

FY23 Facilities Benchmarking & Analysis

University of Alaska Southeast Duncan Ketel & Rachel Gonzalez

Comprehensive Facilities Intelligence Solutions







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



University of Alaska – Southeast Peer Institutions



Return on Physical Assets (ROPA+) includes all space at UAS totaling 556,487 GSF

Facilities Peer Institutions	Location
University of Maine at Fort Kent	Fort Kent, ME
University of Maine at Farmington	Farmington, ME
University of Maine at Machias	Machias, ME
University of Maine at Presque Isle	Presque Isle, ME
Slippery Rock University of PA	Slippery Rock, PA
Mansfield University of PA	Mansfield, PA
Lockhaven University of PA	Lock Haven, PA
University of Maine at Augusta	Augusta, ME



Comparative Considerations

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



GRDIAN[®]

Space Profile

UAS's Technical Complexity is On-Par With Peers





Institutions arranged by Technical Complexity



UAS' Campus has Grown Similar to Peers in GSF



In-person enrollment trends are showing similar rate of growth following FY22



Change in campus GSF & Enrollment (indexed to 2006)



UAS has a Lower Density Campus than Peers

Density factor measures the busyness of campus



*Density is calculated using On-Campus Student FTEs, Faculty FTE, and Staff FTE

Institutions arranged by Density Factor

8



UAS Steps to Reach Target



UAS can add FTE's, decrease usable square footage, or both to reach target

Total on Campus FTE's by Density GSF



*Density is calculated using On-Campus Student FTEs, Faculty FTE, and Staff FTE

Scenarios to Reach 250 KPI Target: 1. Decrease total GSF by 275,000 GSF 2. Increase total FTE's by 700 (no space Changes) 3. Use a targeted approach to decrease GSF, which includes: • Transfer the NSRL- 17,591 GSF Demolish Mattocks House- 1,200 GSF • Demolish Mathisen House GSF- 1,604.00 • Should Mathisen be included in Density calculations? • Adjust Density GSF at Donald Sperl Joint Use to 21,355 (37.3%) • Remove or Sell an older residence hall building? • Banfield Hall, is 17,748 GSF, oldest residence building Total GSF removed from Density – 74,040 • Still requires adding 400 FTE's • Removing an additional 40,960 GSF • Are there other buildings that are underutilized, which could have increased utilization allowing for more demolition of space?

Building and Grounds Intensity



UAS' smaller buildings and compact grounds produces challenges in efficiency for staff



*Grounds intensity calculations only include buildings on developed grounds acreage. UAS owns a substantial amount of forested land not included in metric



UAS Carries a Significantly Younger Campus Age



UAS has been more effective at renovating buildings compared to peers



Construction vs. Renovation Age



Ketchikan & Sitka are Younger through Renovations

JNIVERSIT of ALASKA SOUTHEAST

However, Sitka still remains over 50 years old



Construction & Renovation Age by Campus



UAS Has More Low Risk Space Than Peers



Lower risk space affords the opportunity to plan ahead for future needs





Understanding Campus Age



Renovations reduce overall age profile decreasing capital and operational need



Campus Age by Category

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



UAS Has Flexibility of Managing a Young Campus



Unless UAS begins to fully renovate space in 5 years 58% of space will be "High Risk"



Understanding the Impact of Age on Future Need



Different construction waves will have competing life cycle needs in the future



G[®]**RDIAN**[®]

GRDIAN[®]

Capital Profile



	Total Operations and Asset Funding					
Alaska Terminology	Utilities & Gro & Custodia		Maint	enance & Repair – M&R	Repair & Renew - R&R	
	Fund 1			d 1	Fund 2-9	
	Operations & Maintenance			Projects		
Sightlines Terminology	People Expe	enses Ut	Jtilities	Recurring Project Dollars	One-Time Project Dollars	
	Daily Service &	PM Ut	Itilities	Annual Stewardship	Asset Reinvestment	



New Space Spending Increased in FY23



Existing Space investment decreased in recent years, but makes up majority of investment





Defining an Annual Investment Target



Annual Funding Target: \$5.7M

FY23 Annual Investment Target

\$16 3% Replacement Value is one of the standard depreciation model used to determine the expected total dollars needed to be put into \$14 Life Cycle Need represents the total dollars assets annually to sustain them. needed to replace components & systems as they come due without accounting for \$12 modernization Life Cycle needs are discounted to account for \$10 Millions intentional deferral, functional obsolescence and extended life cycles based on effective \$8 maintenance programs \$6.10 \$12.53 \$6 \$2.13 \$4 \$4.69 \$2 \$3.52 \$0 3% Replacement Value Life Cycle Need Annual Investment Target Envelope/Mechanical Space/Program

Replacement Value: \$417.8 M



Recurring Capital Spending Falls Short of Target



Since FY18 UAS has increased its backlog, caused by a decrease in existing space investment



