



FY22 Facilities Benchmarking & Analysis Final Report

University of Alaska Anchorage



University of Alaska Anchorage:

Anchorage Campus

Comprehensive Facilities Intelligence Solutions



FACILITIES BENCHMARKING & ANALYSIS

Take control of your facilities and make the case for change without the guesswork



FACILITIES ASSESSMENT & PLANNING

Plan and execute capital investment plans that are inclusive, credible, flexible, affordable and sustainable



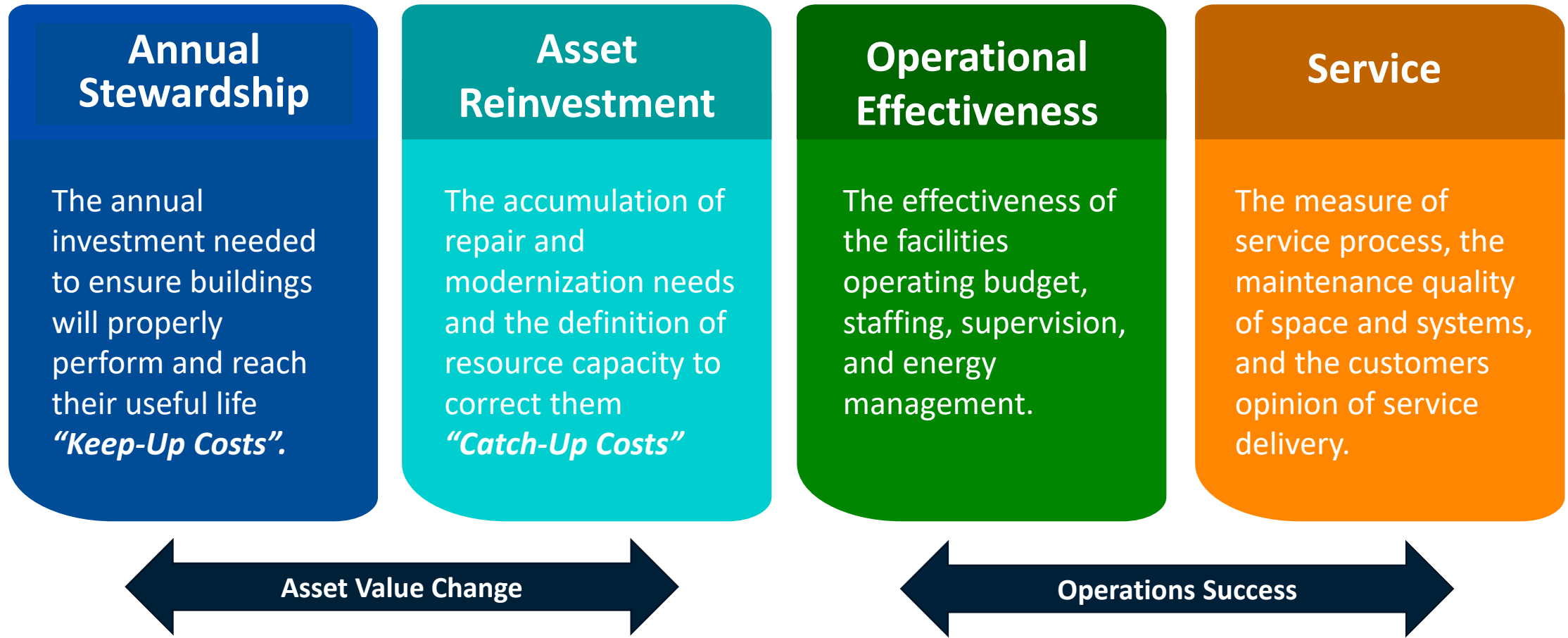
SPACE UTILIZATION

Ensure your space is working up to its full potential



SUSTAINABILITY SOLUTIONS

Measure and improve environmental stewardship



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

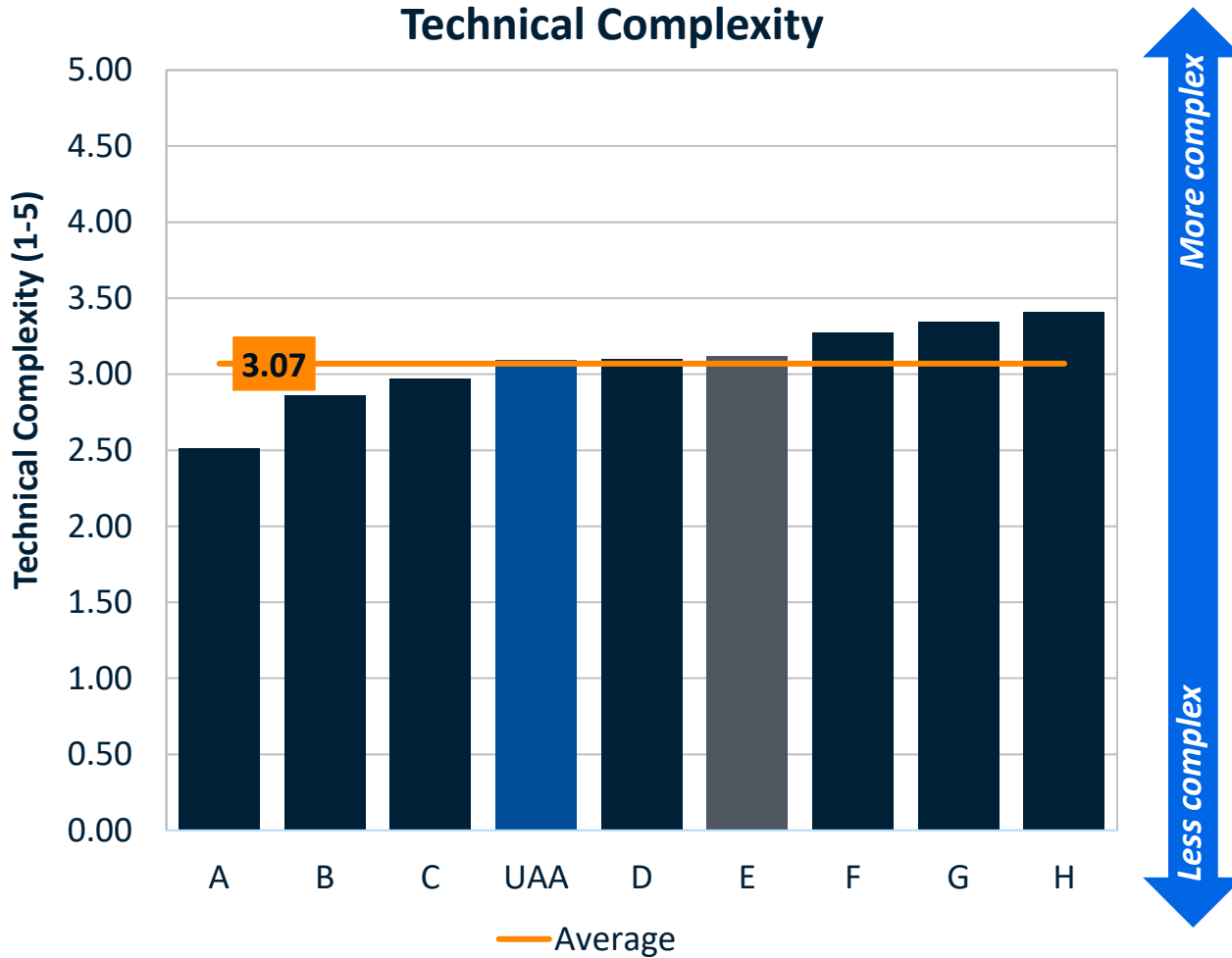
GARDIAN[®]

Space Profile

Anchorage Campus

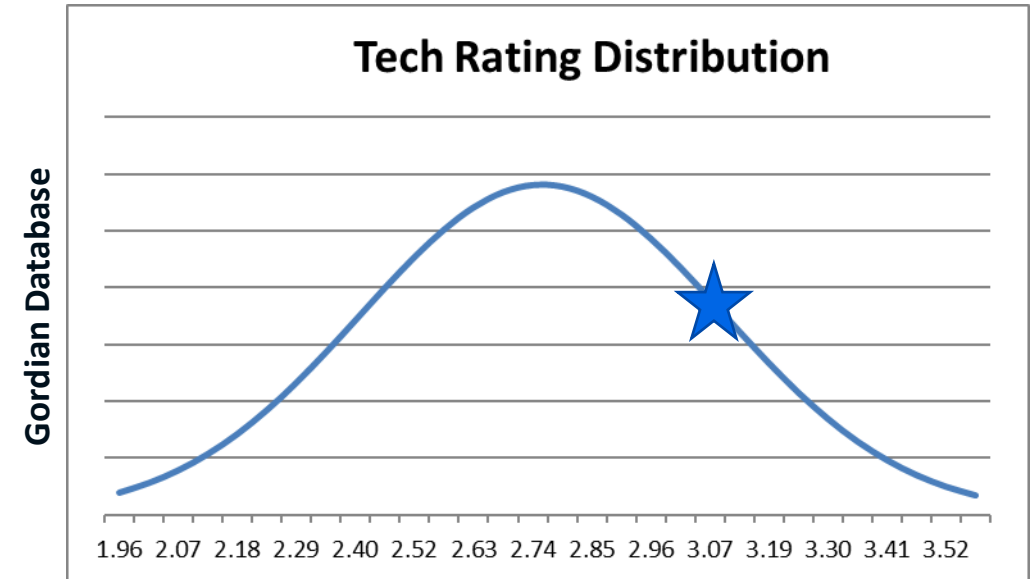
Anchorage Complexity is Similar to Peers

Anchorage campus has a higher tech rating compared to overall database distribution



Areas Impacted by Tech Rating

Energy Consumption	Maintenance Staffing	Replacement Values	Stewardship Targets	Operational Demand
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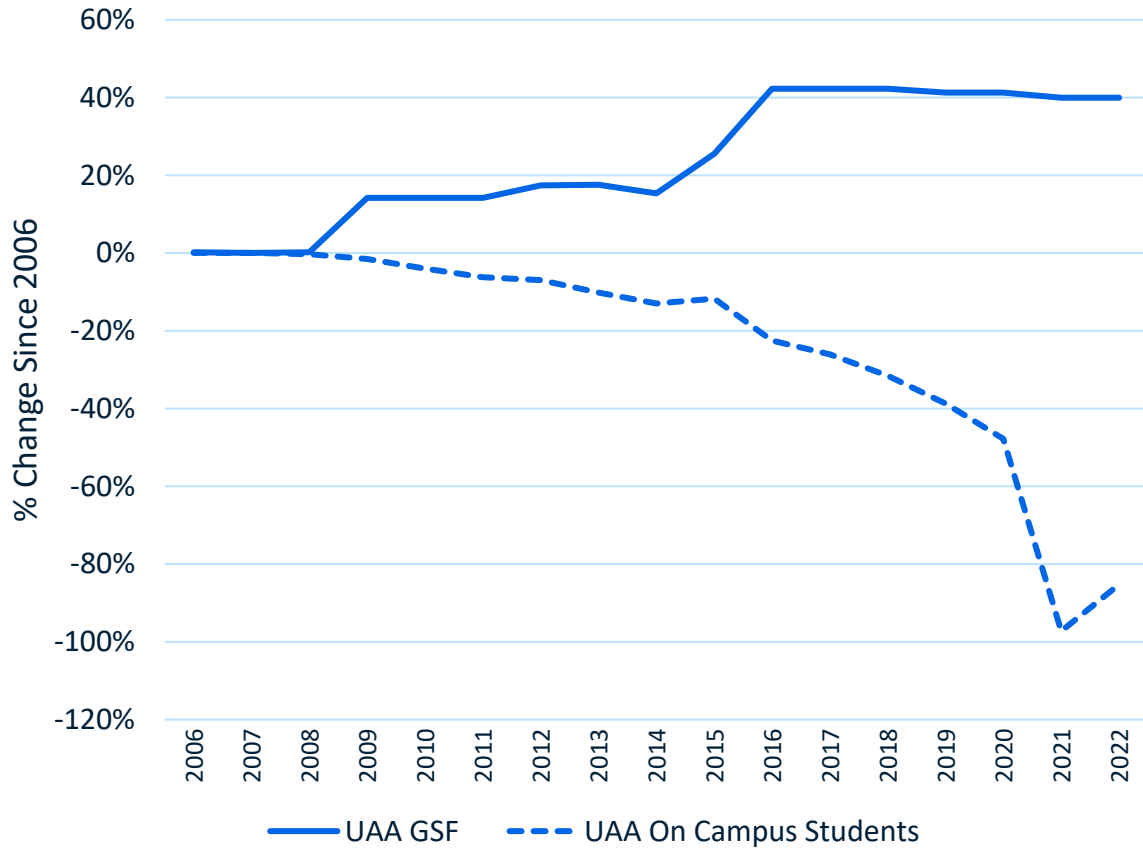


Enrollment has Continually Decreased Since 2006

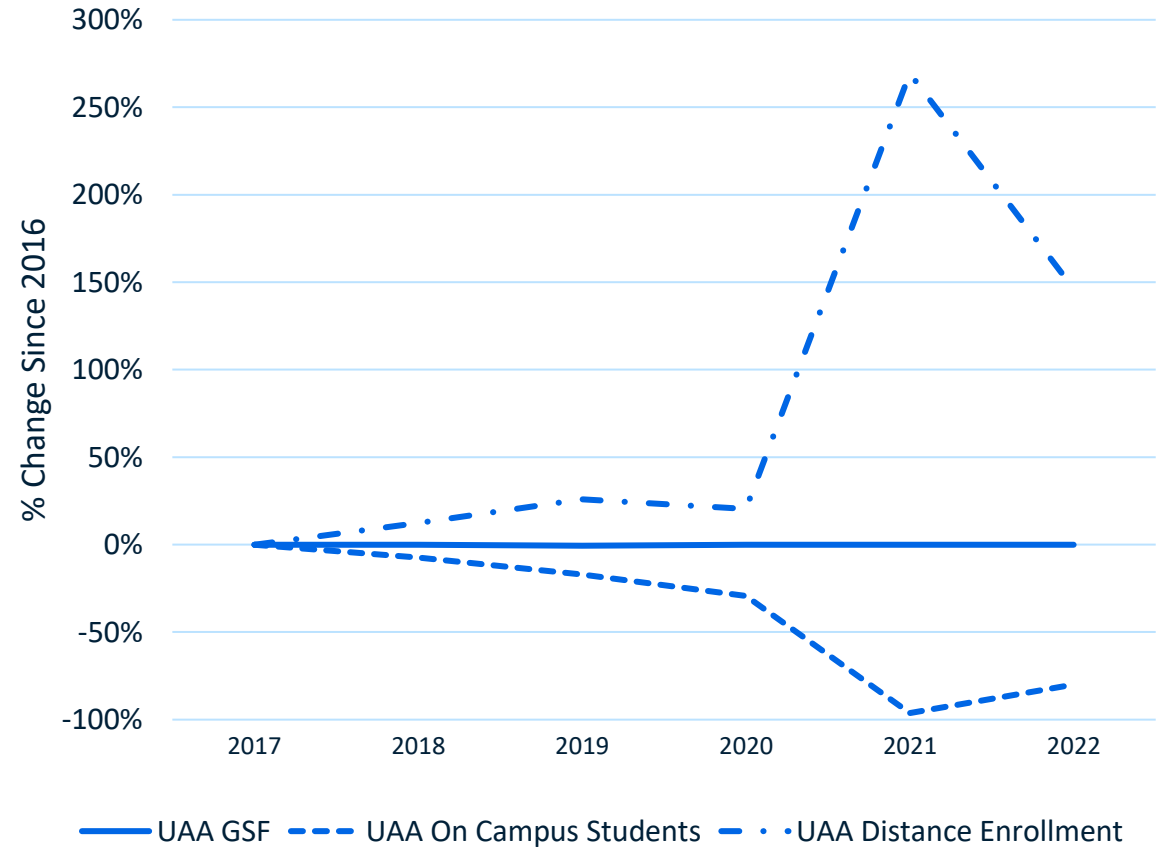


On-campus enrollment increased by 82% from FY21, still below Pre-Pandemic levels by 76%

University of Alaska – Anchorage On Campus Enrollment



University of Alaska – Anchorage Change in Distance Enrollment

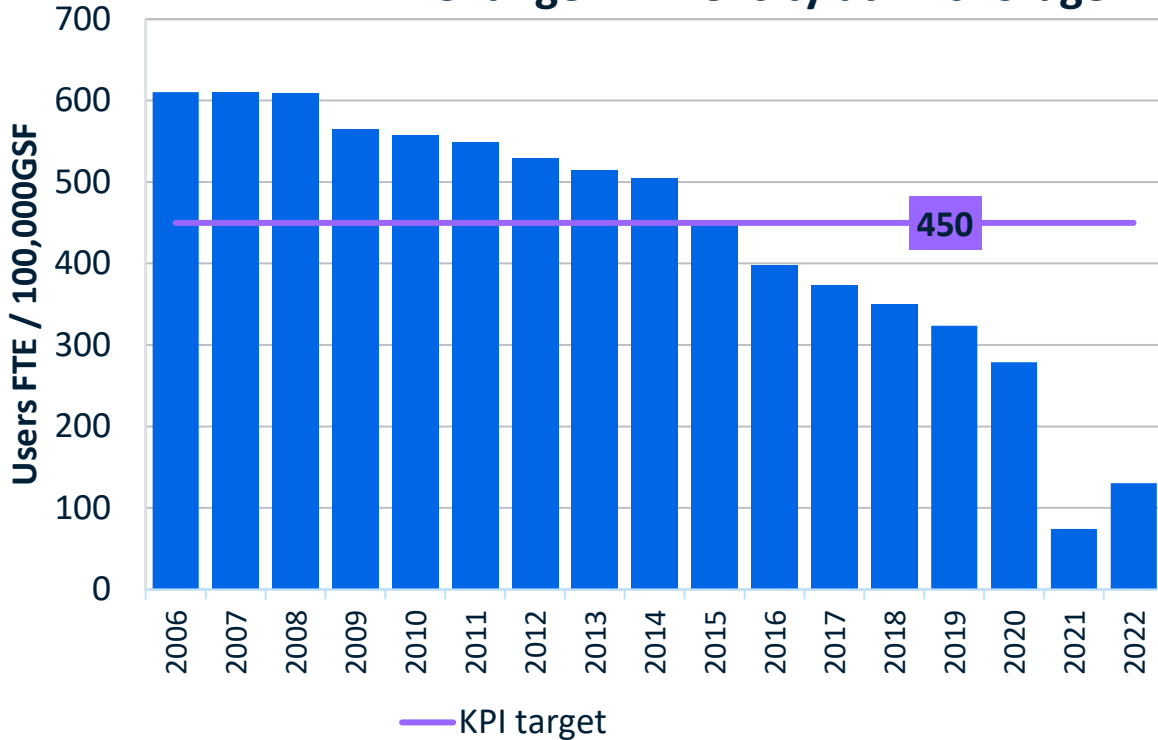


Minimal Student Presence Results in Density Decline

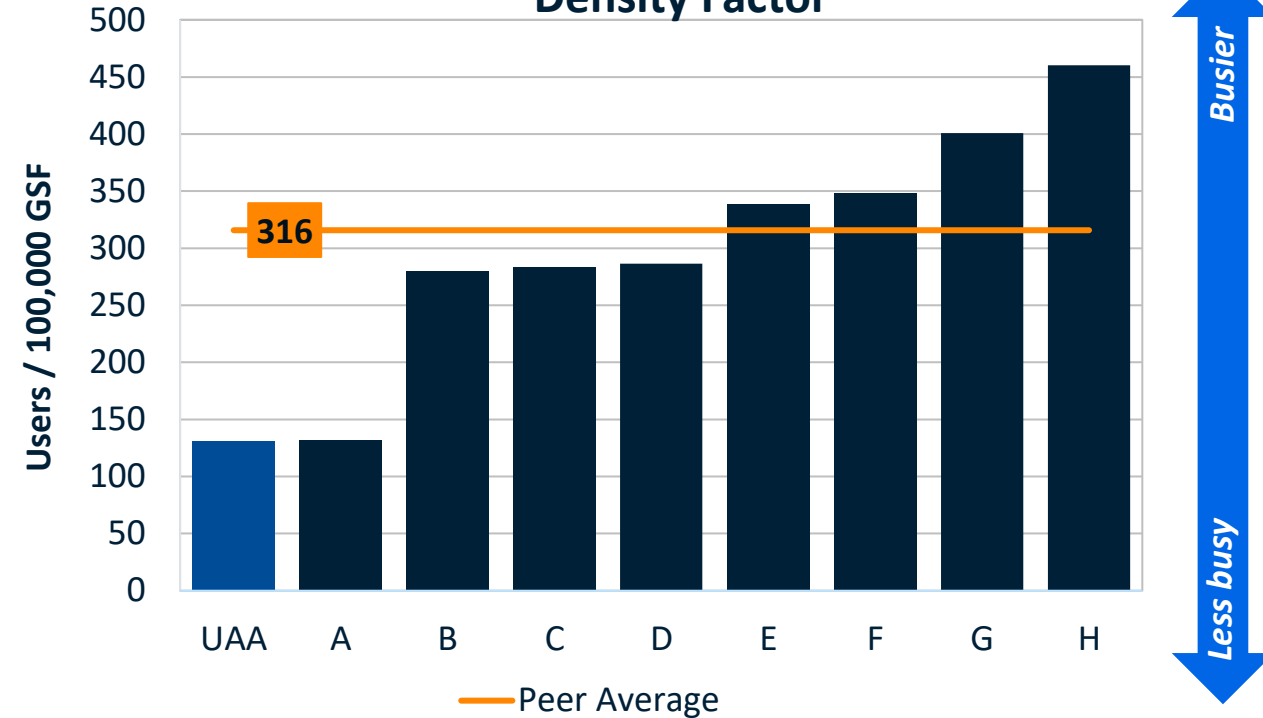


In FY22 students continued to favor distance delivery education

Change in *Density at Anchorage



*Density Factor



Areas Impacted by Density Factor

Wear and Tear on Space	Custodial Operations	Energy Demand
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*Density is calculated using On-Campus Student FTEs, Faculty FTE, and Staff FTE

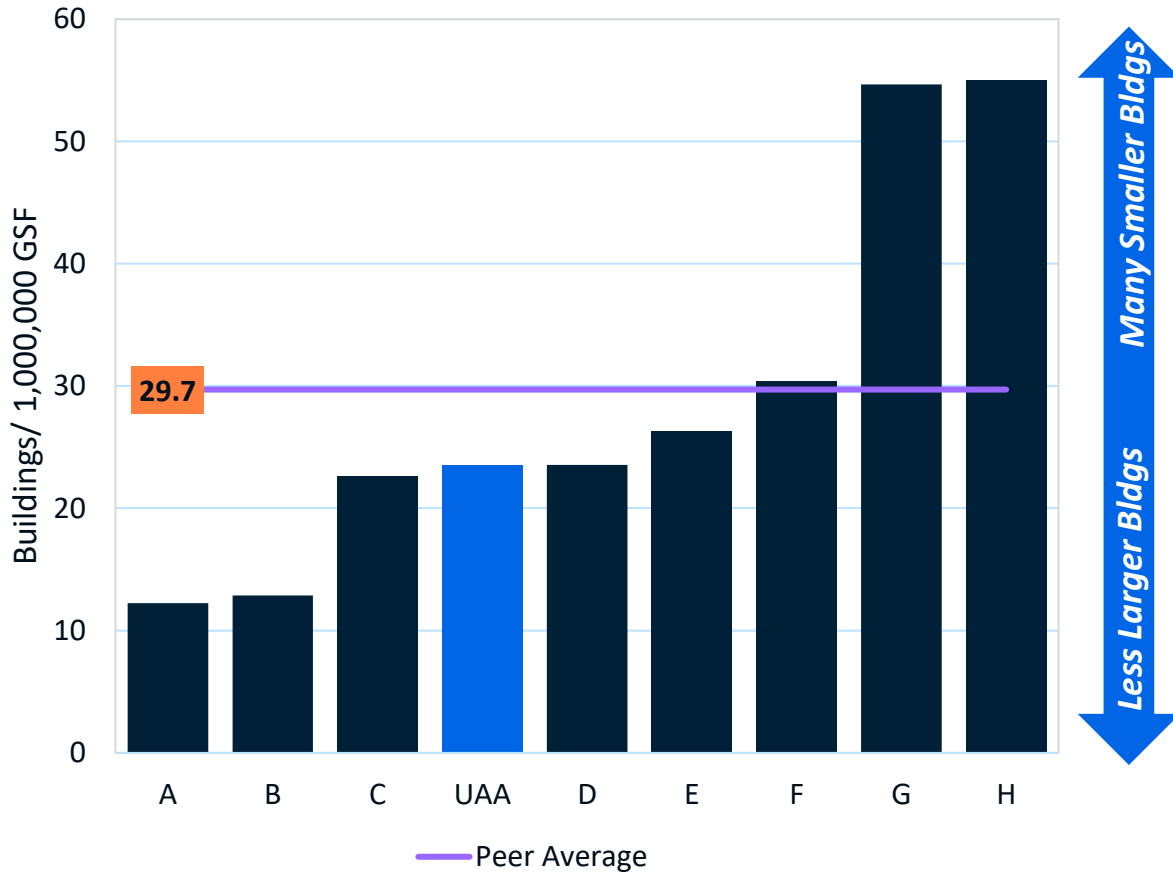
Institutions arranged by Density Factor

Qualifying Metrics – Building and Grounds Intensity

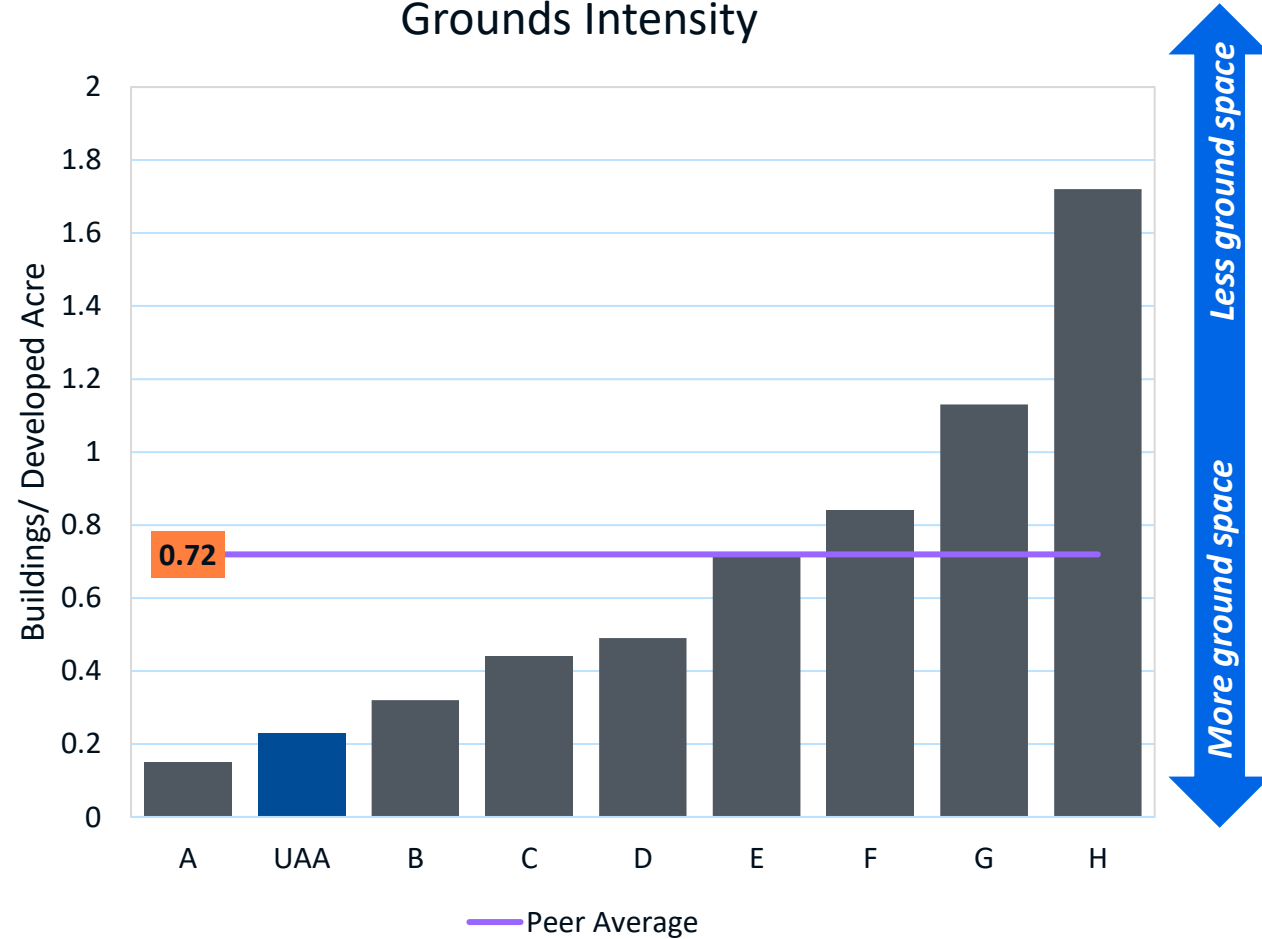


Anchorage has larger buildings and fewer buildings per acre than peers

Building Intensity



Grounds Intensity

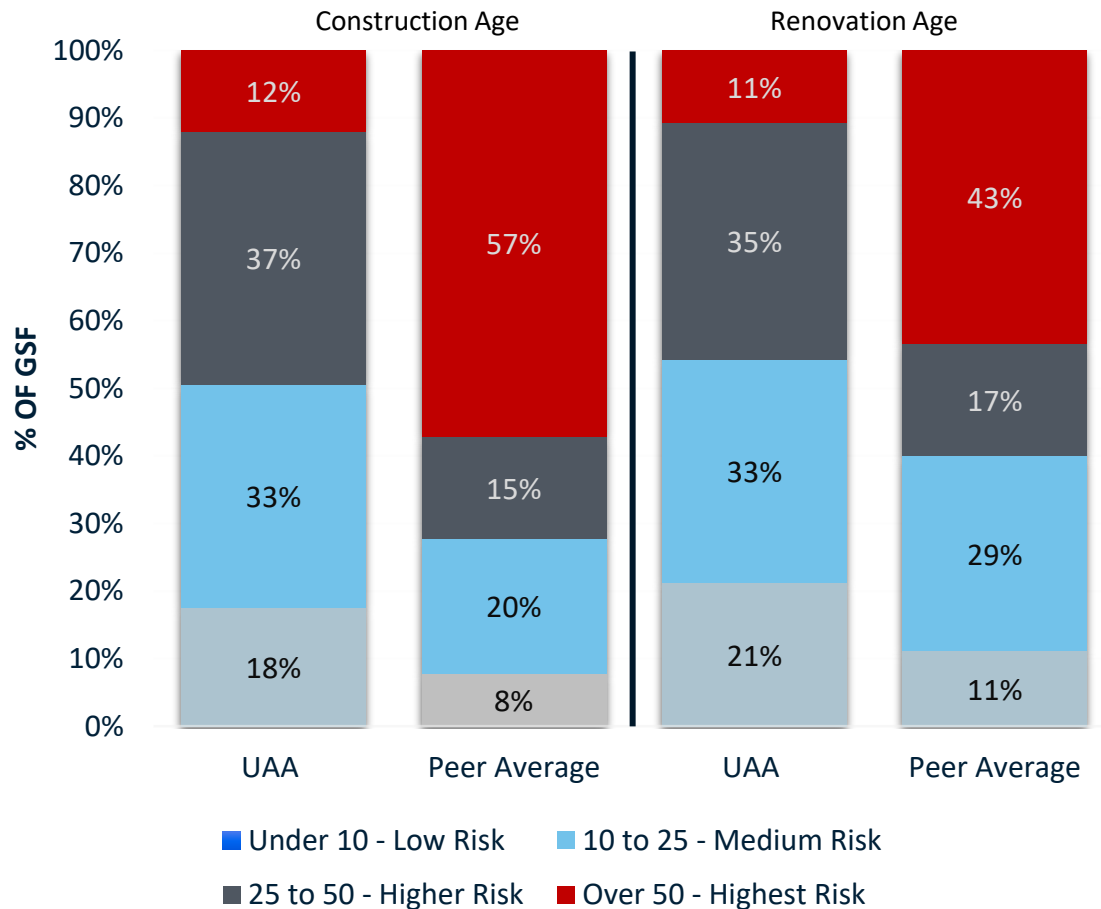


Recent Construction and Renovations Reduce Age



Peers have primarily reduced campus age through renovations, not construction

Campus Age by Category



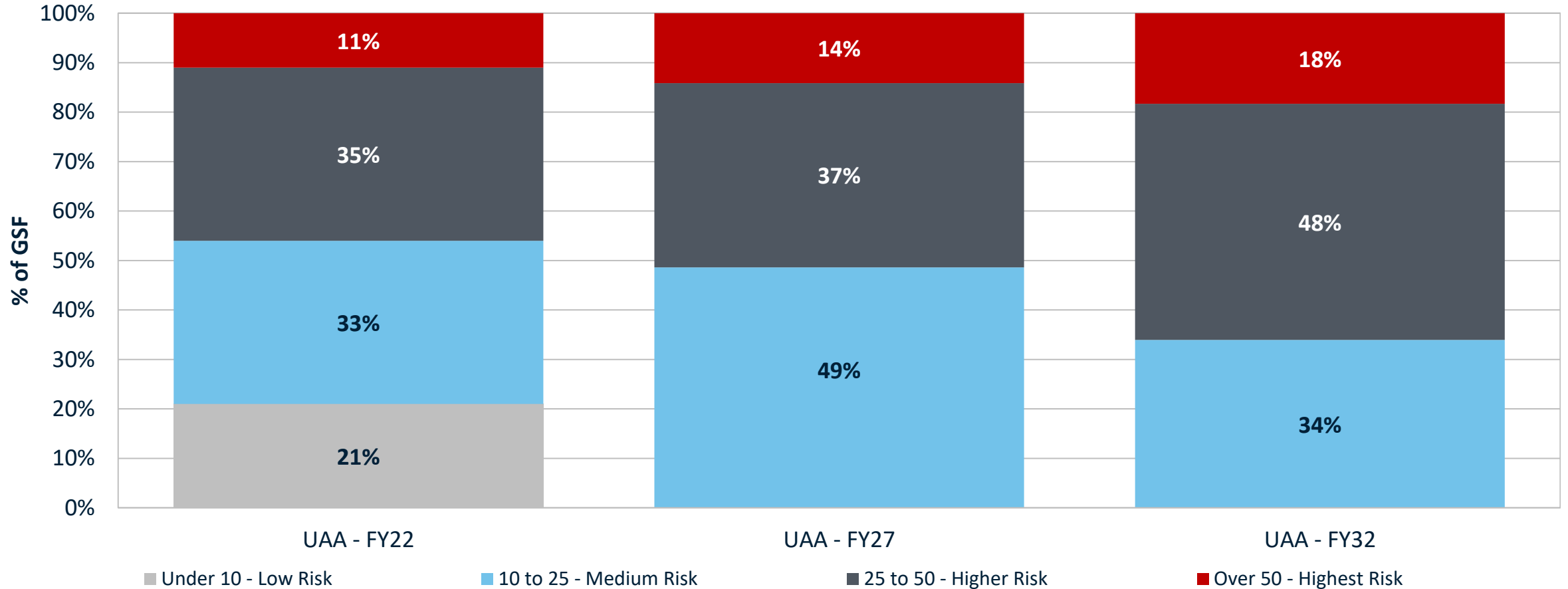
	Operational Demands:	Capital Risk:
Over 50	React as Needed: Issues in components past the end of their lifecycles will demand reactive maintenance.	Highest Risk: Life cycles of major components past due – end of building life cycle approaching.
25-50	Balance PM and Reactive Maintenance: Younger components still require PM. Aging components require reactive maintenance.	Higher Risk: Life Cycles coming due in core building components.
10-25		Medium Risk: Lower cost space renewal updates needed.
Under 10	Focus on PM: Significant need for PM in young systems.	Low Risk: “Honeymoon” period – little need for capital reinvestment.

UAA Will See Dramatic Campus Shifts in 5, 10 years



In five years, 51% of campus will be over 25 years of age, causing capital & operational strain

Campus Renovation Age by Category

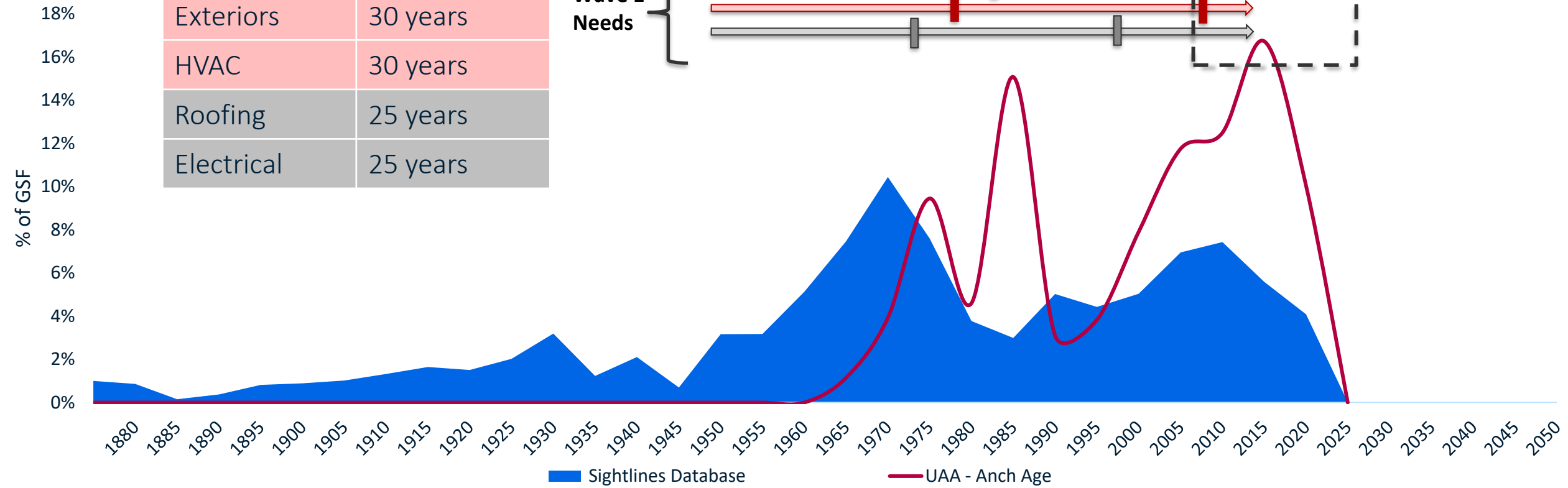
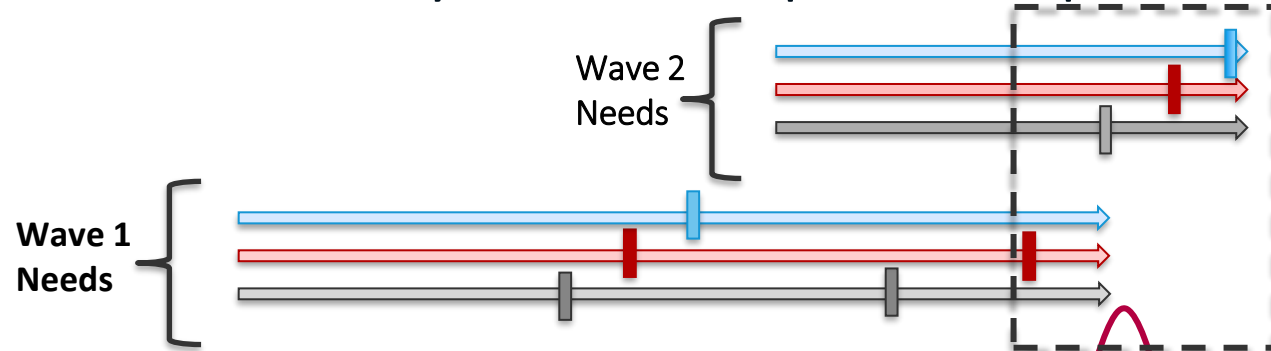


UAA Has two Distinct Waves of Construction



As UAA facilities age 1st wave and 2nd wave lifecycles will compete for capital resources

System	Life Cycle
Plumbing	35 years
Exteriors	30 years
HVAC	30 years
Roofing	25 years
Electrical	25 years

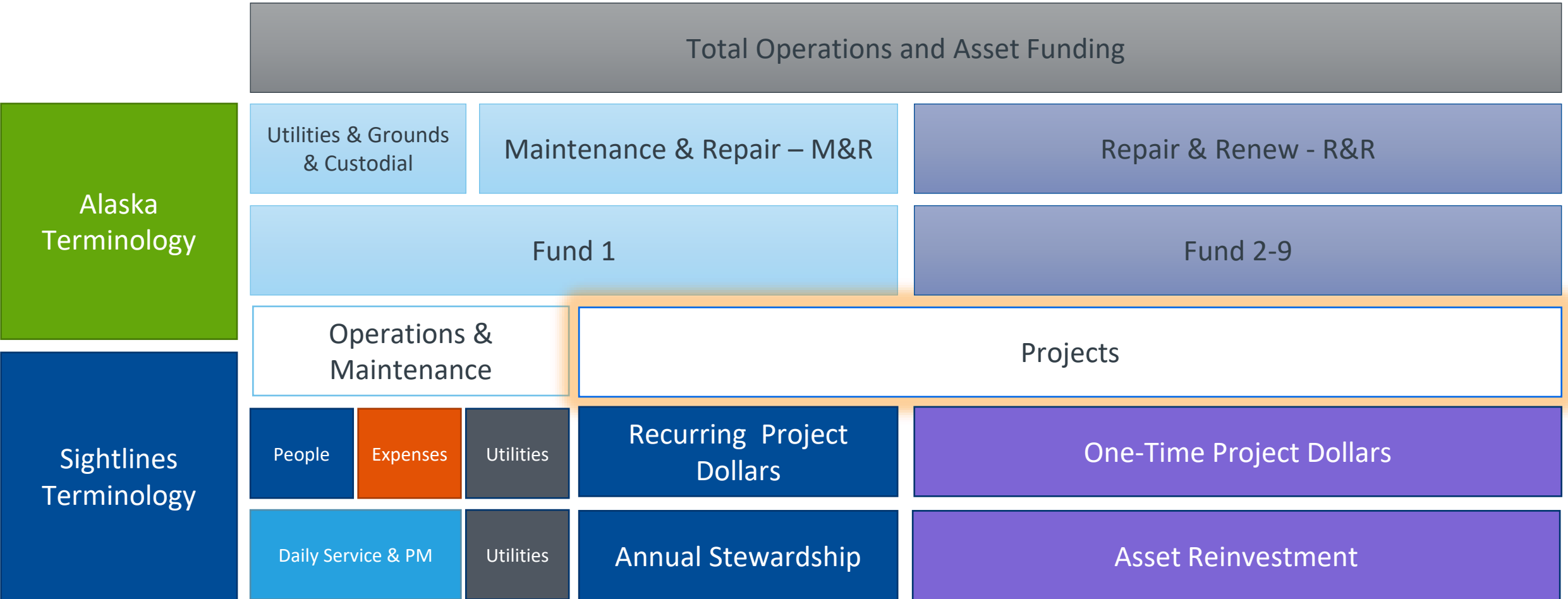




Capital Profile

Anchorage Campus

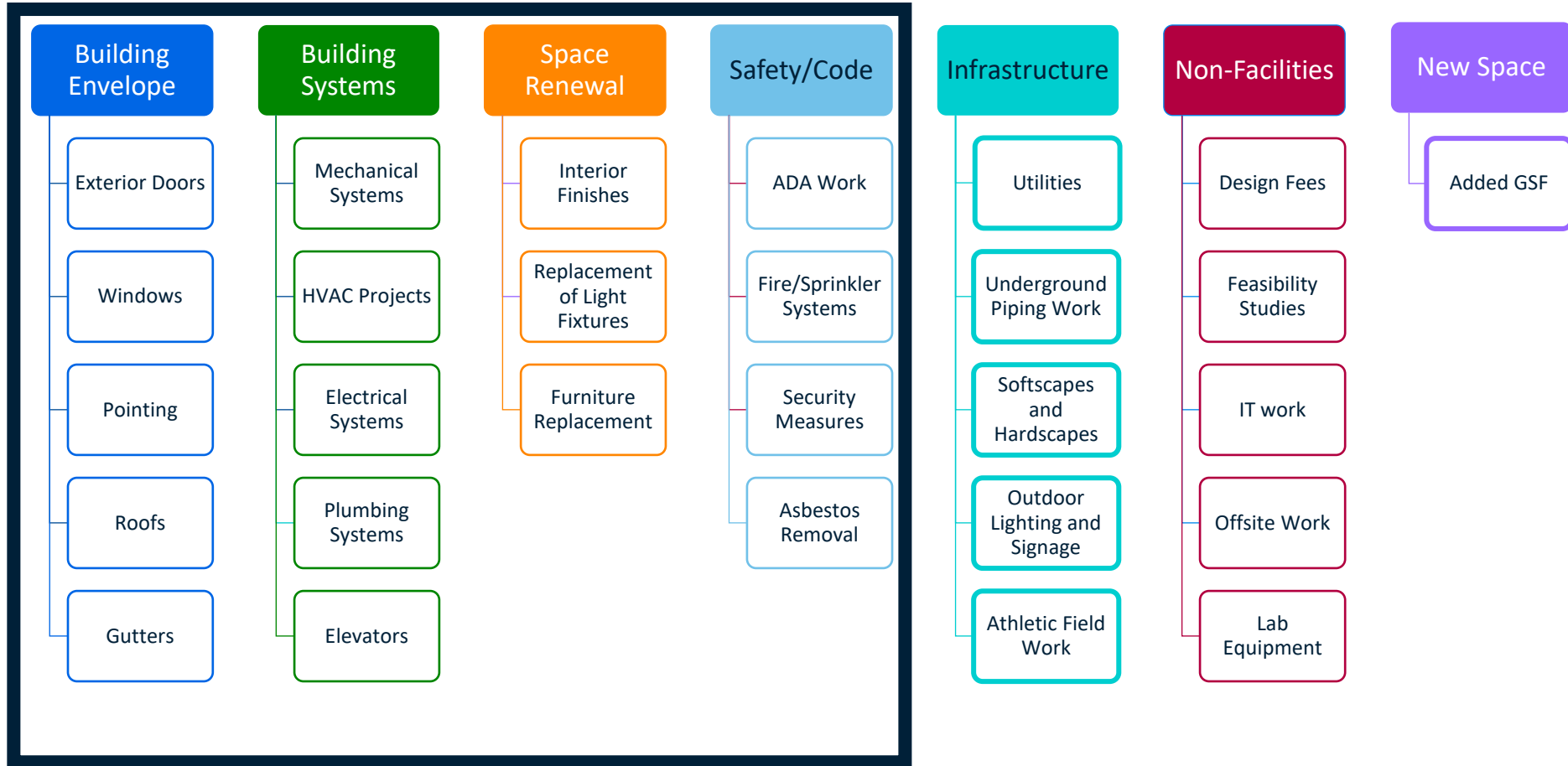
Capital Funding Sources



Sightlines Package Breakouts



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

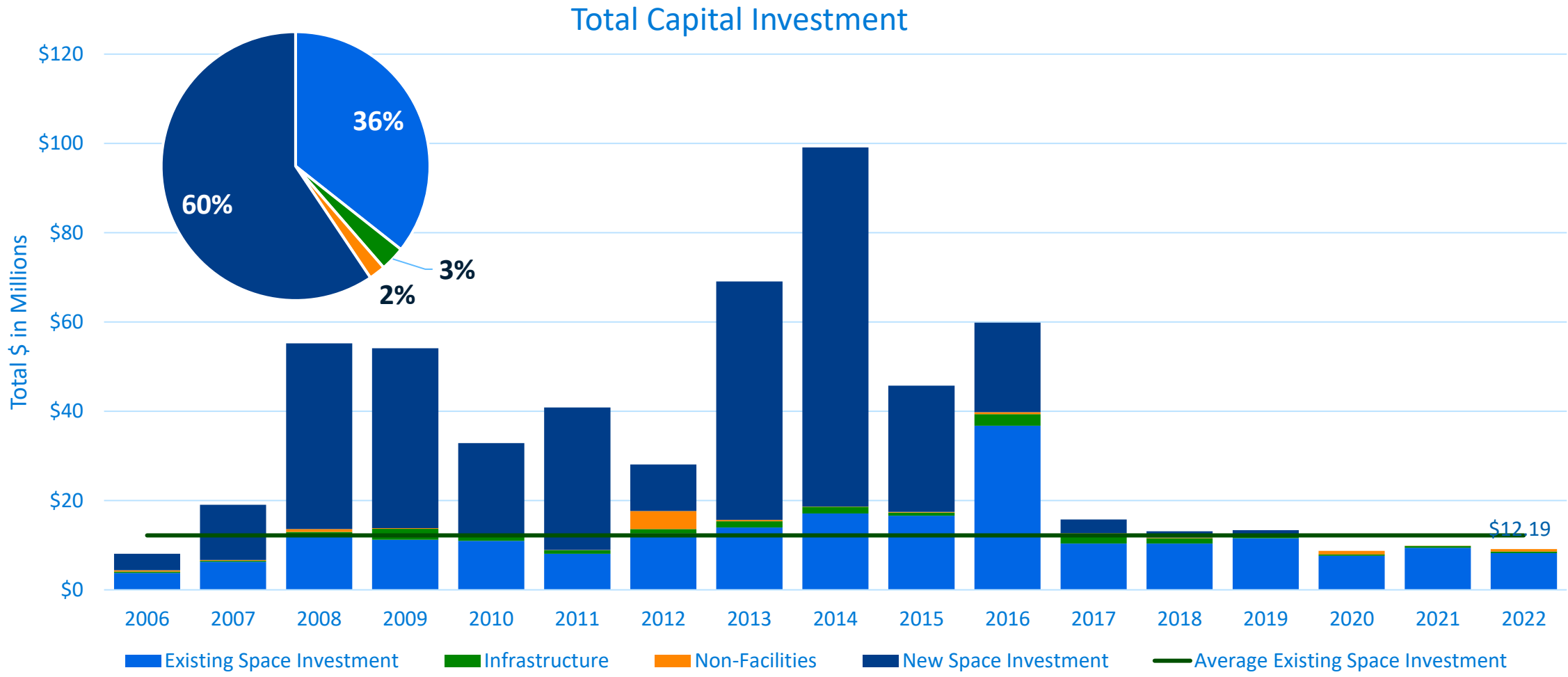


Existing Space

UAA Should Focus Capital Investment into Existing Space



Investments into New Space have caused deferral of assets in existing buildings



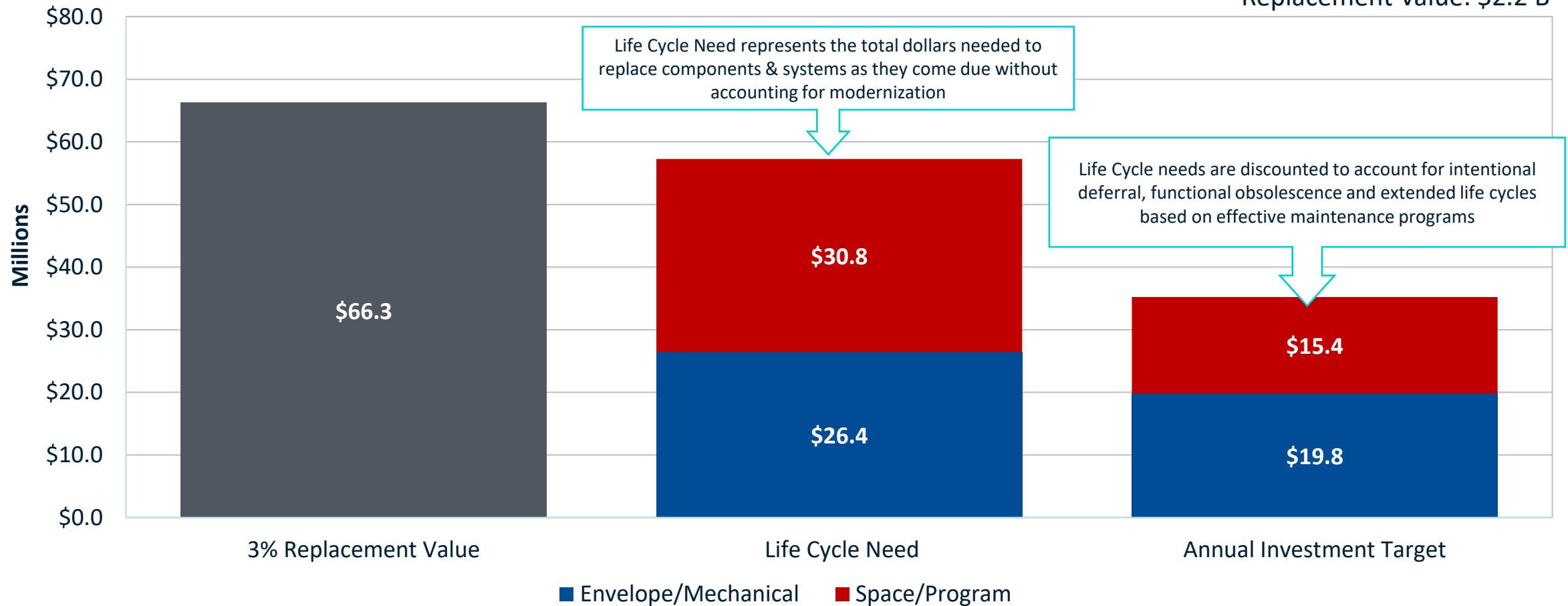
Annual Investment Target At UAA, Institution Wide



