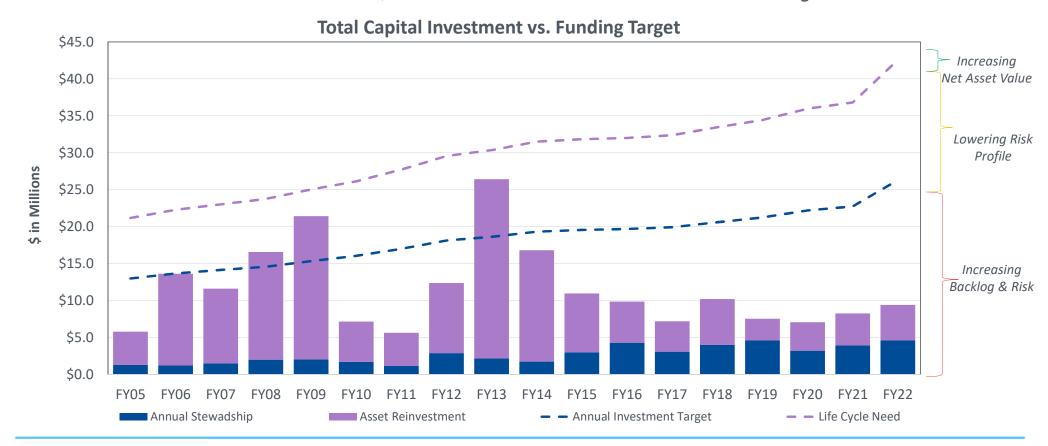






Capital Performance vs. Investment Targets

UM combined investment in FY22 was \$16.9M below Gordian's Annual Investment Target

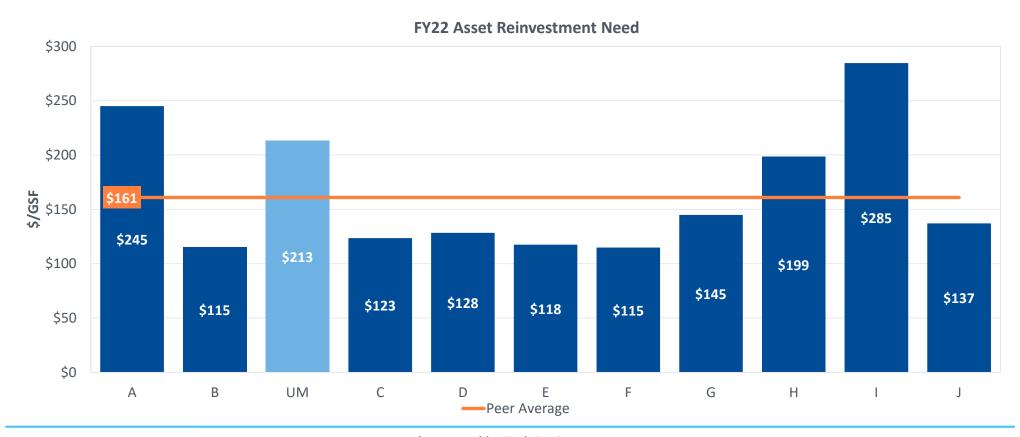






Asset Reinvestment Need \$/GSF vs. Peers

When AR Need is normalized on a \$/GSF basis, UM is among the highest and well above the \$100/GSF threshold