Total Capital Investment vs. Funding Target



Defining an Annual Investment Target- Housing Campus

Annual Funding Target: \$1.07M

Replacement Value: \$64.6 M \$3.0 3% Replacement Value is one of the standard Life Cycle Need represents the total dollars Life Cycle needs are discounted to account for depreciation model used to determine the needed to replace components & systems as intentional deferral, functional obsolescence and expected total dollars needed to be put into they come due without accounting for extended life cycles based on effective \$2.5 assets annually to sustain them. modernization maintenance programs \$2.0 Millions \$1.5 \$1.59 \$1.0 \$1.94 \$0.56 \$0.5 \$0.69 \$0.51 \$0.0 3% Replacement Value Life Cycle Need Annual Investment Target Envelope/Mechanical Space/Program

FY23 Annual Investment Target

G[®]**RDIAN**[®]

Recurring Capital Spending Falls Short of Target- Housing UNIVERSITY of ALASKA SOUTHEAST

Since FY13 UAS Housing has increased its backlog, due to a lack of investment



Total Capital Investment vs. Funding Target



*Capital targets increased in 2015 due to construction of freshman residence hall

23

Juneau Campus Capital Spending Sets the Trend



Unlike the combined spending trend, Juneau begins to miss targets after FY17

Juneau Campus' Total Capital Investment vs. Juneau Funding Target





Ketchikan Campus Spending Frequently Meets Target

JNIVERSIT of ALASKA SOUTHEAST

After FY20 spending has decreased and missed capital targets

Ketchikan Campus' Total Capital Investment vs. Ketchikan Funding Target



© 2023 The Gordian Group, Inc. All Rights Reserved

Sitka Campus Missed Targets Increases Backlog and Risk



Backlog continues to increase with missed capital targets







UAS Spends Higher to Target than Peers



Since FY19, UAS has spent 26% to target, peers 60%

Total Capital Investment as a Percent of Funding Target





Disparity In Reaching Targets Across Campuses



Large infusions of capital inflate average spend to target

Total Capital Investment as a Percent of Funding Target



G[®]**RDIAN**[®]

Total Need is Less than Peers

Total need based on FY23 Facilities Condition Assessment

Total Asset Reinvestment Need \$/GSF

Regionally Adjusted





Deferred Maintenance/capital need saw a dramatic increase in FY22 due 29



GRDIAN[®]

Operations Success



	Total Operations and Asset Funding					
Alaska Terminology	Utilities & Grounds & Custodial	Maint	enance & Repair – M&R	Repair & Renew - R&R		
	Fund 1			Fund 2-9		
	Operations Maintenar		Projects			
Sightlines Terminology	People Expenses	Utilities	Recurring Project Dollars	One-Time Project Dollars		
	Daily Service & PM	Utilities	Annual Stewardship	Asset Reinvestment		



Facilities Operating Expenditures vs. Peers



UAS has reduced its Daily Service expenditures in recent years below peer average

Facilities Operating Actuals Regionally Adjusted



G[®]**RDIAN**[®]

Budget Cuts Limit Purchasing Power



UAS operational spending is 58% less than 2006 actuals when accounting for inflation

Facilities Operating Actuals





Juneau Campus Decreasing Budget Similar to Combined Trend

Juneau operational spending is 58% less than 2006 actuals when accounting for inflation

Facilities Operating Actuals





Ketchikan Campus Budget Emphasizes PM in Recent Years



Ketchikan operational spending is 63% less than 2006 actuals when accounting for inflation



Facilities Operating Actuals



Sitka's Recent Budget Lacks Purchasing Power of Past Years




Facilities Operating Expenditures vs. Peers



UAS has decreased its daily service expenditures, while Peer spending has increased

Facilities Operating Actuals Regionally Adjusted





UAS Allocates More Resources to PM than Peers



Recent increases in PM spending result in UAS approaching "Best Practice Range"



Preventive Maintenance Spending



Utility Operating Expenditures Compared to Peers



UAS utility expenditures remain aligned with peers

UAS versus Peer Utility \$ per GSF



Total Energy Consumption





Total Energy Consumption vs. Peers

G[®]RDIAN[®]



Total Energy Consumption



When normalizing by degree day, UAS' energy consumption remains below peers

Total Energy Consumption vs. Peers

Normalized by Degree Days



BTU/GSF/DD

Energy Expenses Fluctuate in Consistent Manner



UAS' total energy costs rose above peer average in FY23

Total Energy Cost vs. Peers



G[®]**RDIAN**[®]

Differences in Unit Costs are Growing vs. Peers



Fossil and electricity unit costs increased, driving total expenditures higher



Fossil Fuel Unit Cost Regionally Adjusted



Electric Unit Cost Regionally Adjusted



Maintenance Staffing Coverage



Coverage ratios increased from FY22, due to attrition in staffing





Maintenance Metrics





Custodial Staffing Coverage









Custodial Metrics



UAS has more custodial supervisors, but custodial staff is responsible for more GSF





Custodial Materials



Peer Average

G&RDIAN





Institutions arranged by Density Rating
47

© 2023 The Gordian Group, Inc. All Rights Reserved

Grounds Staffing Coverage

Grounds staffing fluctuates with loss or gain of temporary employees



G[®]**RDIAN**[®]



Grounds Metrics

G&RDIAN



UAS has the highest grounds intensity, which correlates with lower rates of coverage



Peer Average



Grounds Supervision





Institutions arranged by Grounds Intensity



Questions & Discussion