Annual Funding Target: \$35.2 M

FY22 Annual Investment Target

Replacement Value: \$2.2 B

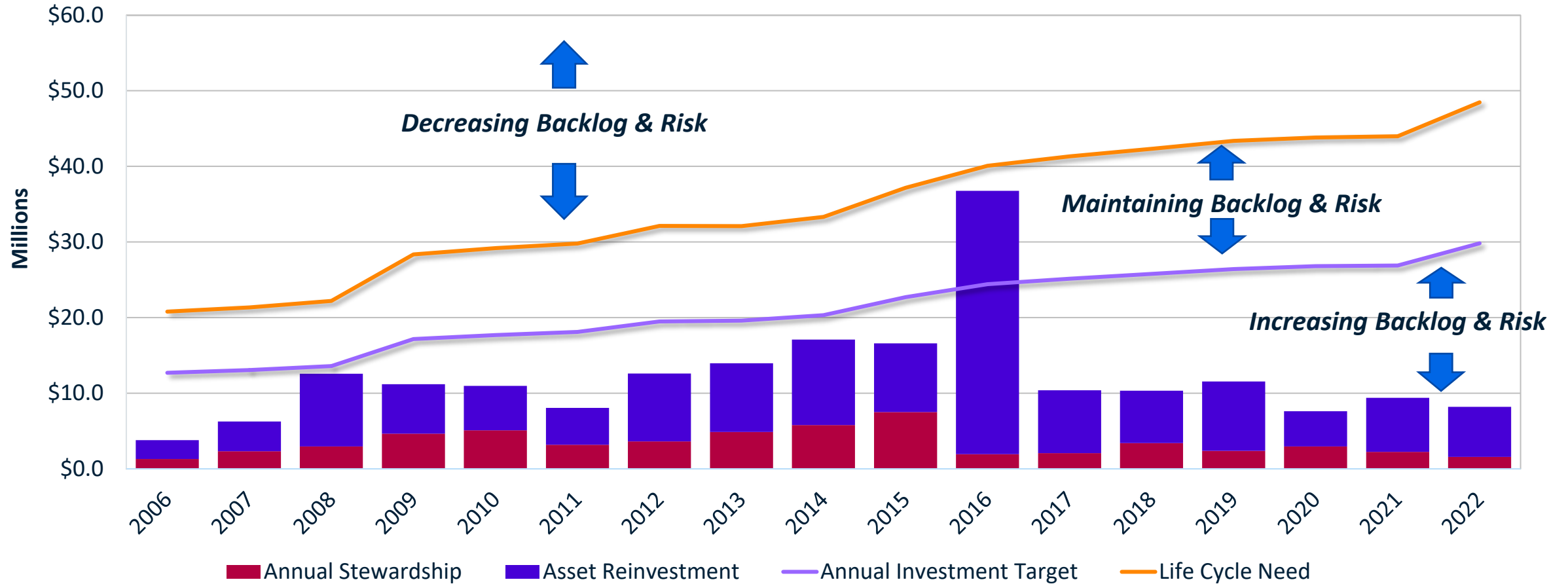


Capital Investment Falls Short of Target at Anchorage



Capital investment should be increased to reduce backlog and operational strain

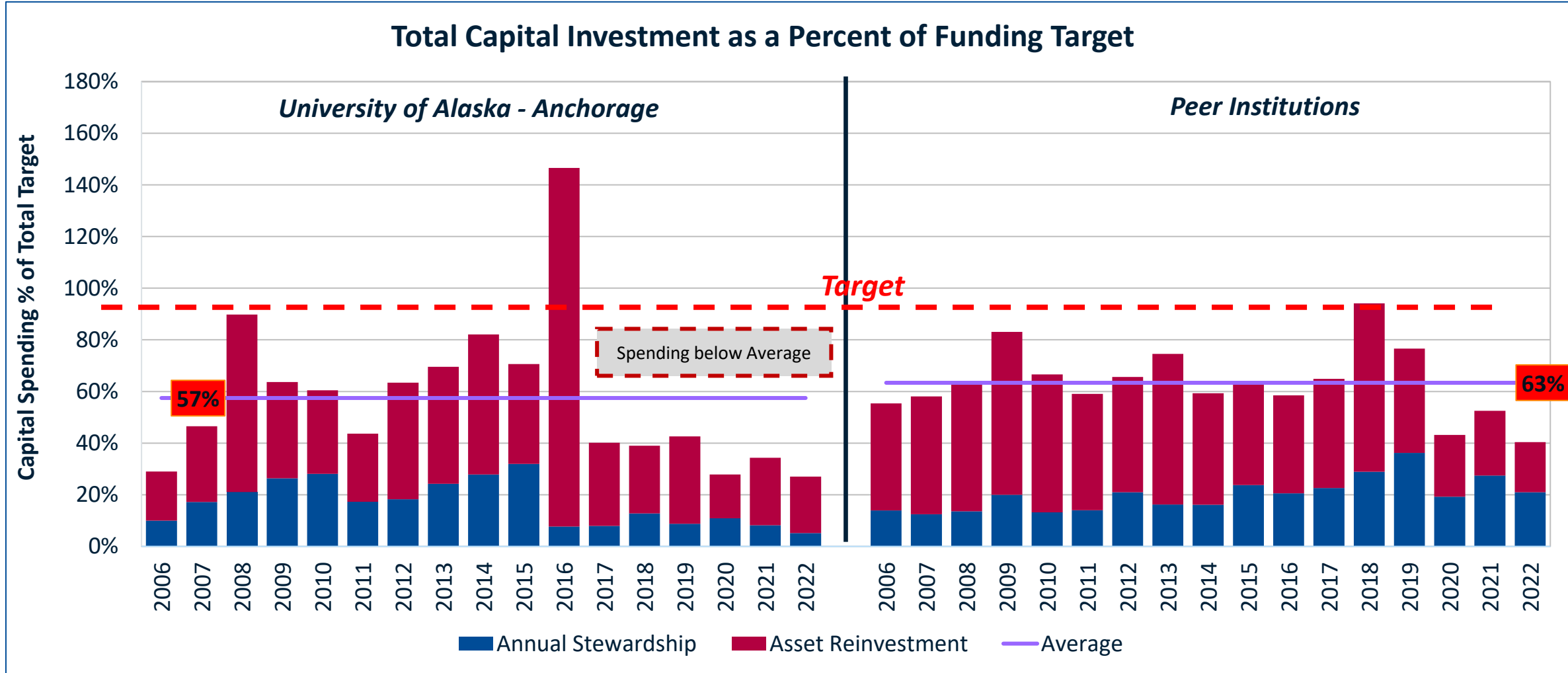
Total Capital Investment vs. Funding Target



Annual Stewardship has Diminished in Recent Years



Since FY17 Anchorage spending has averaged to 35% of target, peers 62%

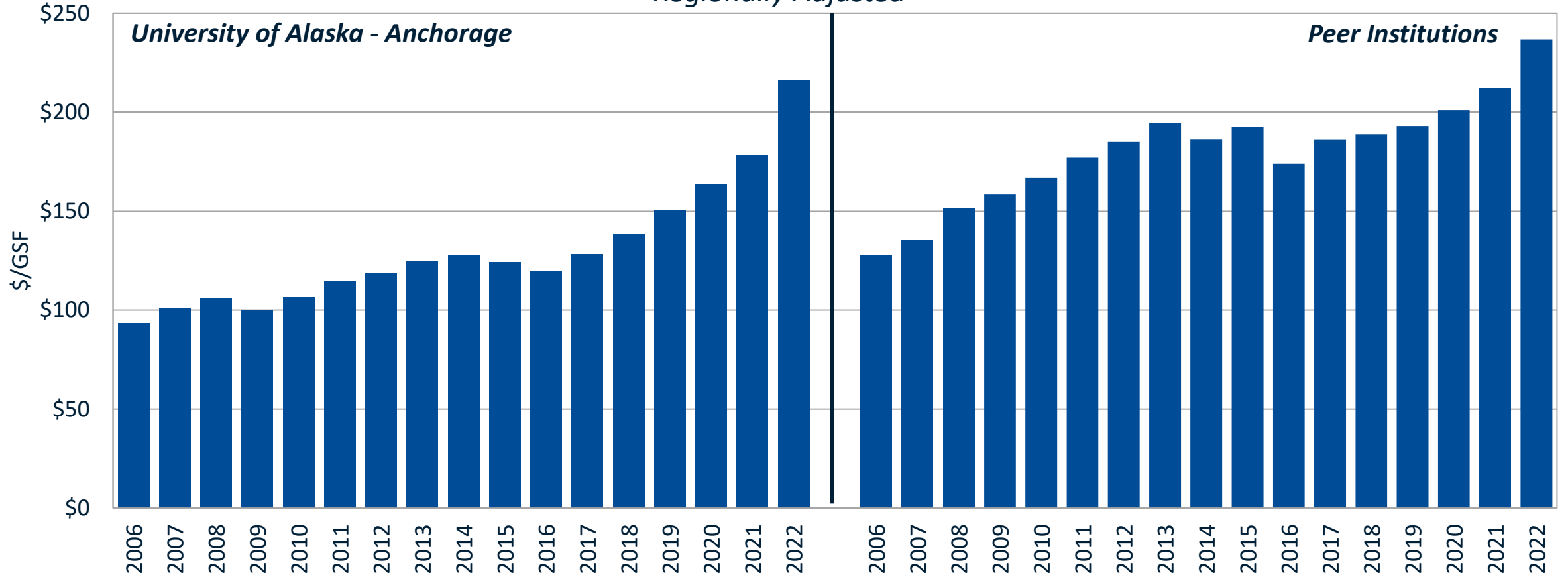


Total Need Grows as Funding Decreases



UAA has seen AR increase at a faster rate than peers since FY16 due to lack of investment

Total Asset Reinvestment Need \$/GSF
Regionally Adjusted



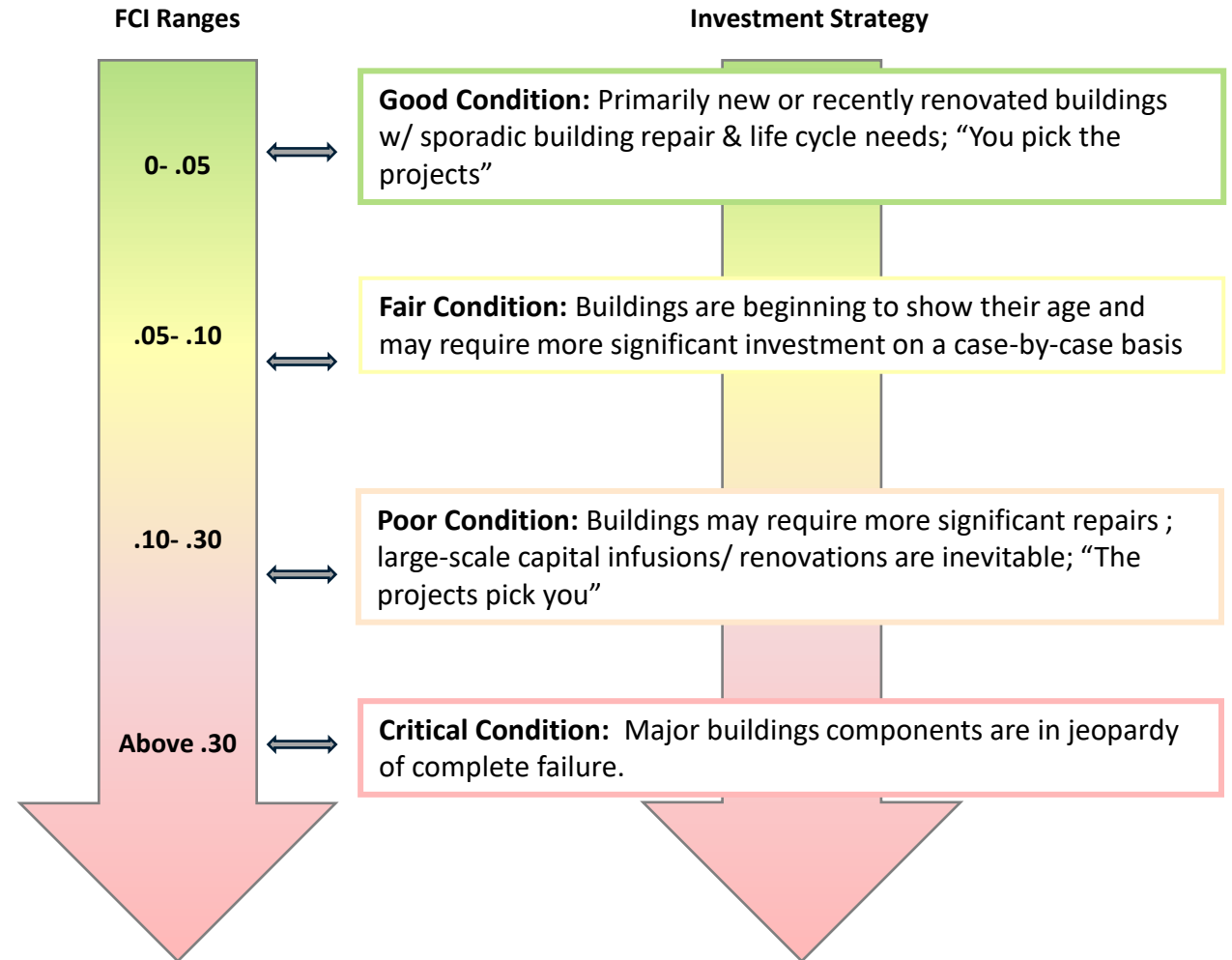
Facilities Condition Index



Condition based investment strategy

$$\text{FCI} = \frac{\text{Backlog}}{\text{Replacement Value}}$$

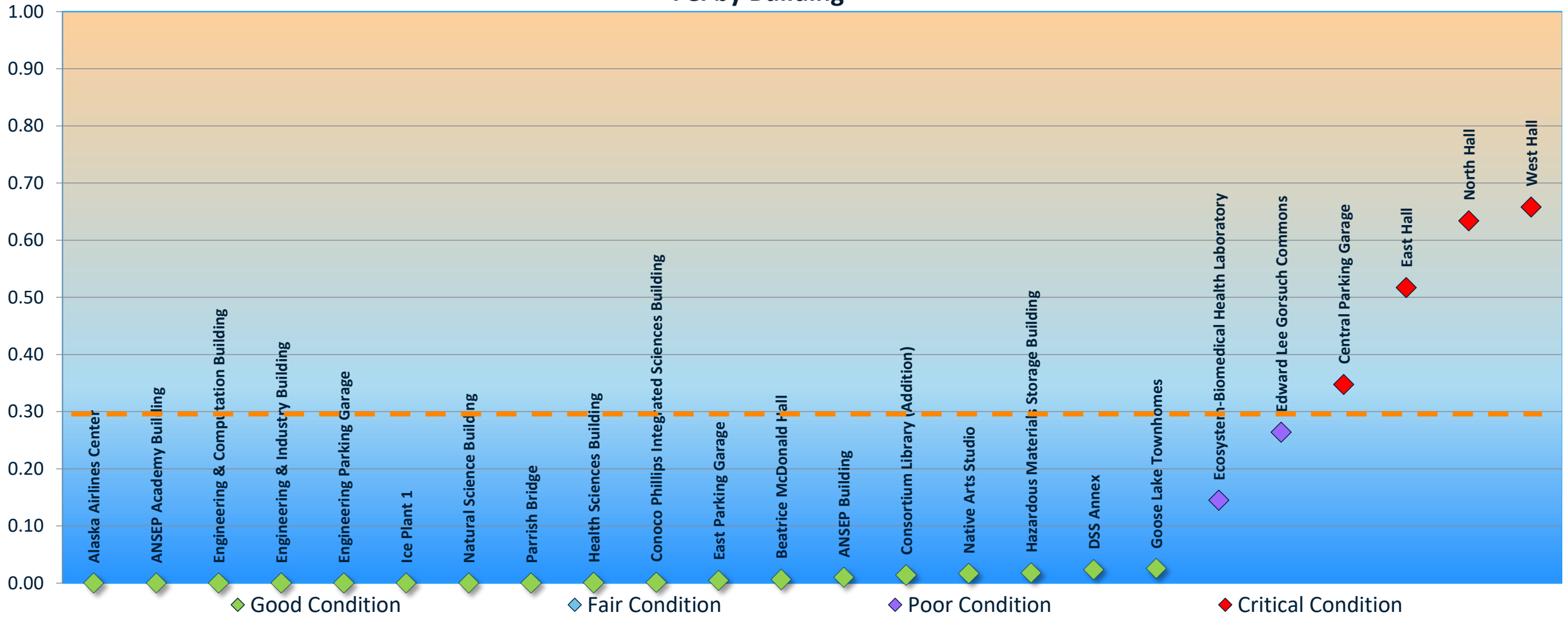
Campus leadership can use FCI categories for different buildings and portfolios, helping to balance capital investments across campus and prioritize project selection



Facilities Condition Index – Buildings Under 25 Years



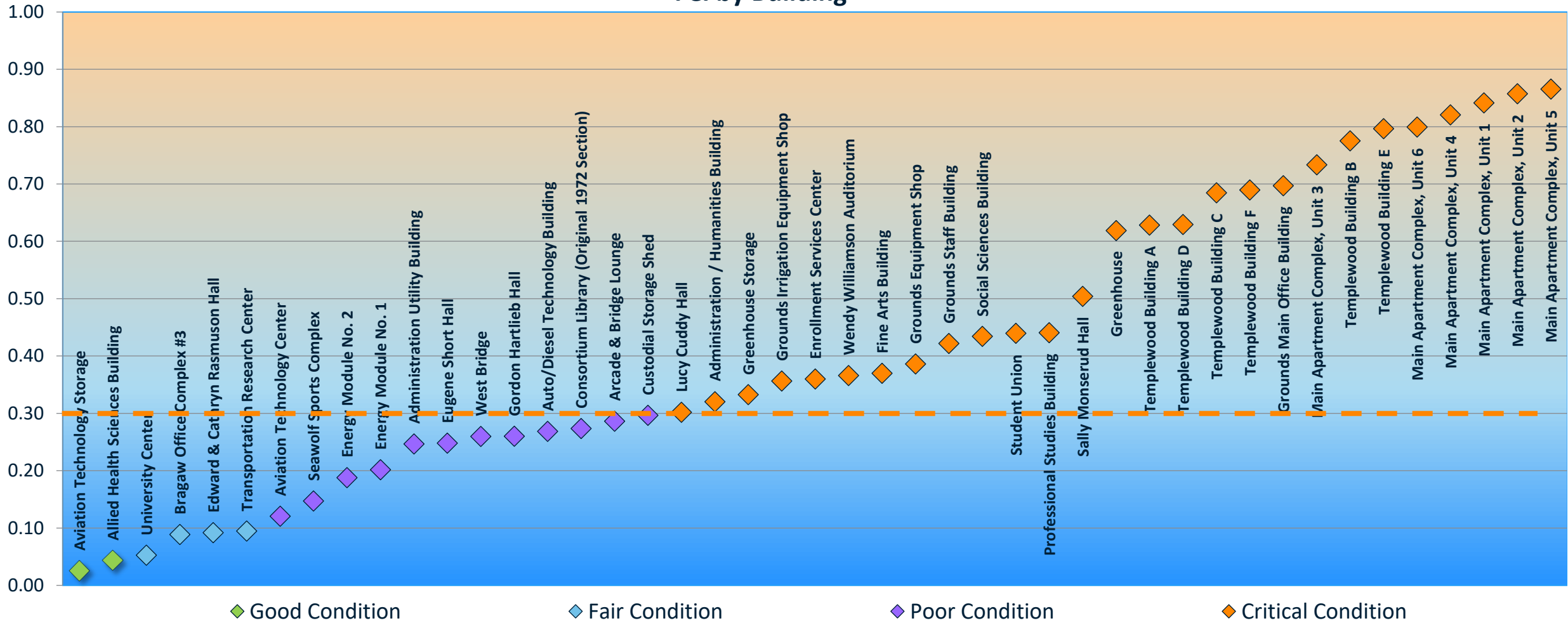
FCI by Building



Facilities Condition Index – Buildings Over 25 Years



FCI by Building

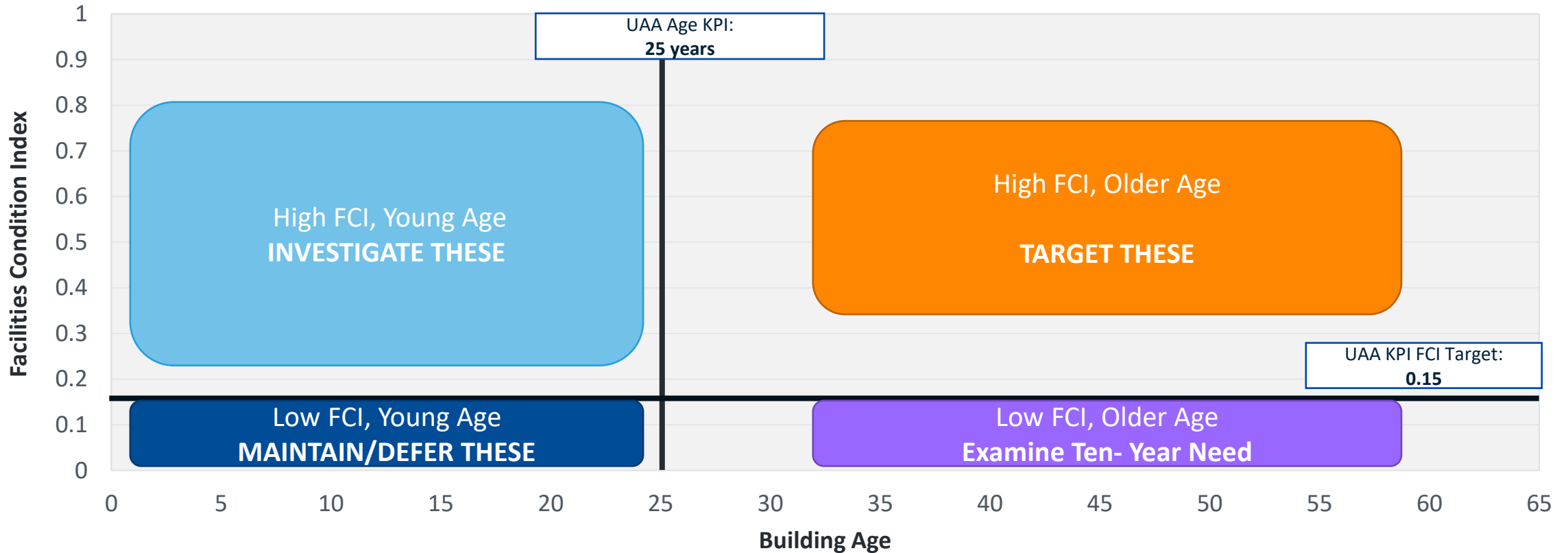


KPI Impact- Analyzing Age and Building Condition



Identifying costly buildings can help focus future capital investment

FCI by FY22 Renovation Age

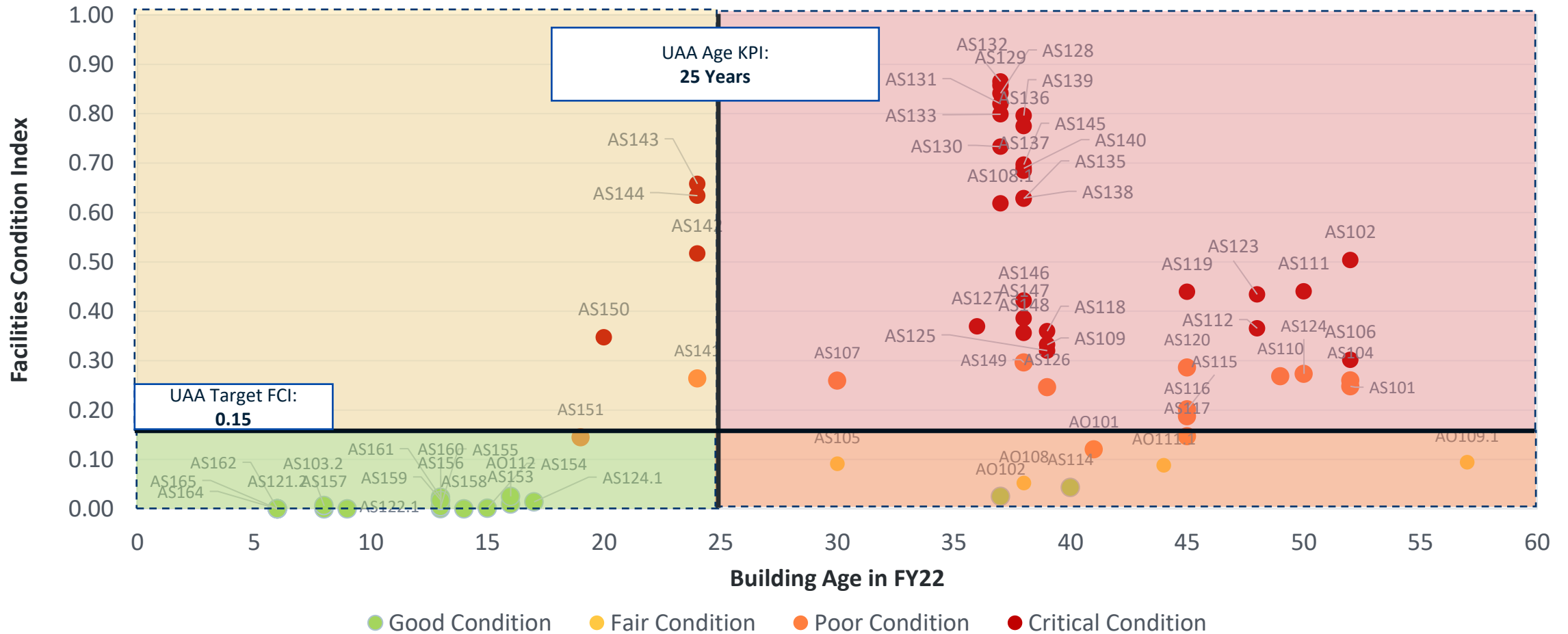


KPI Impact- Analyzing Age and Building Condition



Identifying older, high need buildings, can help shape investment strategy

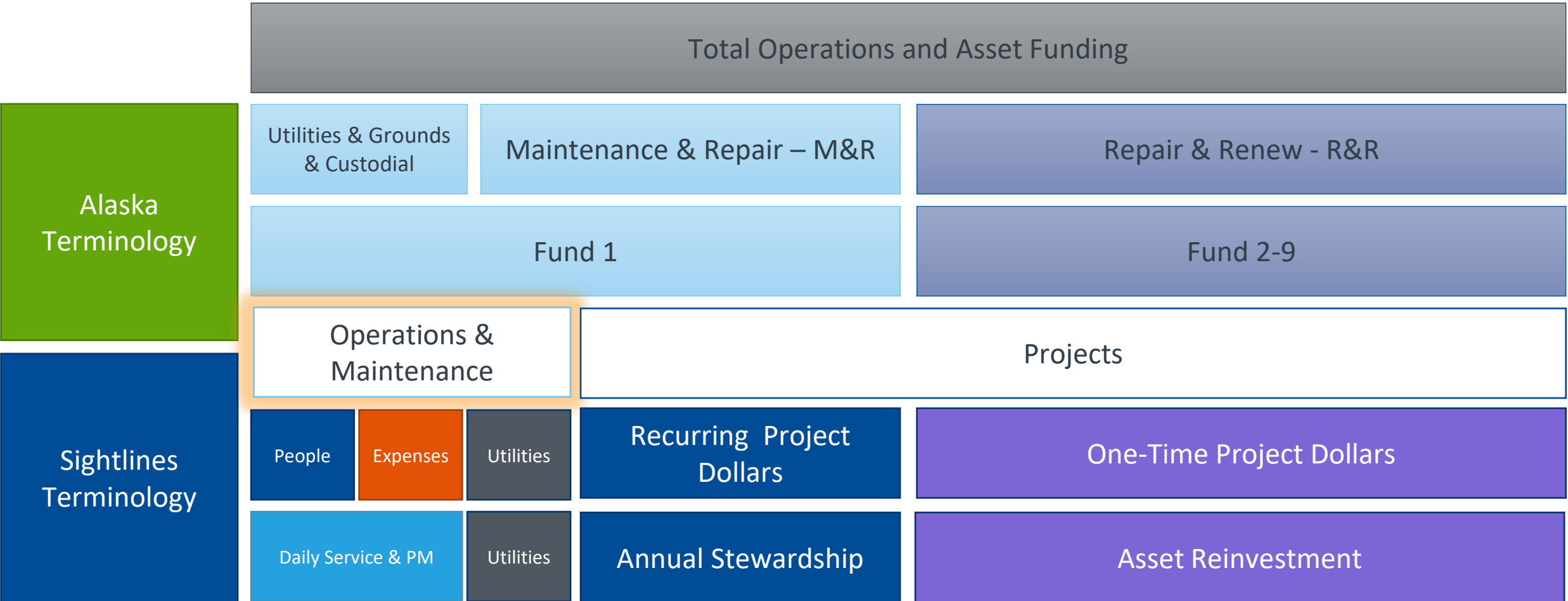
FCI by FY22 Renovation Age





Operations Success:
Anchorage Campus

Capital Funding Sources

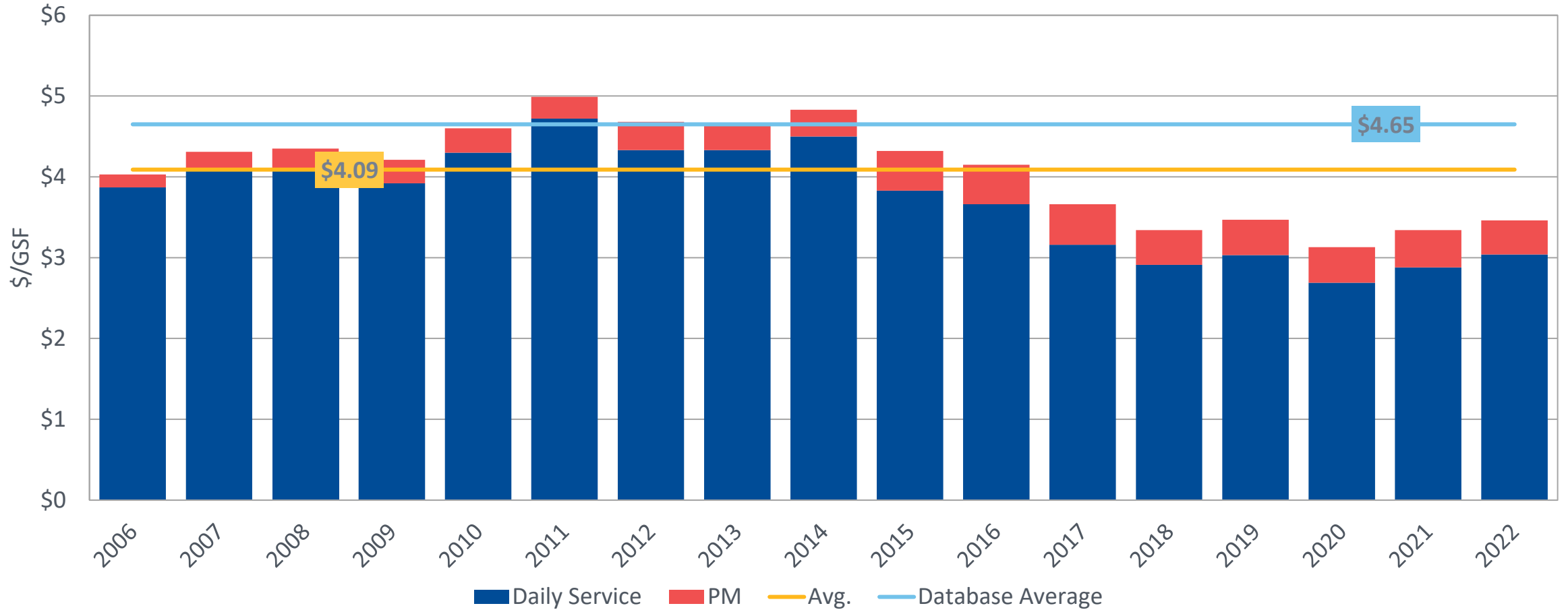


Facilities Operating Expenditures



Anchorage operates with significantly less resources than Gordian database

Facilities Operating Actuals

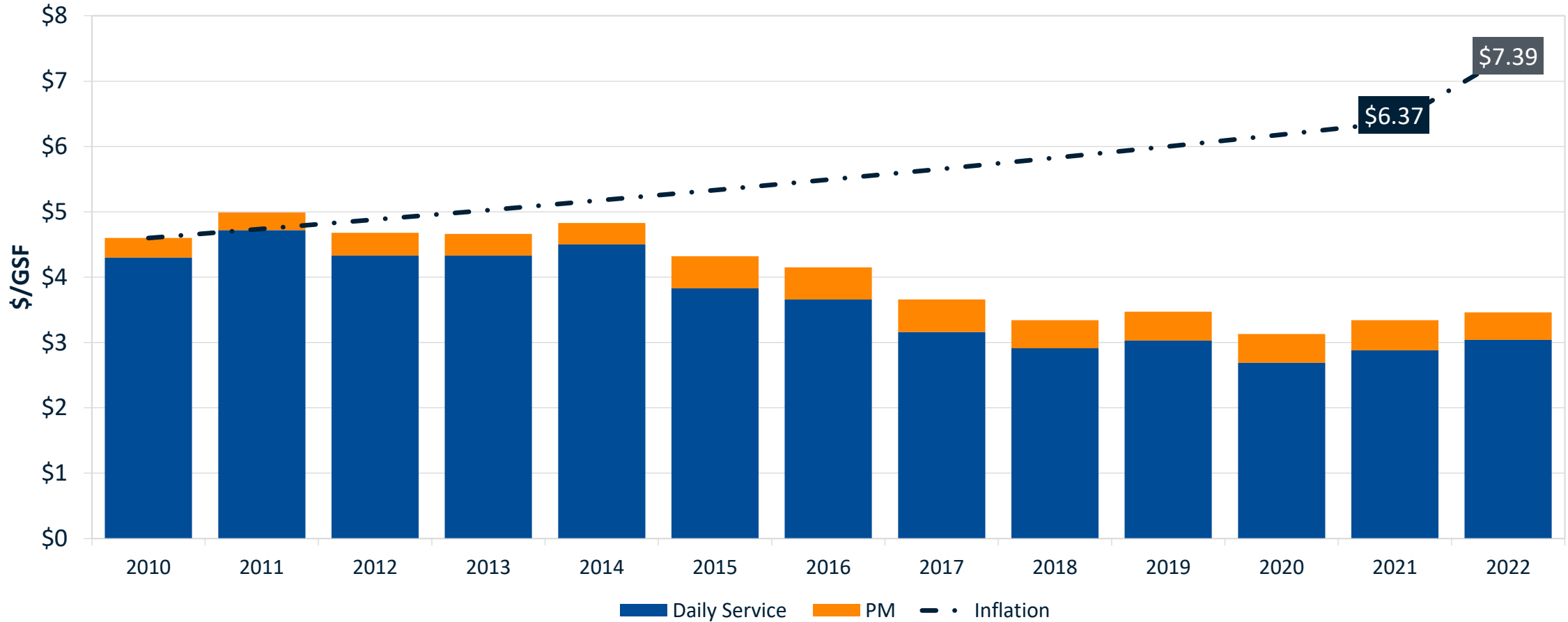


Budget Cuts Limit Purchasing Power



Operating spend is 50% less than if spending had kept up with inflation

Facilities Operating Actuals

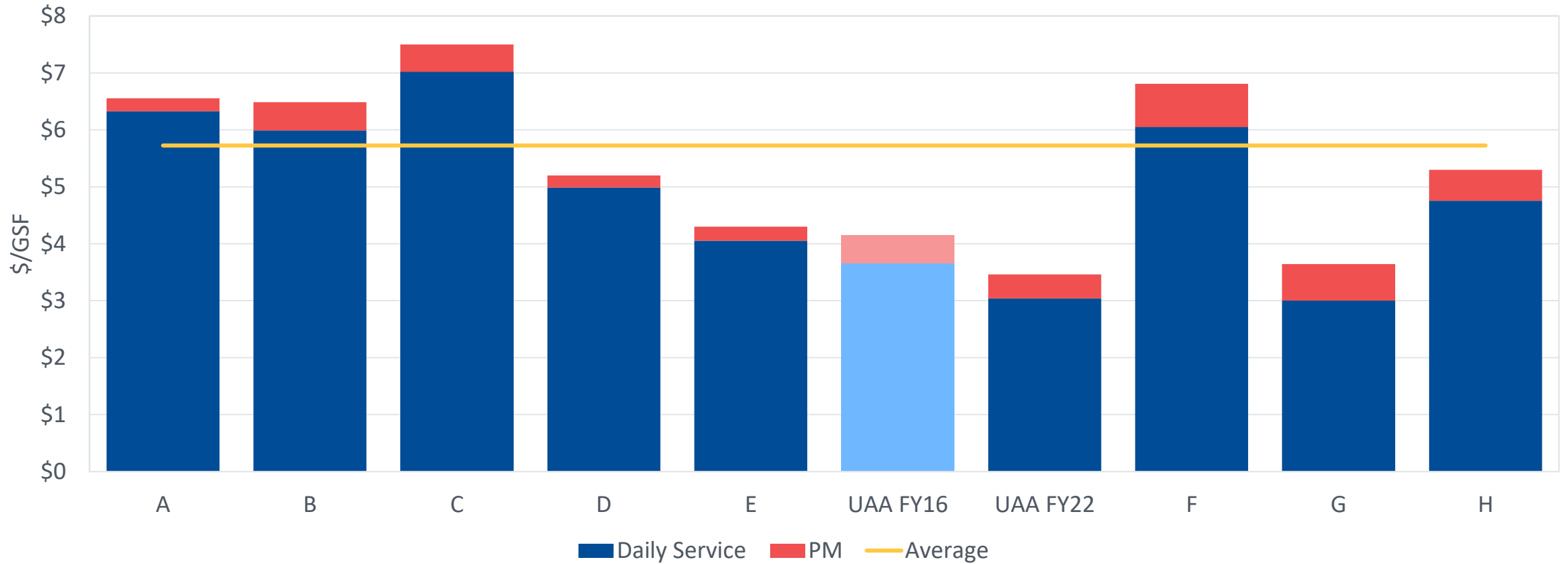


Facilities Operating Expenditures



Anchorage spends 40% less than peers on Daily Service

Facilities Operating Actuals
Regionally Adjusted

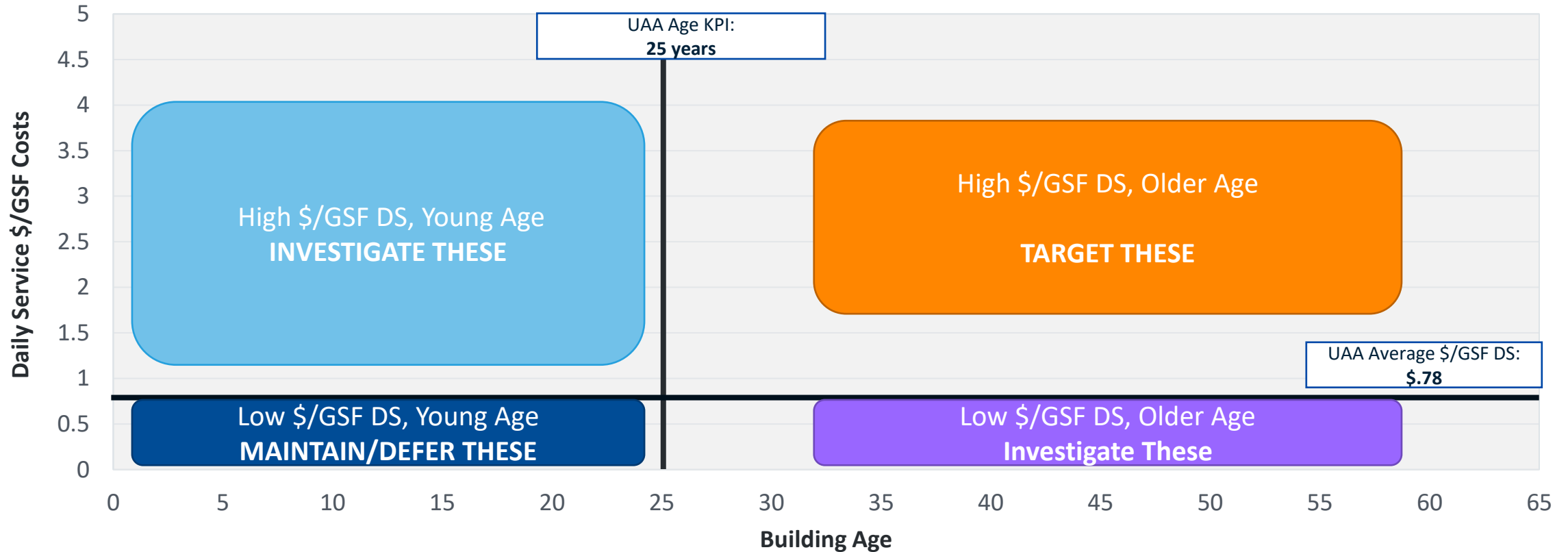


Analyzing Age and Corrective Maintenance



Identifying costly buildings can help focus future capital investment

Daily Service Costs by FY22 Renovation Age

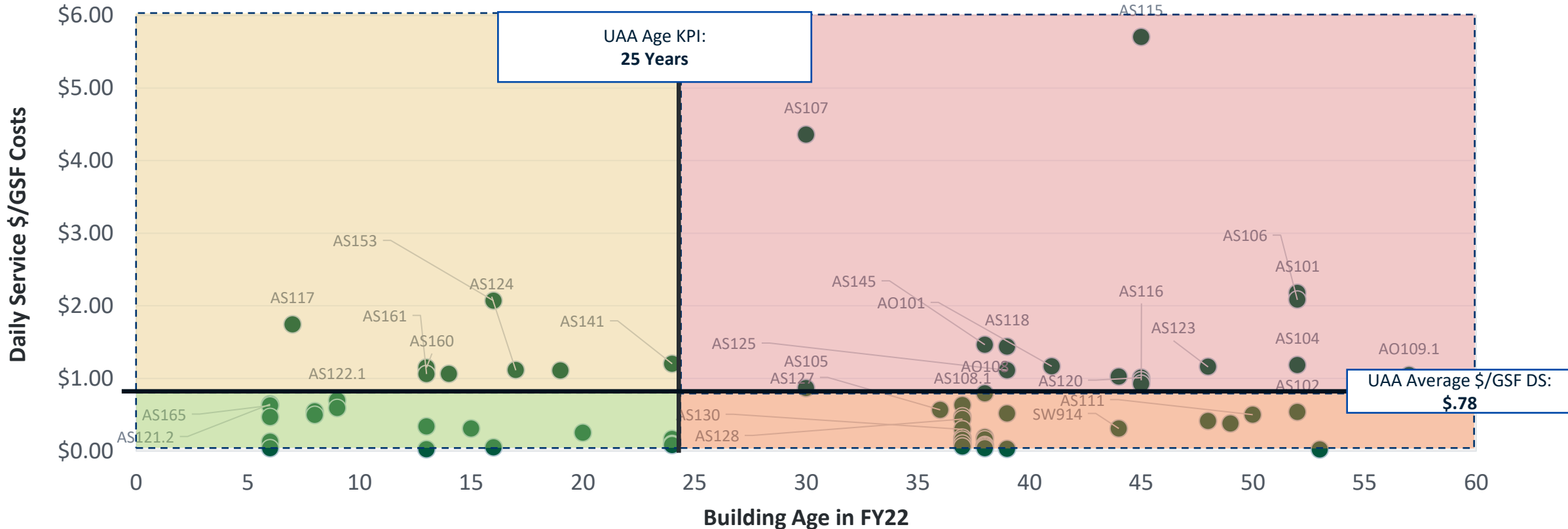


Analyzing Age and Corrective Maintenance



Identifying older, high need buildings, can help shape investment strategy

Daily Service Costs by FY22 Renovation Age

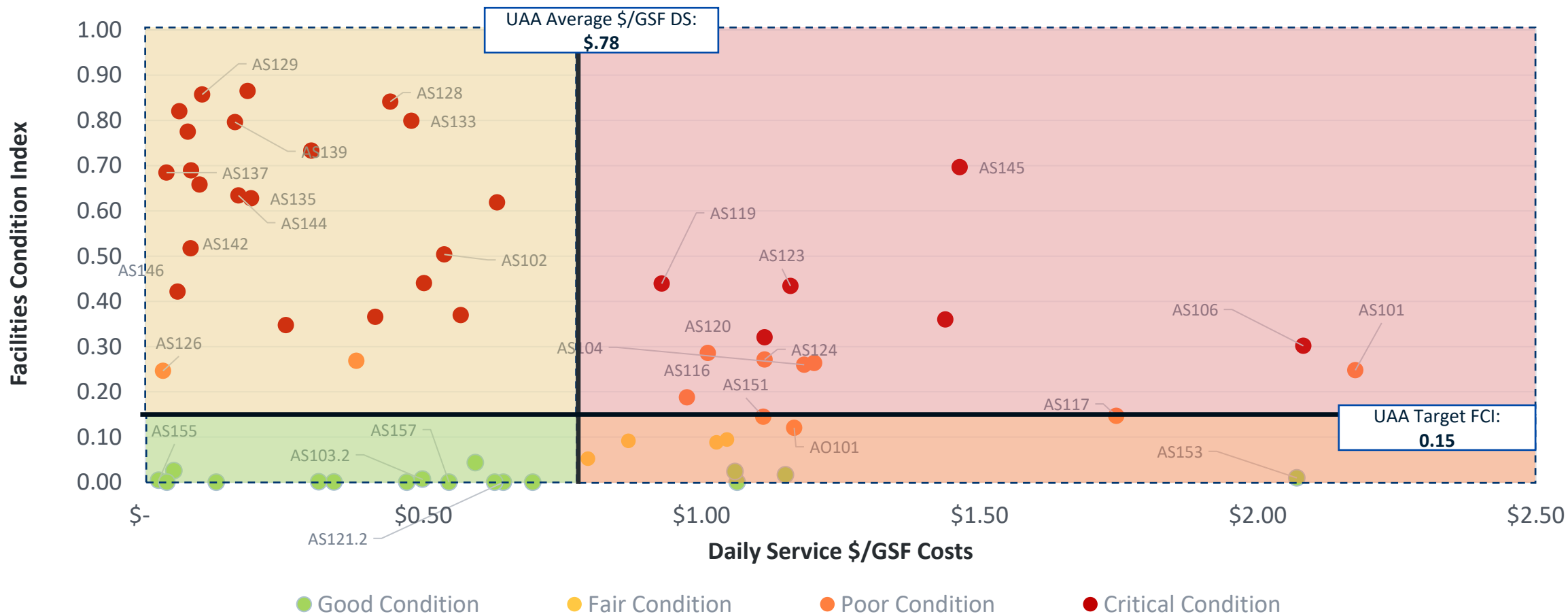


Analyzing FCI and Corrective Maintenance



Identifying buildings with high operational and capital need, can determine investments