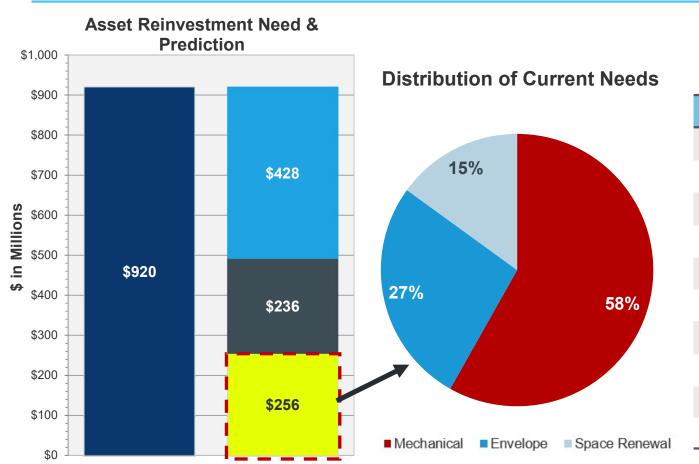


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MAINE

Prediction: UM's Current Needs



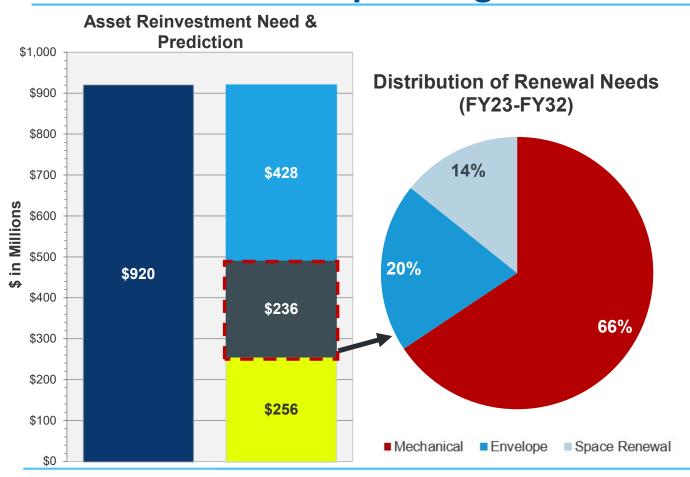
Major Current Building Needs

Building	System
AUBERT HALL	HVAC
YORK HALL	HVAC
FOGLER LIBRARY-ORIG	Exteriors
KNOX HALL	HVAC
OXFORD HALL	HVAC
SOMERSET HALL	HVAC
HANCOCK HALL	HVAC
FOGLER LIBRARY-ORIG	Electrical
HART HALL	HVAC
ANDROSCOGGIN HALL	HVAC





Prediction: UM's Upcoming Renewal Needs



Major Upcoming Building Needs

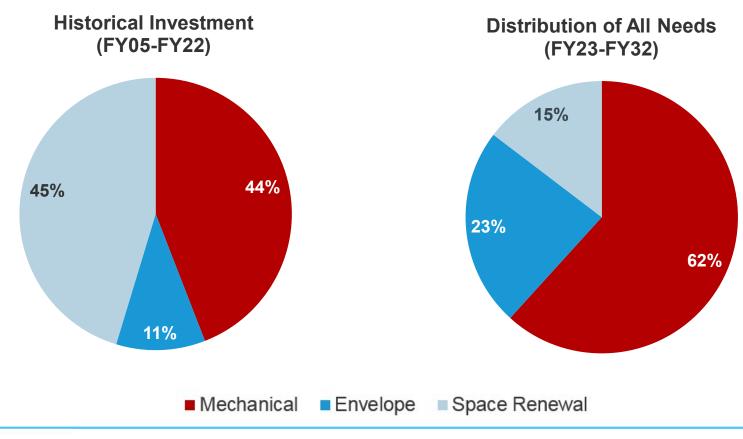
Building	System
FOGLER LIBRARY-ORIG	HVAC
CLASS OF 1944 HALL	HVAC
MEMORIAL UNION-AD2	HVAC
BRYAND GLOBAL SCIENCES CENTER	HVAC
DONALD P CORBETT HALL	HVAC
AUBURT HALL	Electrical
AUBERT HALL	Exteriors
HITCHNER HALL, BIOLOGY WING-AD4	HVAC
AUBURT HALL	Plumbing
MEMORIAL UNION-ORIG	HVAC





Historic Funding vs Current and Renewal Needs

Shift in investment allocation needed towards mechanical systems and building envelope

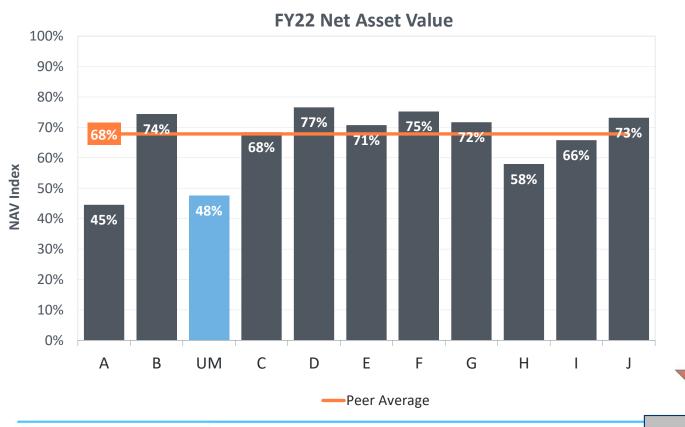


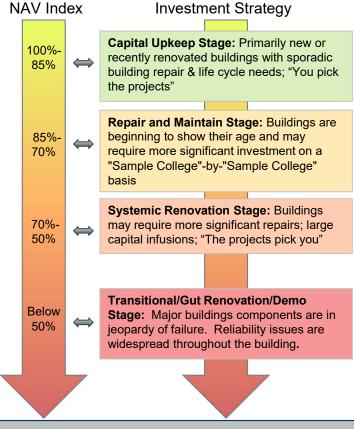


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Net Asset Value Compared to Peers

