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### **FY23** Facilities Benchmarking & Analysis

University of Alaska Anchorage Duncan Ketel & Kareena Kothari

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# **University of Alaska Anchorage:**

Anchorage Campus



# **Comprehensive Facilities Intelligence Solutions**





### **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"* 

#### 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**

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### **University of Alaska – Anchorage Peer Institutions**

#### Return on Physical Assets (ROPA+) includes all space at UAA totaling 3.32 Million GSF

Facilities Peer Institutions	Location
Portland State University	Portland, OR
The University of Maine	Orono, ME
University of Alaska Fairbanks	Fairbanks, AK
University of Iowa	Iowa City, IA
University of Missouri – Kansas City	Kansas City, MO
University of Missouri – St. Louis	St. Louis, MO
University of Southern Maine	Gorham, ME
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

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# **Space Profile**

Anchorage Campus



### **Anchorage Complexity is Similar to Peers**



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### **Density is Still Lower Overall But Trending Upward**



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

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Institutions arranged by Density Factor



# Recent Construction and Renovations Reduce Age

#### Peers have primarily reduced campus age through renovations, not construction



#### Campus Age by Category



25 to 50 - Higher Risk

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# **Risk Exposure Projected to Increase**

#### Space over 25 years old currently represents more than half of campus GSF



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



### **UAA Has two Distinct Waves of Construction**



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# **Capital Profile**

Anchorage Campus



# **Capital Funding Sources**

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





### **Sightlines Package Breakouts**

Projects are classified by the category of need they are addressing on campus



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### **UAA Should Invest More into Existing Space**





### **Annual Investment Target at UAA, Institution Wide**

#### Annual Funding Target: \$37.1 M



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# **Annual Investment Target at Anchorage Campus**

#### Annual Funding Target: \$31.4 M





### **Capital Spending Levels at Anchorage Don't Keep Up**

In 18 years of captured data, the annual investment target has been missed 17 times Total Capital Investment vs. Funding Target





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### **Annual Stewardship has Diminished in Recent Years**

AS funds have averaged 9% of target since 2016, Peers AS funding reaches 24% of target during same period



#### **Total Recurring Capital Spending as a Percent of Funding Target**

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<sup>19</sup> Fund 1 Projects: Annual Stewardship



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### **Total Need Grows as Funding Decreases**

UAA has seen AR needs increase faster than peers since FY16 due to lack of investment



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Total Asset Reinvestment Need \$/GSF

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### **Facilities Condition Index**





### **Facilities Condition Index – Buildings Under 25 Years**



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### **Facilities Condition Index – Buildings Over 25 Years**



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Operations Success: Anchorage Campus



# **Capital Funding Sources**

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	Daily Serv	vice & PM	Utilities	Annual Stewardship	Asset Reinvestment	





# **Facilities Operating Expenditures**

#### Anchorage operates with significantly less resources than Gordian database



**Facilities Operating Actuals** 



### **Daily Operating Resources Increase by 21% in FY23**

UAA increase outpaces FY23 inflation of 8%, yet resources are still half of 2010 inflated values



#### **Facilities Operating Actuals**

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### UAA

# **Facilities Operating Expenditures**

#### Daily Service & PM are nearly the same now as 7 years ago; 30% leaner than peer levels



Facilities Operating Actuals COLI Adjusted



### **Utility Operating Expenditures Compared to Peers**

Anchorage has decreased operating utility expenditures and spends less than Peers



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# **Total Energy Consumption**

#### Peers consume more fossil fuels than Anchorage as main differentiation



**Total Energy Consumption vs. Peers** 



# **Total Energy Consumption by Degree Days**

#### When accounting for regional differences UAA continues to outperform peers







# **UAA's Energy Costs Above Peers**

Peers saw sharp increases in commodity prices leading to higher costs than UAA





## **UAA Energy Costs are Normalizing to Peers**

FY23 trend narrowed unit cost variance and shows UAA with better electric rates than peers