Daily Service Costs by FY22 FCI

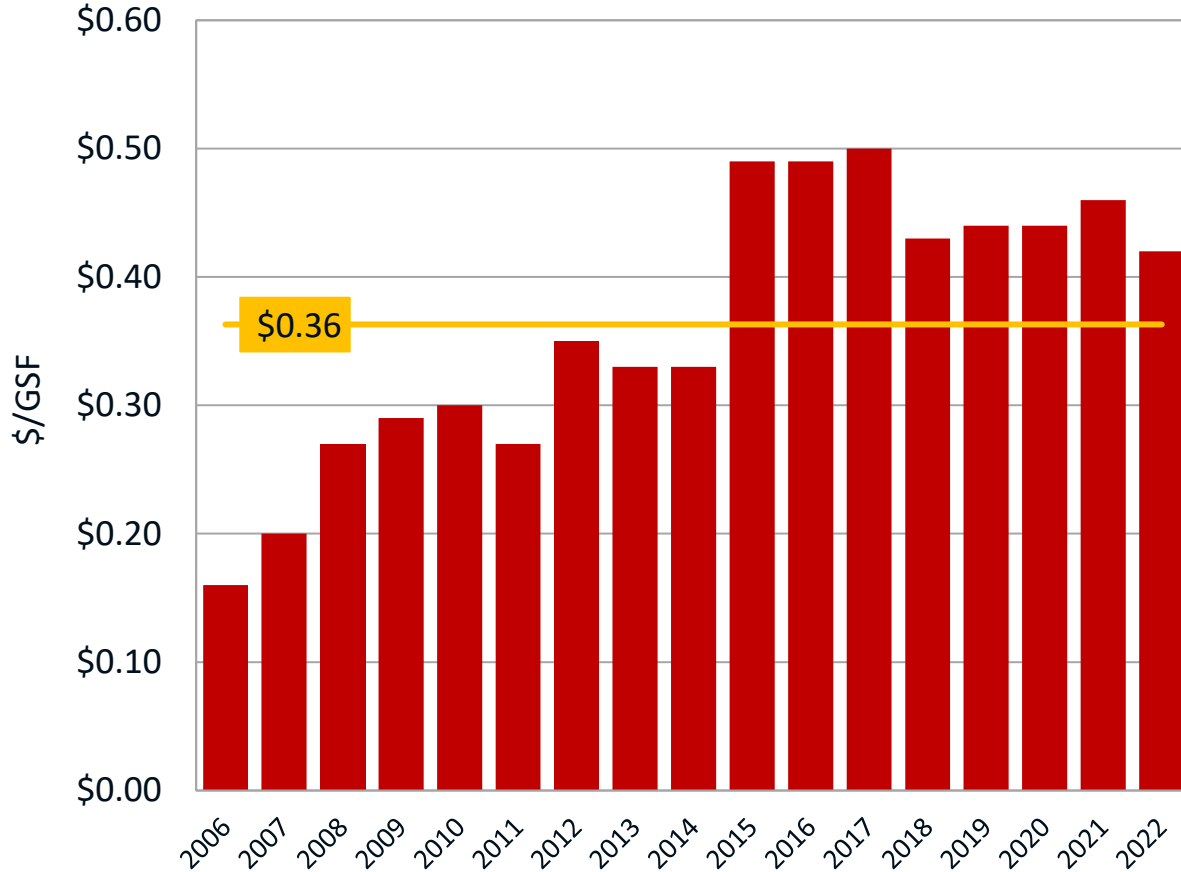


Anchorage Campus Spends More on PM than Peers

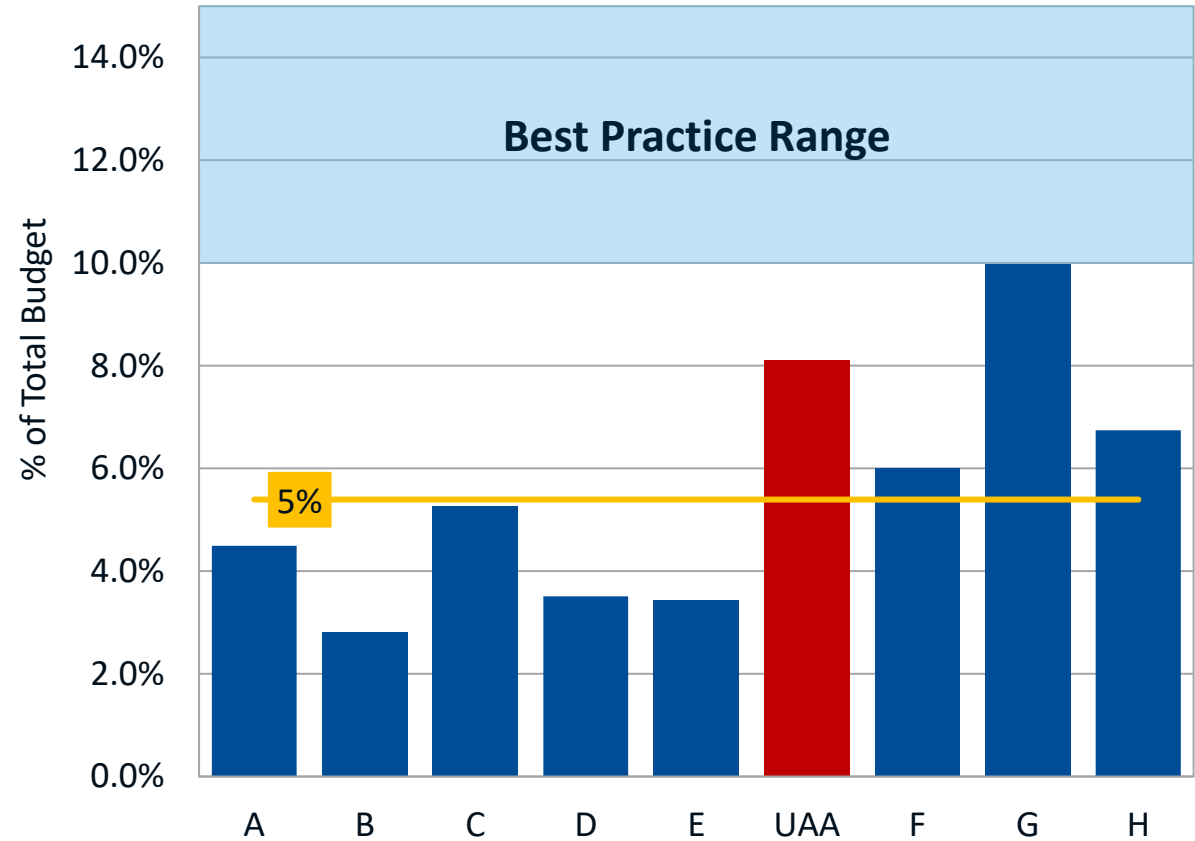


Anchorage stretches limited resources by focusing on extending life cycles through PM

Preventive Maintenance Spending



Preventive Maintenance Spending

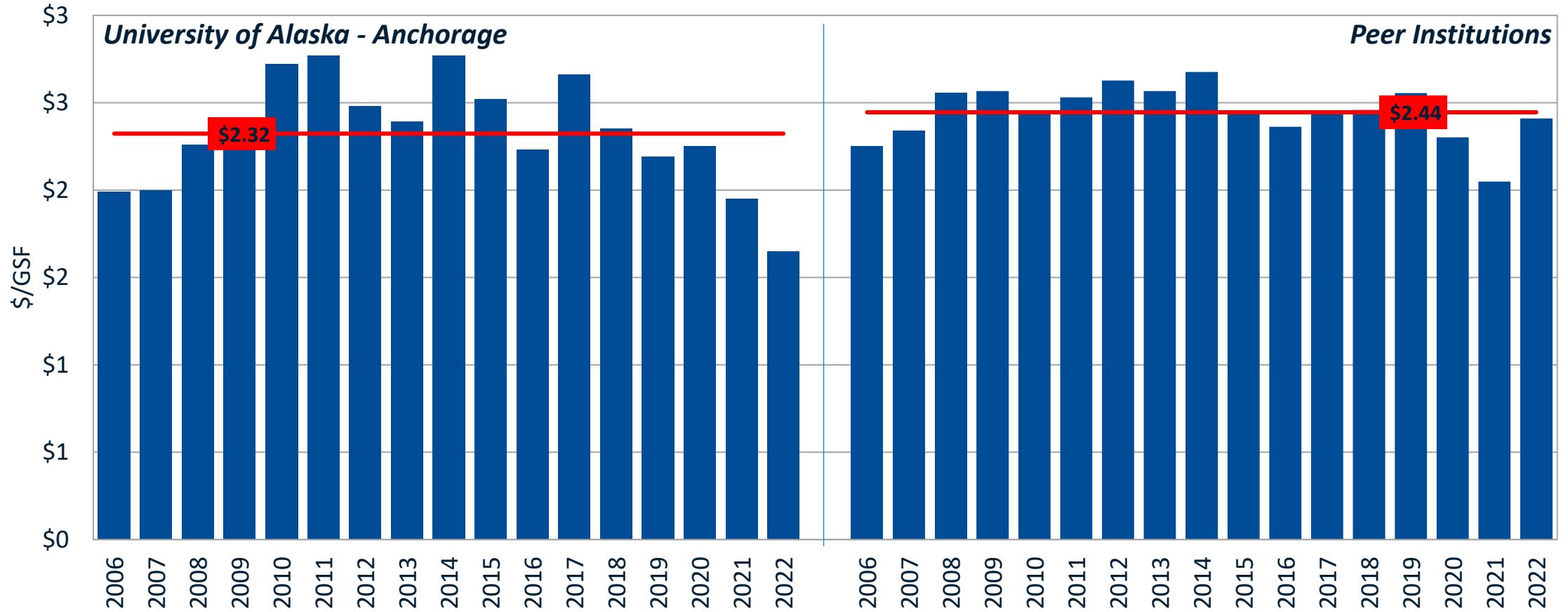


Utility Operating Expenditures Compared to Peers



Anchorage has decreased operating utility expenditures and spends less than Peers

UAA versus Peer Utility \$ per GSF
Regionally Adjusted

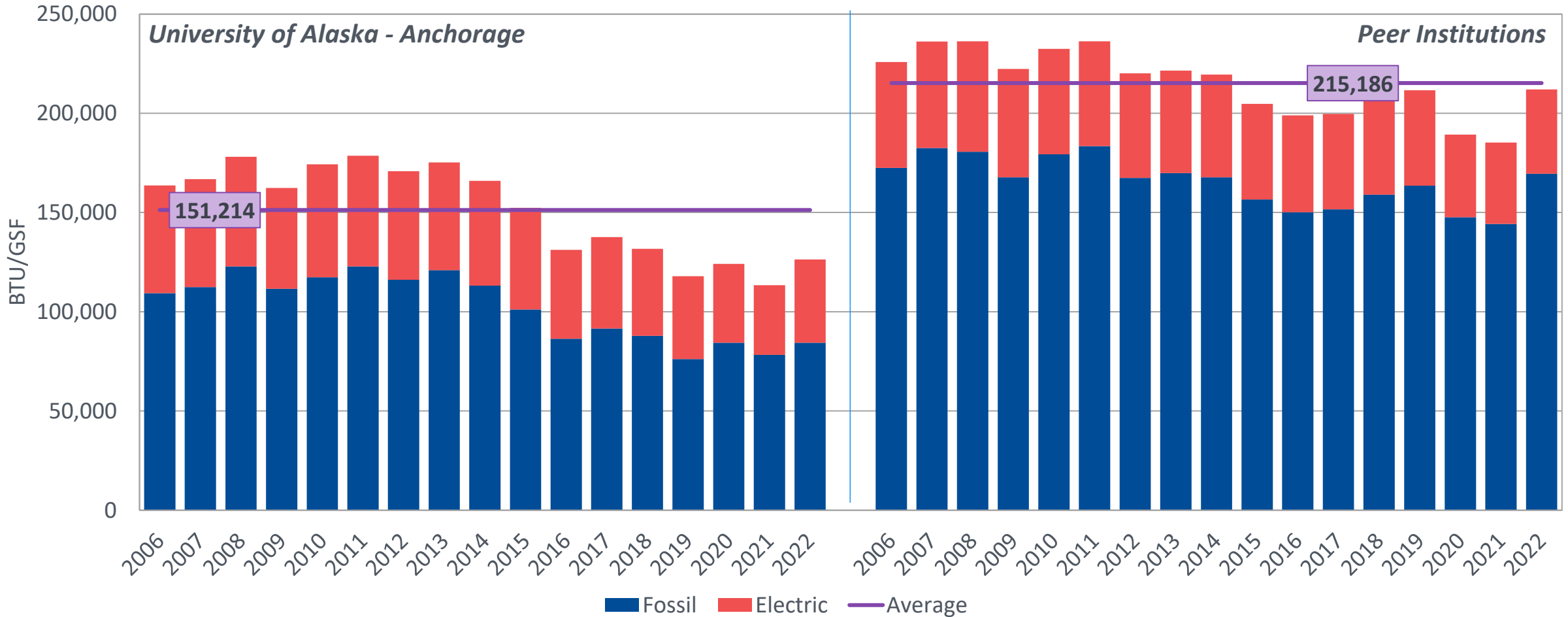


Total Energy Consumption



Anchorage has consumed less energy than peers, especially since 2015

Total Energy Consumption vs. Peers

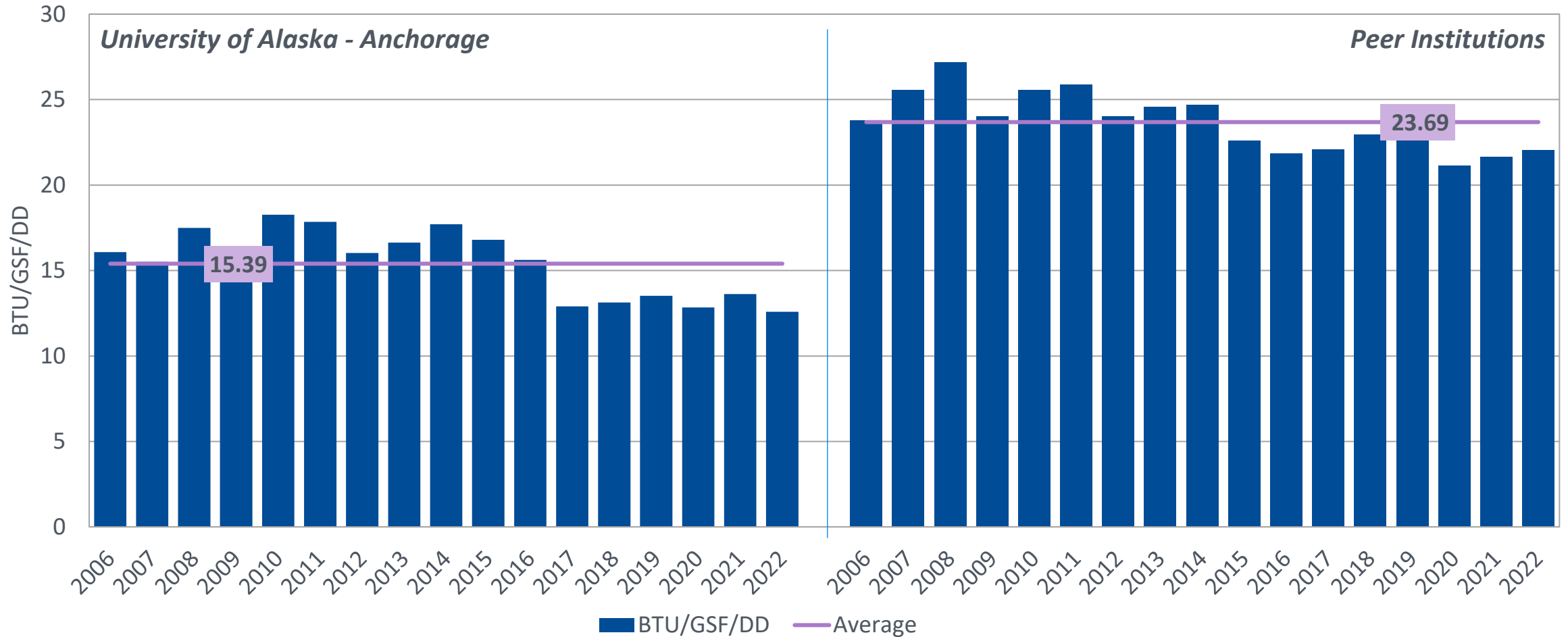


Total Energy Consumption



When normalizing by degree days, UAA has consumed less than peers throughout analysis

Total Energy Consumption vs. Peers

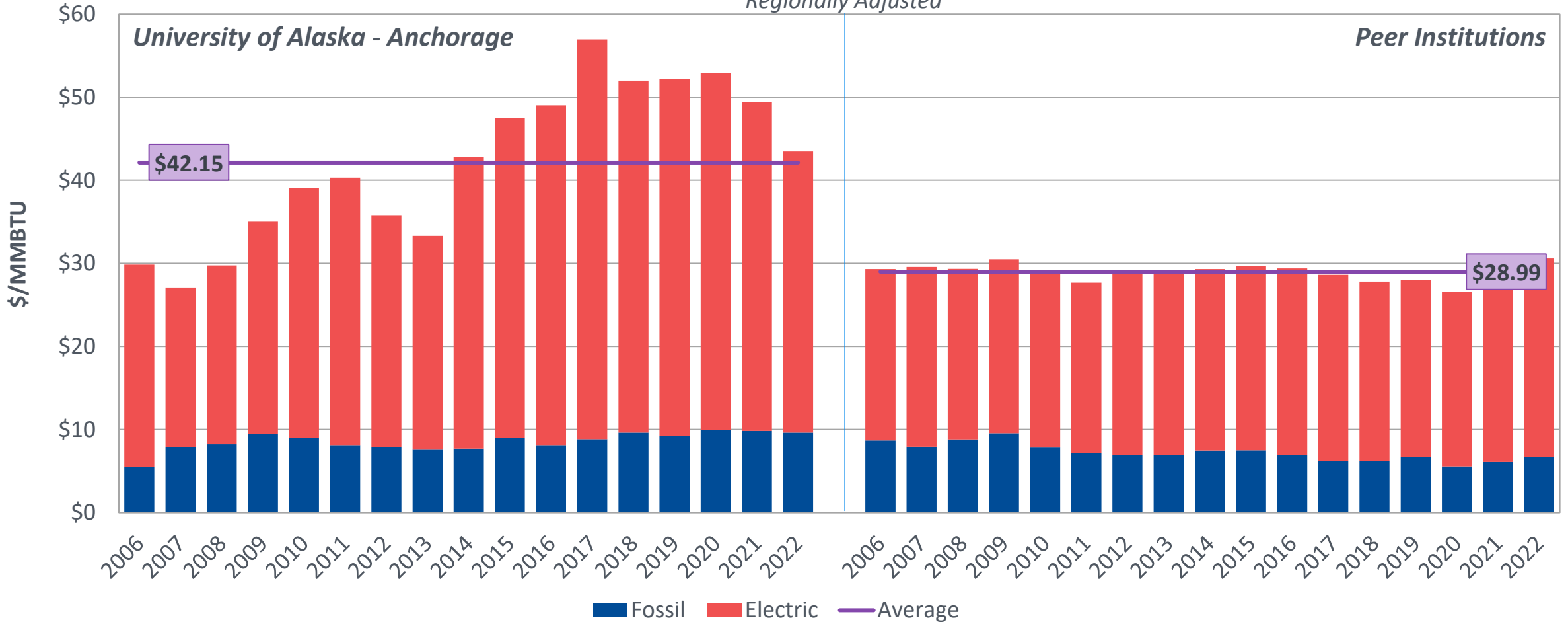


Energy Expenses are Increasing Over Time

Anchorage campus has higher energy costs than peers, when normalized by region

Total Energy Cost vs. Peers

Regionally Adjusted

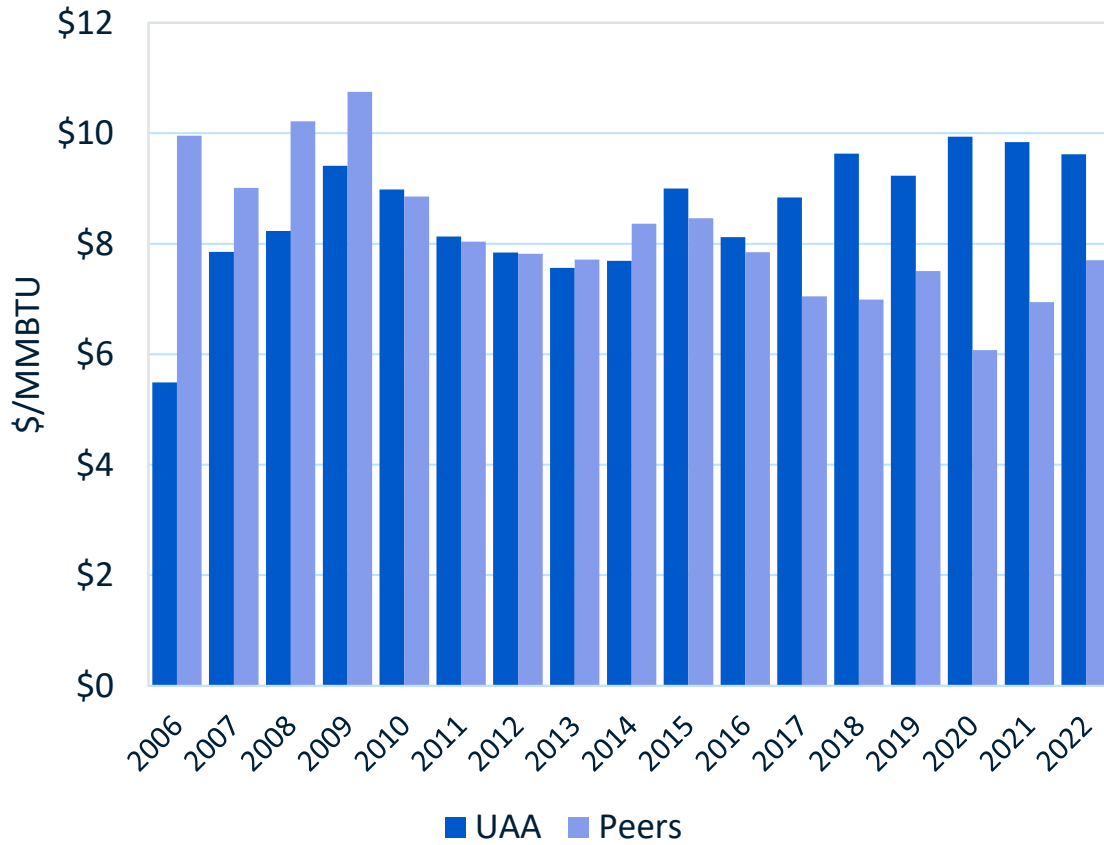


Differences in Unit Costs are Growing vs. Peers

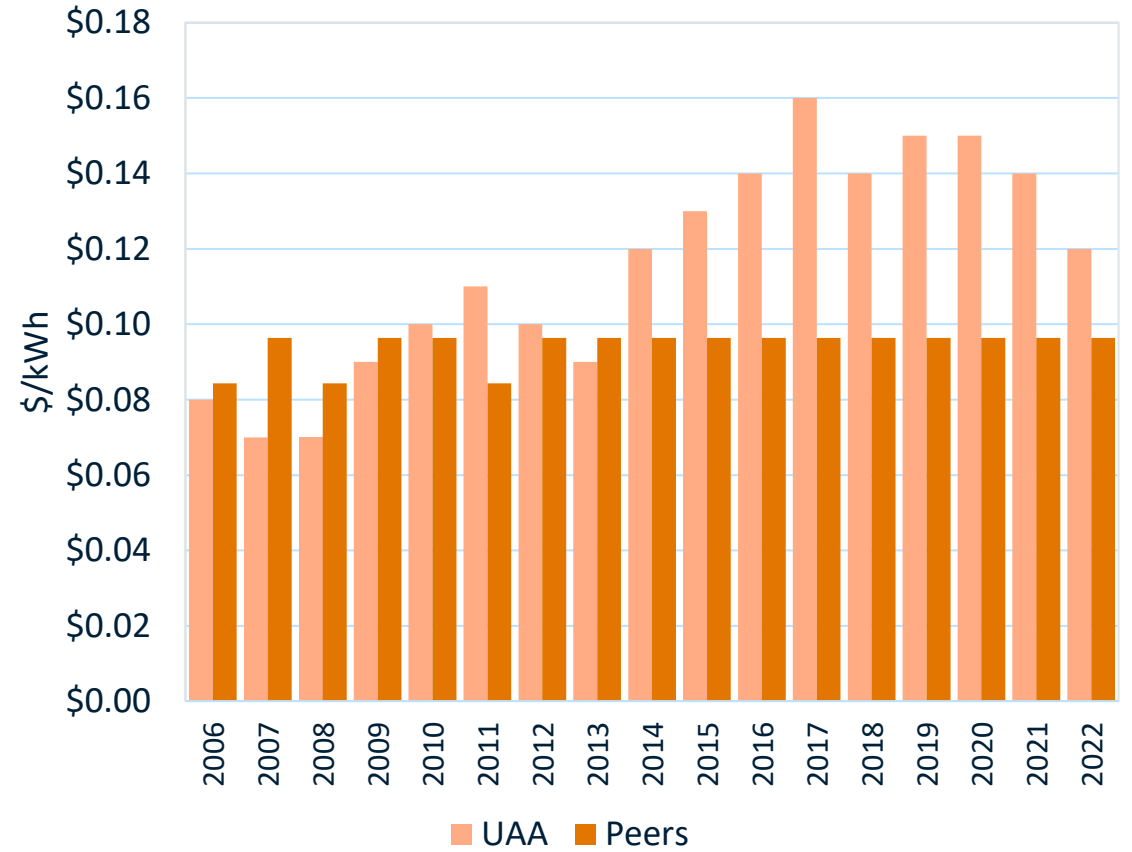


Anchorage has seen unit cost of electricity and fossil increase above peers

Fossil Fuel Unit Cost
Regionally Adjusted



Electric Unit Cost
Regionally adjusted



Maintenance Staffing Coverage

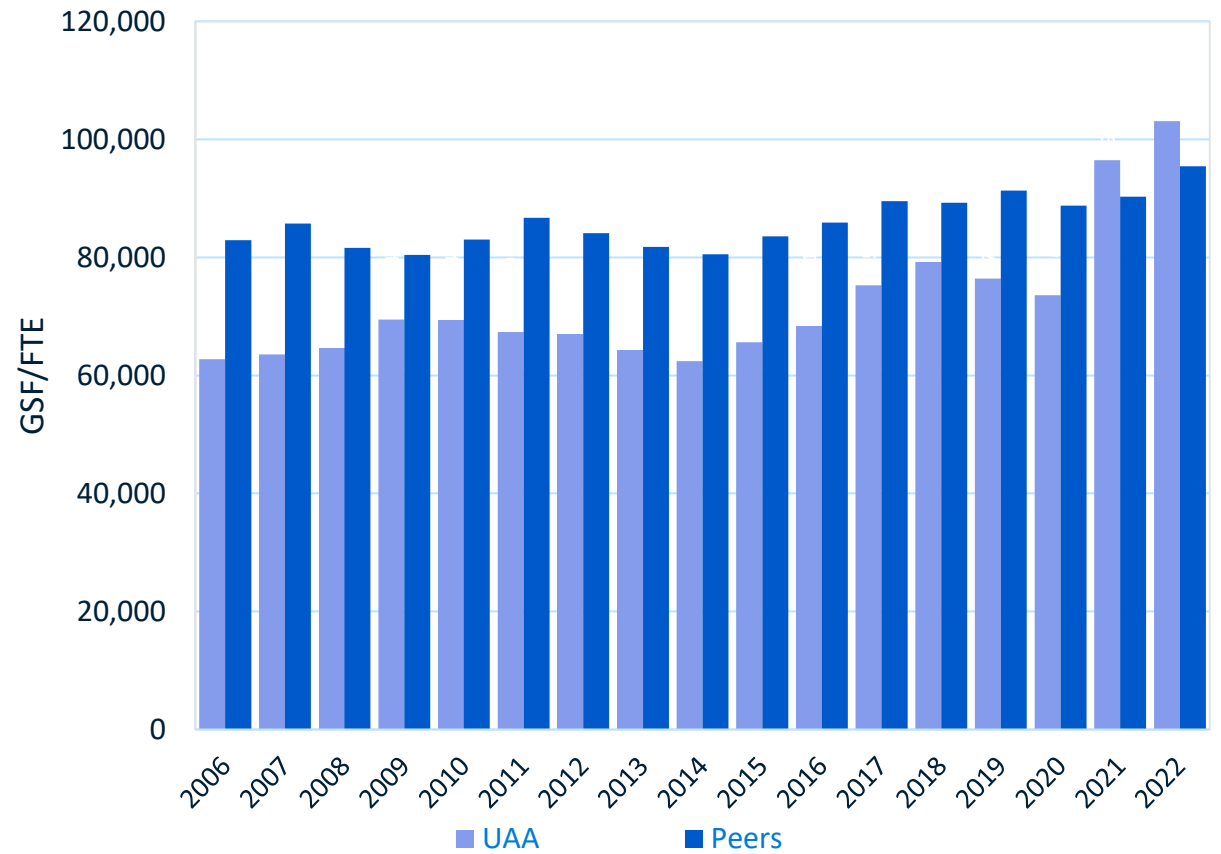


GSF per FTE jumps in FY22 as maintenance FTEs are reduced

Maintenance Staffing



Maintenance Coverage

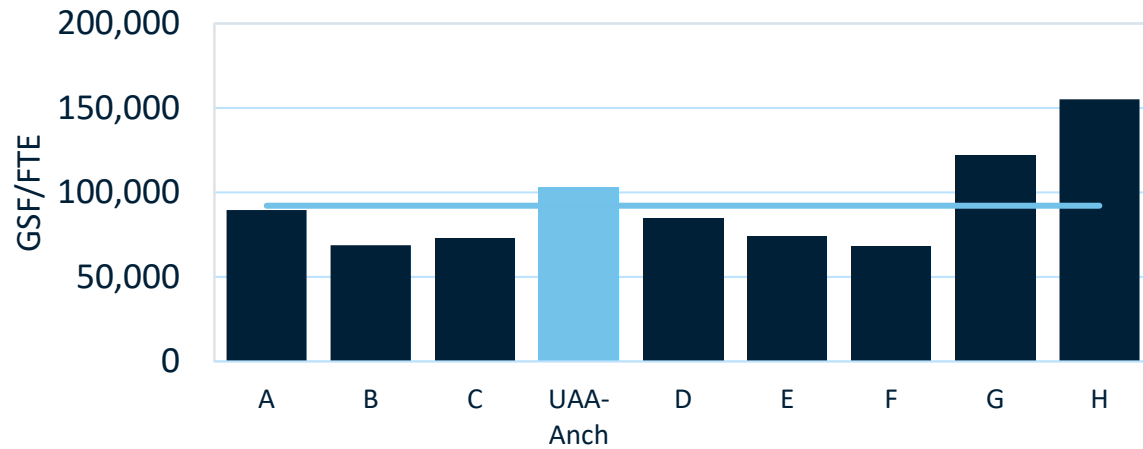


Maintenance Metrics

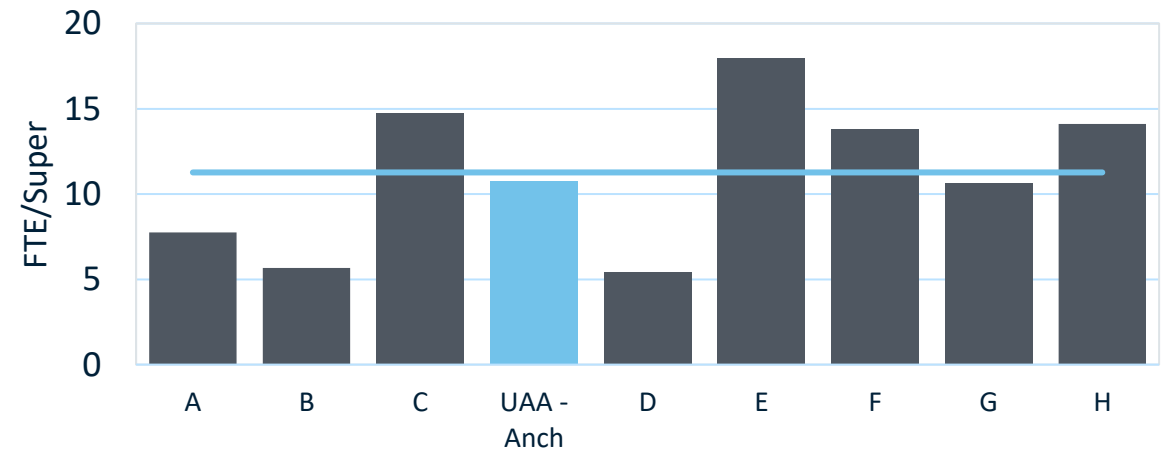


Anchorage has similar supervision, spends less on materials, covers more GSF than peers

Maintenance Staffing

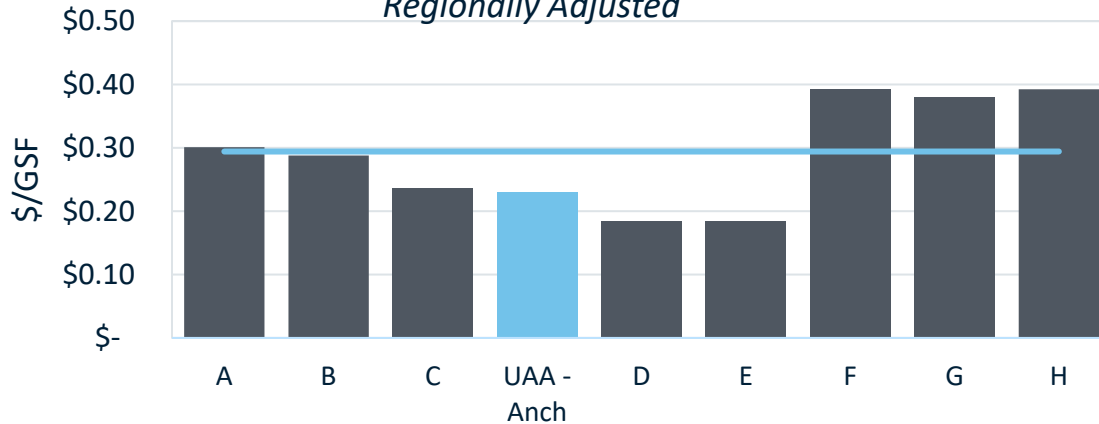


Maintenance Supervision

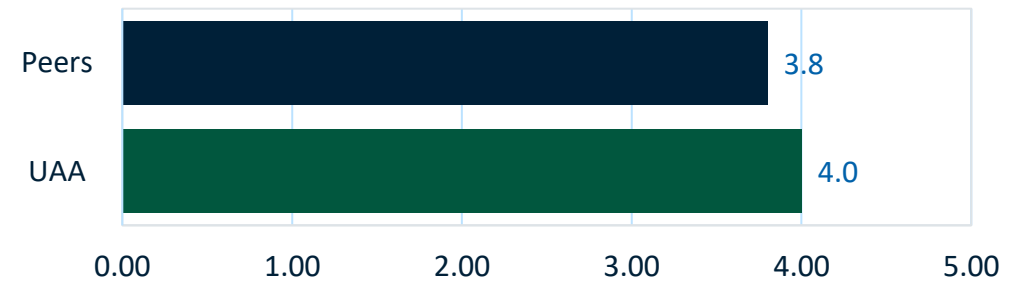


Maintenance Materials

Regionally Adjusted



General Repair Inspection Score

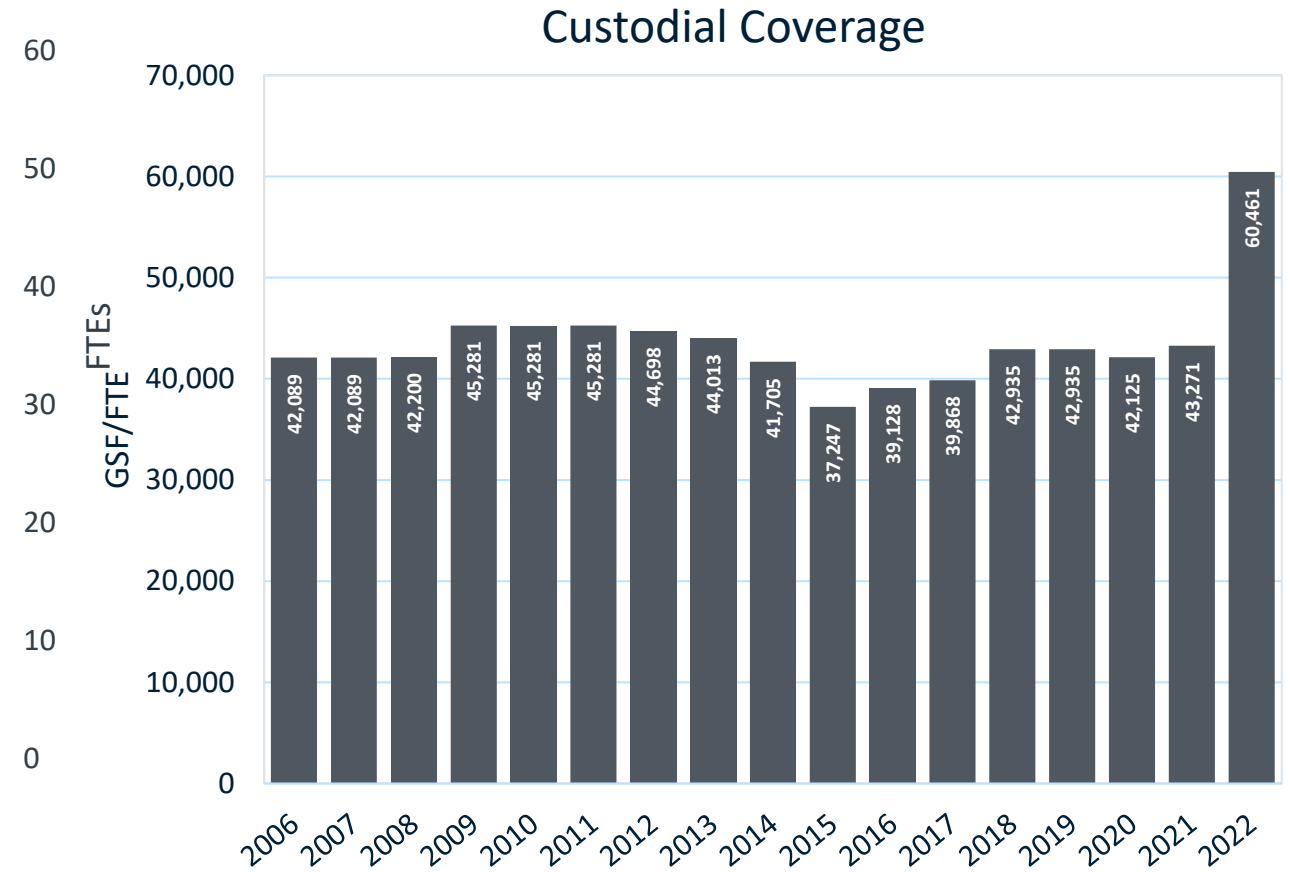
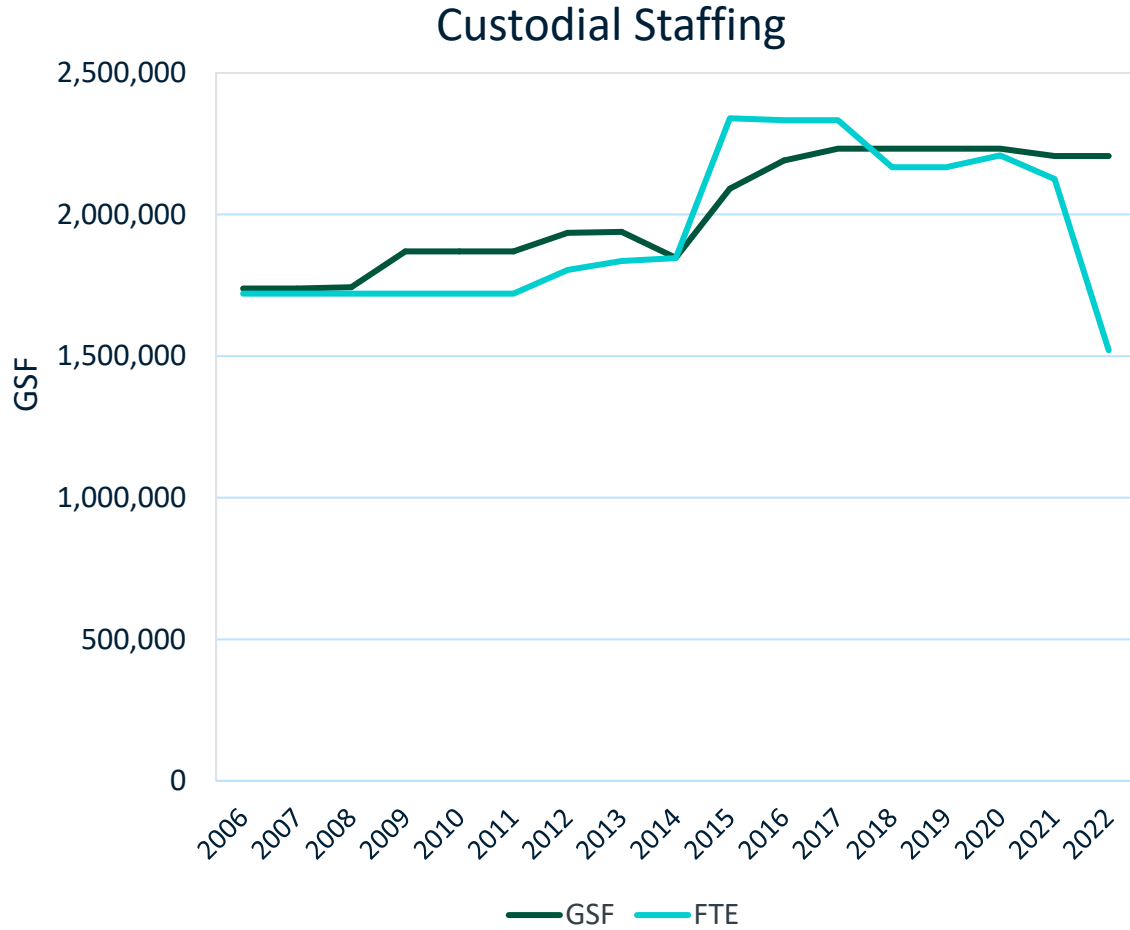