UM has a NAV of 48% representing the Transitional Stage







*Arranged by Tech Rating

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(Replacement Value - Building Needs)
NAV Index =
Replacement Value X 100



Operations Profile

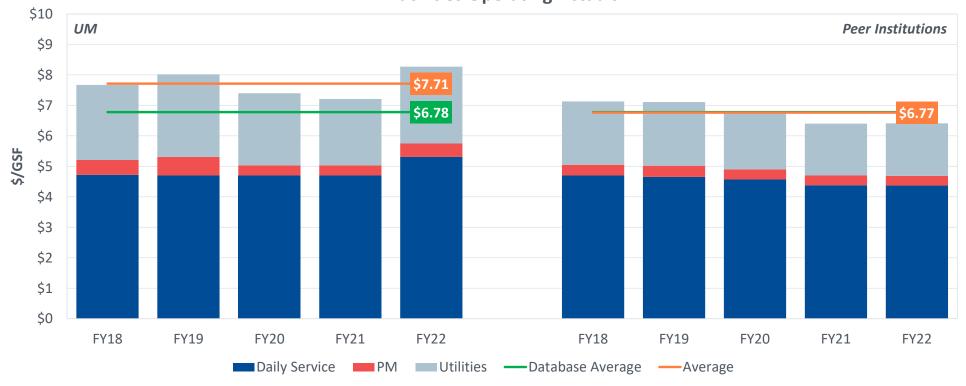




Facilities Operating Actuals

UM has operated at \$0.94/GSF more than peers from FY18-FY22

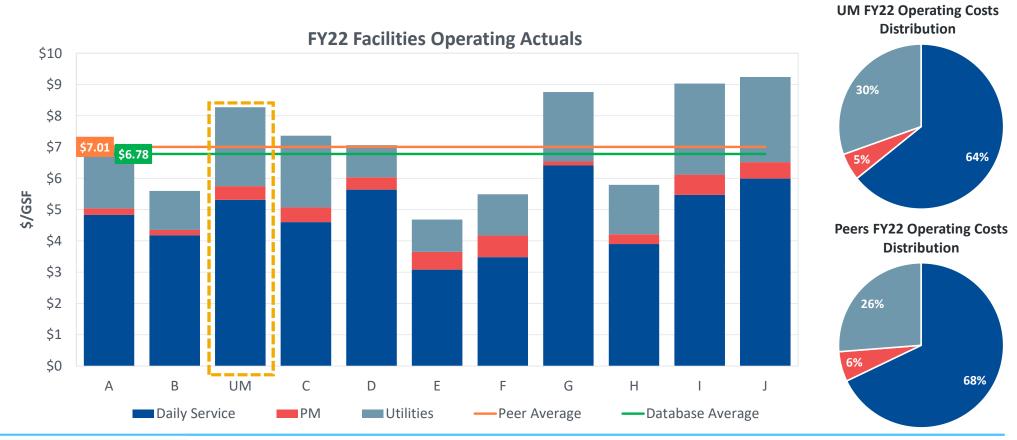












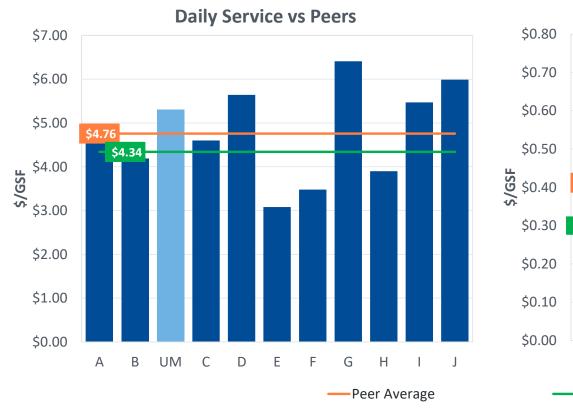


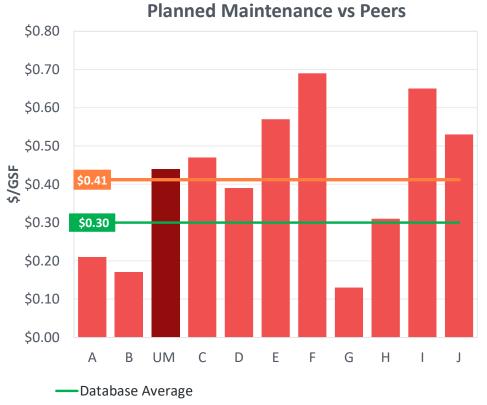
Arranged by Tech Rating

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FY22 Daily Service vs. Planned Maintenance