COLI adjusted

**Electric Unit Cost** 



### **Maintenance Staffing Coverage**

As maintenance positions were filled coverage ratios decreased from FY22 peak





## **Maintenance Metrics**

Anchorage has similar supervision, spends less on materials, covers more GSF than peers



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### **Custodial Staffing Coverage**

Custodial coverage rises with each FTE that is unreplaced or eliminated




### **Custodial Metrics**

#### Anchorage staff cover more GSF and are supervised at lower rates than peers



#### **Custodial Staffing**



#### **Custodial Supervision**



#### **Cleanliness Inspection Score**



Institutions arranged by Density Rating



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### **Grounds Staffing Coverage**

#### Coverage ratios continue to reduce to pre-pandemic levels



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### **Grounds Metrics**

As grounds department has grown from FY21, coverage is now similar to peers

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Grounds Staffing



#### **Grounds Supervision**

Grounds Inspection Score



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**FY22** Facilities Benchmarking & Analysis

University of Alaska Anchorage: Community Campus Breakout

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# **Space Profile:**

Kenai Peninsula College



### **Qualifying Metrics – Building and Grounds Intensity**

Kenai has higher building intensity, similar tech rating, and lower density than database



UAA

# New Construction Shifts Age Categories at Kenai

Career Technical Education Center & Student Housing Complex enter the 10 to 25 category





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# **Capital Profile:**

Kenai Peninsula College



### **Capital Investment has focused on New Construction**

Kenai should increase capital investment in existing space to renovate older buildings





Kenai continues falling short of investment targets, spending only 7% to the FY23 target



**Total Capital Investment vs. Funding Target** 



### **Existing Space Investment Breakout**

KPC should shift investment away from space renewal towards building systems



**Existing Space Capital Breakout** 



### **Asset Reinvestment Need Similar to 2006**

AR need increases overtime as capital targets have been missed



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# **Operations Success:**

Kenai Peninsula College

# **Facilities Operating Expenditures**

# Kenai \$/GSF spending in 2023 is 45% of inflated operating expenditures, up 5% from FY22



**Facilities Operating Actuals** 



# PM Growth Rebounds To Higher Spending Range

#### KPC's increase in PM is paramount as space shifts to higher age categories





## **Total Energy Consumption**

Current consumption set to eclipse total average weighted by early years of data reported





### **Energy Expenses are Increasing Over Time**

Electric unit costs have steadily continued to increase throughout analysis



**Total Energy Cost** 



### **Maintenance Staffing Coverage**

#### KPC trend in reduction of space per FTE continues for the last 5 years



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### **Custodial Staffing Coverage**

#### Increases in FTE result in a return to historic coverage levels



#### **Custodial Staffing**

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#### 

81,665 81,665

81,665

288,968



### **Grounds Staffing Coverage**

Minor fluctuations to grounds FTE's have dramatic effect on coverage ratios at KPC



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# **Space Profile:**

Kodiak College



# **Qualifying Metrics – Building Demographics**

Kodiak is more intense, denser, and slightly less technically complex than database



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# **Aging Campus Puts Buildings At Risk**

#### An older campus will cause operational strain and demand significant capital investment





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# **Capital Profile:**

Kodiak College



### **Focusing Investments on Aging Campus**

Kodiak sets example for community campuses as investment has focused on existing space



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# **Capital Investment vs. Annual Investment Target**

Kodiak's lack of recurring capital dollars results in dependence on one-time capital funding



**Total Capital Investment vs. Funding Target** 



### **Existing Space Investment Breakout**

Kodiak has maximized investment by investing 60% of funds into envelope and systems





### **Asset Reinvestment Need has Doubled Since 2015**

Asset Reinvestment Need continues to increase as capital investments have decreased



#### Total Asset Reinvestment Need \$/GSF

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# **Operations Success:**

Kodiak College



# **Facilities Operating Expenditures**

#### Kodiak's operating expenditures have been similar for six years

Facilities Operating Actuals





### **PM Spending Below Best Practice Range**

Ensure campus is stewarded by directing PM resources toward expensive & valuable assets