Institutions arranged by Technical Complexity

Custodial Staffing Coverage



Custodial coverage significantly increases as FTEs were reduced in FY22

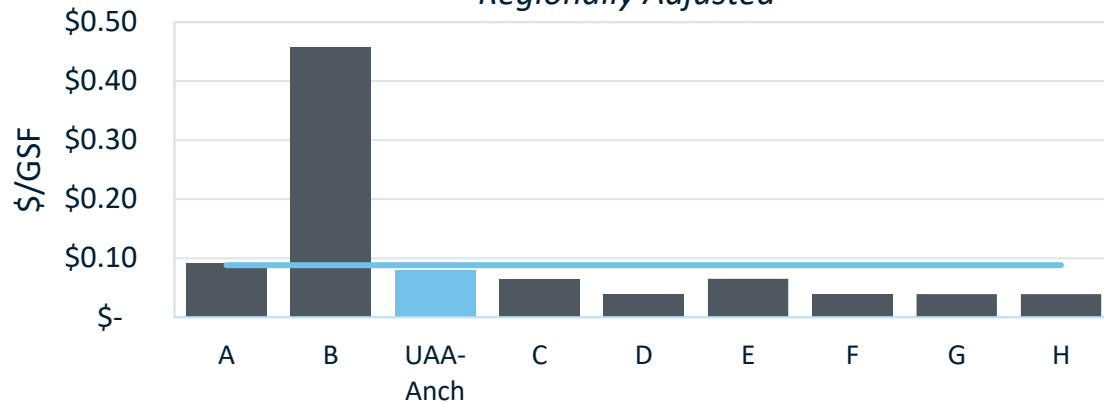


Custodial Metrics

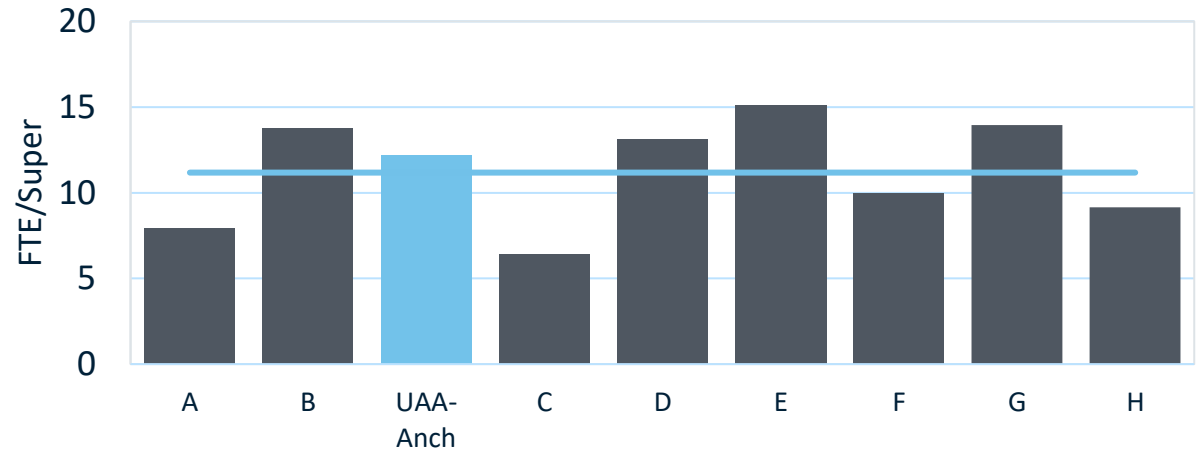


Anchorage staff cover more GSF and are supervised at lower rates than peers

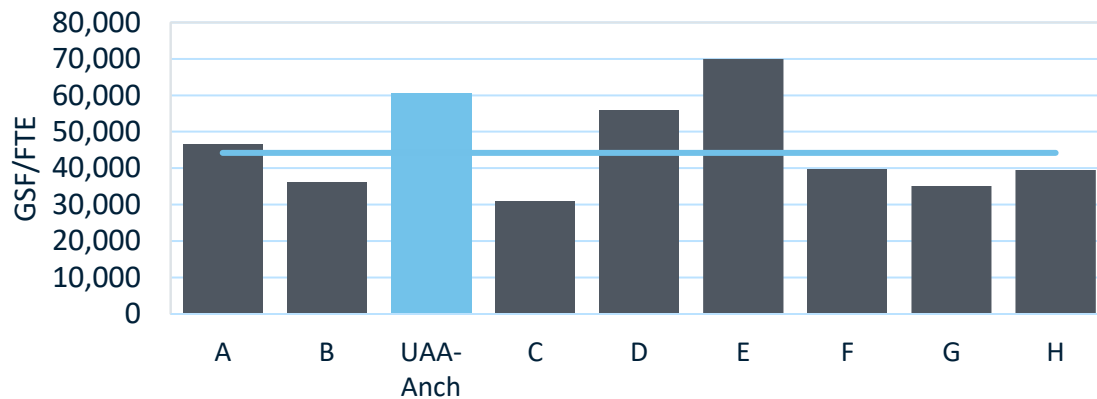
Custodial Materials
Regionally Adjusted



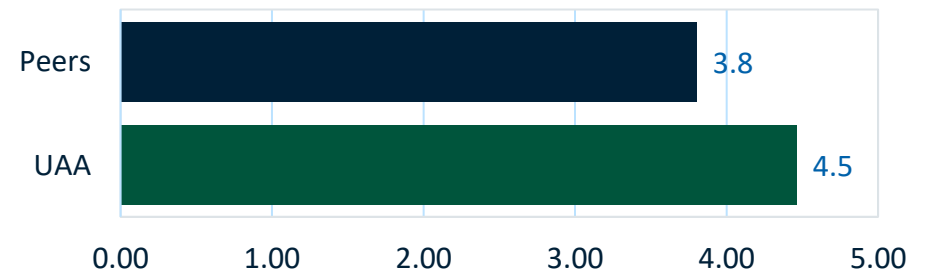
Custodial Supervision



Custodial Staffing



Cleanliness Inspection Score



Institutions arranged by Density Rating

Grounds Staffing Coverage

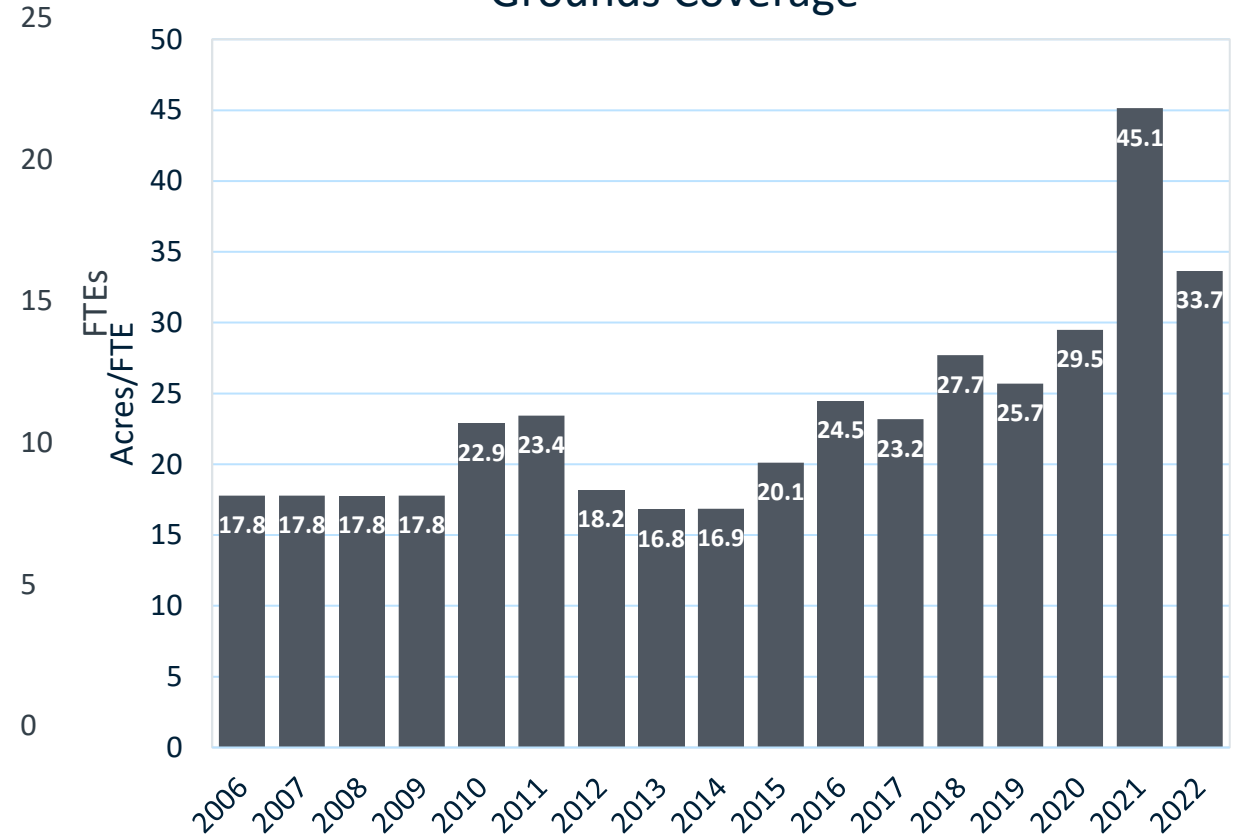


Coverage ratios have decreased as grounds department regains employees

Grounds Staffing



Grounds Coverage

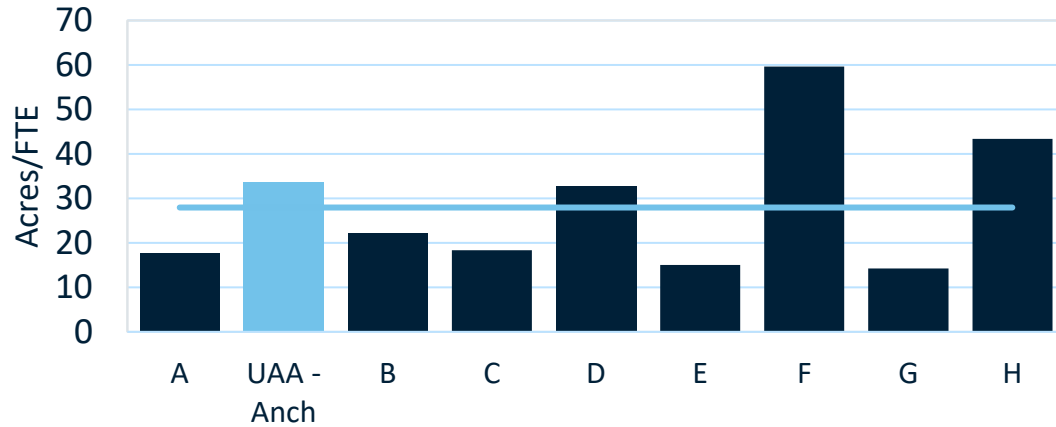


Grounds Metrics

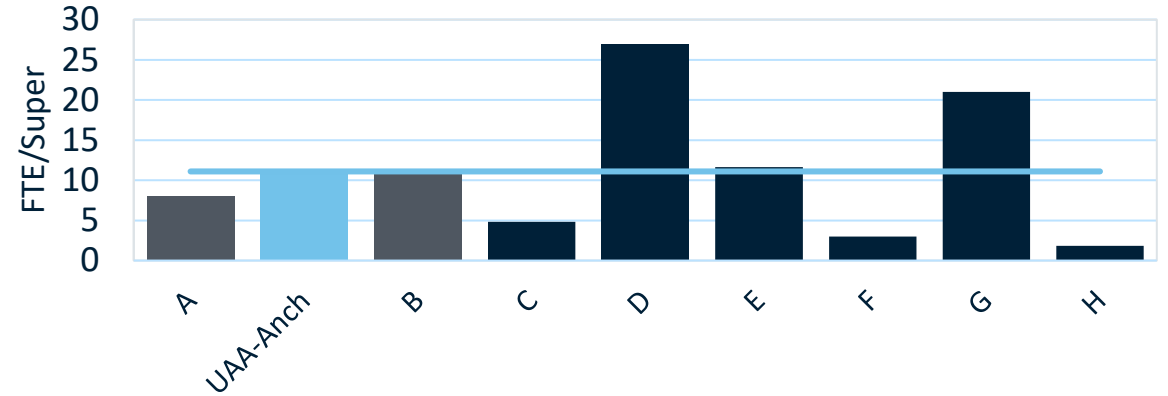


While grounds department has grown from FY21, coverage still higher than peers

Grounds Staffing



Grounds Supervision

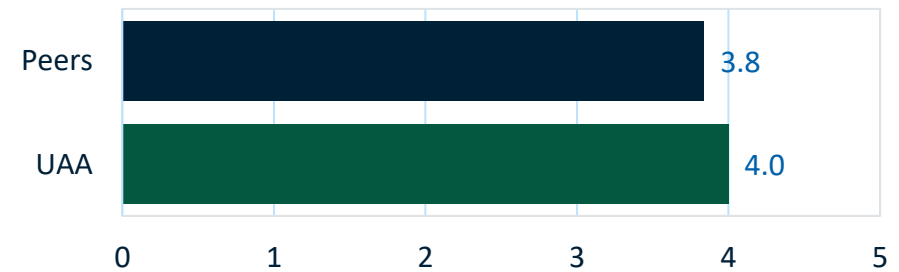


Grounds Materials

Regionally Adjusted



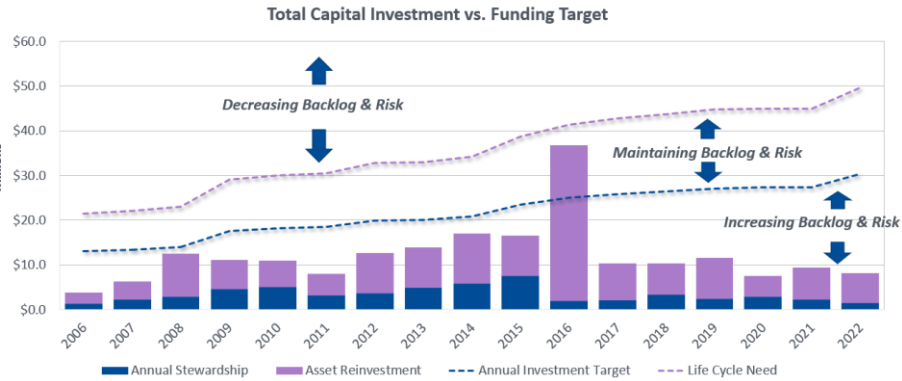
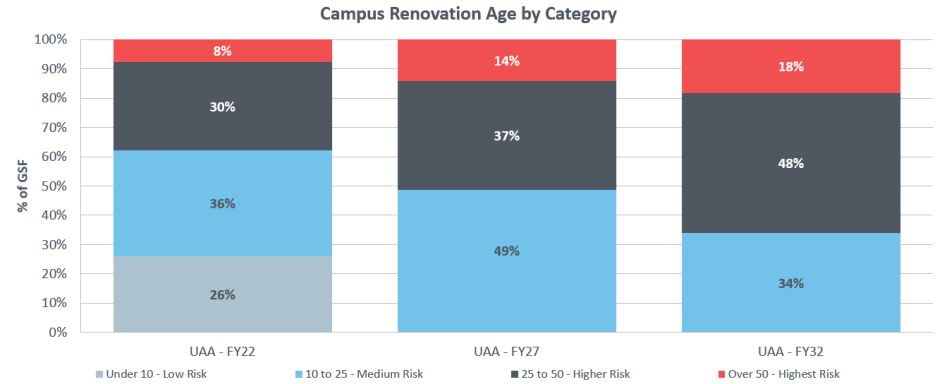
Grounds Inspection Score



Institutions arranged by Grounds Intensity

Key Takeaways

UAA is a young campus compared to peers. However, this young campus age may be misleading, because it is due to new construction of space. Within five years none of the space on campus will be under 10 years of age. At that time the newer “younger” space will compete for capital and operational resources with the older space on campus.



Since FY16 capital investment into existing space has significantly declined, which has correlated with the increase of Asset Reinvestment Need. To decrease total campus need, capital funding must be increased. If capital investments cannot be increased, older high FCI space should be divested from or ideally taken offline to reduce capital need.

Operationally UAA is facing significant shortfalls of resources. While expenditures increased from FY21, facilities budgets are still far below previous years when compared to inflation. Additionally, staffing FTE’s have decreased resulting in coverage ratios increasing. In order to alleviate the capital and operational strain, facilities budgets should be increased to take on either service contracts or hire more staff.





FY22 Facilities Benchmarking & Analysis

University of Alaska Anchorage:
Community Campus Breakout



Space Profile:

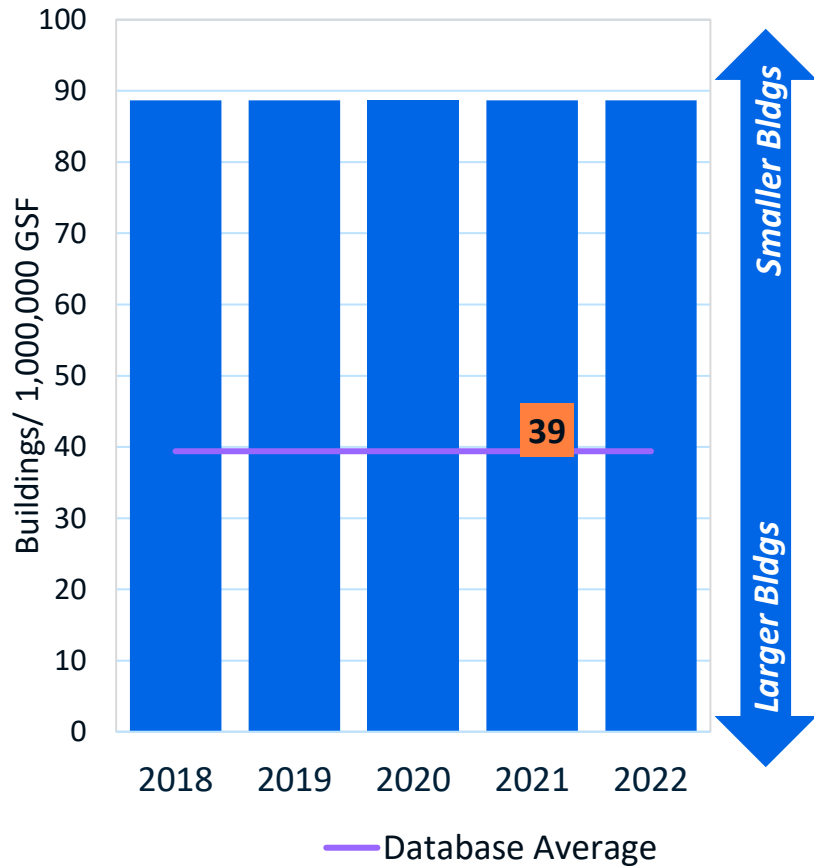
Kenai Peninsula College

Qualifying Metrics – Building and Grounds Intensity

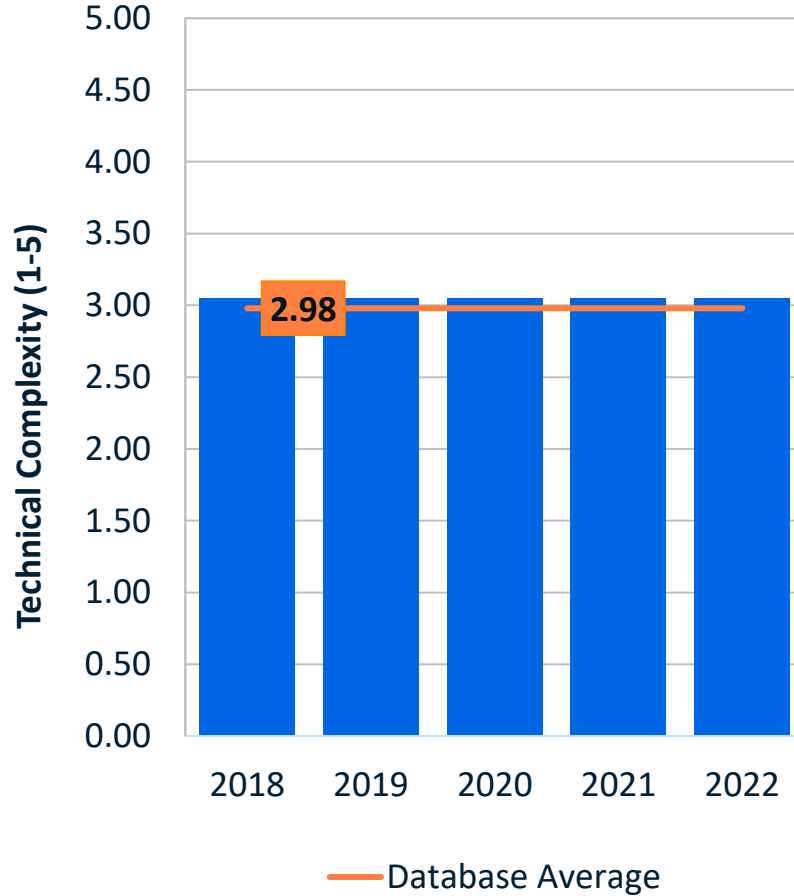


Kenai has higher building intensity, similar tech rating, and lower density than database

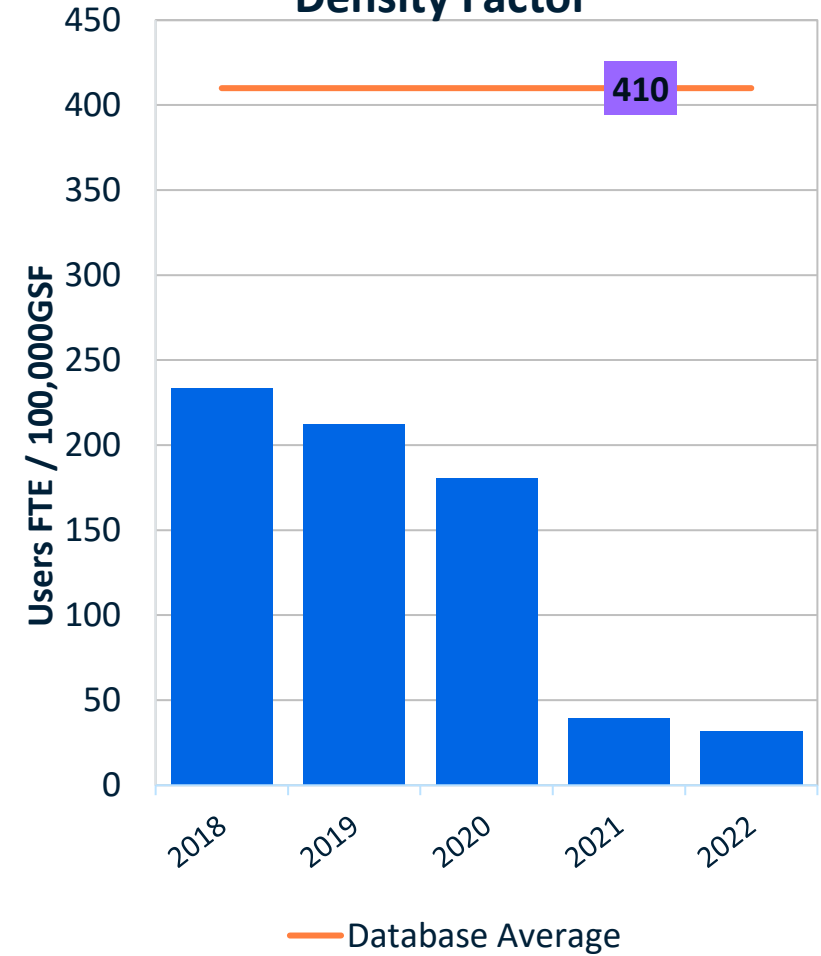
Building Intensity



Technical Complexity



Density Factor

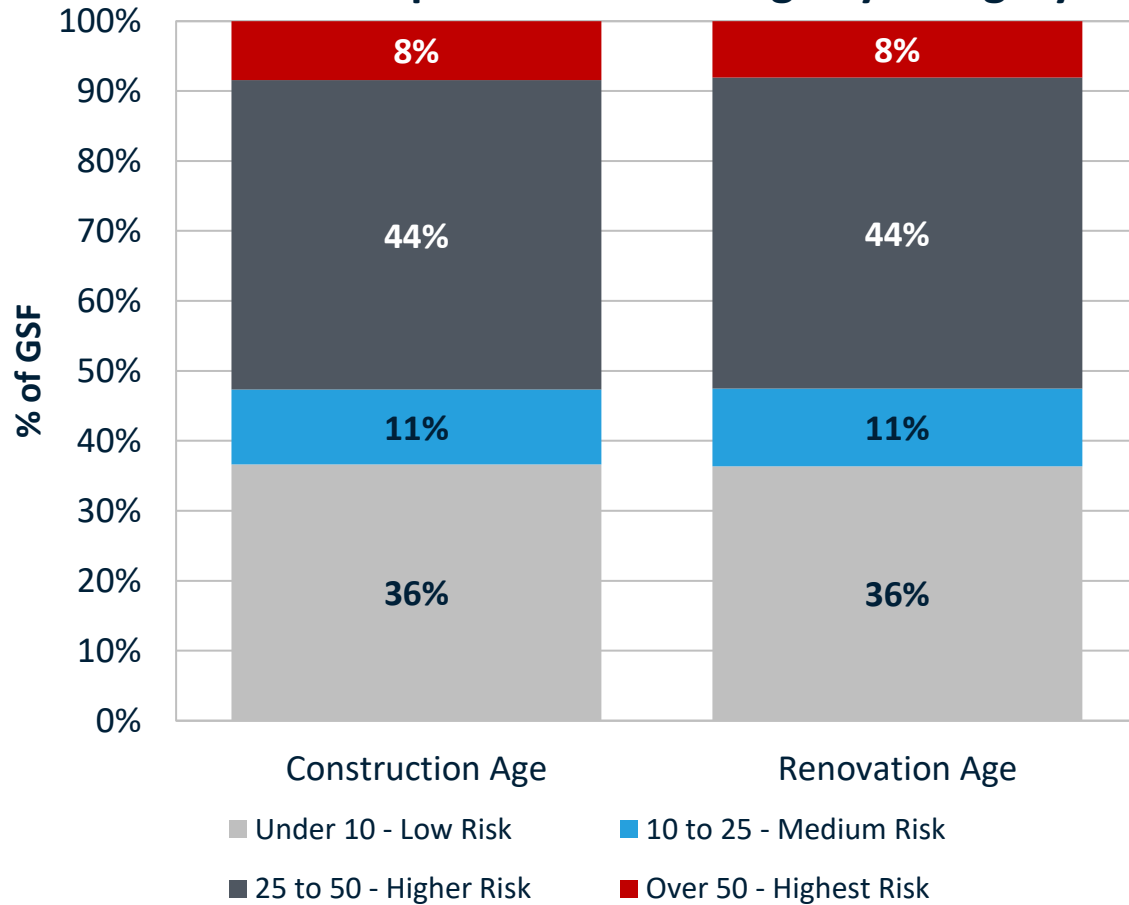


New Construction Keeps Kenai Campus Young



A younger campus allows Kenai to proactively manage operational and capital demands

Campus Renovation Age by Category



	Operational Demands:	Capital Risk:
Over 50	<p>React as Needed: Issues in components past the end of their lifecycles will demand reactive maintenance.</p>	<p>Highest Risk: Life cycles of major components past due – end of building life cycle approaching.</p>
25-50	<p>Balance PM and Reactive Maintenance: Younger components still require PM. Aging components require reactive maintenance.</p>	<p>Higher Risk: Life Cycles coming due in core building components.</p>
10-25		<p>Medium Risk: Lower cost space renewal updates needed.</p>
Under 10	<p>Focus on PM: Significant need for PM in young systems.</p>	<p>Low Risk: “Honeymoon” period – little need for capital reinvestment.</p>



Capital Profile:

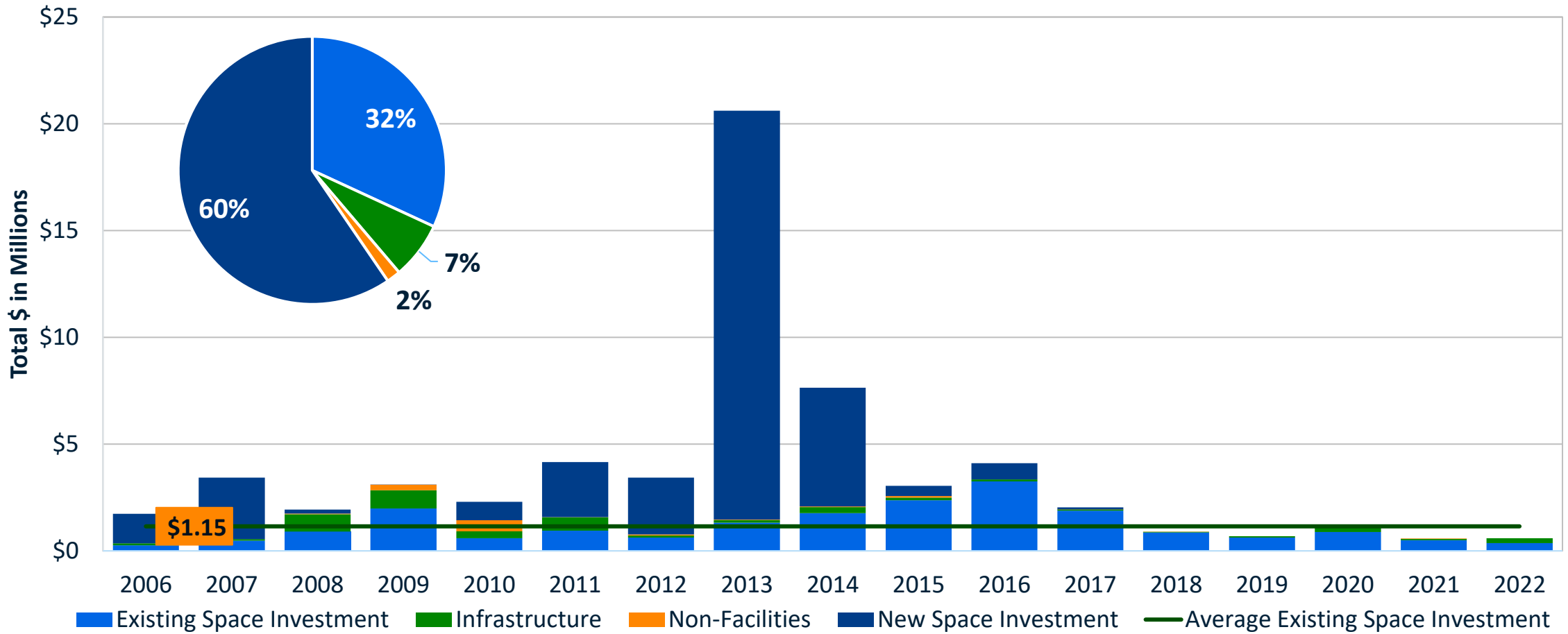
Kenai Peninsula College

Capital Investment has focused on New Construction



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

Total Capital Investment

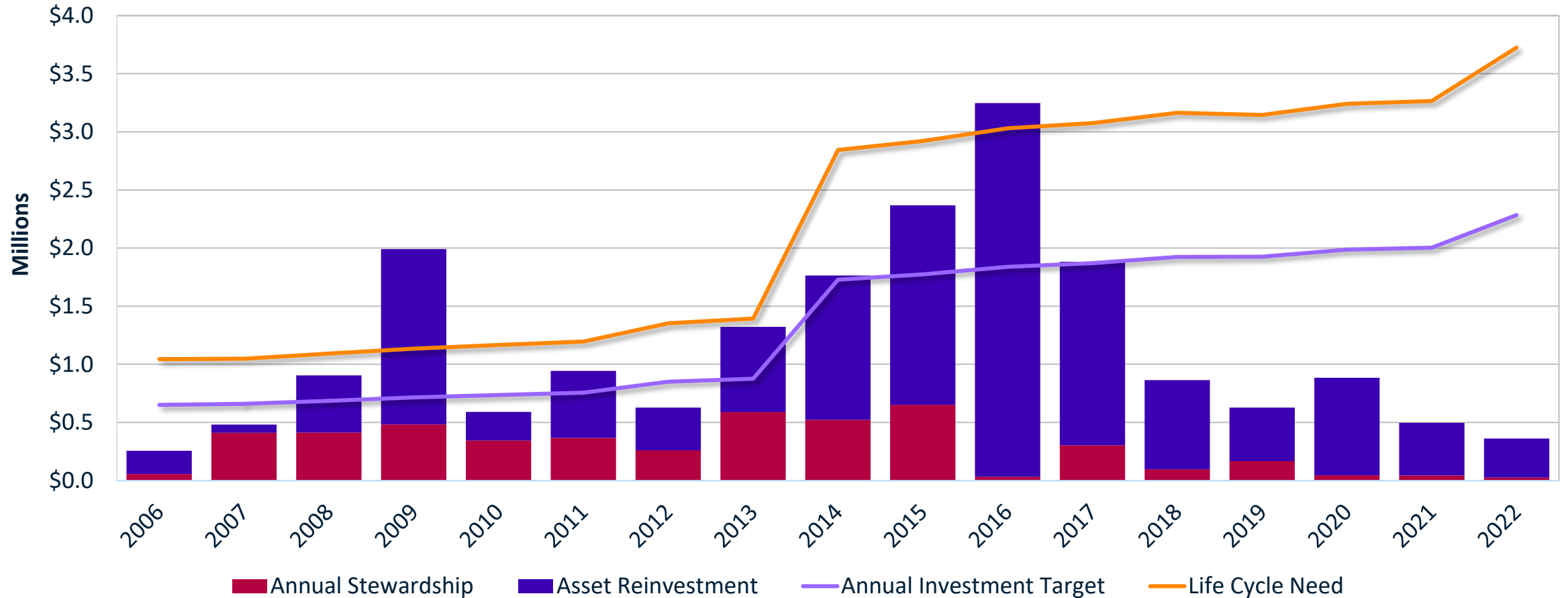


Capital Investment vs. Annual Investment Target



- Kenai has fallen short of the investment target since 2017 leading to growing backlog

Total Capital Investment vs. Funding Target

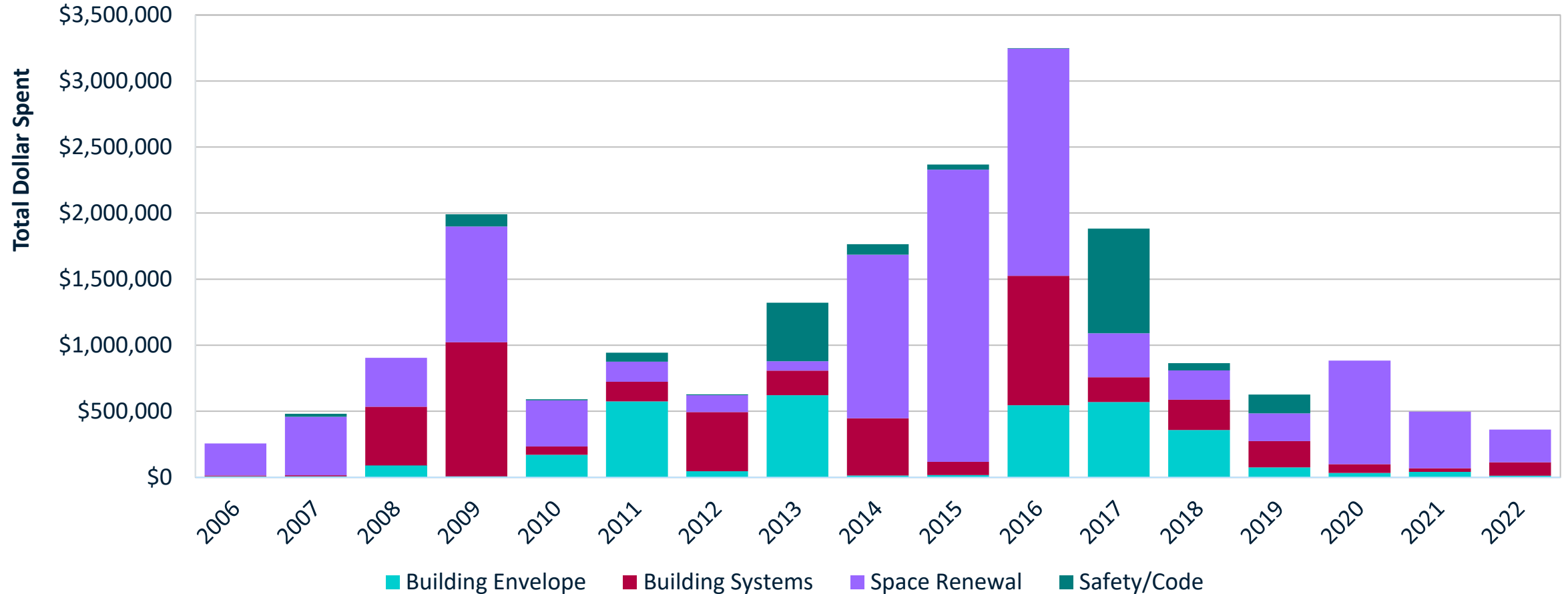


Existing Space Investment Breakout



KPC should shift investment away from space renewal towards building systems

Existing Space Capital Breakout

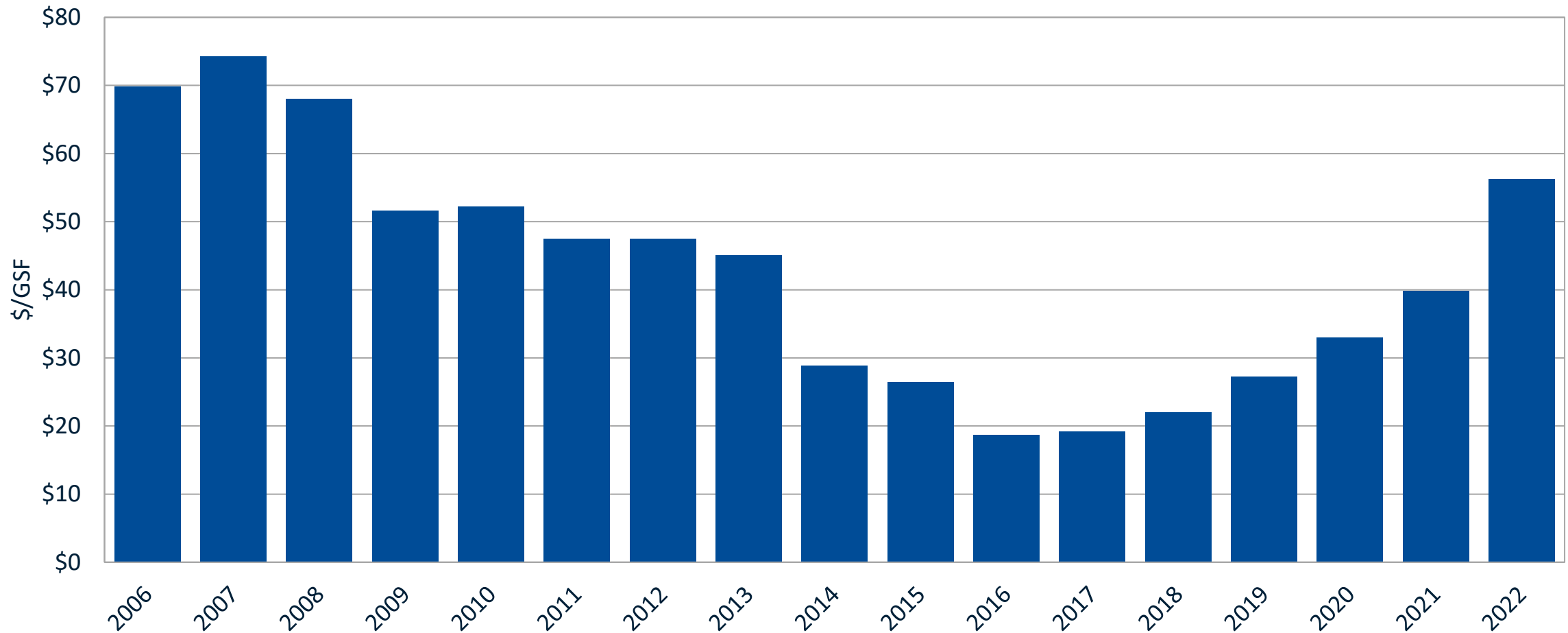


Asset Reinvestment Need has Increased since 2016



KPC benefits from new construction, and until 2016, consistent capital investment

Total Asset Reinvestment Need \$/GSF



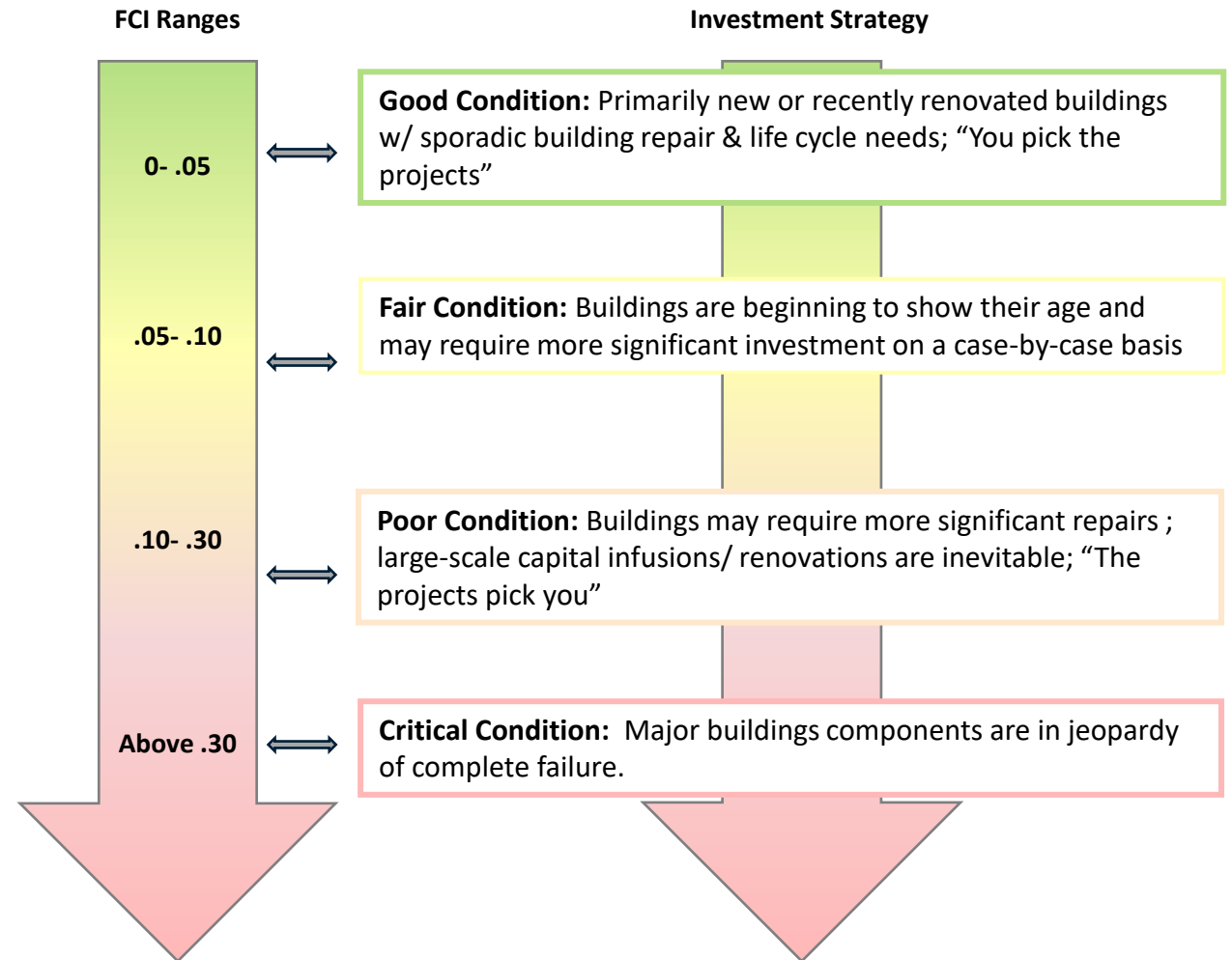
Facilities Condition Index



- Condition based investment strategy

$$\text{FCI} = \frac{\text{Backlog}}{\text{Replacement Value}}$$

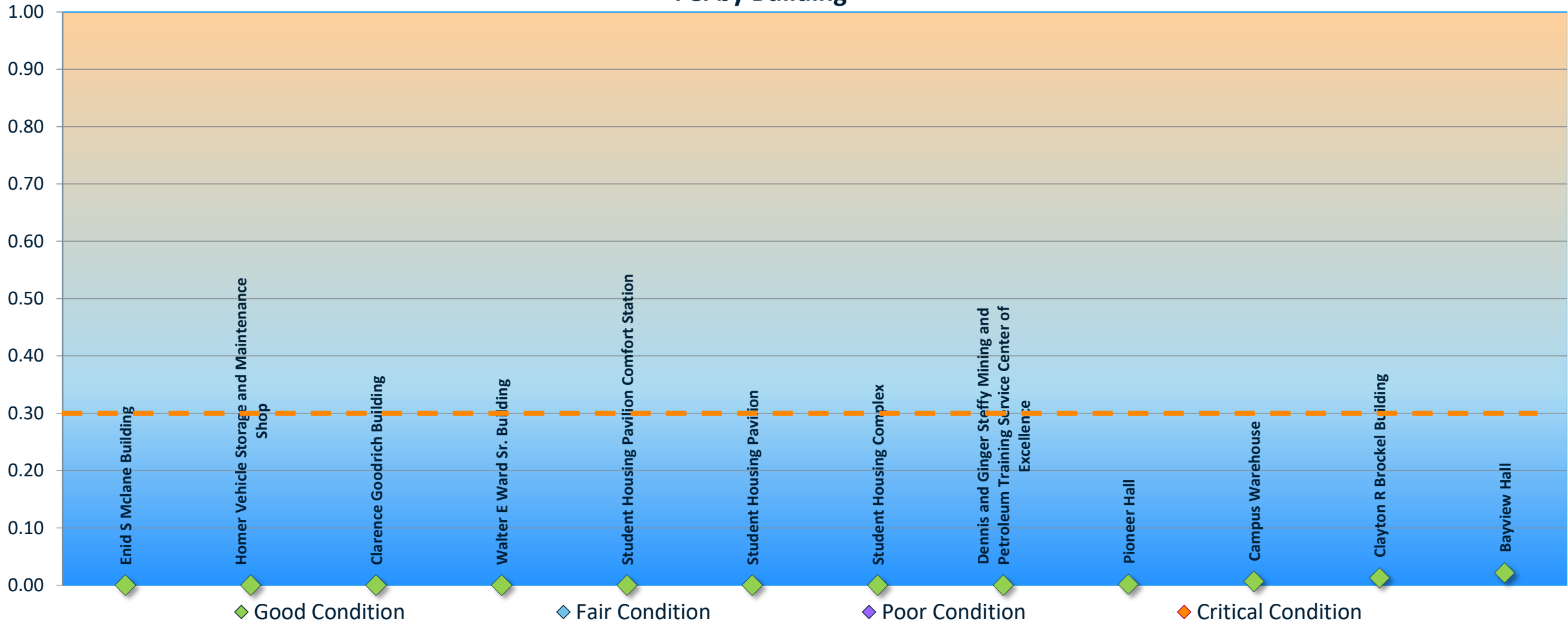
Campus leadership can use FCI categories for different buildings and portfolios, helping to balance capital investments across campus and prioritize project selection



Facilities Condition Index – All Buildings



FCI by Building





Operations Success:

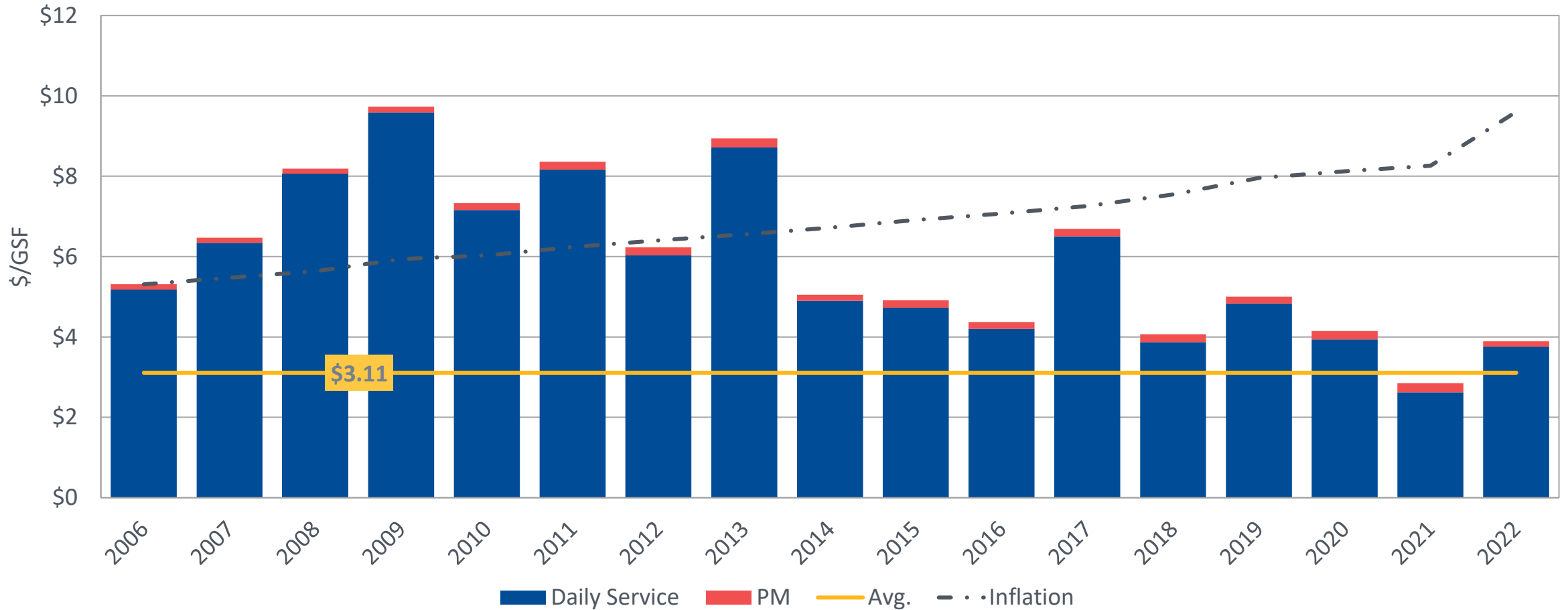
Kenai Peninsula College

Facilities Operating Expenditures



Kenai \$/GSF spending in 2022 is 40% of operating expenditures compared to inflation