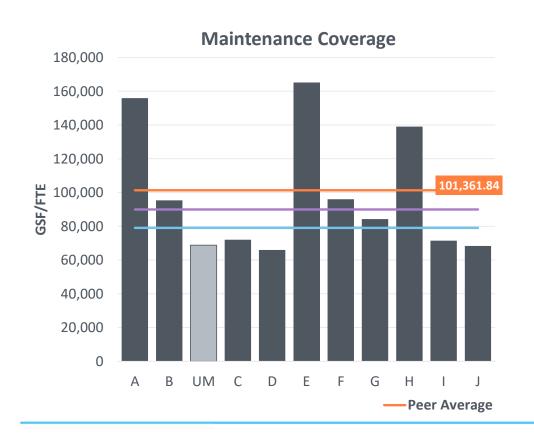


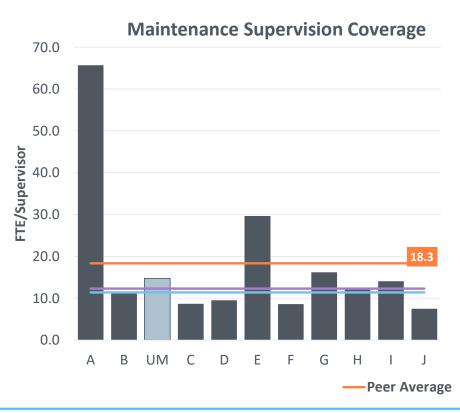
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Covering less space per FTE than peers, similar supervision

Older campus and higher \$/GSF repair needs drive lower coverage ratio



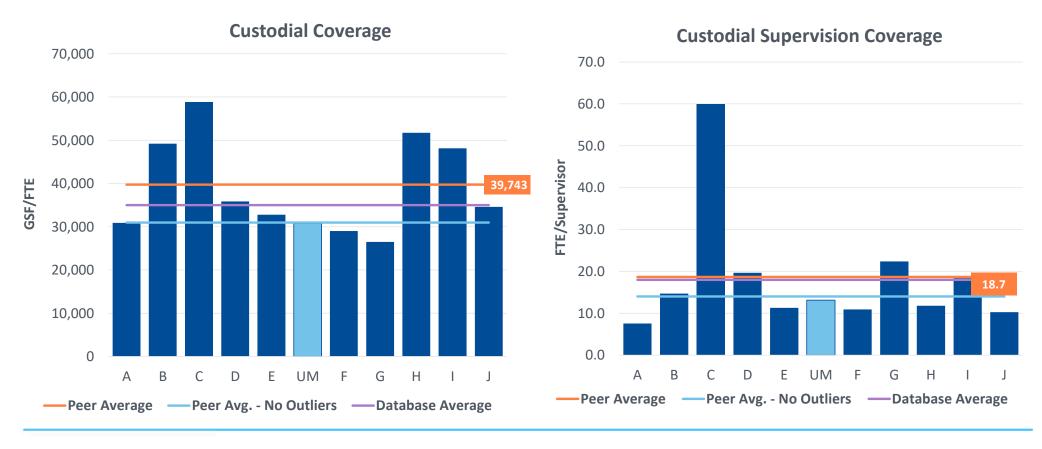






Campus conditions drive coverage ratios

Custodial coverage similar to peers with outliers removed, coverage below database average