## **Total Energy Consumption**

#### Kodiak energy consumption has been on the rise over the last 5 years





### **Energy Expenses are Increasing Over Time**

#### FY23 unit costs have risen to near historic highs per MMBTU





### **Maintenance Staffing Coverage**

Despite 2019 – 2020, staffing coverage remains consistent





### **Custodial Staffing Coverage**

#### Coverage ratios remain consistent in FY23



GSF



### **Grounds Staffing Coverage**

#### Coverage ratios remain consistent in FY23


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# **Space Profile**

Mat-Su College



# **Qualifying Metrics – Building Demographics**

Mat-Su is more intense, less dense, and slightly less technically complex than database





# **Aging Campus Puts Buildings At Risk**

#### 67% of Mat-Su campus is older than 25 years, carrying above average risk





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# **Capital Profile:**

Mat-Su College



#### **Focusing Investments on Aging Campus**



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# **Capital Investment vs. Annual Investment Target**

Mat-Su continues to miss target further increasing backlog and operational strain Total Capital Investment vs. Funding Target





### **Existing Space Investment Breakout**

Mat-Su highlights excellent project selection, 76% of funds directed to systems and envelope





#### **Asset Reinvestment Need has Increased since 2015**

Asset Reinvestment Need continues to increase as capital targets have been missed



Total Asset Reinvestment Need \$/GSF

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# **Operations Success:**

Mat-Su College



# **Facilities Operating Expenditures**

Mat-Su delivers its daily operations at a far leaner rate than FY06 levels inflated longitudinally



**Facilities Operating Actuals** 

# PM Spending Remains within Best Practice Range

PM spending continues an upward trajectory, living in the best practice range for 5 years





### **Total Energy Consumption**

#### Mat-Su consumption remains consistent and below average since 2014





### **Energy Expenses are Increasing Over Time**

#### Despite "flatness" in consumption, costs increase largely driven by electric rates





#### **Maintenance Staffing Coverage**

Drops in FTE lead to increasing coverage ratios and operational strain





#### **Custodial Staffing Coverage**

Custodial FTE's have decreased, but ratios are minimally impacted





#### **Grounds Staffing Coverage**

#### Grounds coverage increasing to 2012 levels



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# **Space Profile:**

Prince William Sound Community College



# **Qualifying Metrics – Building Demographics**

PWSCC campus more intense, less dense, and slightly more complex than database



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# **Aging Campus Puts Buildings At Risk**

Renovations have reduced capital risk, operational strain, and a more balanced age profile





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# **Capital Profile:**

Prince William Sound Community College



### **Focusing Investments on Aging Campus**

Capital investments at PWSCC smartly focused into existing space





# **Capital Investment vs. Annual Investment Target**

PWSCC continues to miss target, further increasing asset reinvestment need Total Capital Investment vs. Funding Target





### **Existing Space Investment Breakout**

60% of spending went toward systems, envelope & safety projects combating age





#### **Asset Reinvestment Need has Increased since 2014**

Asset Reinvestment Need continues to increase with multiple years of missed targets Total Asset Reinvestment Need \$/GSF



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# **Operations Success:**

Prince William Sound Community College



# **PWSCC Facilities Operating Expenditures**

FY23 operating expenditures decreased by 9%, compounding an 8% inflation rate increase



**Facilities Operating Actuals** 



#### **PWSCC PM is within Recommended Spending Range**

#### UAA's FY23 PM spending has reached a historic high per square foot, increasing by 97%





# **Total Energy Consumption**

Normalized consumption at an all-time low and decreased by 48% from FY16 levels





### **Energy Expenses are Increasing Over Time**

#### Over 17 years of utility commodity data collected, unit costs have risen by 50%





### **Maintenance Staffing Coverage**

#### Coverage ratio has returned to FY21 levels





#### **Custodial Staffing Coverage**

#### No dedicated full-time custodian at PWSCC



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# **Questions & Discussion**