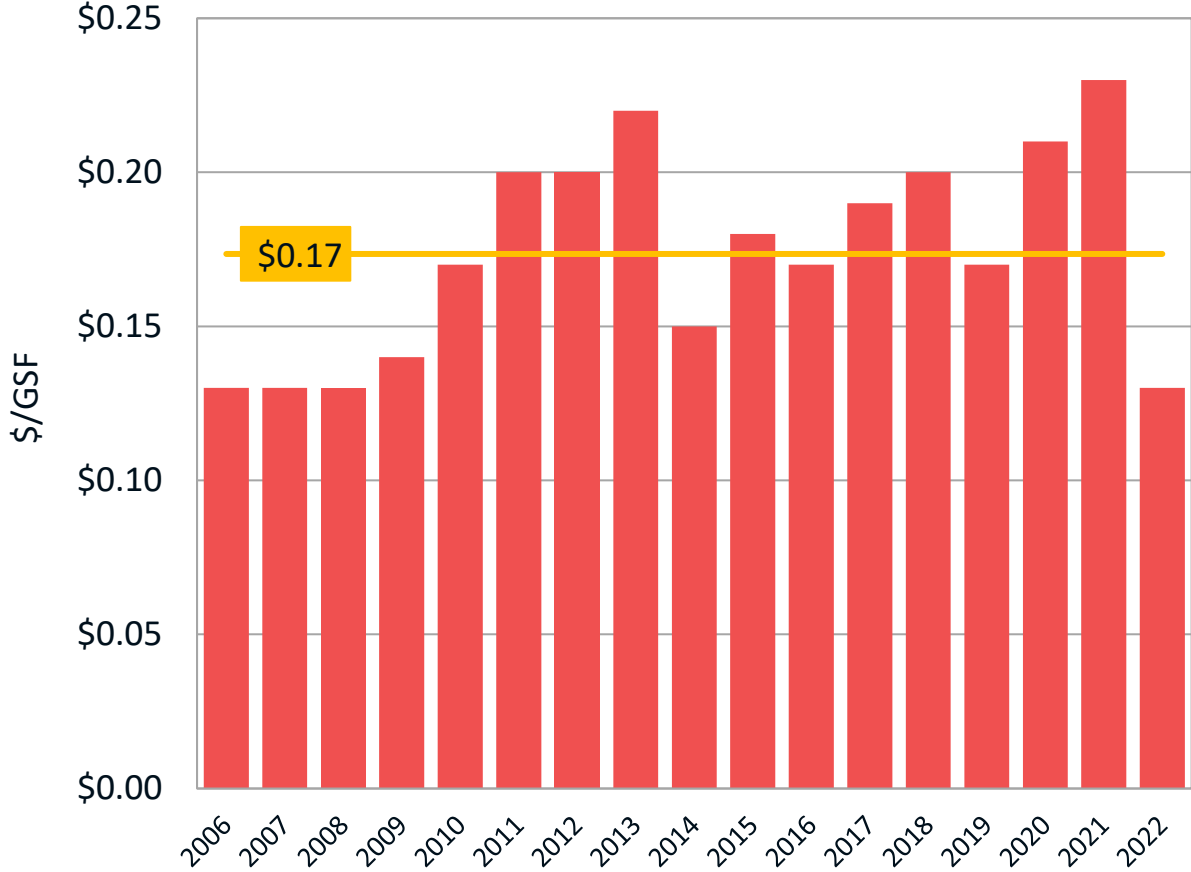
Facilities Operating Actuals



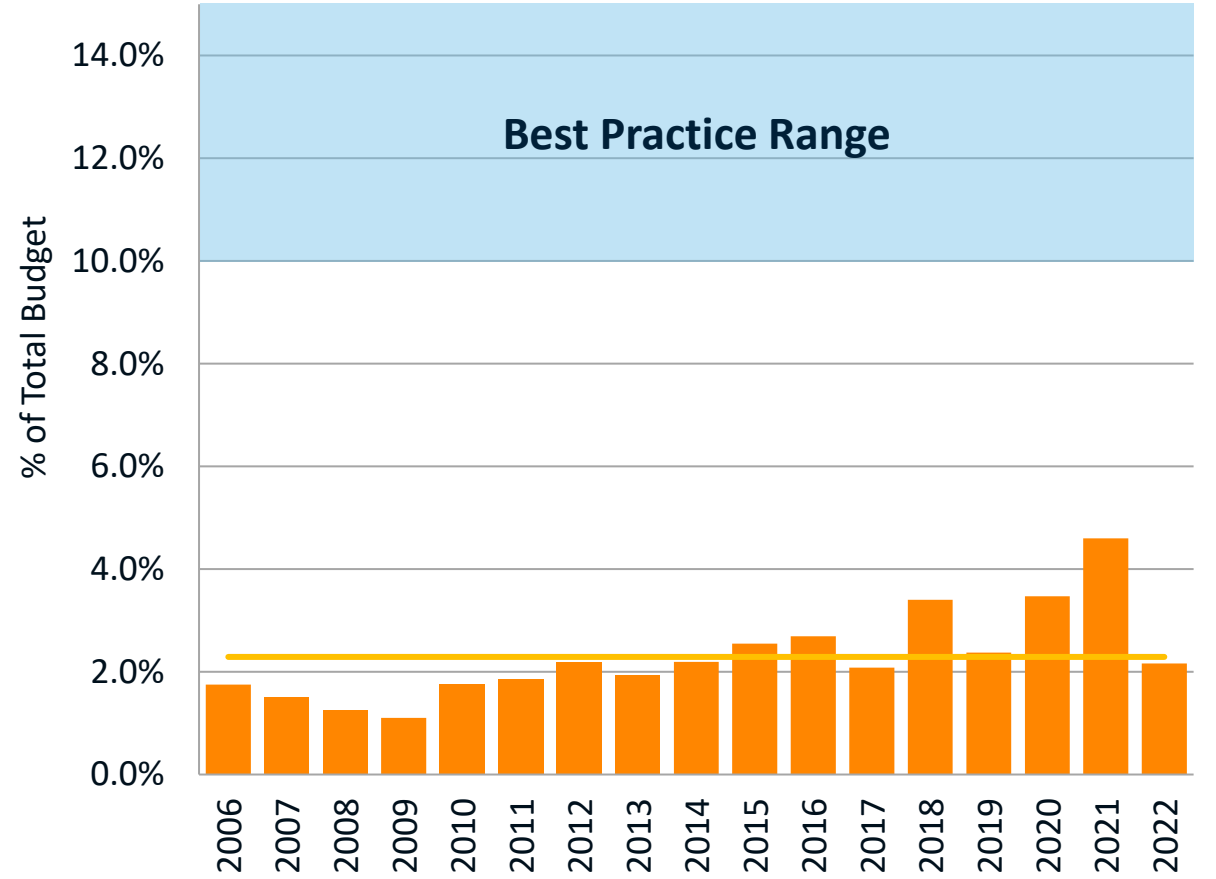
PM Declines, is Below Recommended Spending Range

KPC should increase PM spending into younger buildings and assets

Preventive Maintenance Spending



Preventive Maintenance Spending

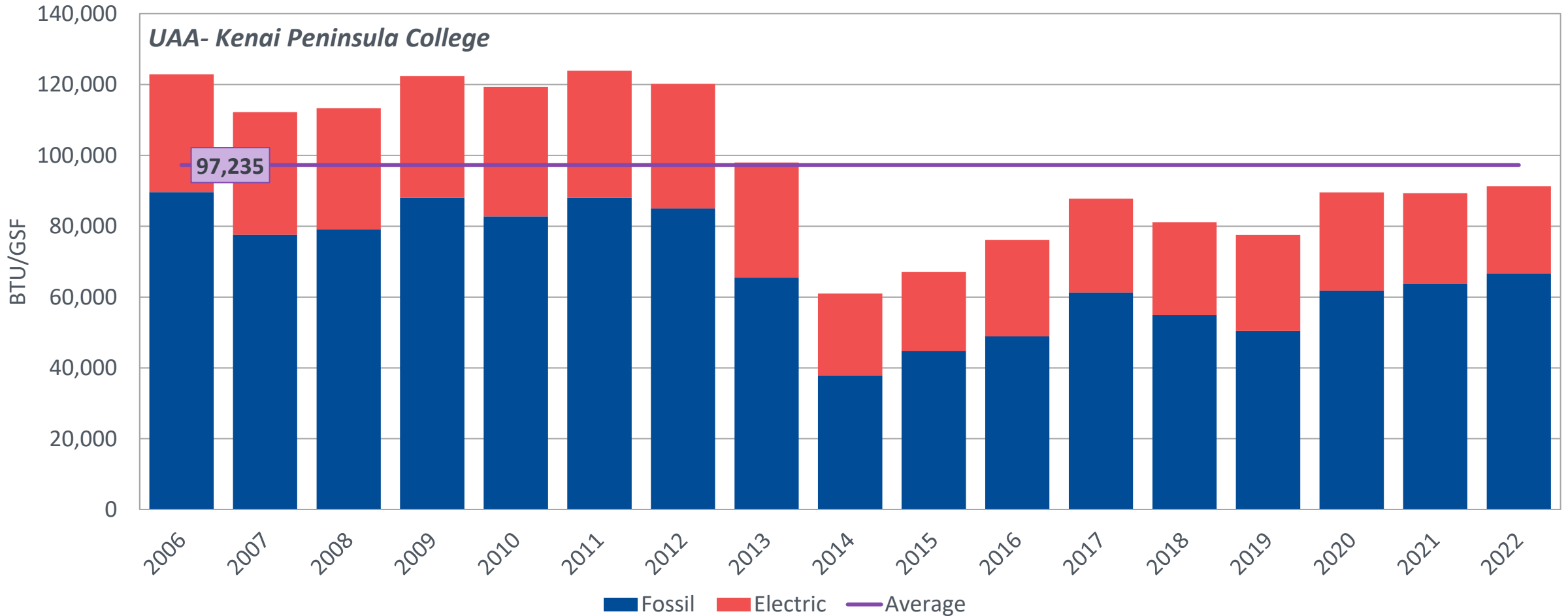


Total Energy Consumption



Overall reduction in energy consumption from historic highs, since 2019 usage increasing

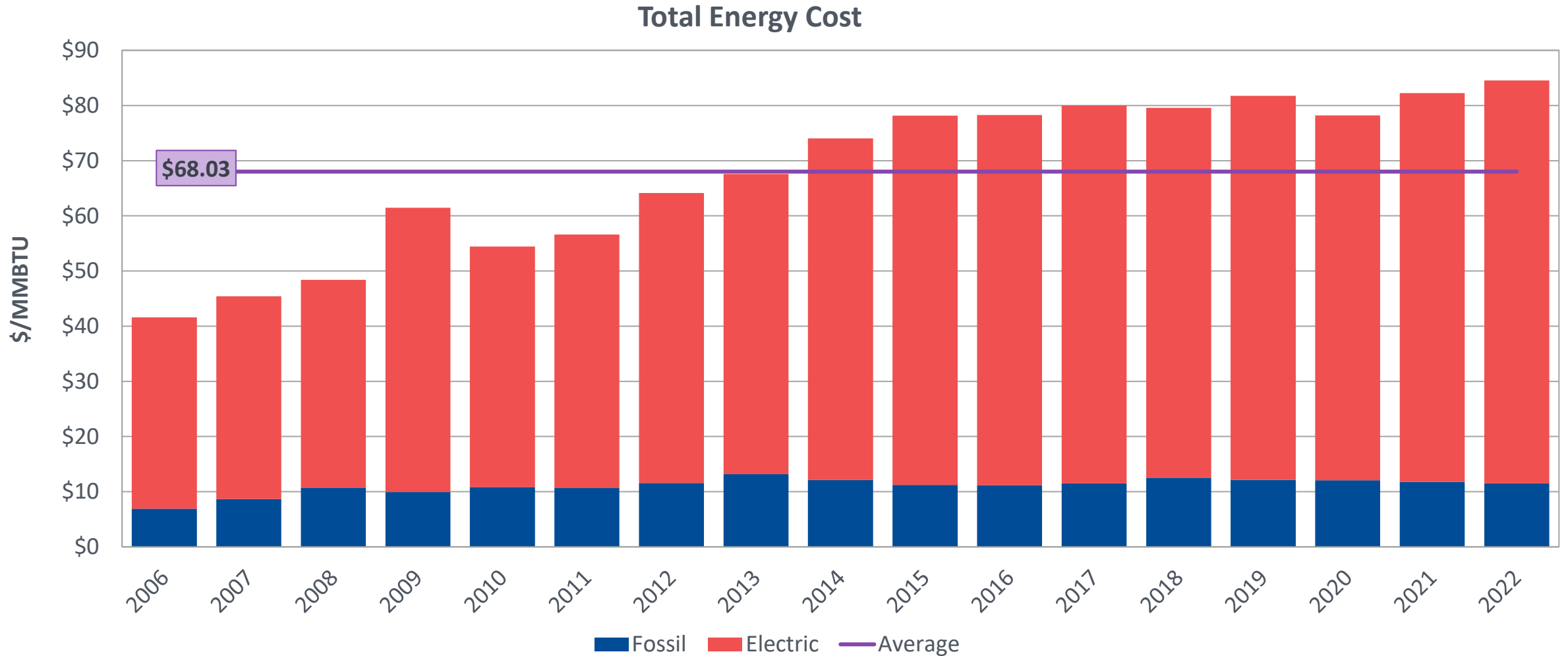
Total Energy Consumption



Energy Expenses are Increasing Over Time



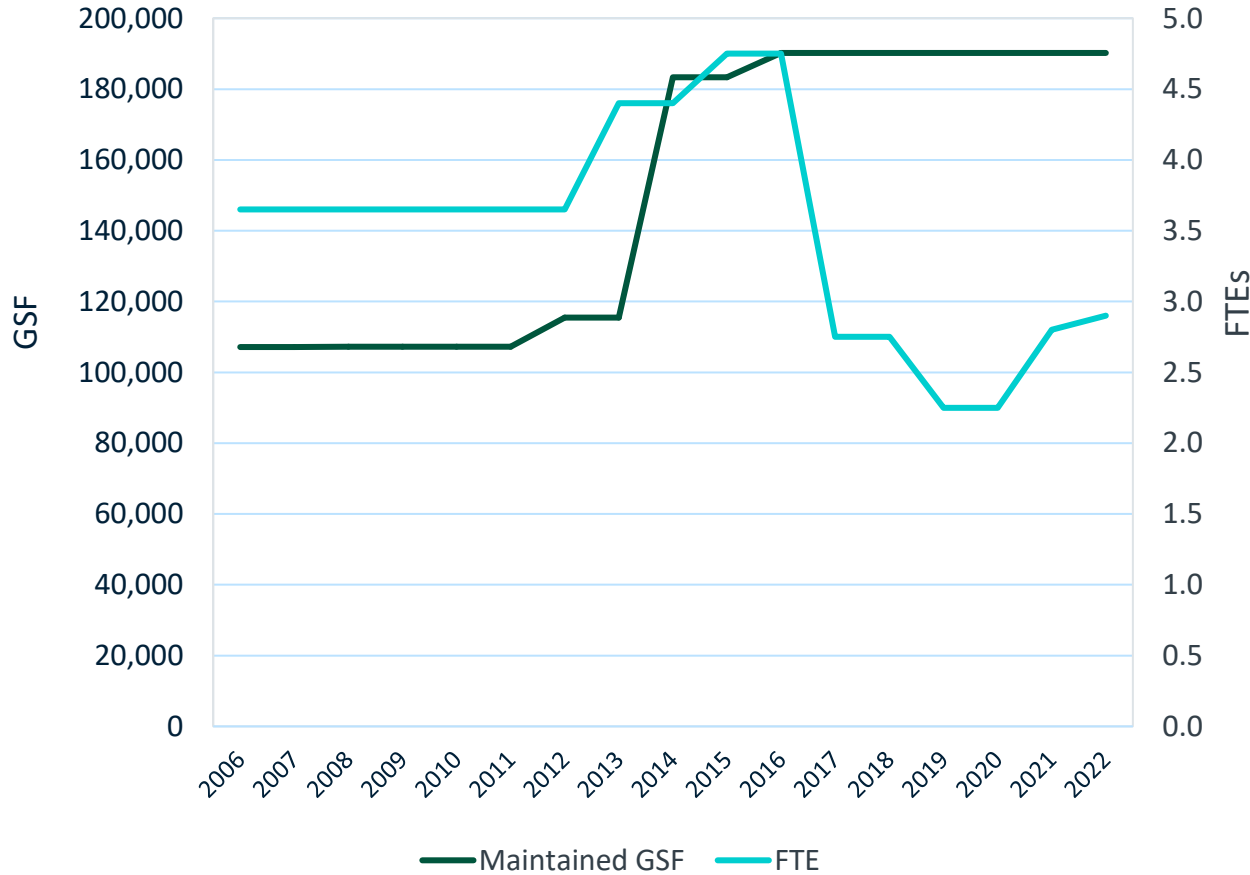
Electric unit costs have steadily continued to increase throughout analysis



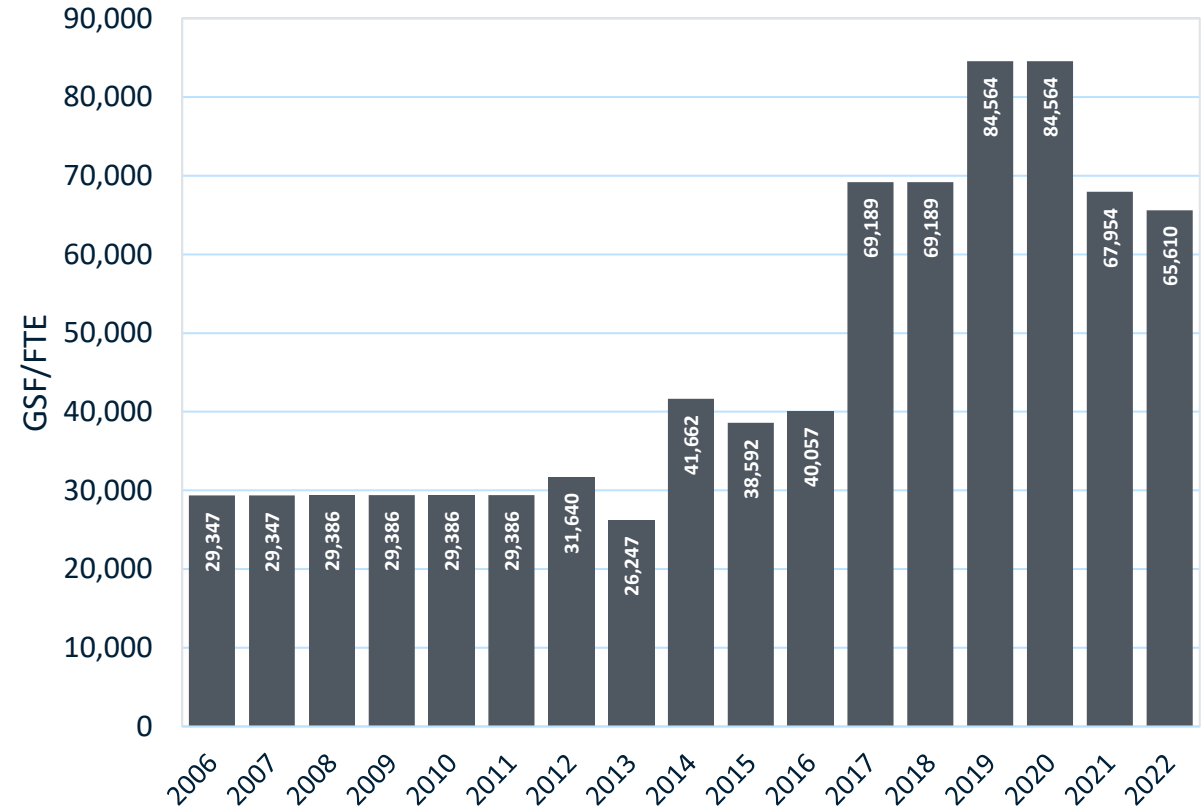
Maintenance Staffing Coverage

Increases in FTE led to a minimal decrease in coverage rates

Maintenance Staffing



Maintenance Coverage



Custodial Staffing Coverage

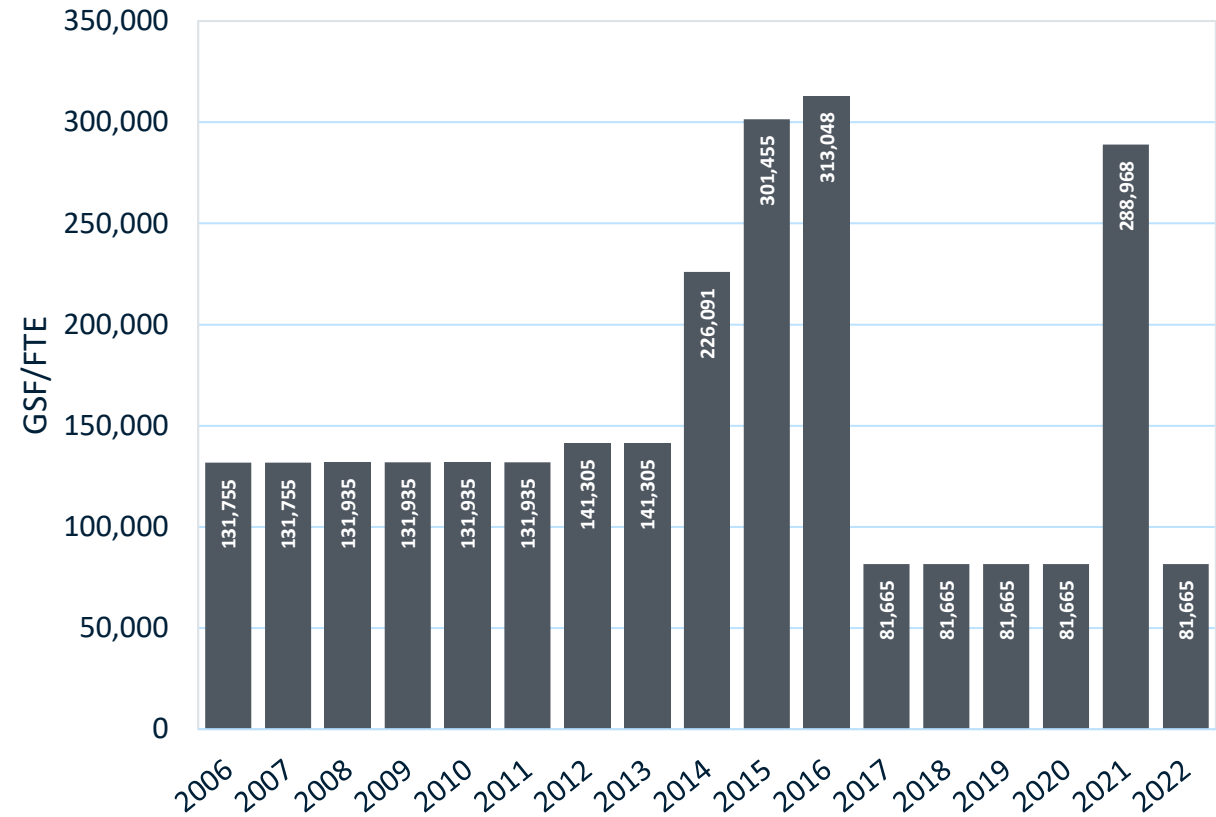


Increases in FTE result in a return to historic coverage levels

Custodial Staffing



Custodial Coverage

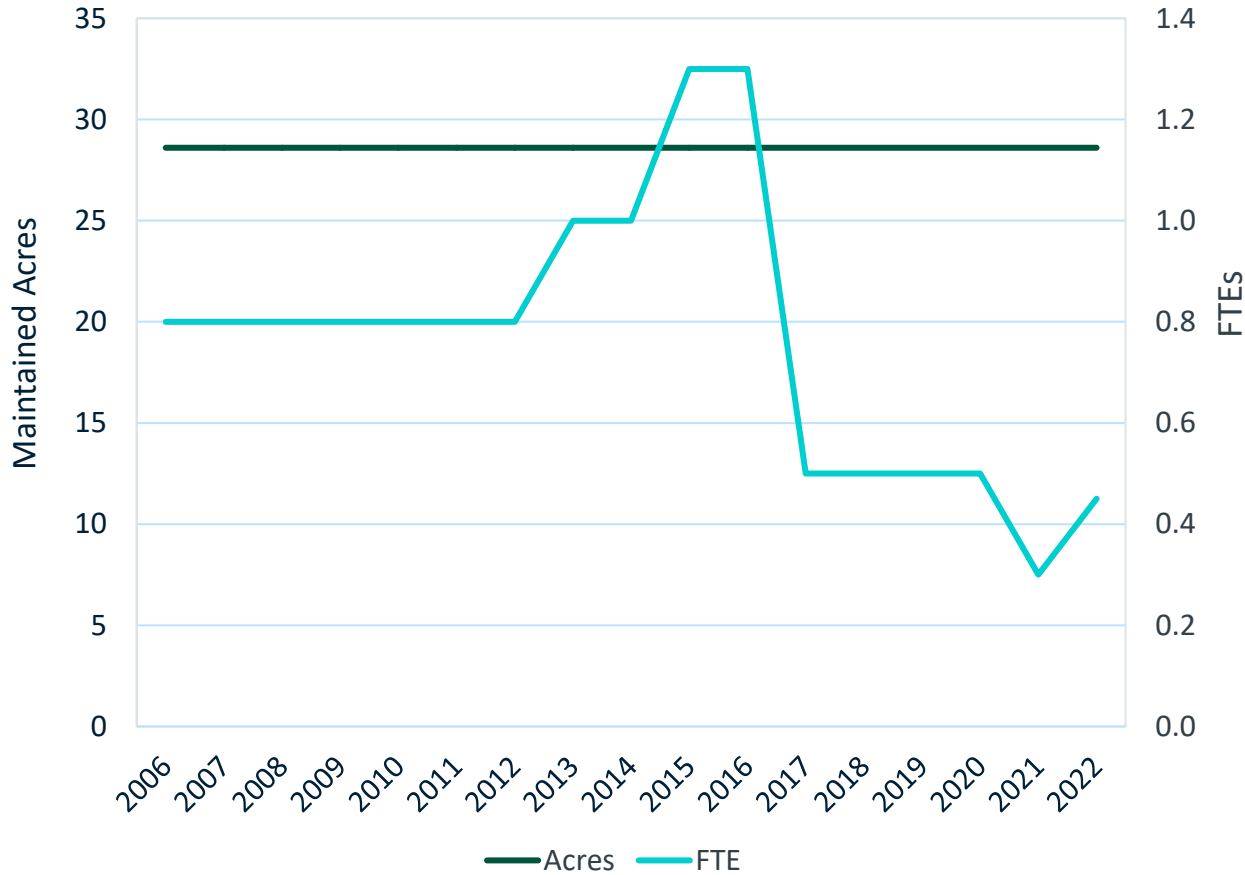


Grounds Staffing Coverage

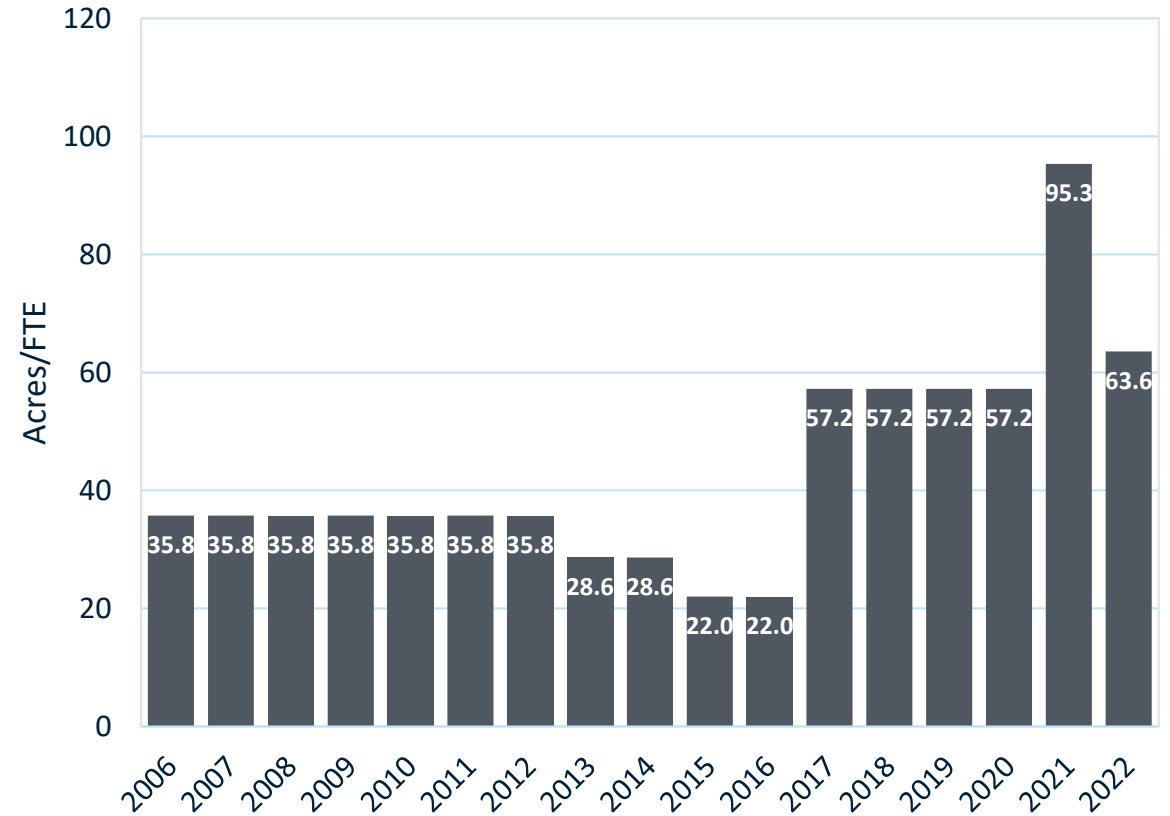


Minor fluctuations to grounds FTE's have dramatic effect on coverage ratios at KPC

Grounds Staffing



Grounds Coverage



GARDIAN[®]

Space Profile:

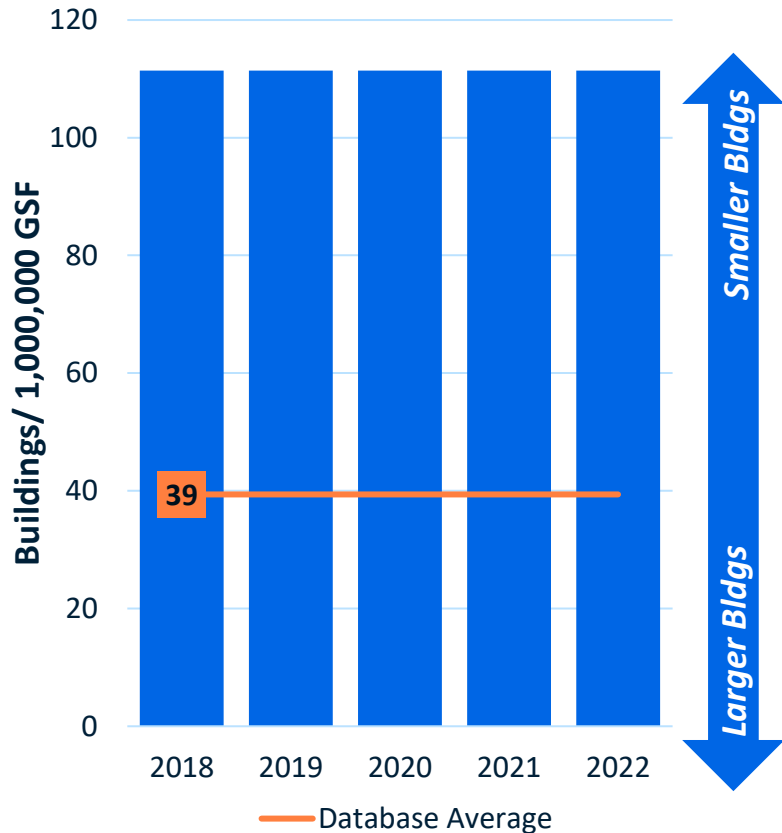
Kodiak College

Qualifying Metrics – Building Demographics

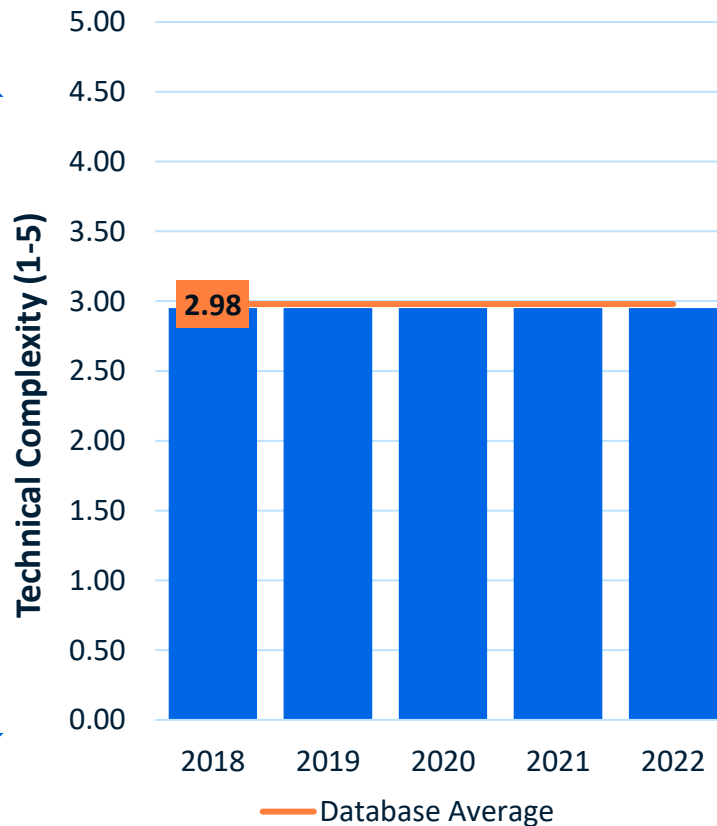


Kodiak is more intense, denser, and slightly less technically complex than database

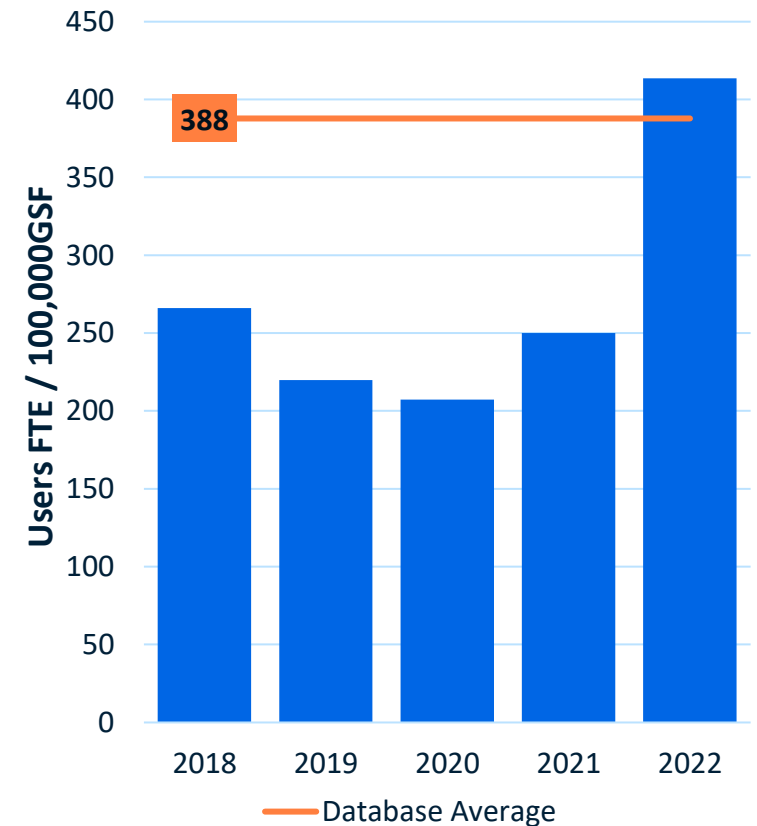
Building Intensity



Technical Complexity



Density Factor

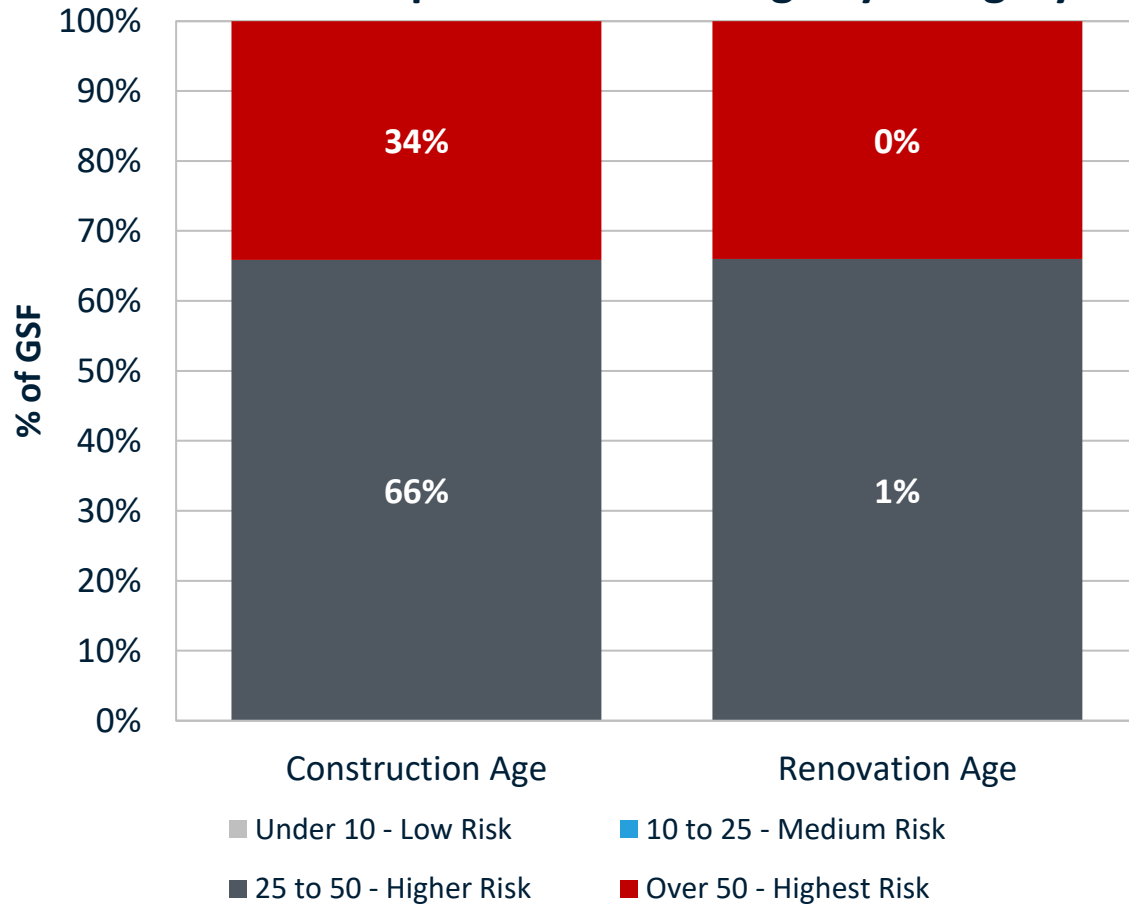


Aging Campus Puts Buildings At Risk



An older campus will cause operational strain, while demanding capital investment

Campus Renovation Age by Category



	Operational Demands:	Capital Risk:
Over 50	<p>React as Needed: Issues in components past the end of their lifecycles will demand reactive maintenance.</p>	<p>Highest Risk: Life cycles of major components past due – end of building life cycle approaching.</p>
25-50	<p>Balance PM and Reactive Maintenance: Younger components still require PM. Aging components require reactive maintenance.</p>	<p>Higher Risk: Life Cycles coming due in core building components.</p>
10-25		<p>Medium Risk: Lower cost space renewal updates needed.</p>
Under 10	<p>Focus on PM: Significant need for PM in young systems.</p>	<p>Low Risk: “Honeymoon” period – little need for capital reinvestment.</p>



Capital Profile:

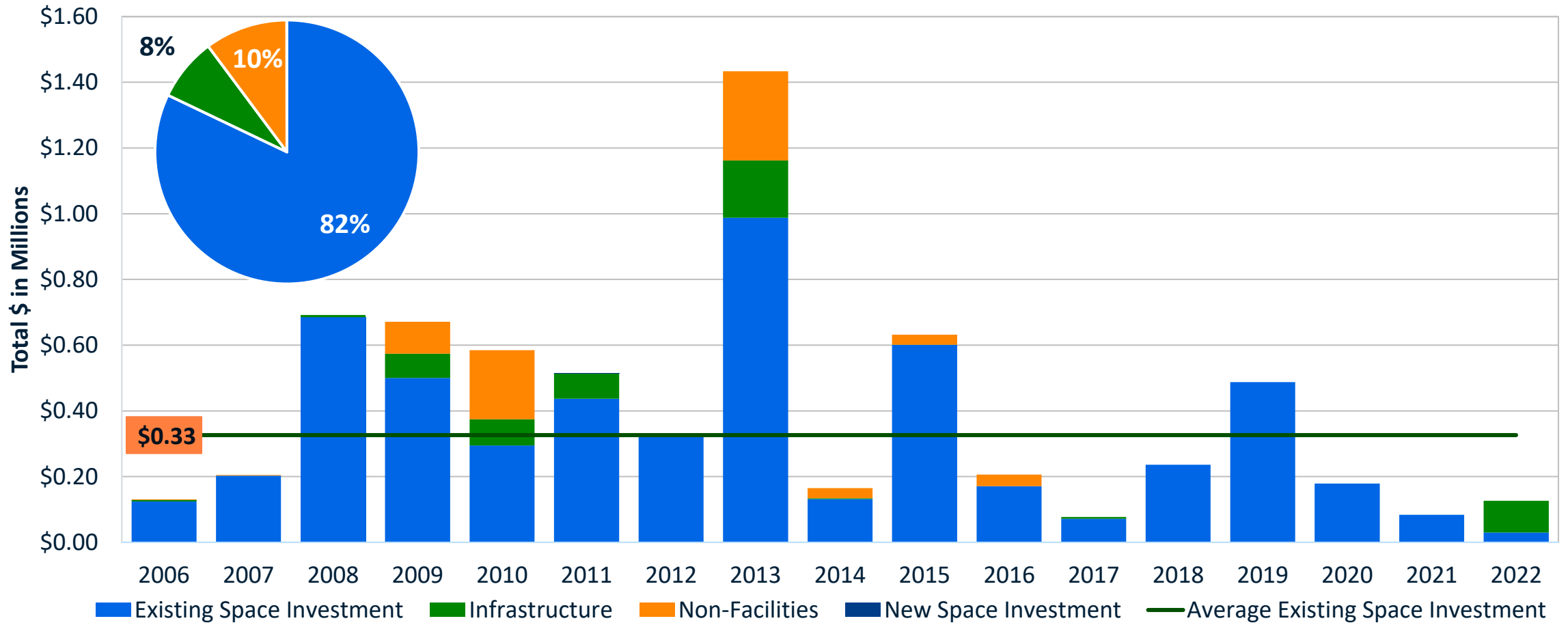
Kodiak College

Focusing Investments on Aging Campus



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

Total Capital Investment

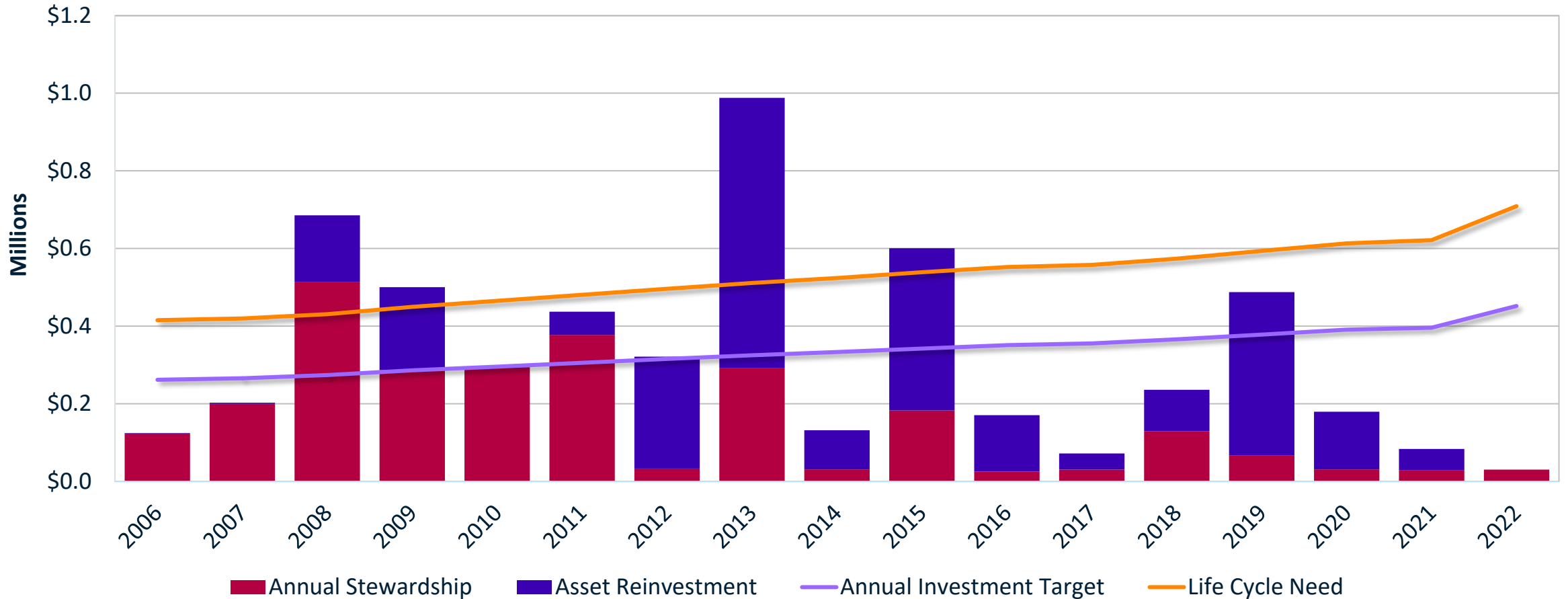


Capital Investment vs. Annual Investment Target



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

Total Capital Investment vs. Funding Target

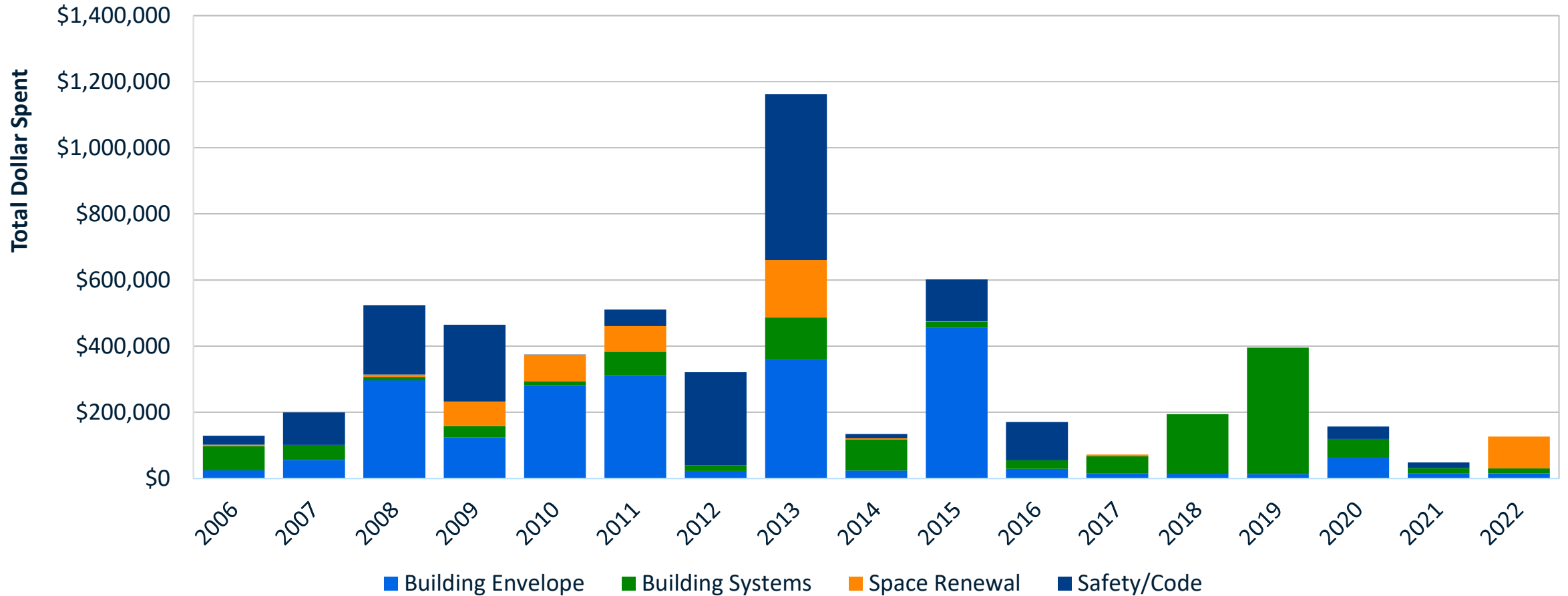


Existing Space Investment Breakout



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

Existing Space Capital Breakout

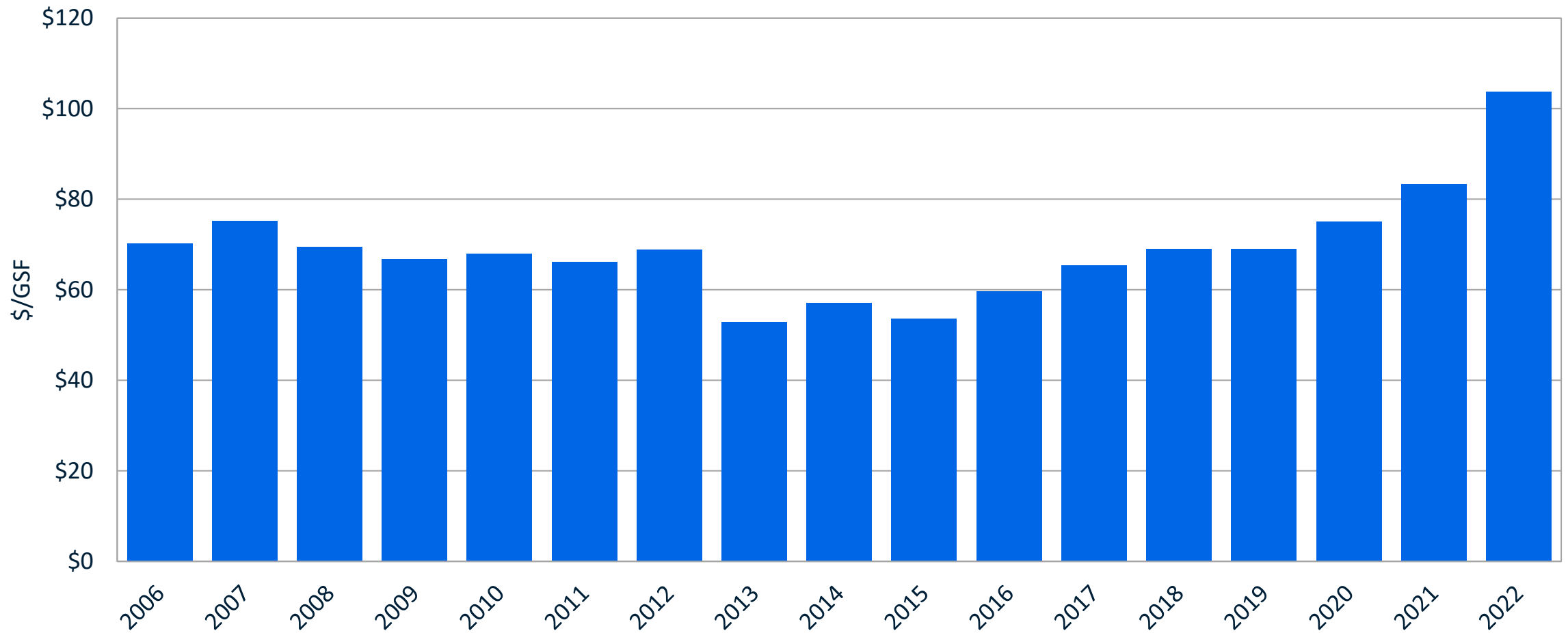


Asset Reinvestment Need has Increased since 2015



Asset Reinvestment Need continues to increase as capital investments have decreased