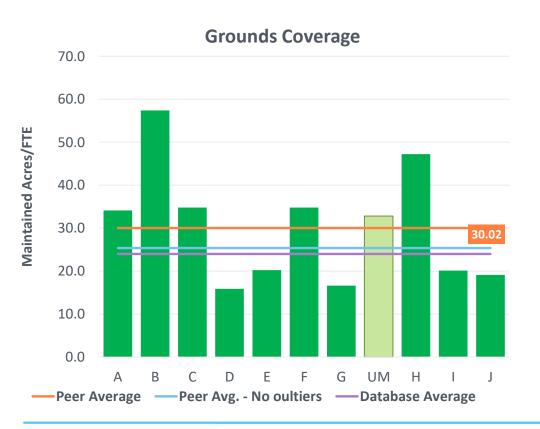


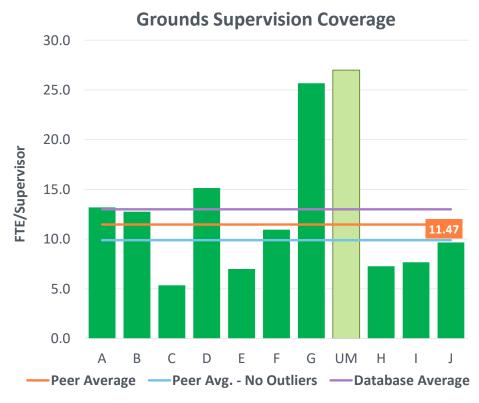




Grounds covering more acreage with less supervision

Challenges in filling grounds positions lead to increased coverage ratio compared to peers







FY2022 Summary



Space

- The University of Maine has avoided growth in campus footprint while seeing a decrease in student enrollment.
- 61% of space is over 50 years old and requires significant investments in both renewal and modernization.

Capital

- Total capital investment has fallen short of target FY14 FY22.
- Since FY05 peers have invested an average of \$2.88/GSF more per year into existing facilities than The University of Maine.
- Approximately \$256 Million "Current Need" across campus.

Operations

- Operating costs increased in FY22 for people, expenses, and utilities.
- Operating costs are \$0.94 per GSF more than peers FY18-22
- High backlog of needs and older campus are forcing tighter maintenance coverage ratios than peers.

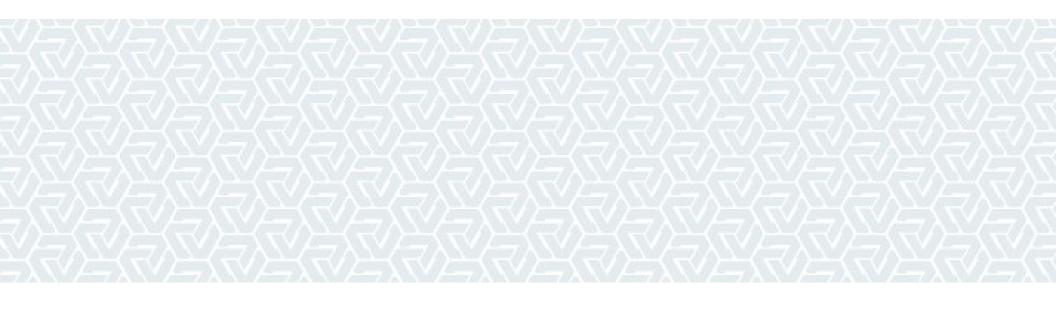






Questions & Discussion

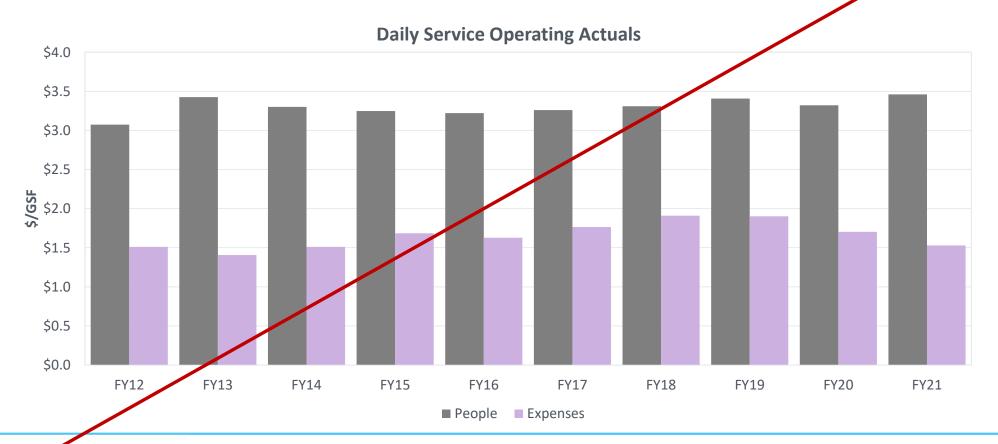






Daily Service Operating Actuals FY12-FY21

While People costs stay relatively the same, expenses have more fluctuation







Planned Maintenance Internal vs. External