Total Asset Reinvestment Need \$/GSF



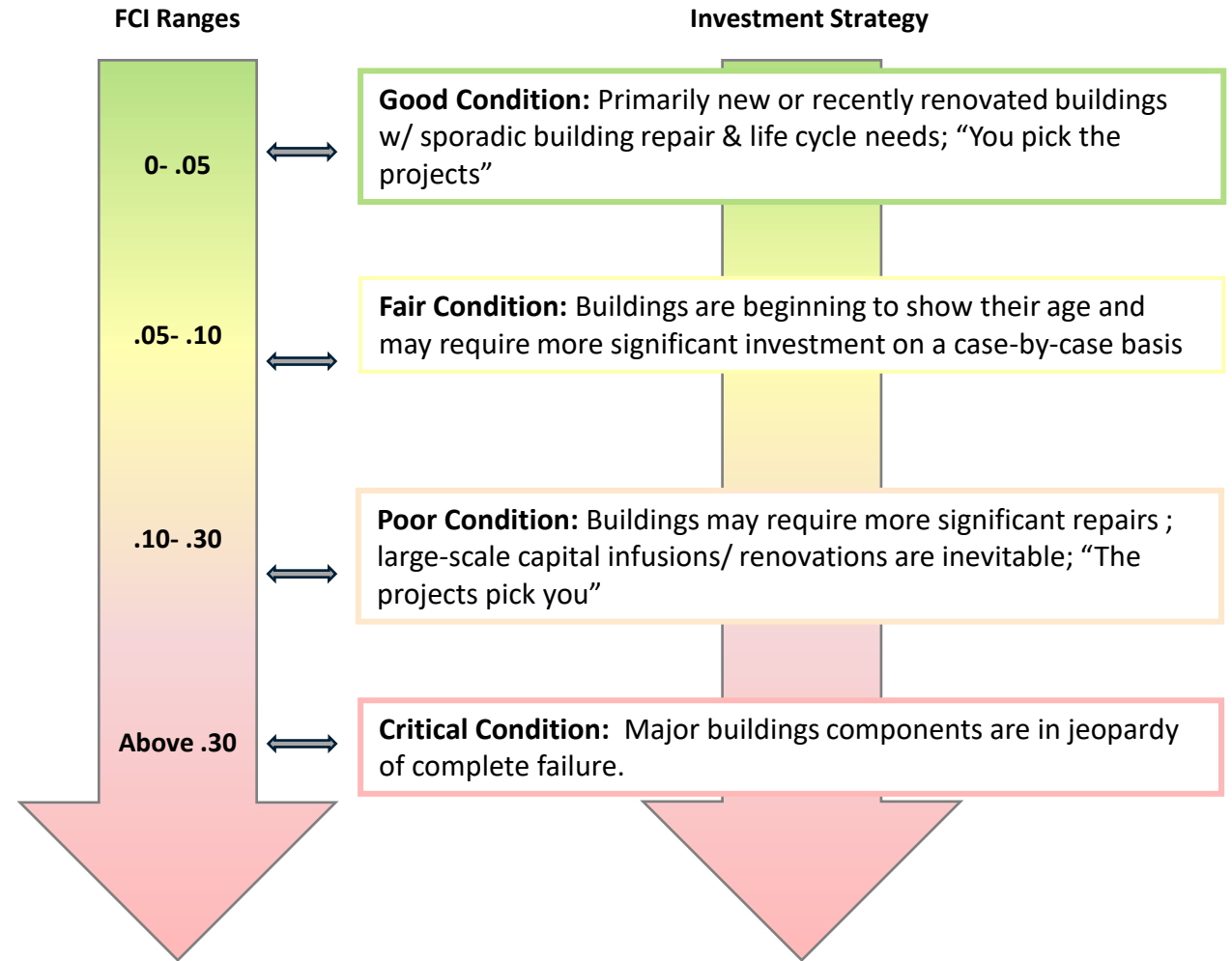
Facilities Condition Index



Condition based investment strategy

$$\text{FCI} = \frac{\text{Backlog}}{\text{Replacement Value}}$$

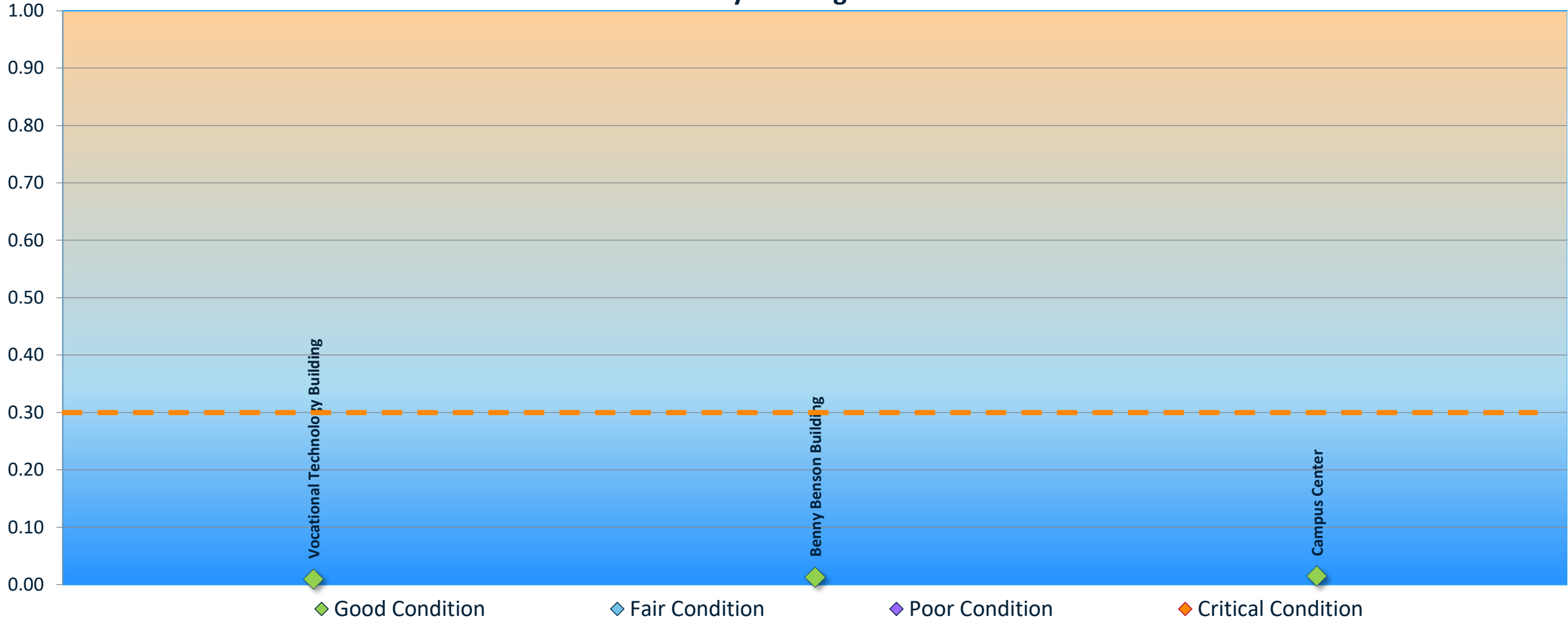
Campus leadership can use FCI categories for different buildings and portfolios, helping to balance capital investments across campus and prioritize project selection



Facilities Condition Index – All buildings



FCI by Building





Operations Success:

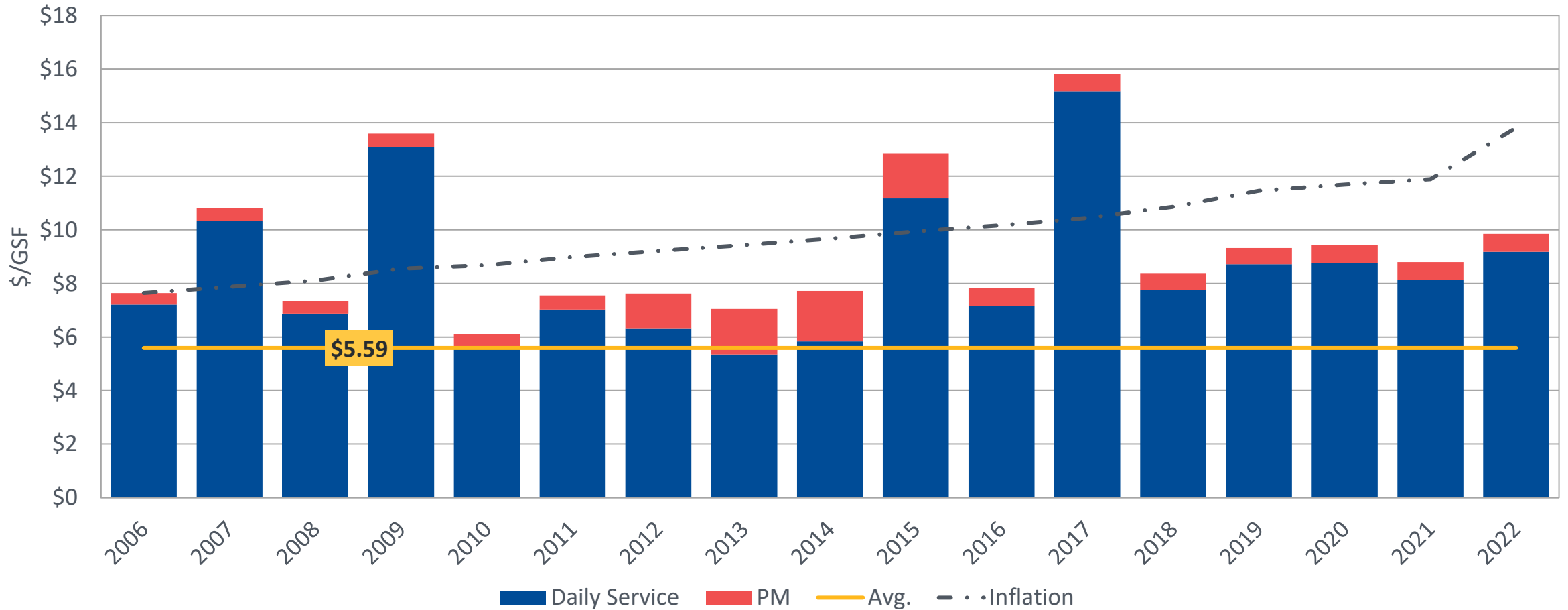
Kodiak College

Facilities Operating Expenditures



Kodiak's operating expenditures remain consistent over the last five years, below inflation

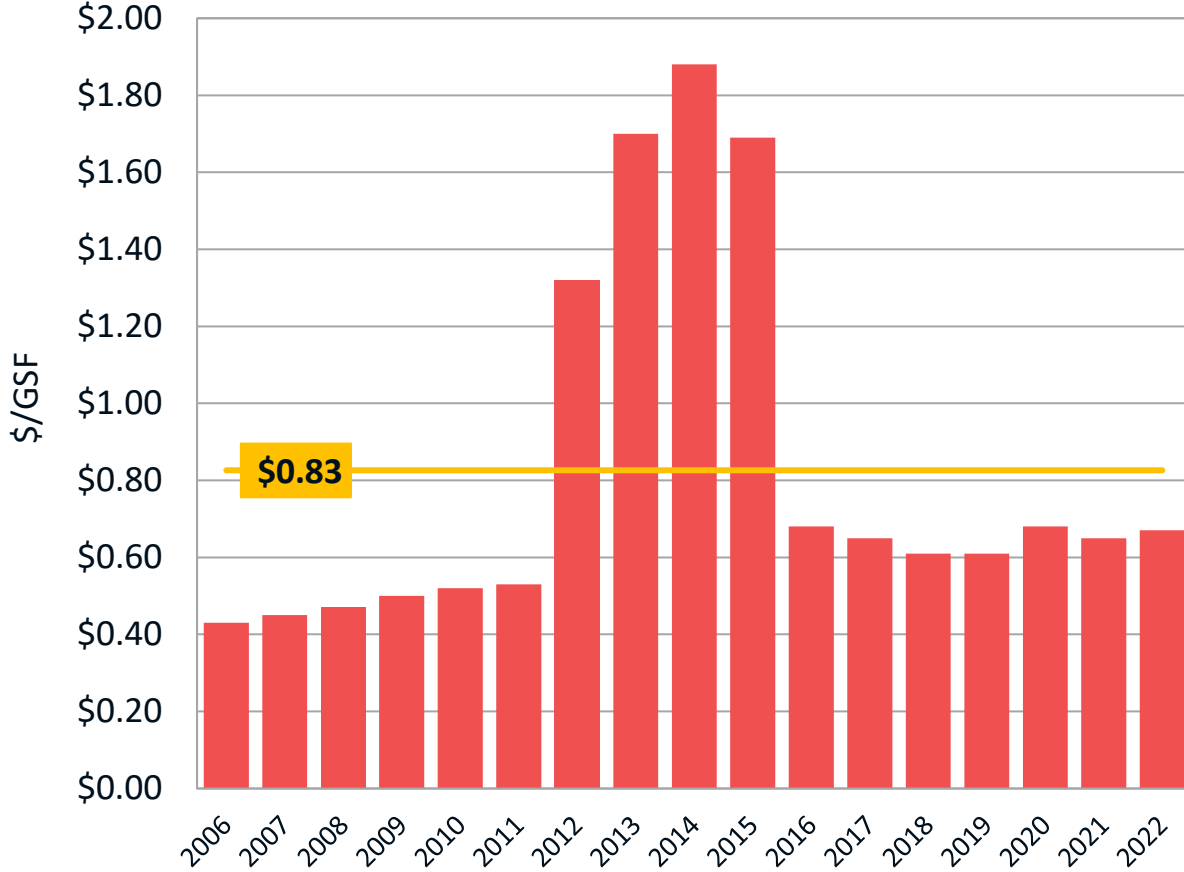
Facilities Operating Actuals



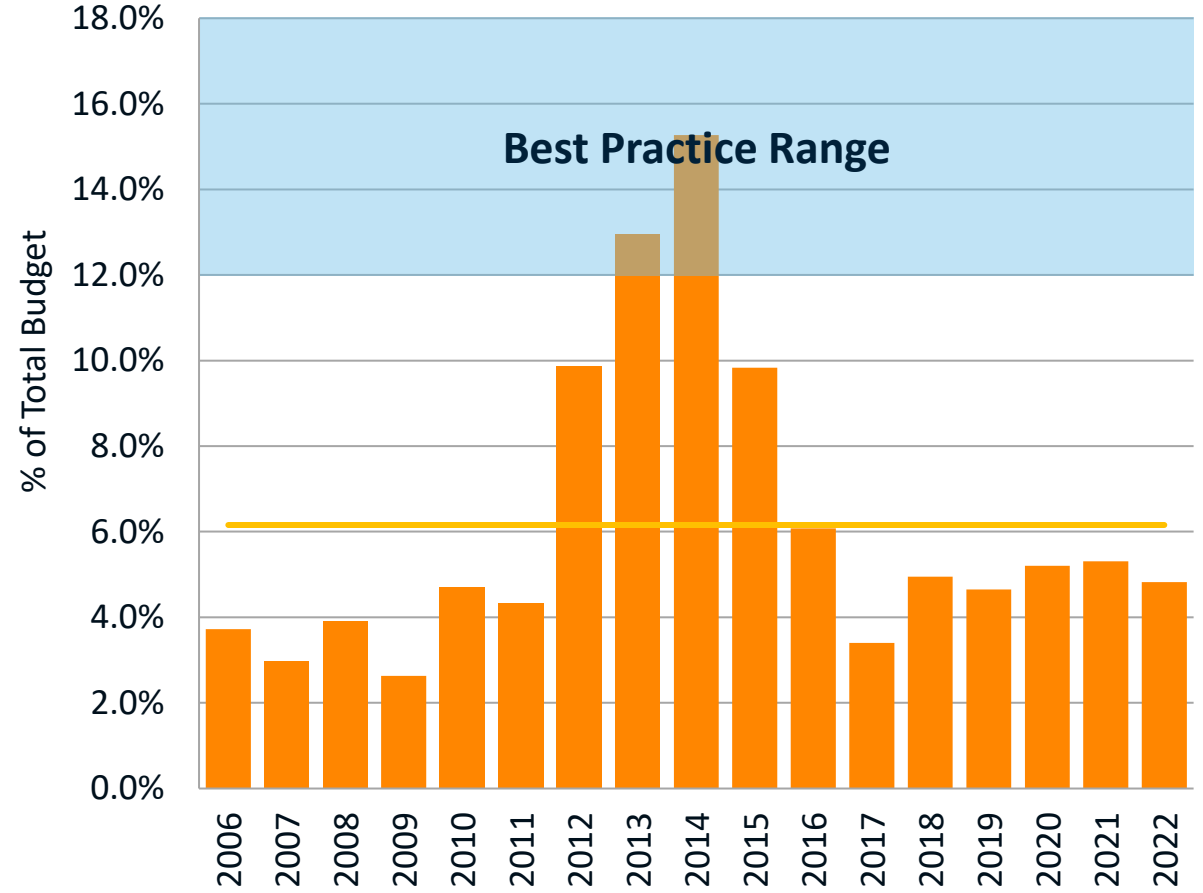
PM Declines, is Below Recommended Spending Range

Minimal PM dollars should be focused in costly to replace or repair assets

Preventive Maintenance Spending



Preventive Maintenance Spending

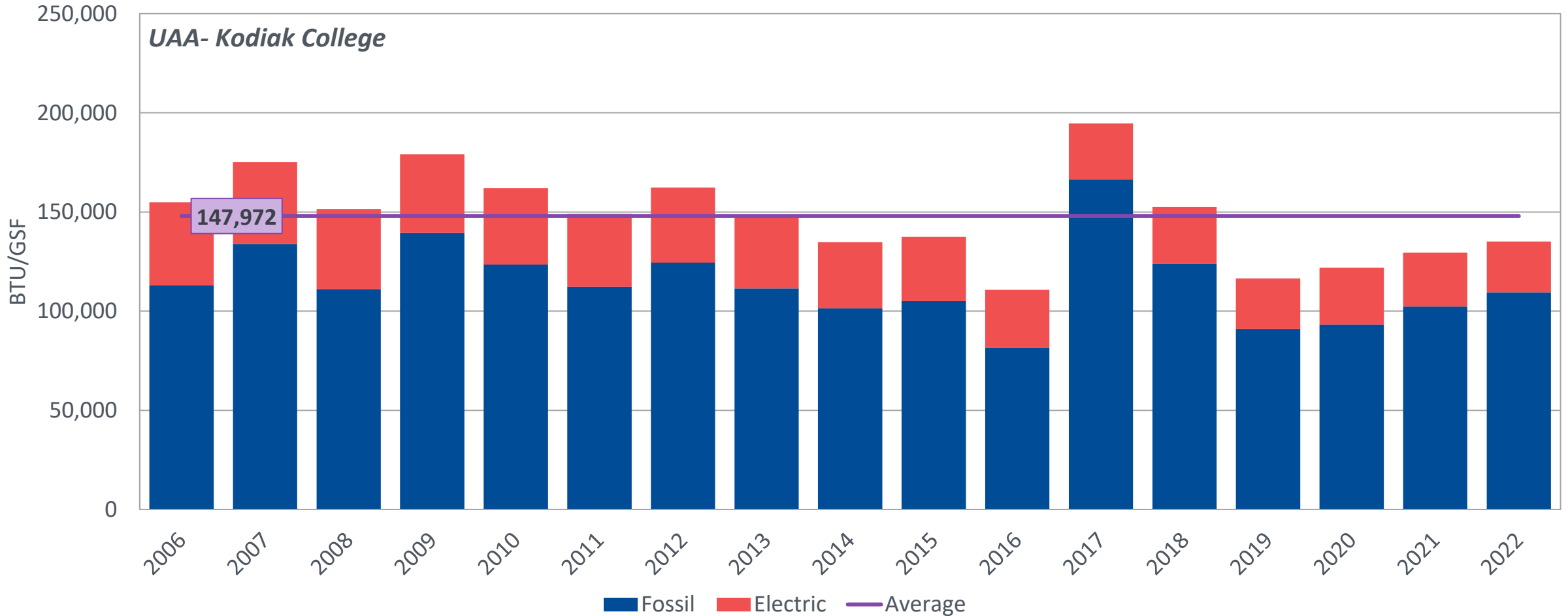


Total Energy Consumption



Kodiak energy consumption decreases from 2017 high

Total Energy Consumption

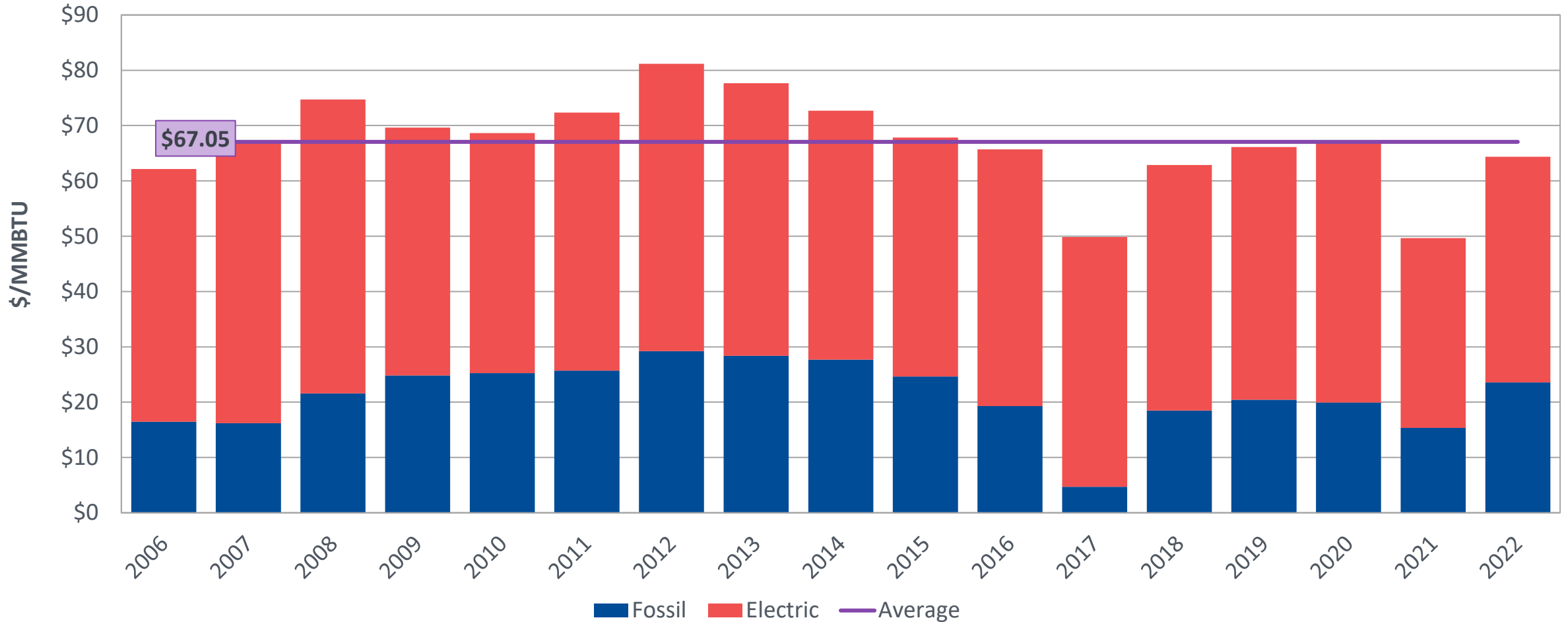


Energy Expenses are Increasing Over Time



FY22 unit costs substantially increase, resulting in overall cost increases

Total Energy Cost

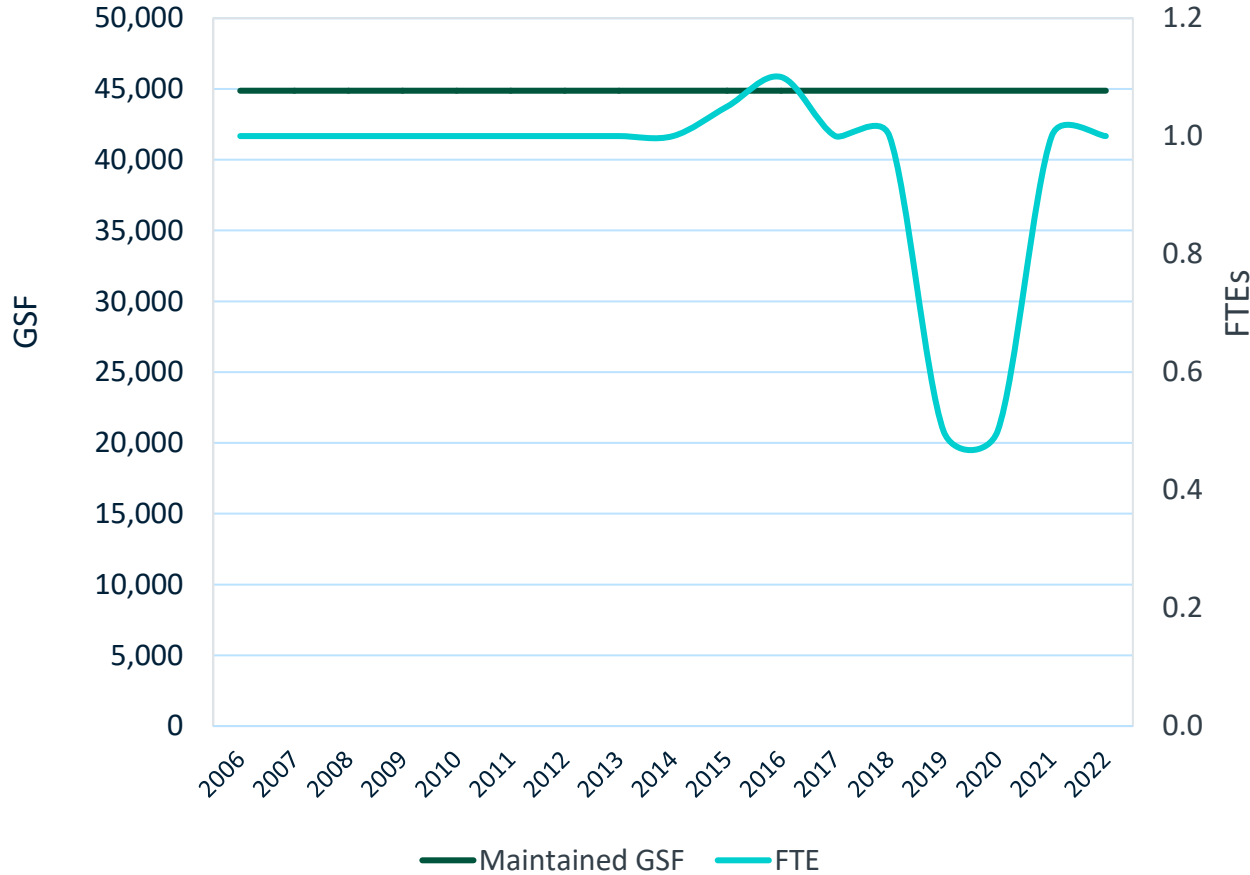


\$67.05

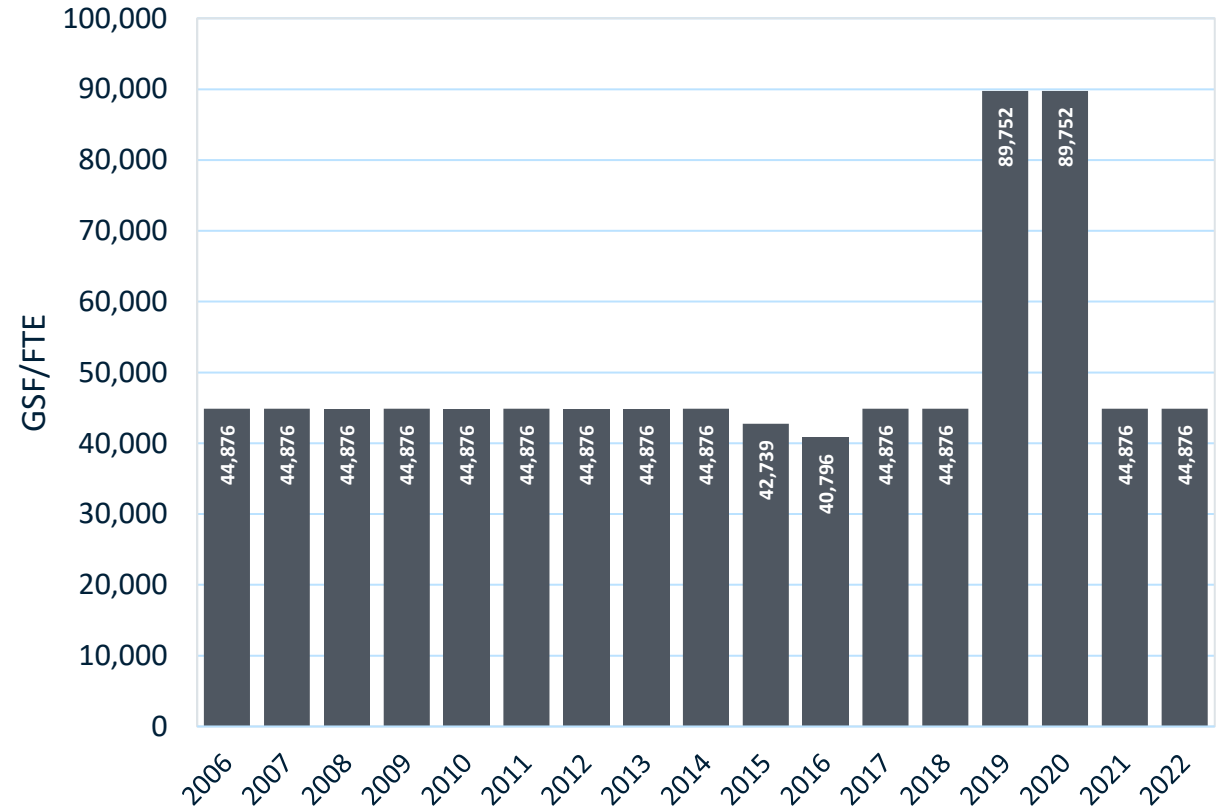
Maintenance Staffing Coverage

Despite 2019 – 2020, staffing coverage remains consistent

Maintenance Staffing



Maintenance Coverage



Custodial Staffing Coverage

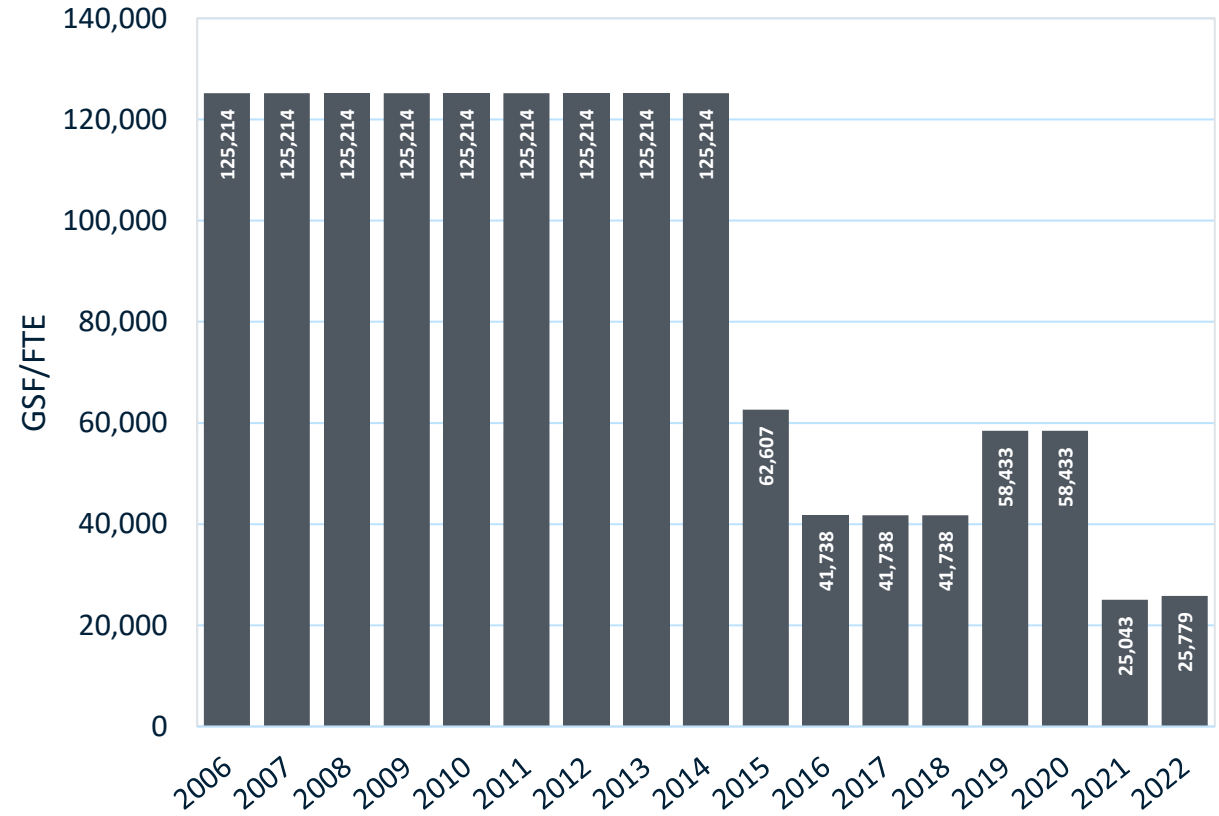


Increases in FTE results in decreased GSF per FTE

Custodial Staffing



Custodial Coverage

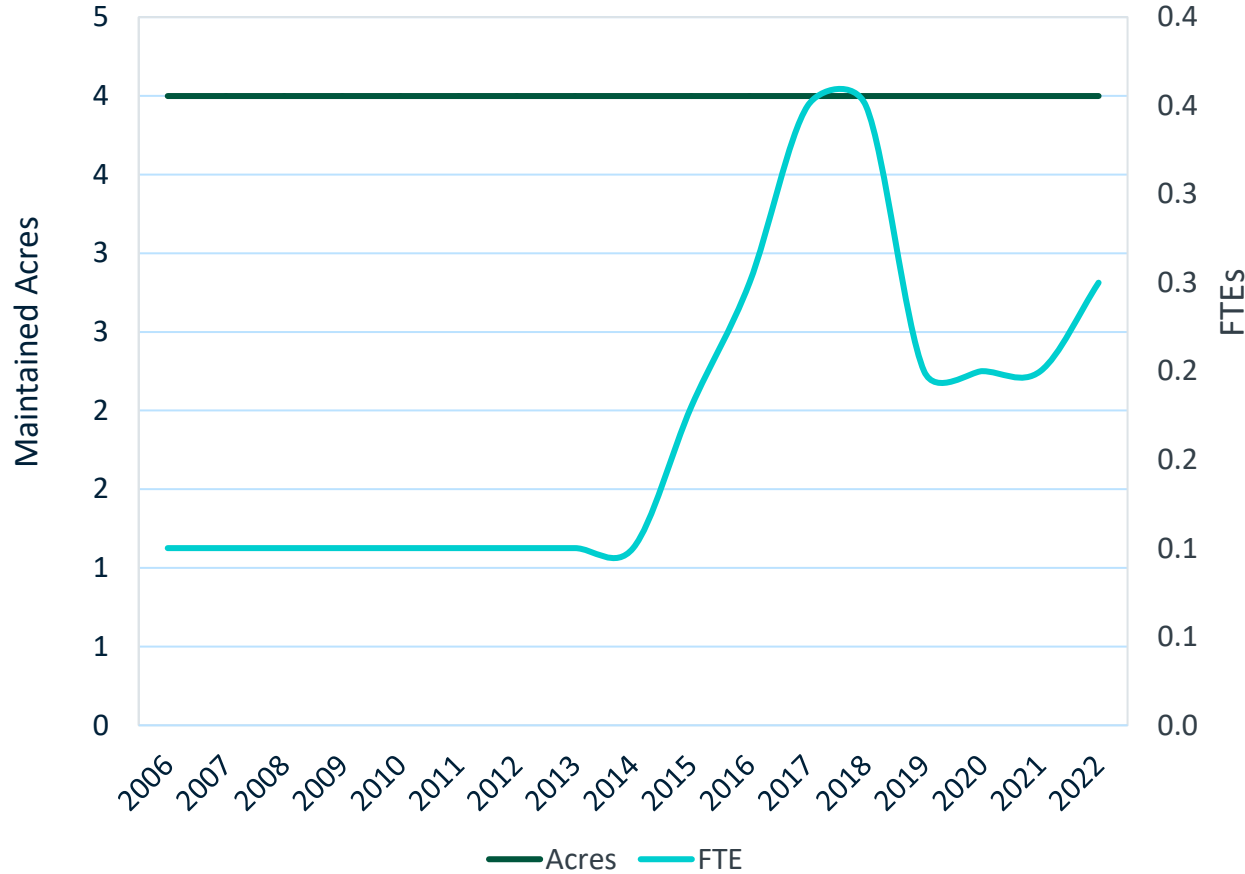


Grounds Staffing Coverage

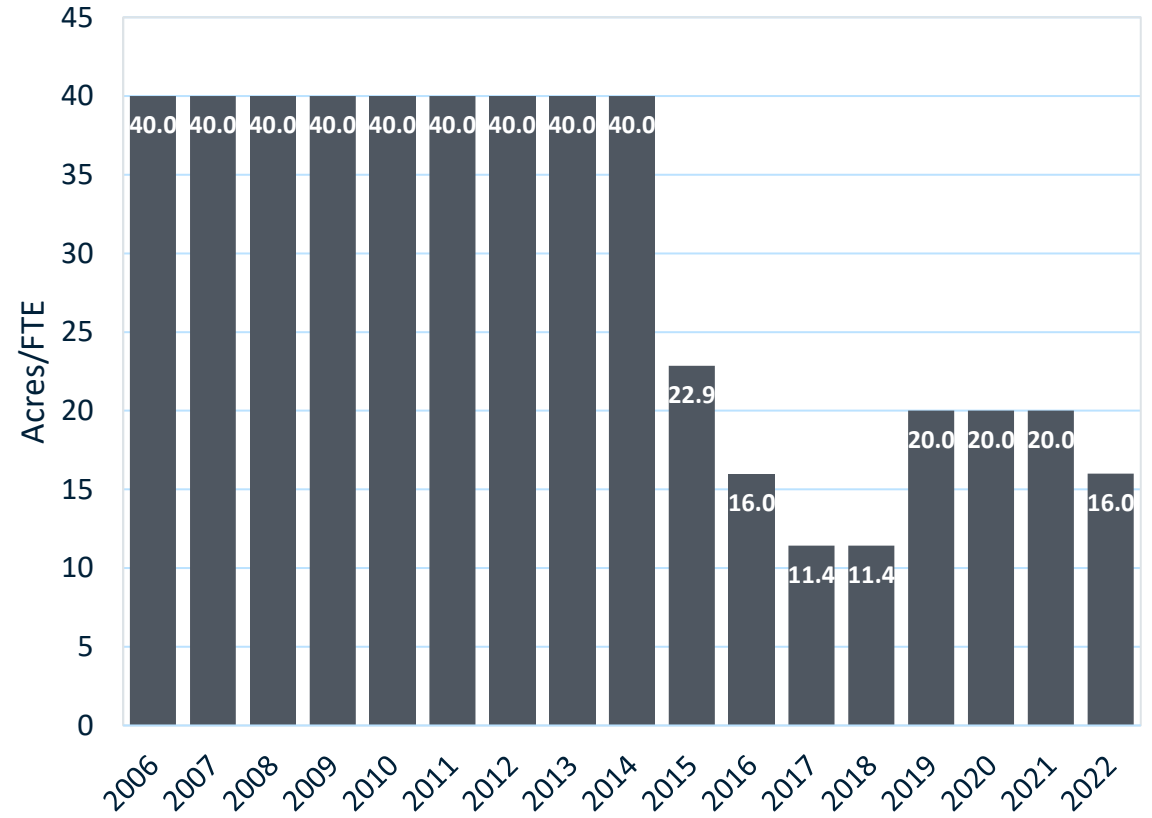


Increases to FTEs decrease acreage per FTE coverage ratio

Grounds Staffing



Grounds Coverage



GARDIAN[®]

Space Profile

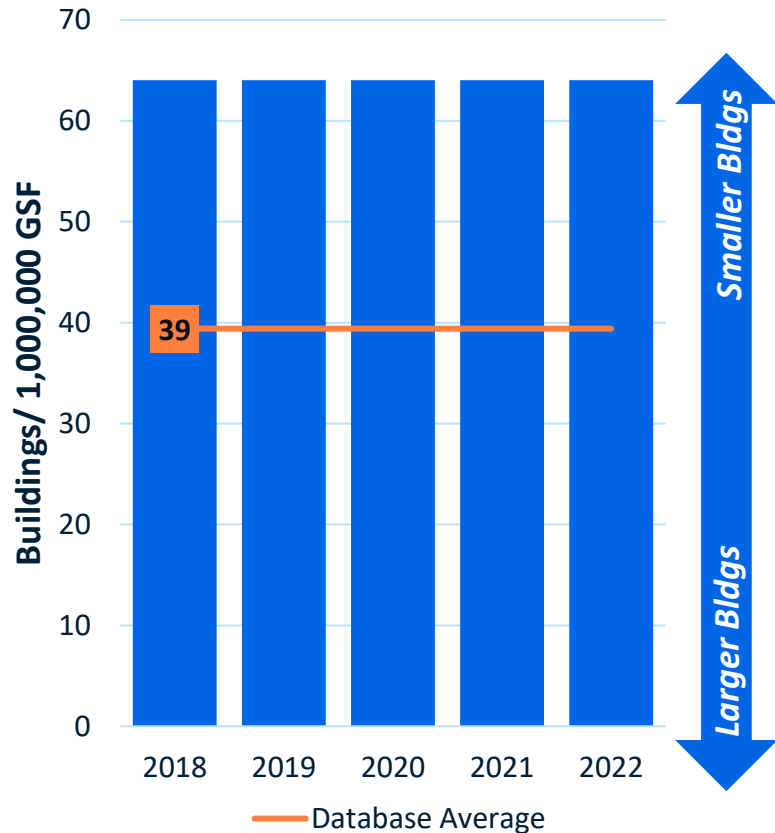
Mat-Su College

Qualifying Metrics – Building Demographics

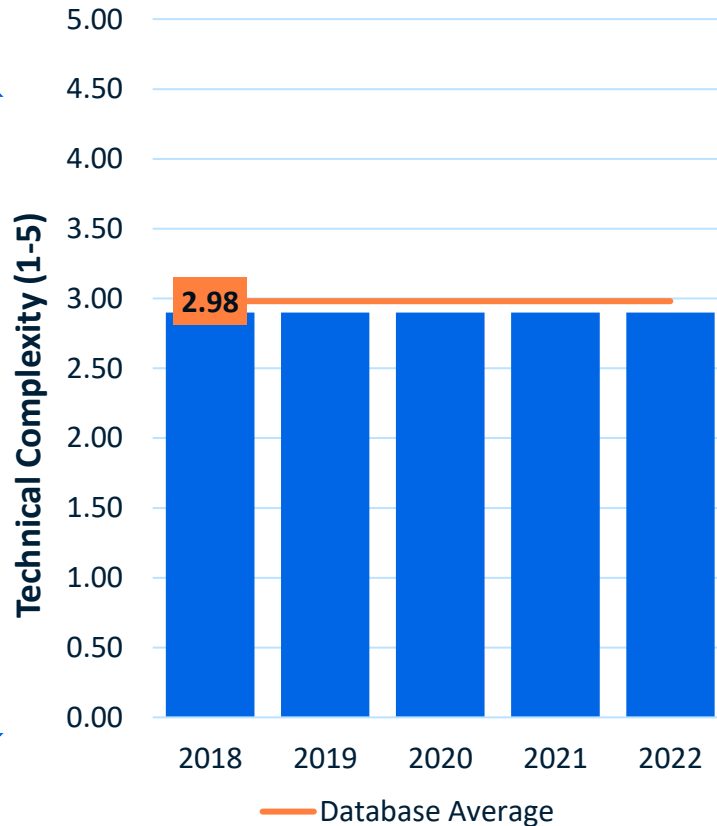


Mat-Su is more intense, less dense, and slightly less technically complex than database

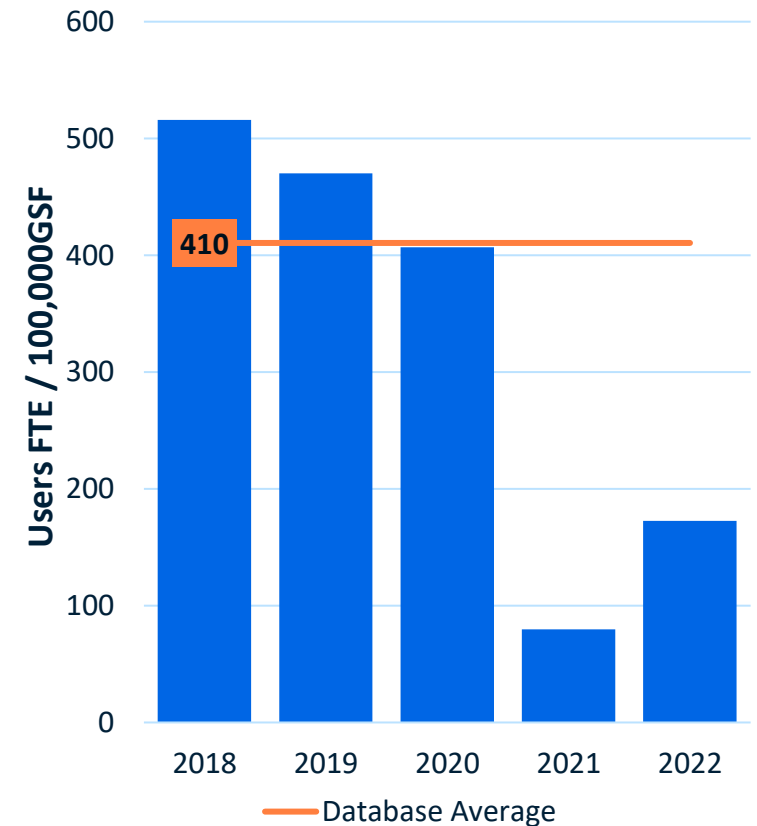
Building Intensity



Technical Complexity



Density Factor

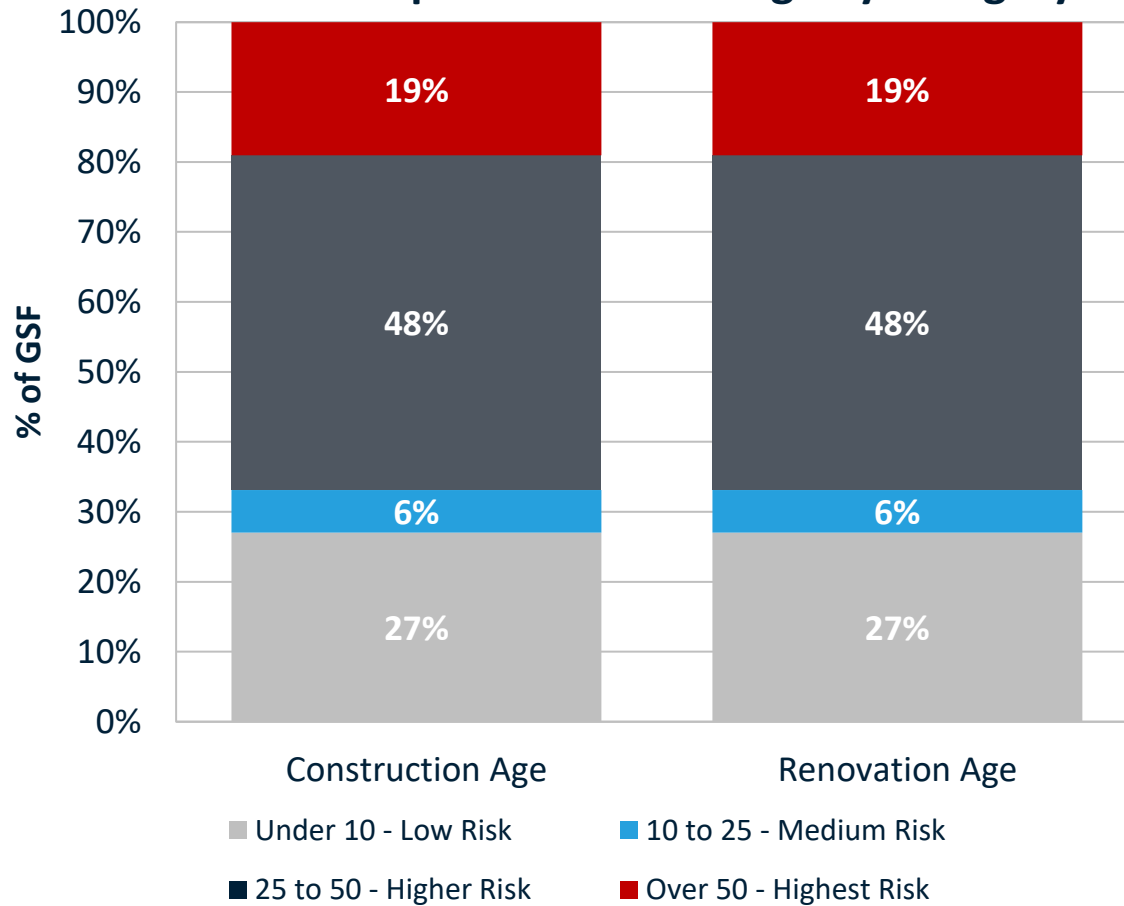


Aging Campus Puts Buildings At Risk



67% of Mat-Su campus is older than 25 years; increasing risk significantly

Campus Renovation Age by Category



	Operational Demands:	Capital Risk:
Over 50	<p>React as Needed: Issues in components past the end of their lifecycles will demand reactive maintenance.</p>	<p>Highest Risk: Life cycles of major components past due – end of building life cycle approaching.</p>
25-50	<p>Balance PM and Reactive Maintenance: Younger components still require PM. Aging components require reactive maintenance.</p>	<p>Higher Risk: Life Cycles coming due in core building components.</p>
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Under 10	<p>Focus on PM: Significant need for PM in young systems.</p>	<p>Low Risk: “Honeymoon” period – little need for capital reinvestment.</p>



Capital Profile:

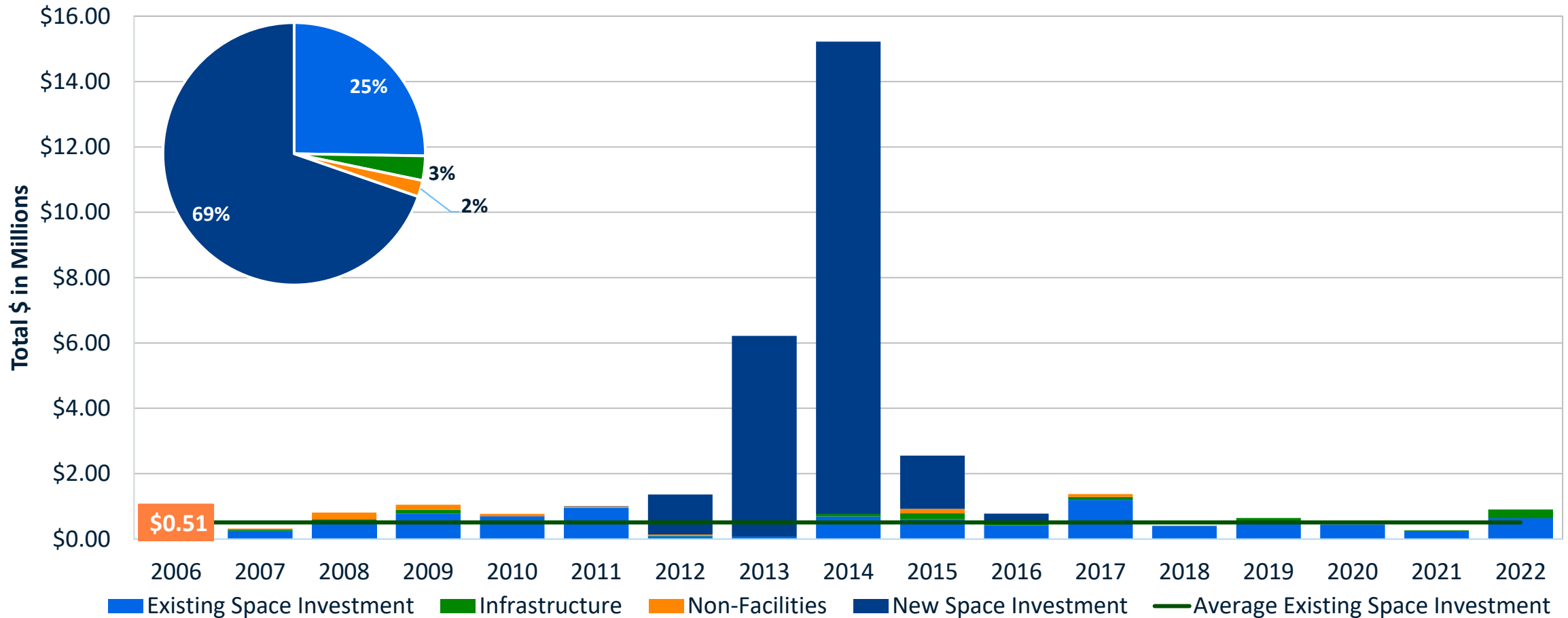
Mat-Su College

Focusing Investments on Aging Campus



Older space should be managed by increasing future investment into existing space

Total Capital Investment

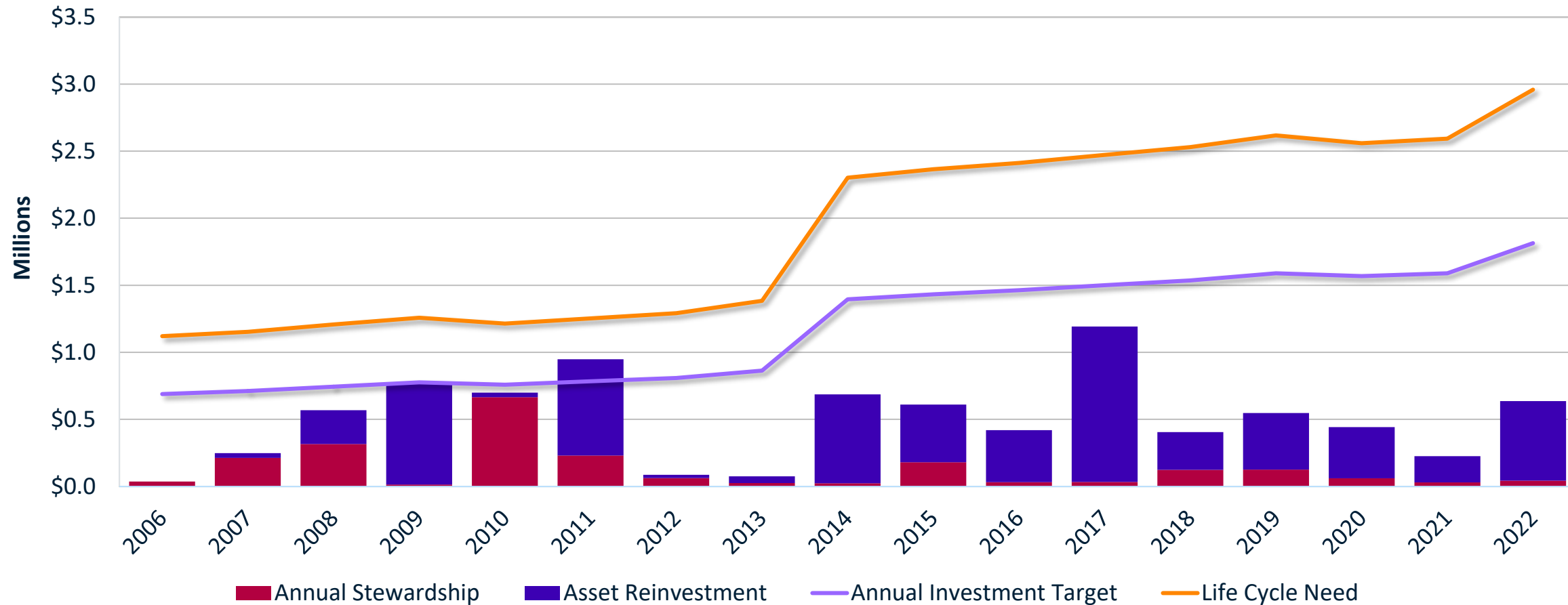


Capital Investment vs. Annual Investment Target



Mat-Su continues to miss target further increasing backlog and operational strain

Total Capital Investment vs. Funding Target

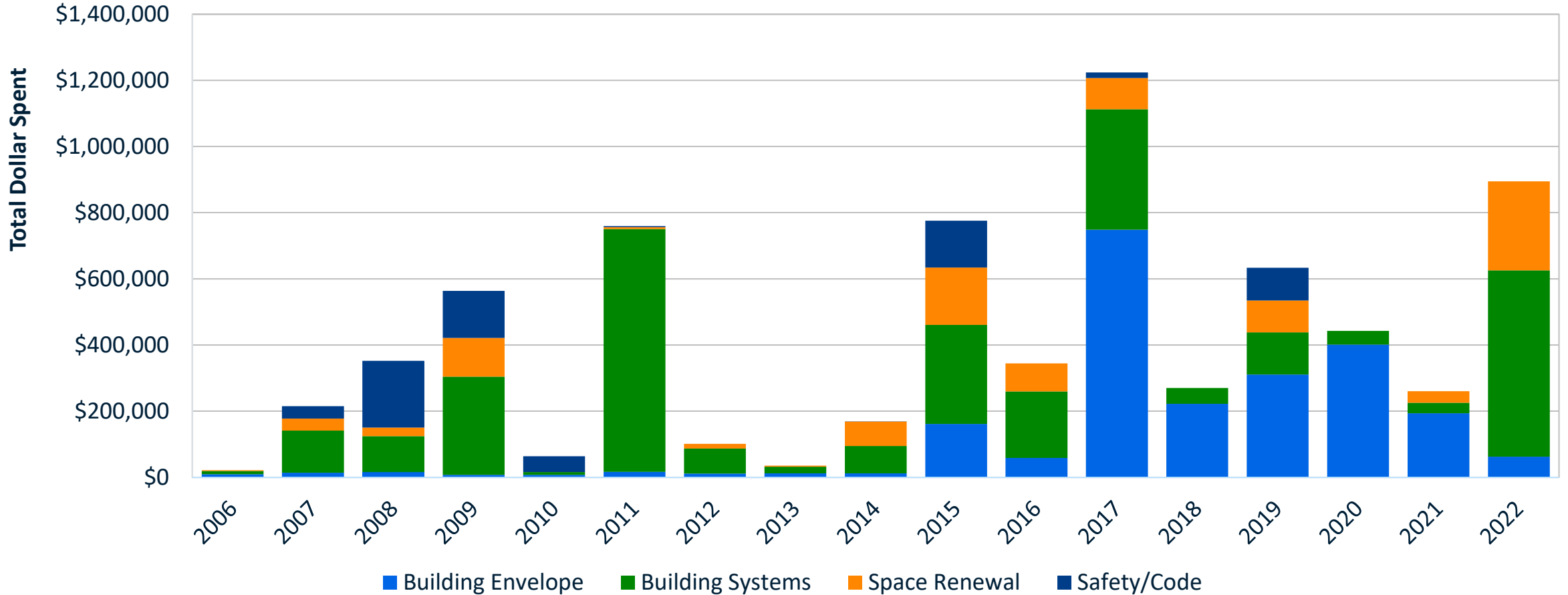


Existing Space Investment Breakout



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

Existing Space Capital Breakout

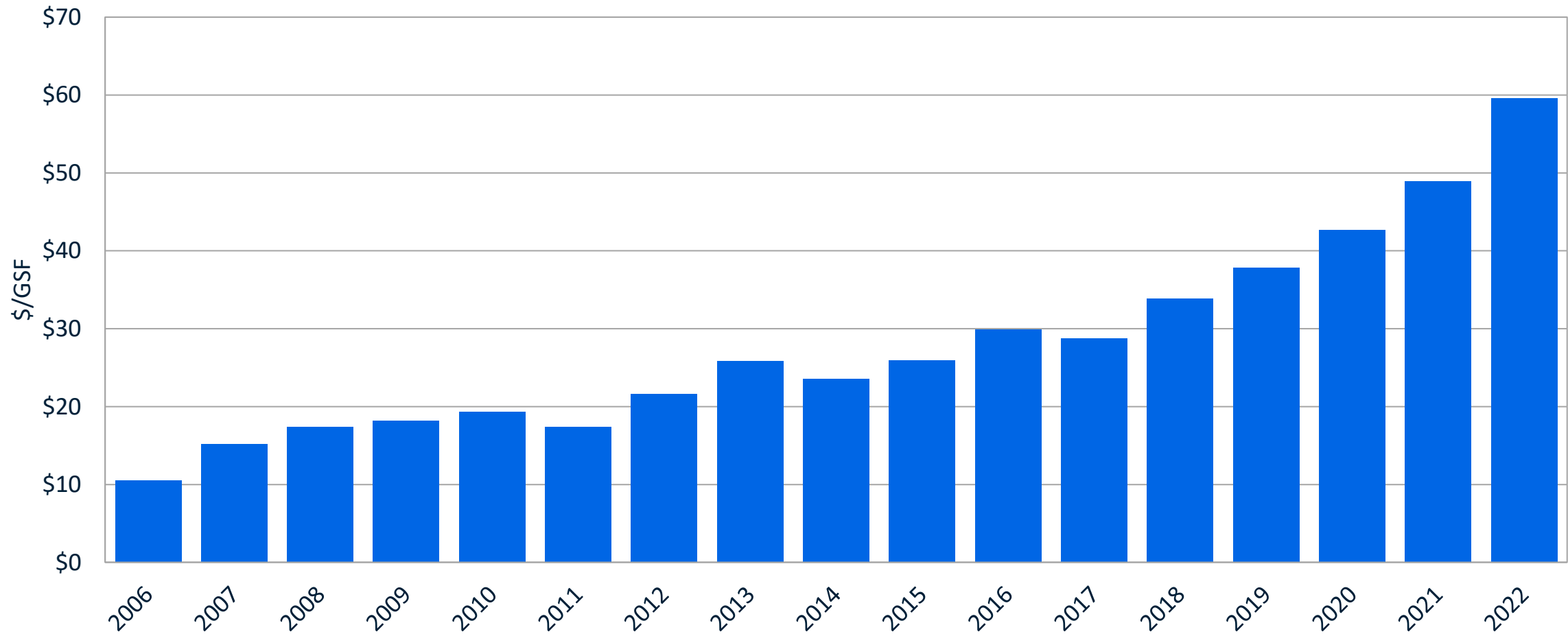


Asset Reinvestment Need has Increased since 2015



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

Total Asset Reinvestment Need \$/GSF



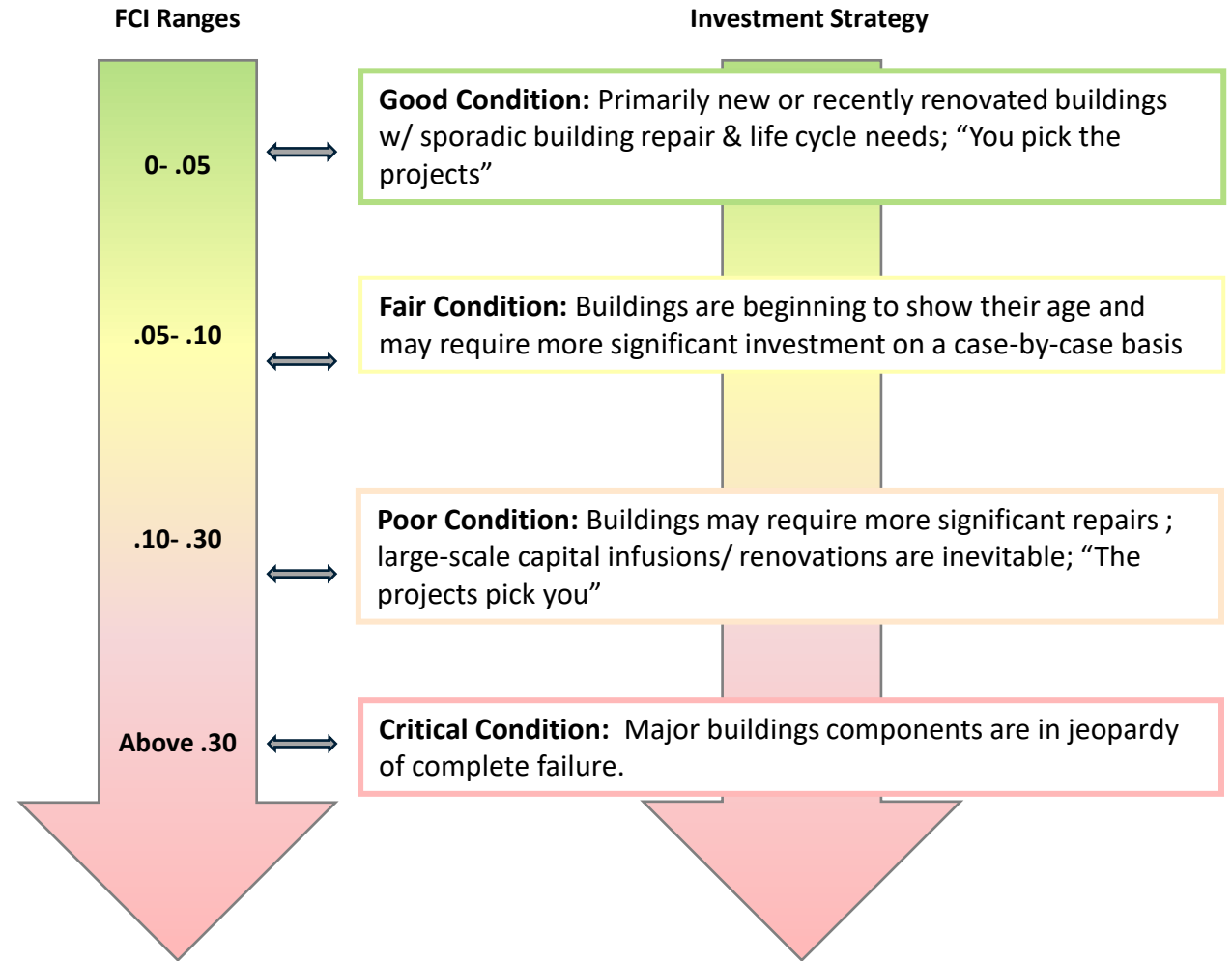
Facilities Condition Index



Condition based investment strategy

$$FCI = \frac{\text{Backlog}}{\text{Replacement Value}}$$

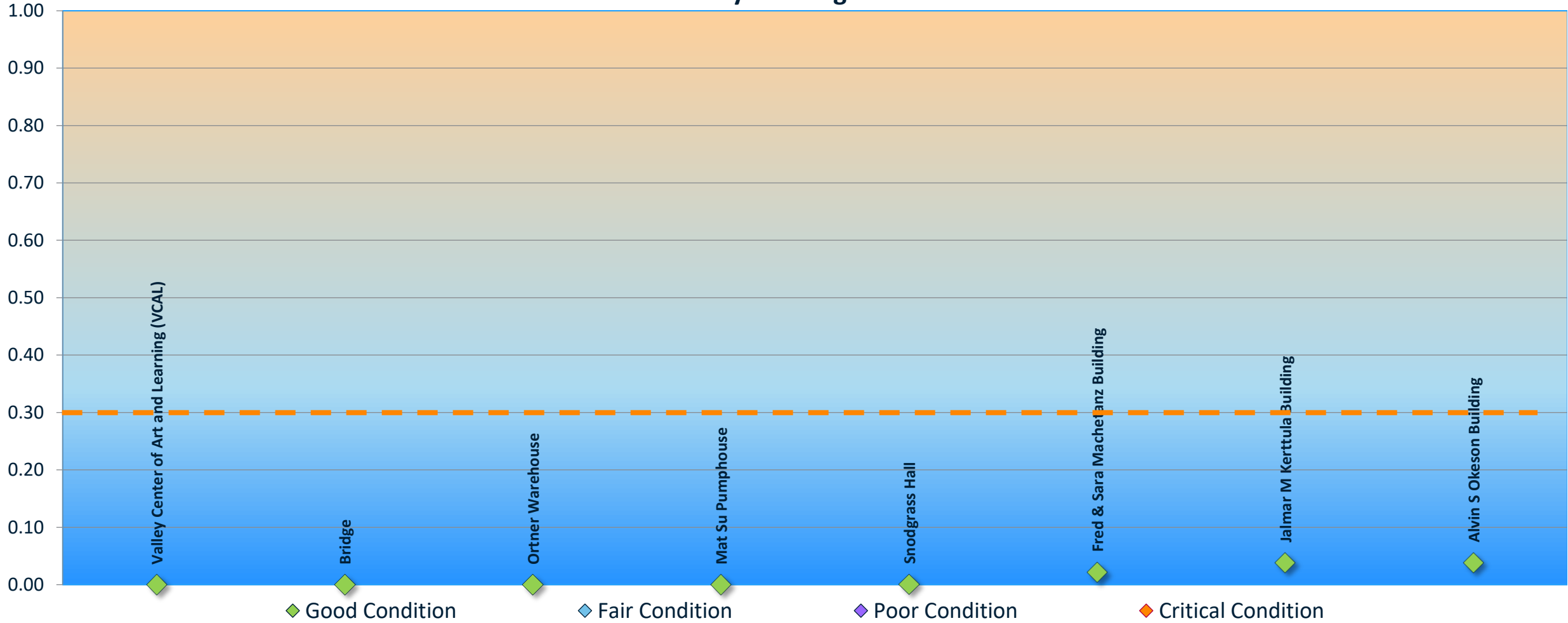
Campus leadership can use FCI categories for different buildings and portfolios, helping to balance capital investments across campus and prioritize project selection



Facilities Condition Index – All Buildings



FCI by Building





Operations Success:

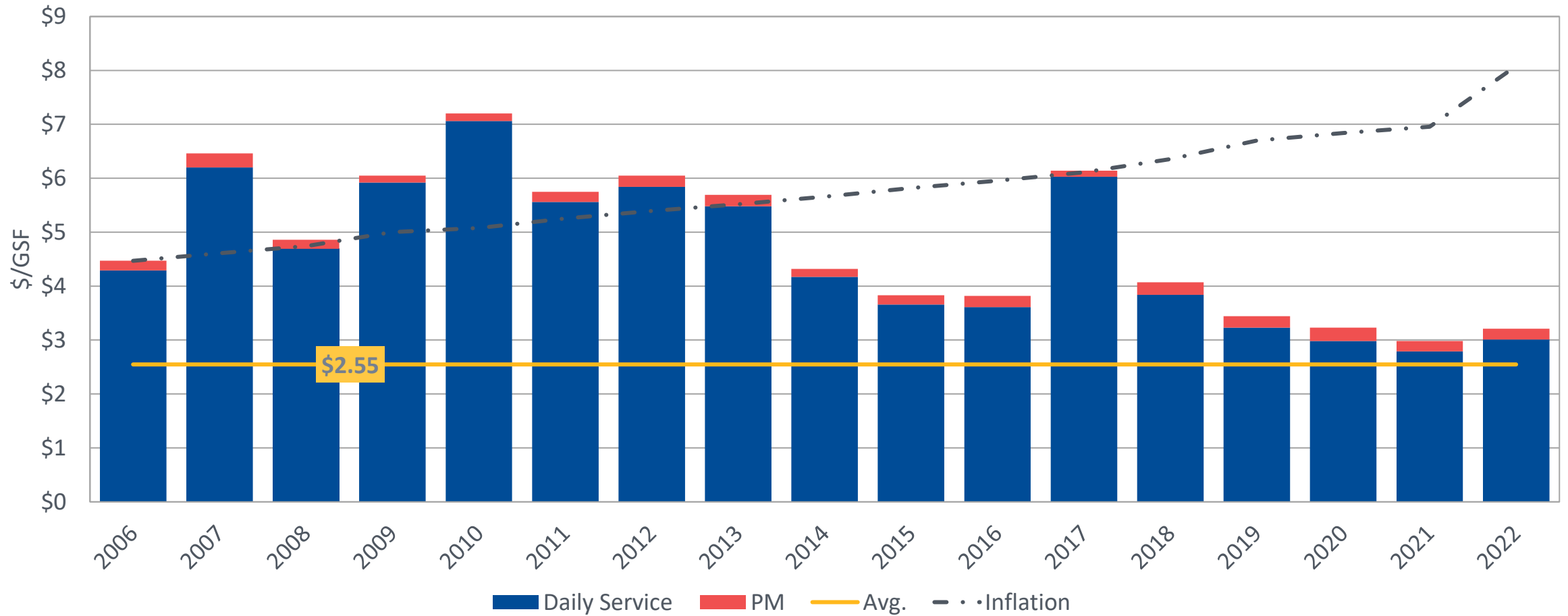
Mat-Su College

Facilities Operating Expenditures



Mat-Su operating expenditures decreased significantly from 2017, missing inflation

Facilities Operating Actuals

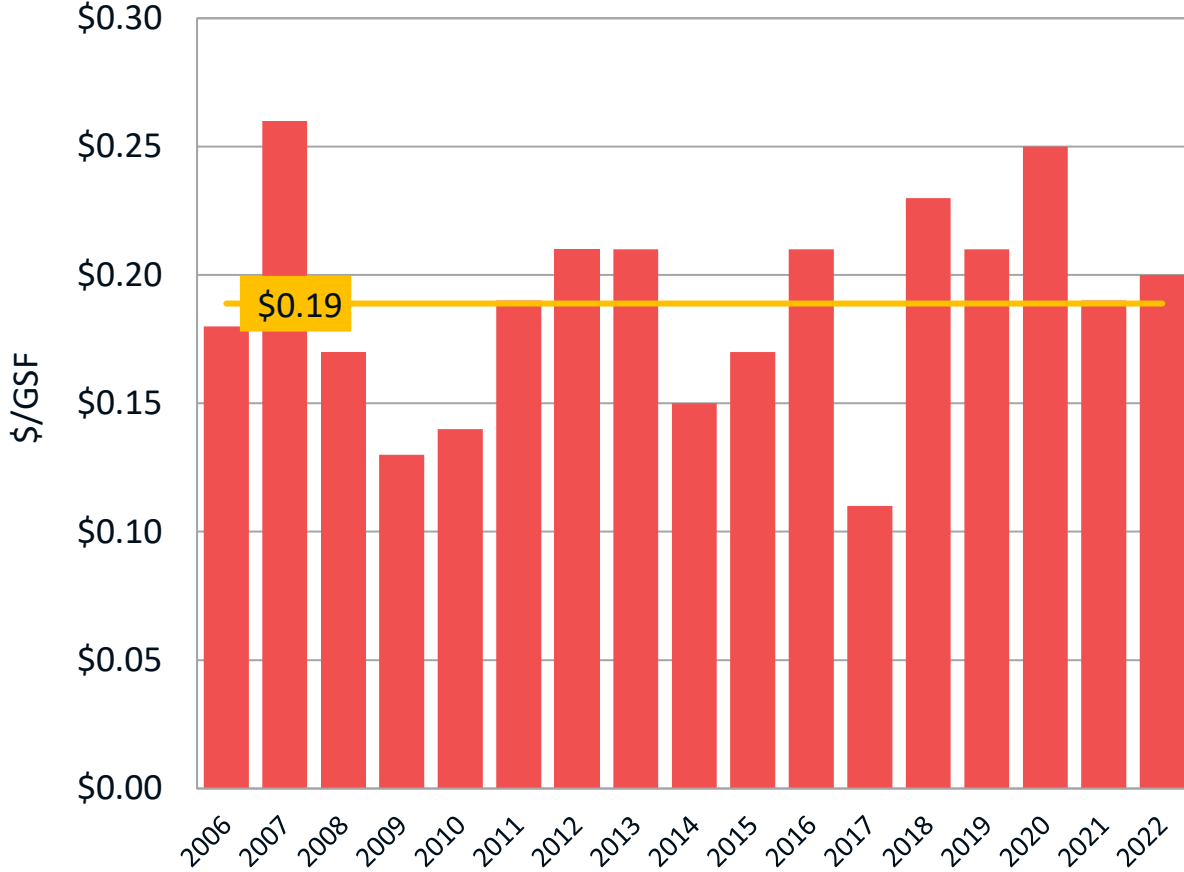


PM Spending Remains within Best Practice Range

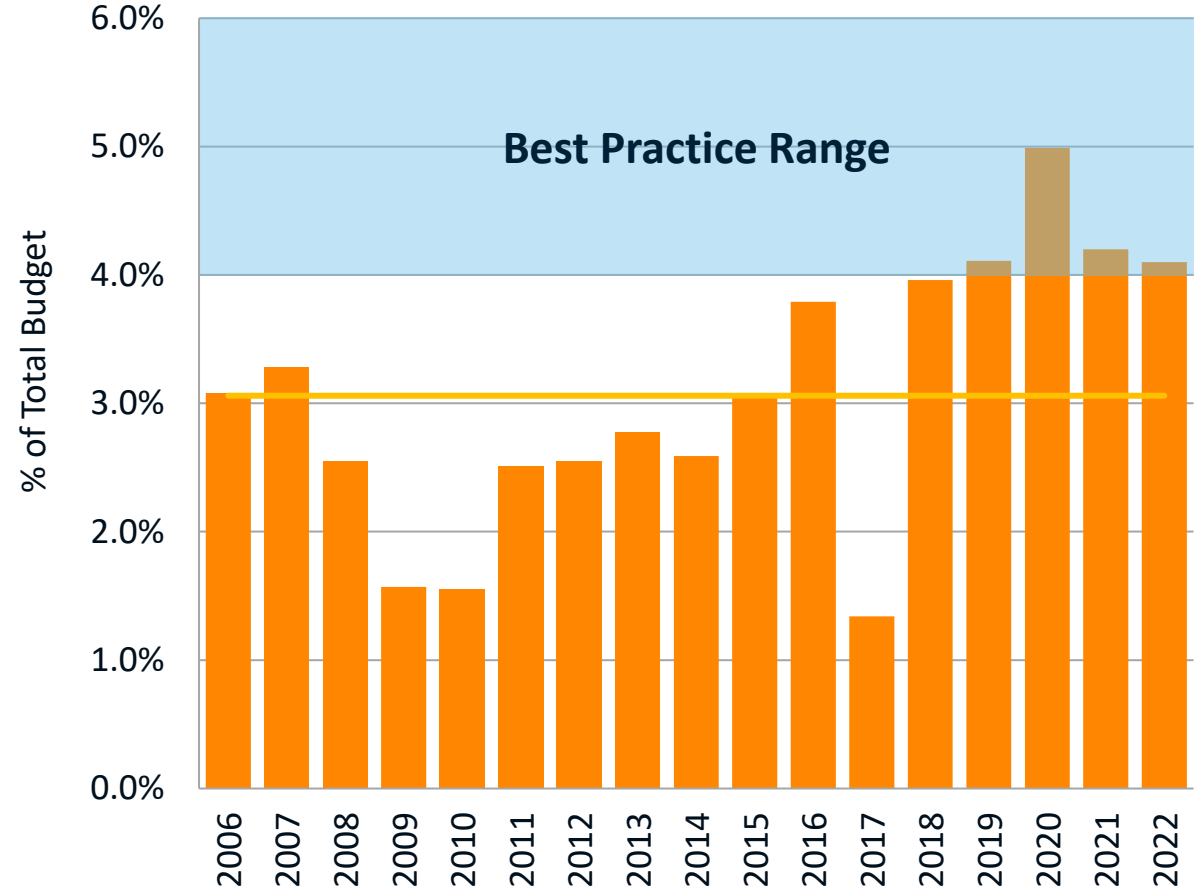


PM spending increased from FY21 to FY22, falls short of 2019 and 2020

Preventive Maintenance Spending



Preventive Maintenance Spending

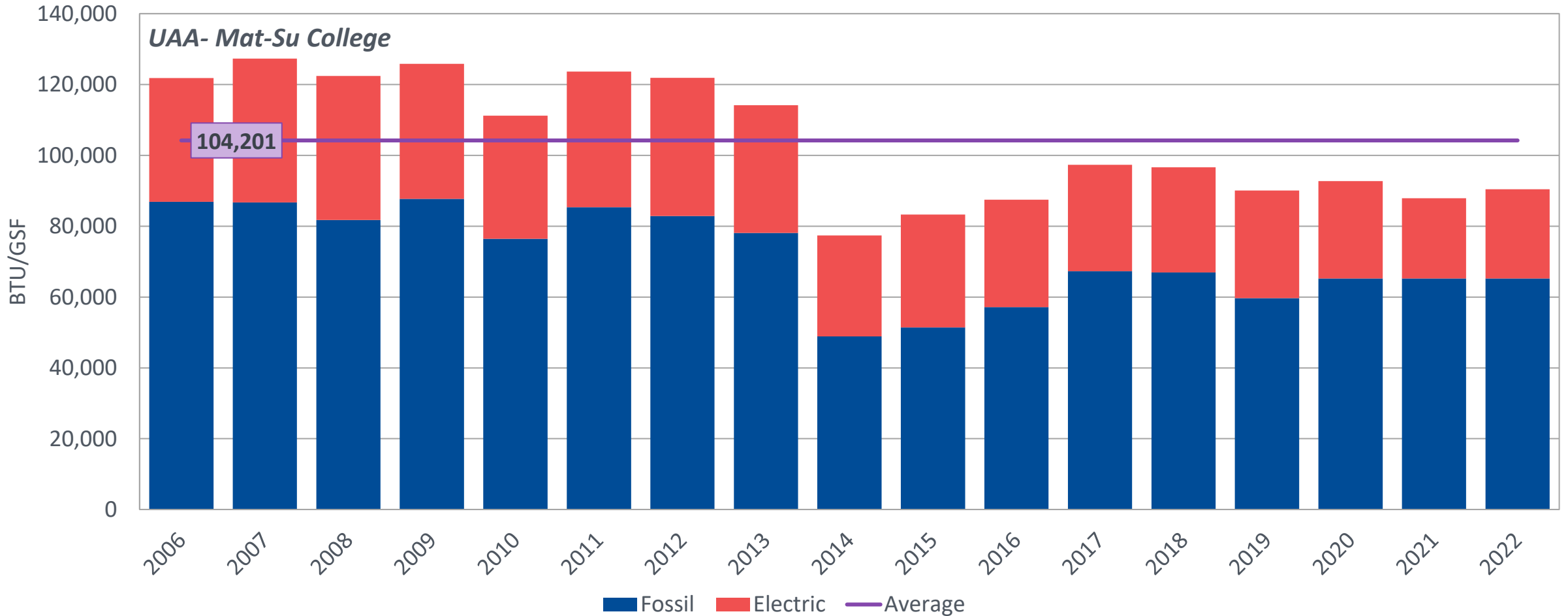


Total Energy Consumption



Mat-Su consumption remains consistent and below average since 2014

Total Energy Consumption

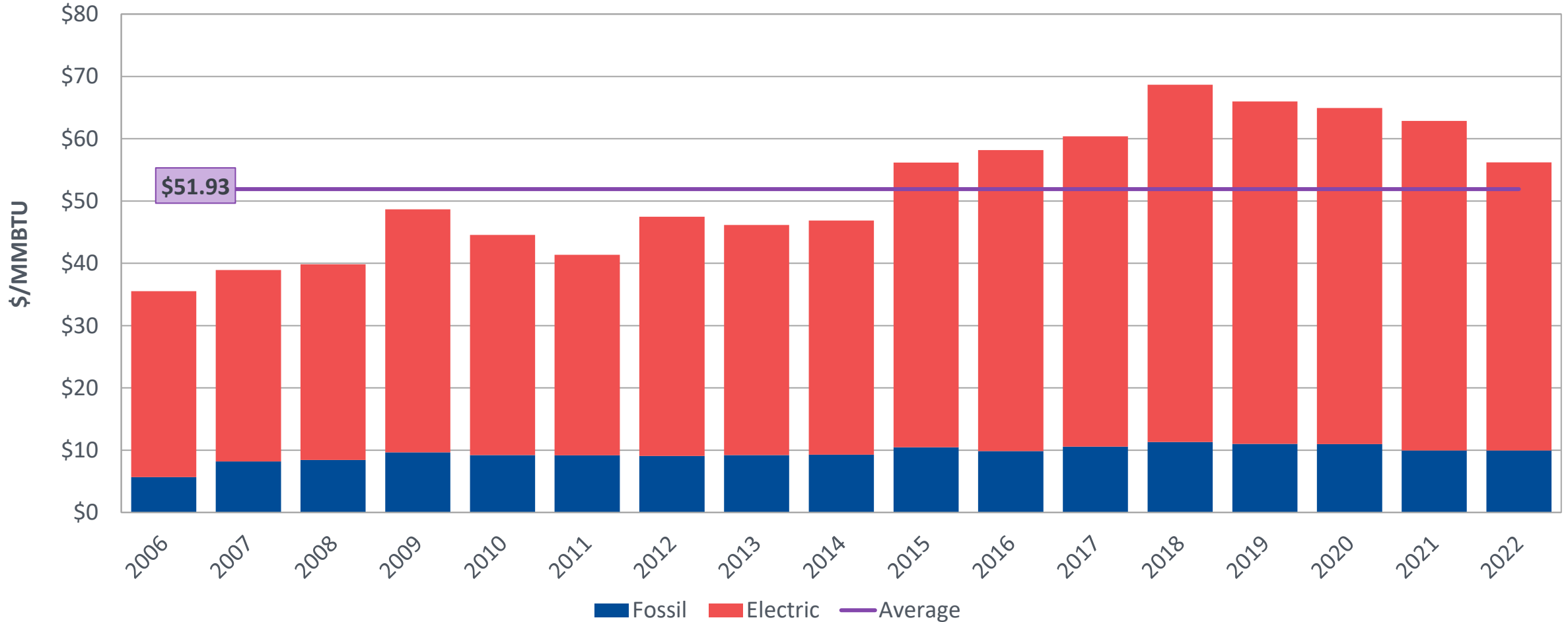


Energy Expenses are Increasing Over Time



Despite “flatness” in consumption, costs are increasing

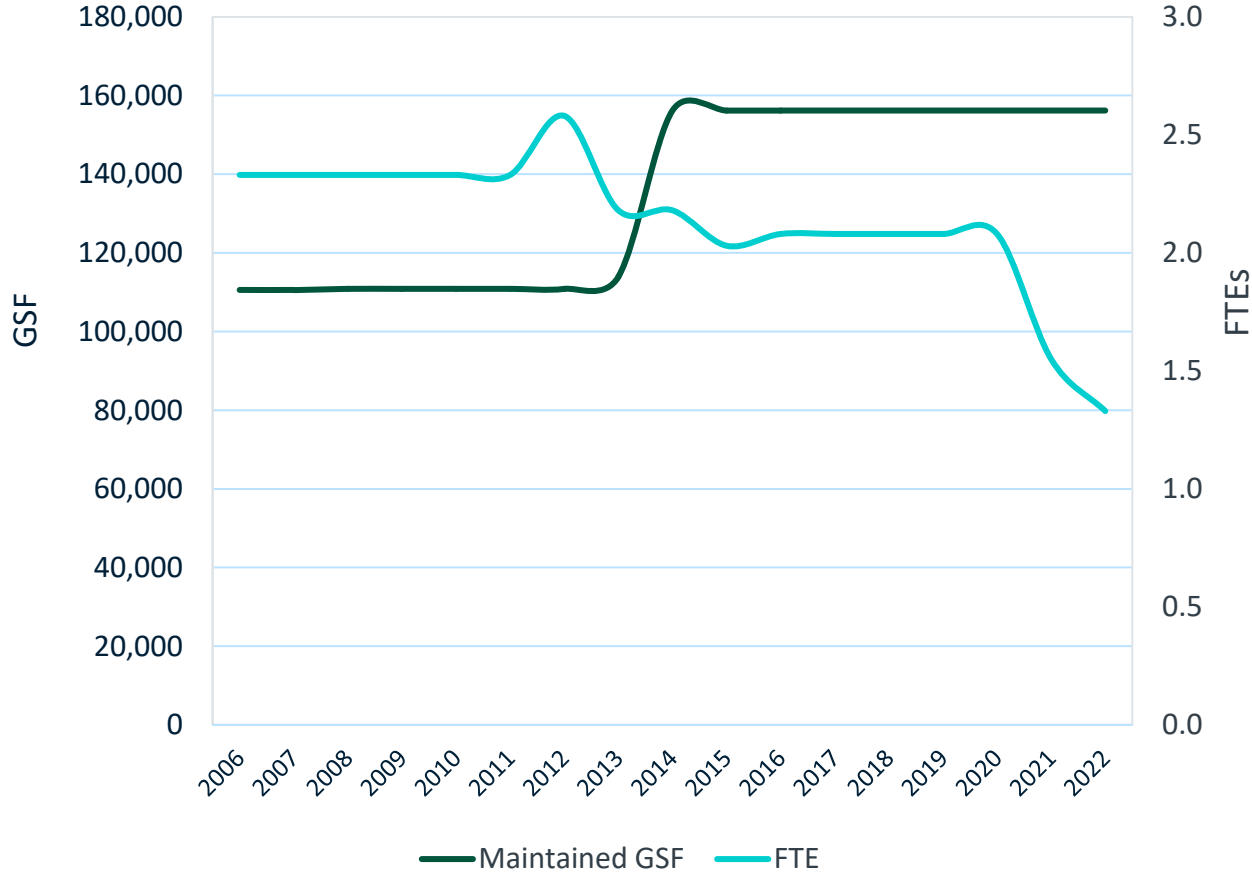
Total Energy Cost



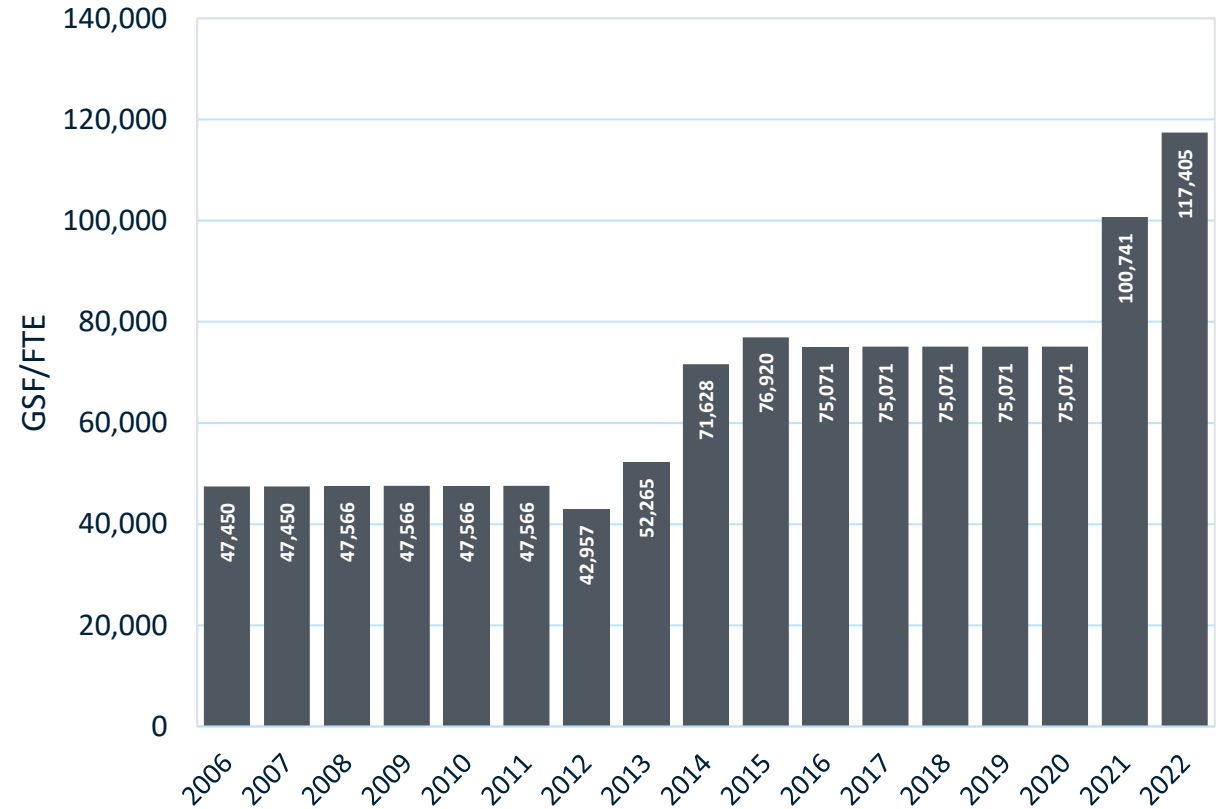
Maintenance Staffing Coverage

Drops in FTE lead to increasing coverage ratios and operational strain

Maintenance Staffing



Maintenance Coverage

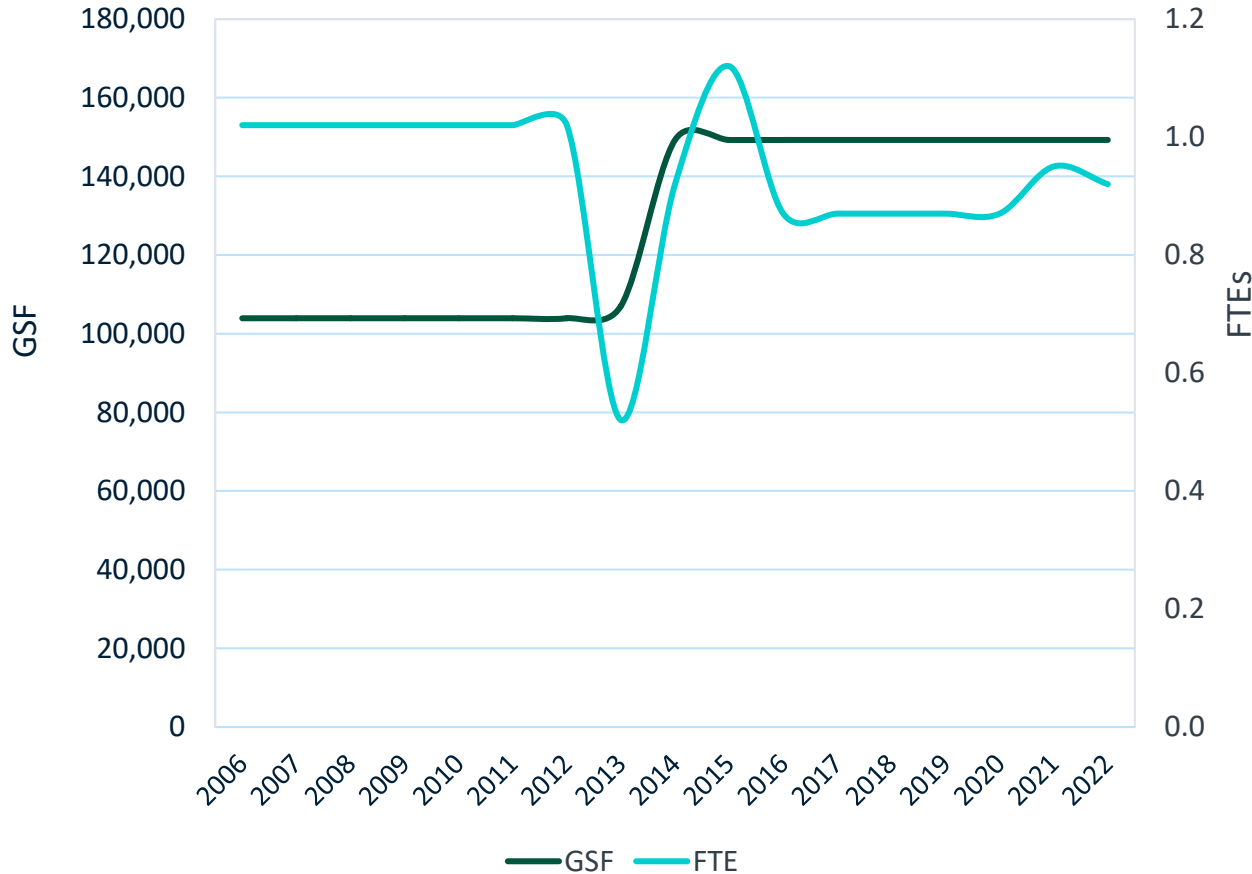


Custodial Staffing Coverage

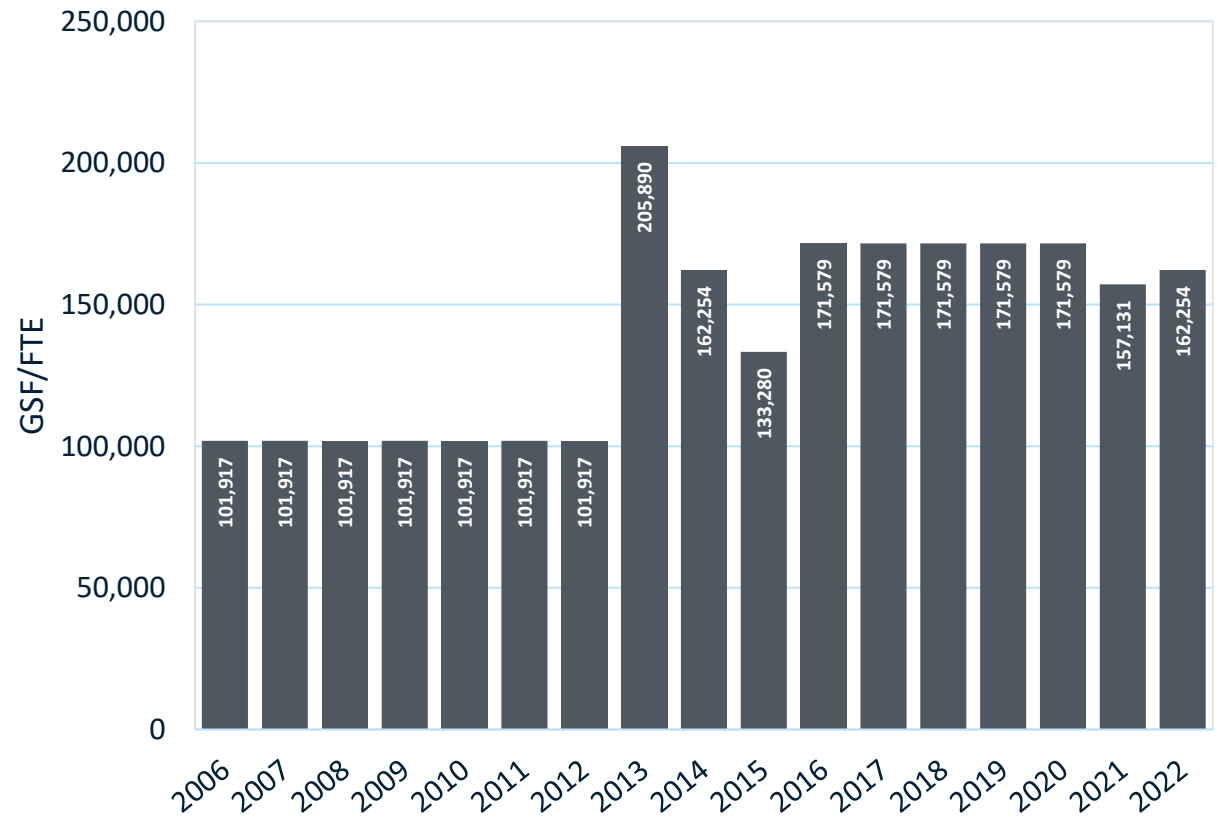


Custodial FTE's have decreased, but ratios are minimally impacted

Custodial Staffing



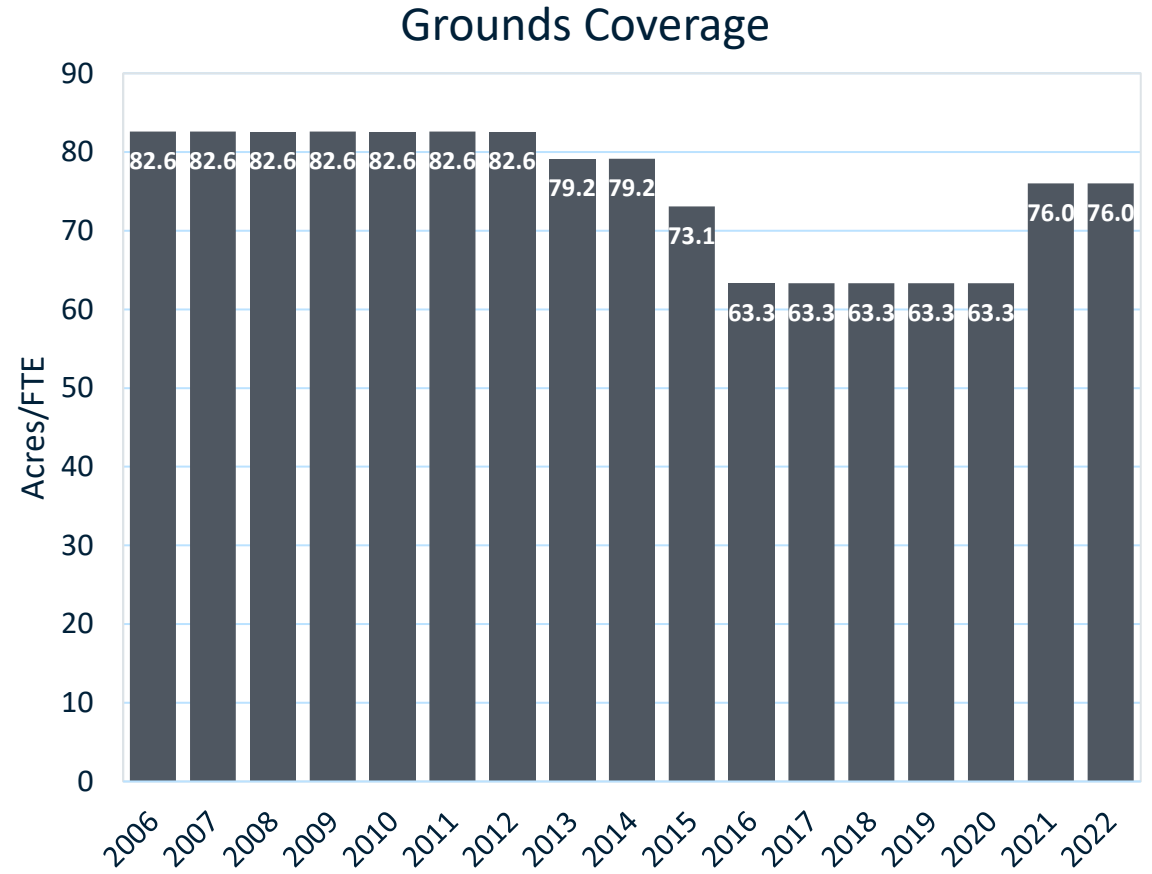
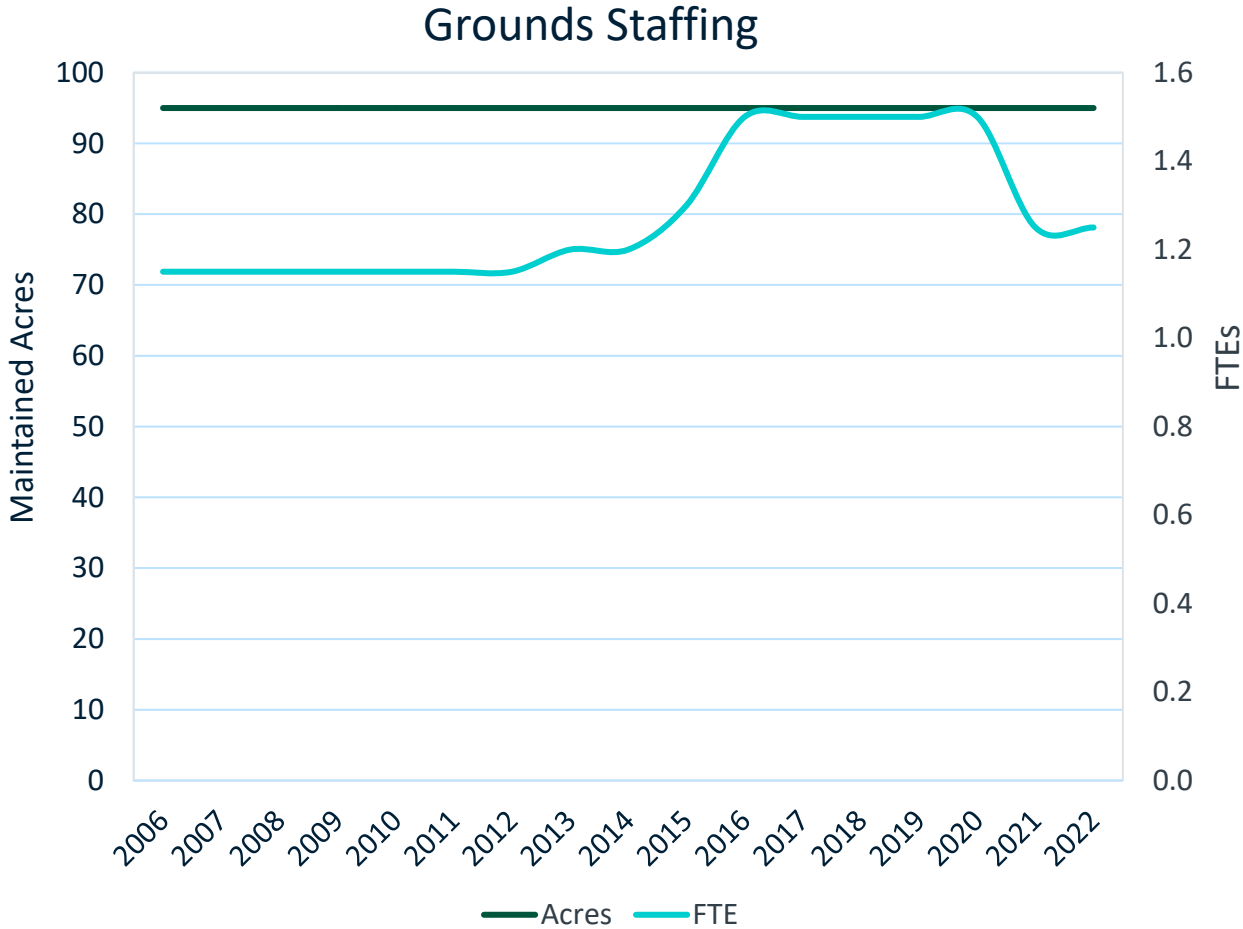
Custodial Coverage



Grounds Staffing Coverage



Grounds coverage increasing to 2012 levels





Space Profile:

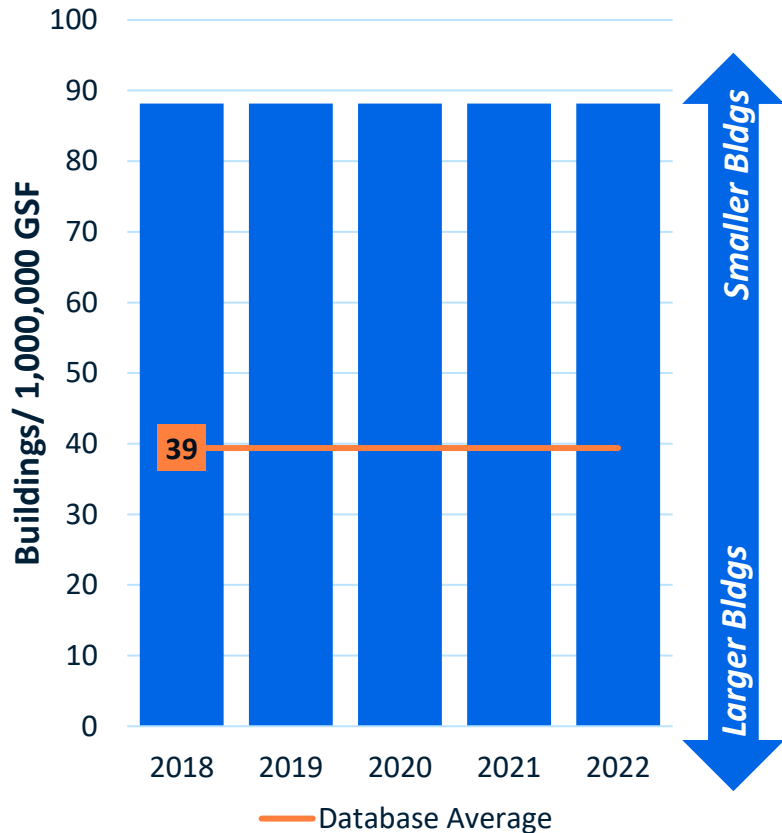
Prince William Sound Community College

Qualifying Metrics – Building Demographics

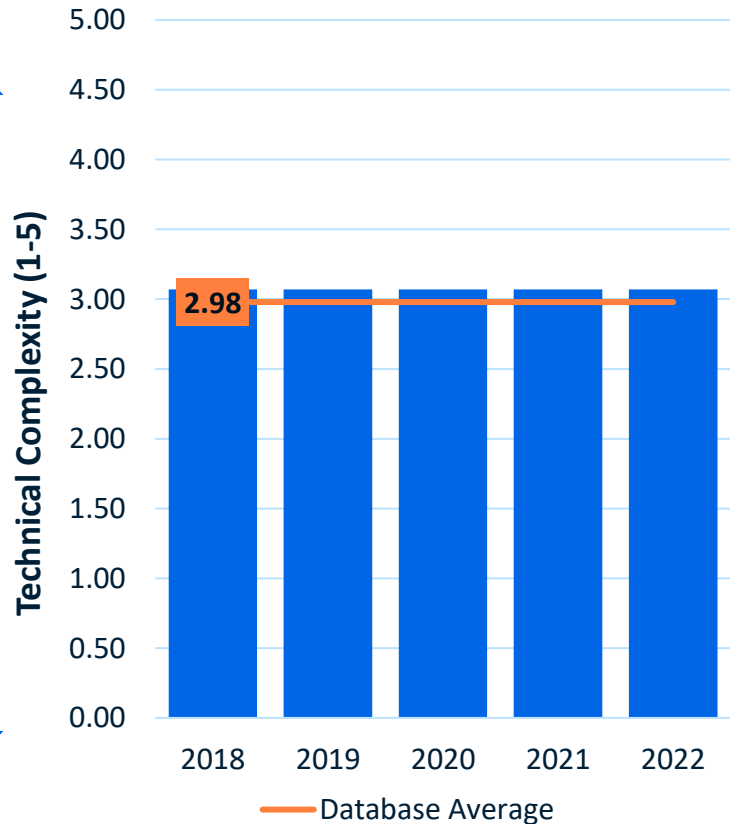


PWSCC campus more intense, less dense, and slightly more complex than database

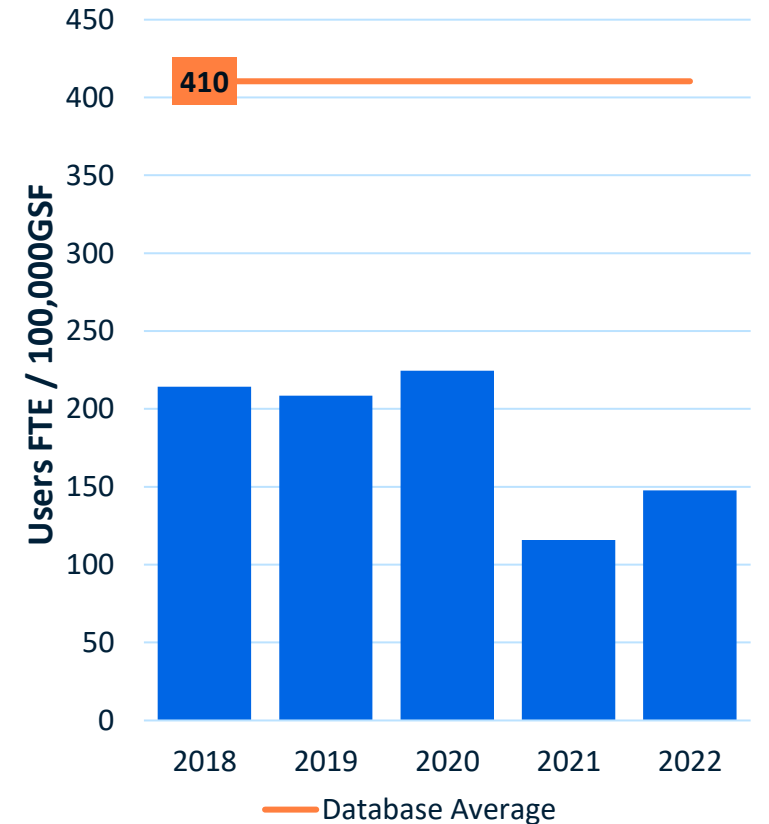
Building Intensity



Technical Complexity



Density Factor

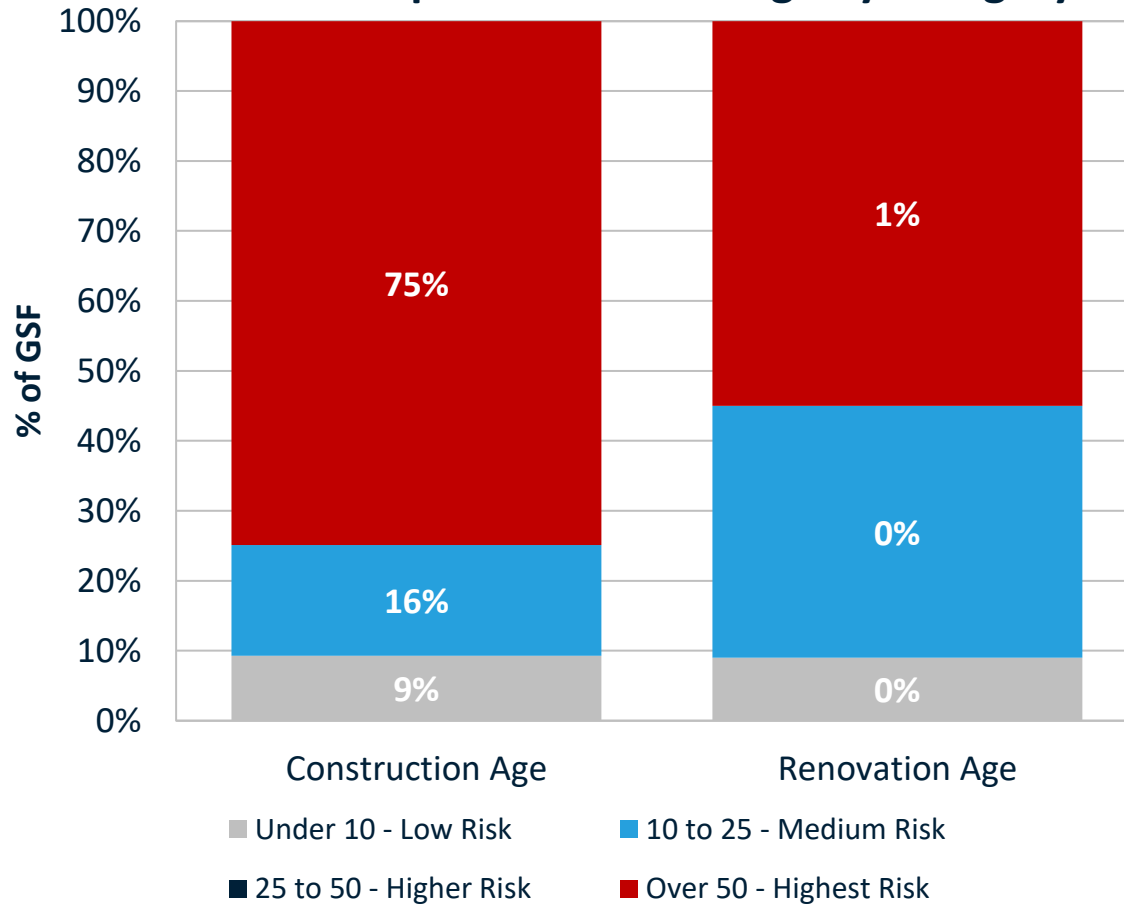


Aging Campus Puts Buildings At Risk



Renovations have reduced overall capital risk and operational strain

Campus Renovation Age by Category



	Operational Demands:	Capital Risk:
Over 50	<p>React as Needed: Issues in components past the end of their lifecycles will demand reactive maintenance.</p>	<p>Highest Risk: Life cycles of major components past due – end of building life cycle approaching.</p>
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Capital Profile:

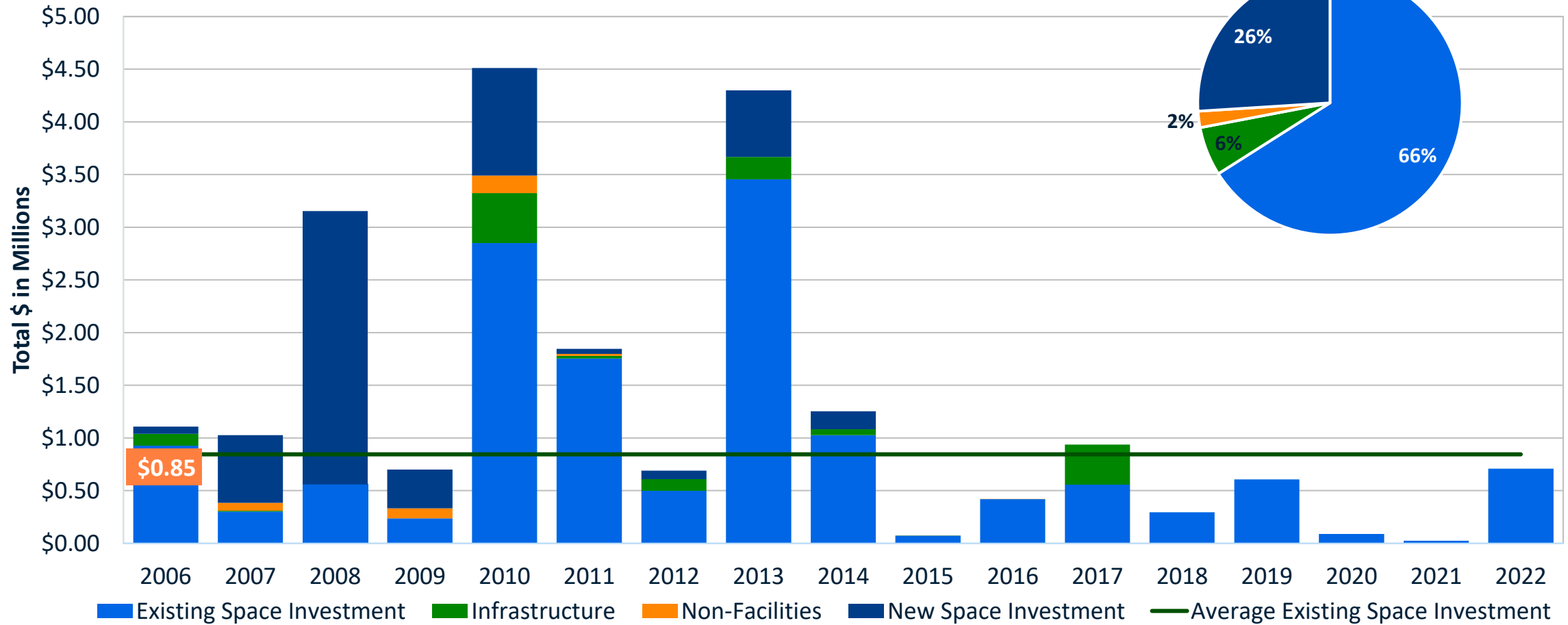
Prince William Sound Community College

Focusing Investments on Aging Campus



Capital investments at PWSCC smartly focused into existing space

Total Capital Investment

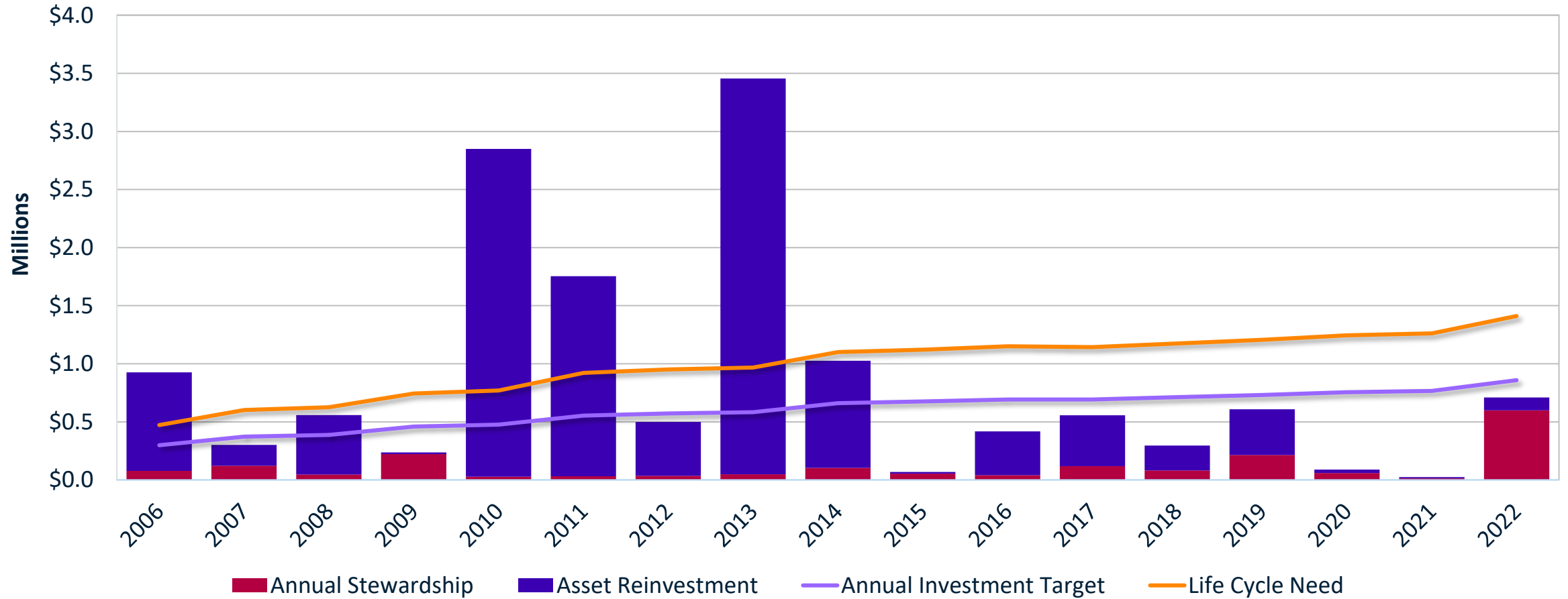


Capital Investment vs. Annual Investment Target



PWSCC continues to miss target, further increasing asset reinvestment need

Total Capital Investment vs. Funding Target

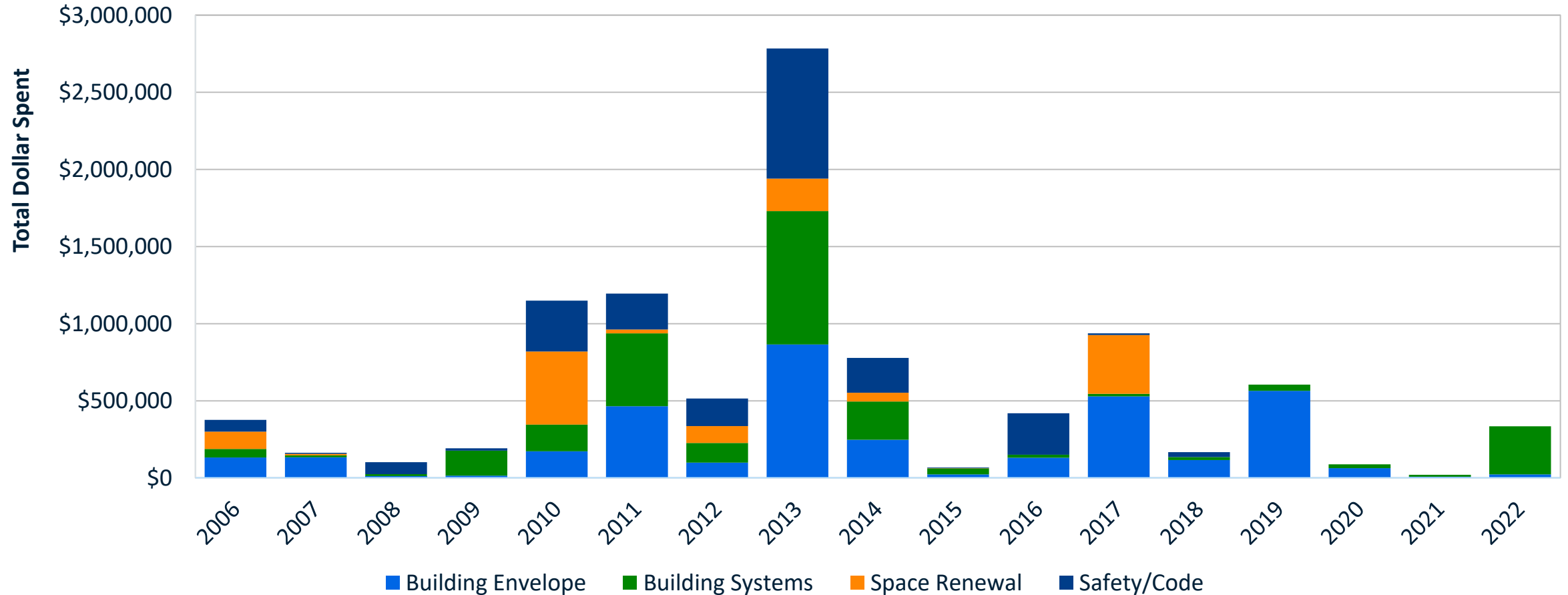


Existing Space Investment Breakout



Continued investment in systems and envelope diminishes impact of aging campus

Existing Space Capital Breakout

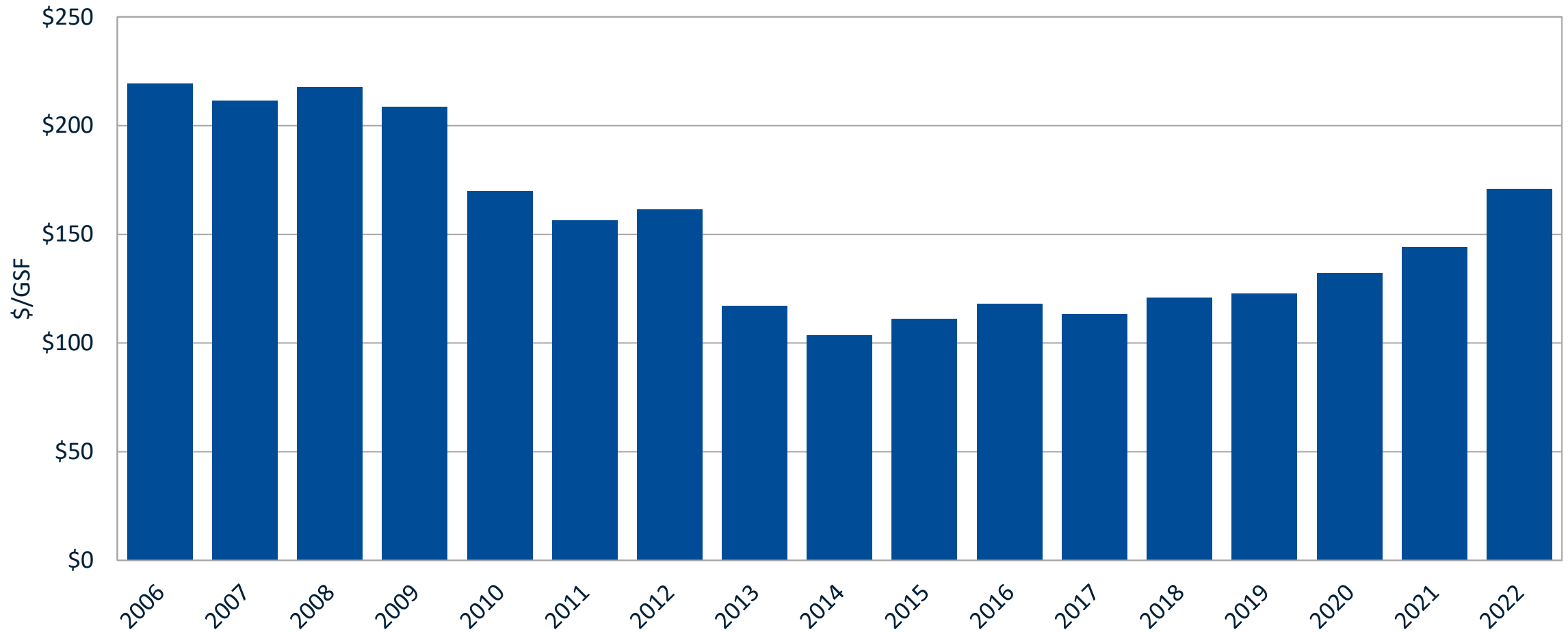


Asset Reinvestment Need has Increased since 2014



Asset Reinvestment Need continues to increase with multiple years of missed targets

Total Asset Reinvestment Need \$/GSF



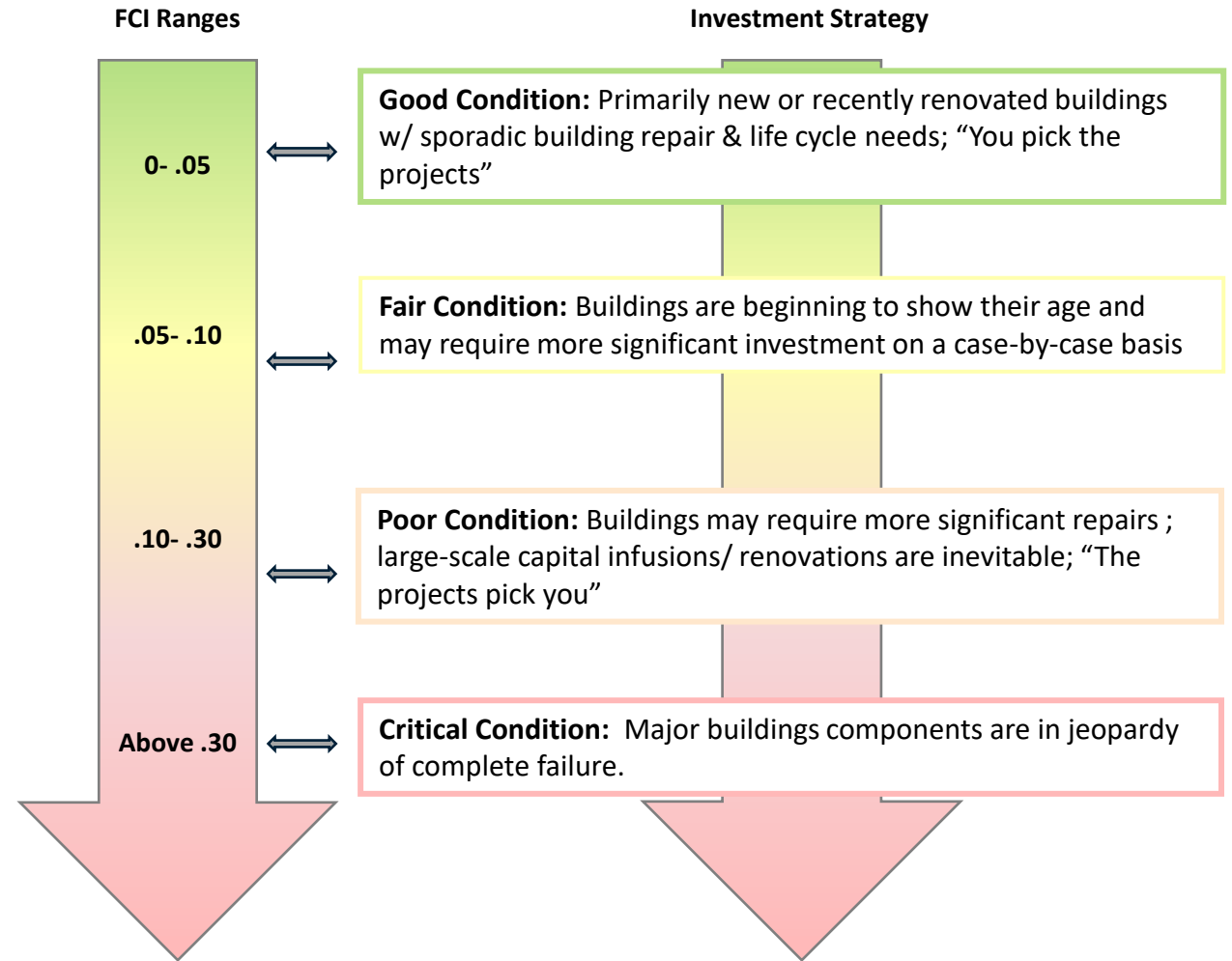
Facilities Condition Index



- Condition based investment strategy

$$\text{FCI} = \frac{\text{Backlog}}{\text{Replacement Value}}$$

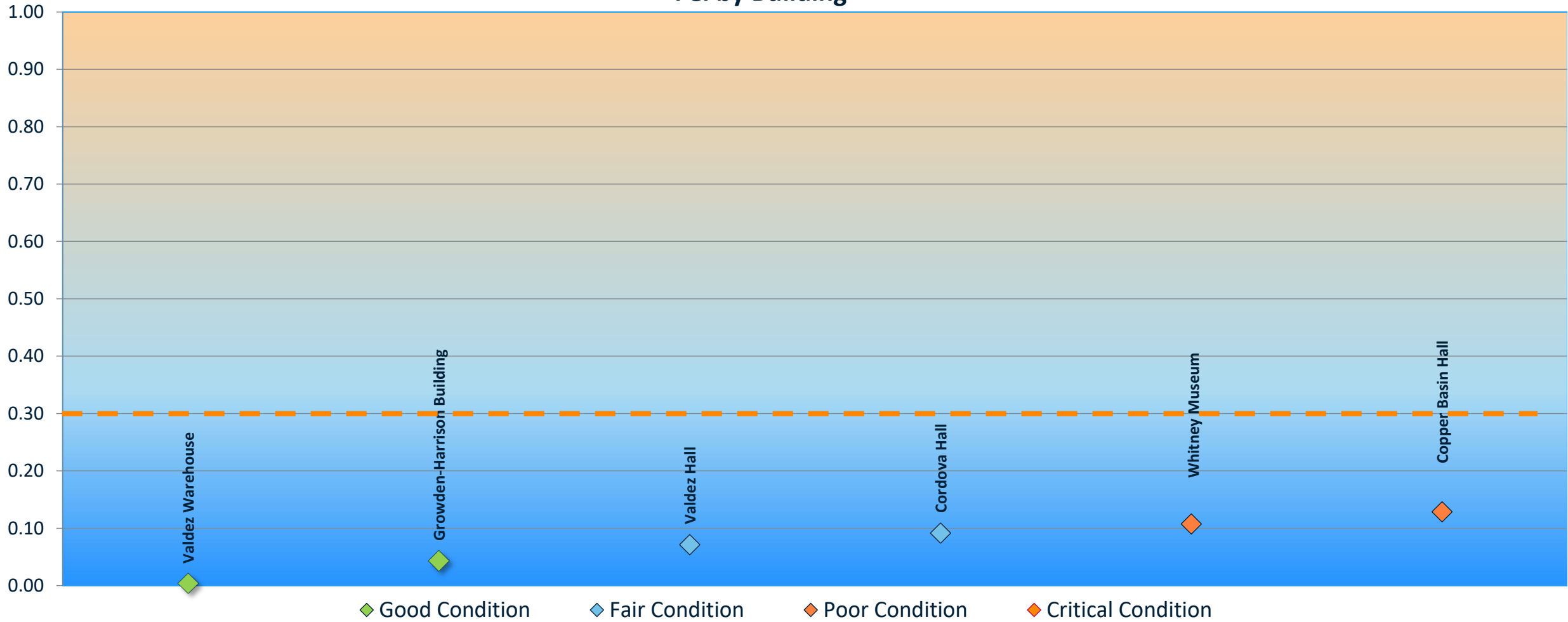
Campus leadership can use FCI categories for different buildings and portfolios, helping to balance capital investments across campus and prioritize project selection



Facilities Condition Index – All Buildings



FCI by Building





Operations Success:

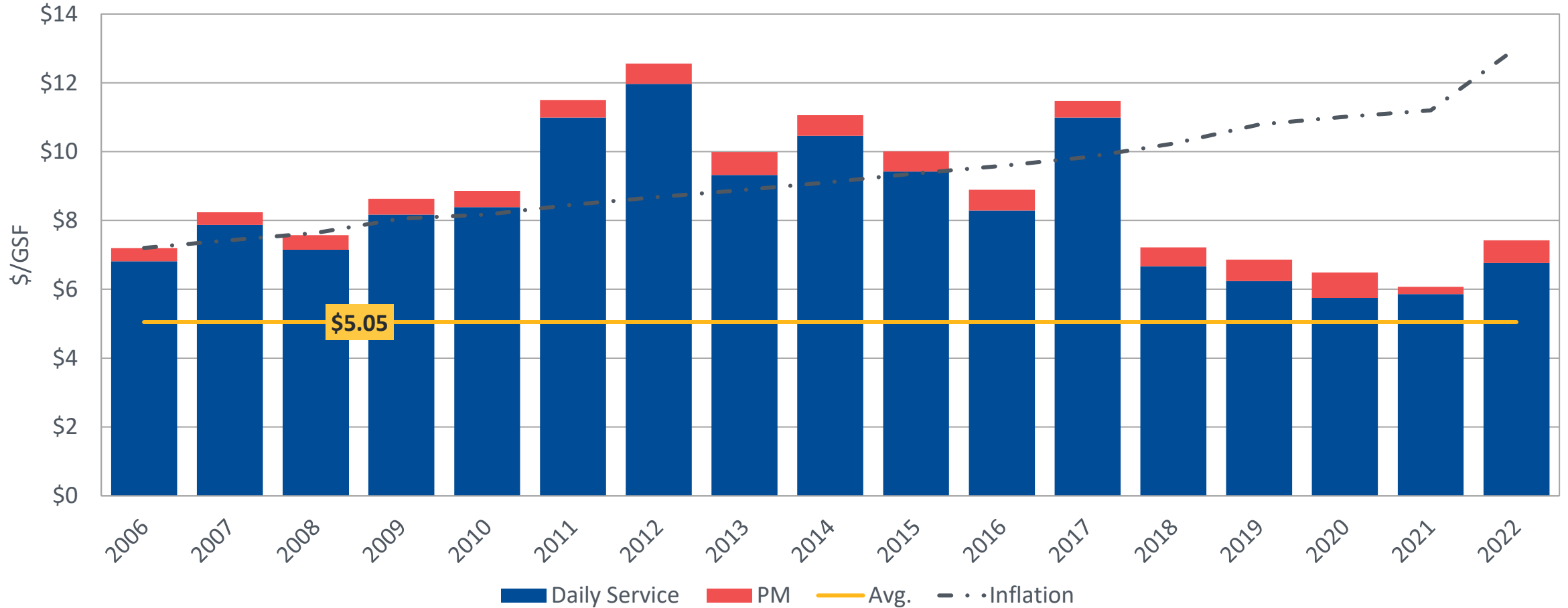
Prince William Sound Community College

Facilities Operating Expenditures



Operating expenditures increase for the first time since 2017, still below inflation

Facilities Operating Actuals

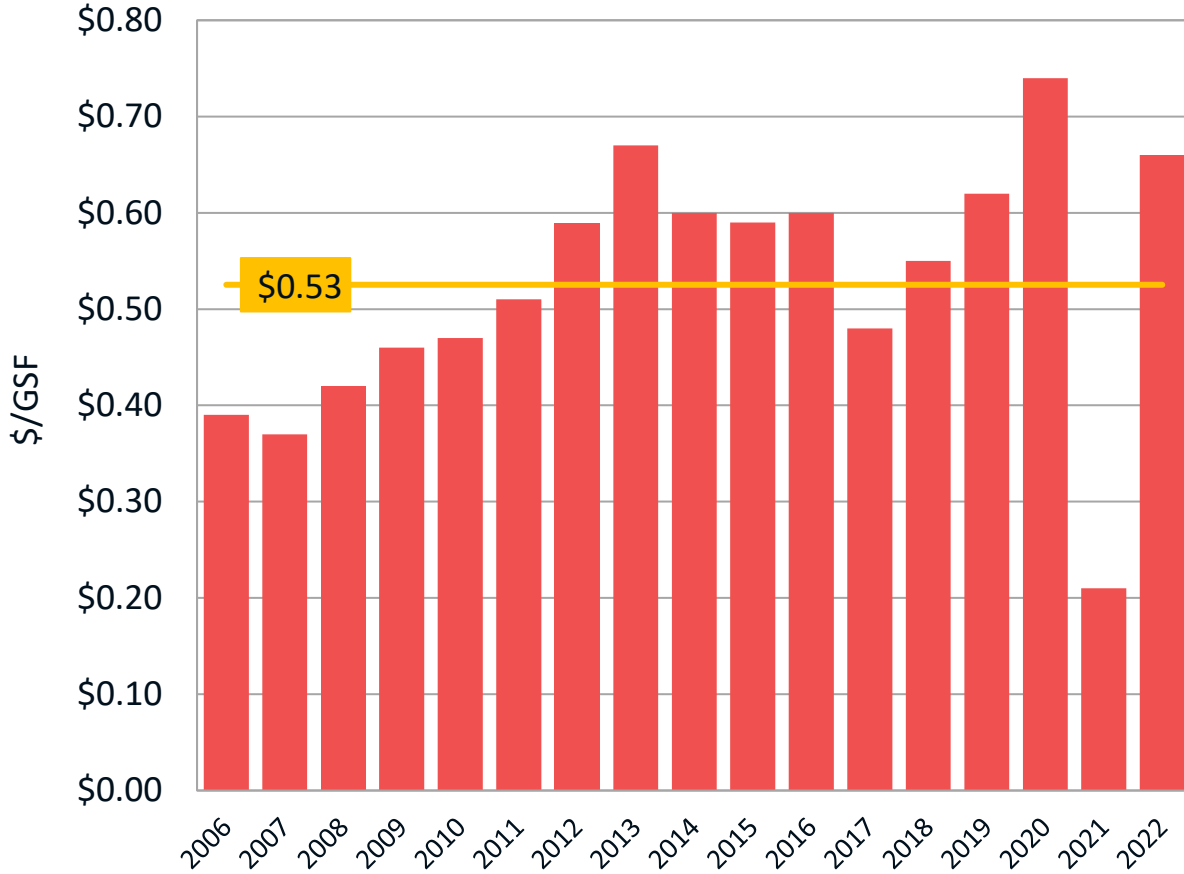


PM is within Recommended Spending Range

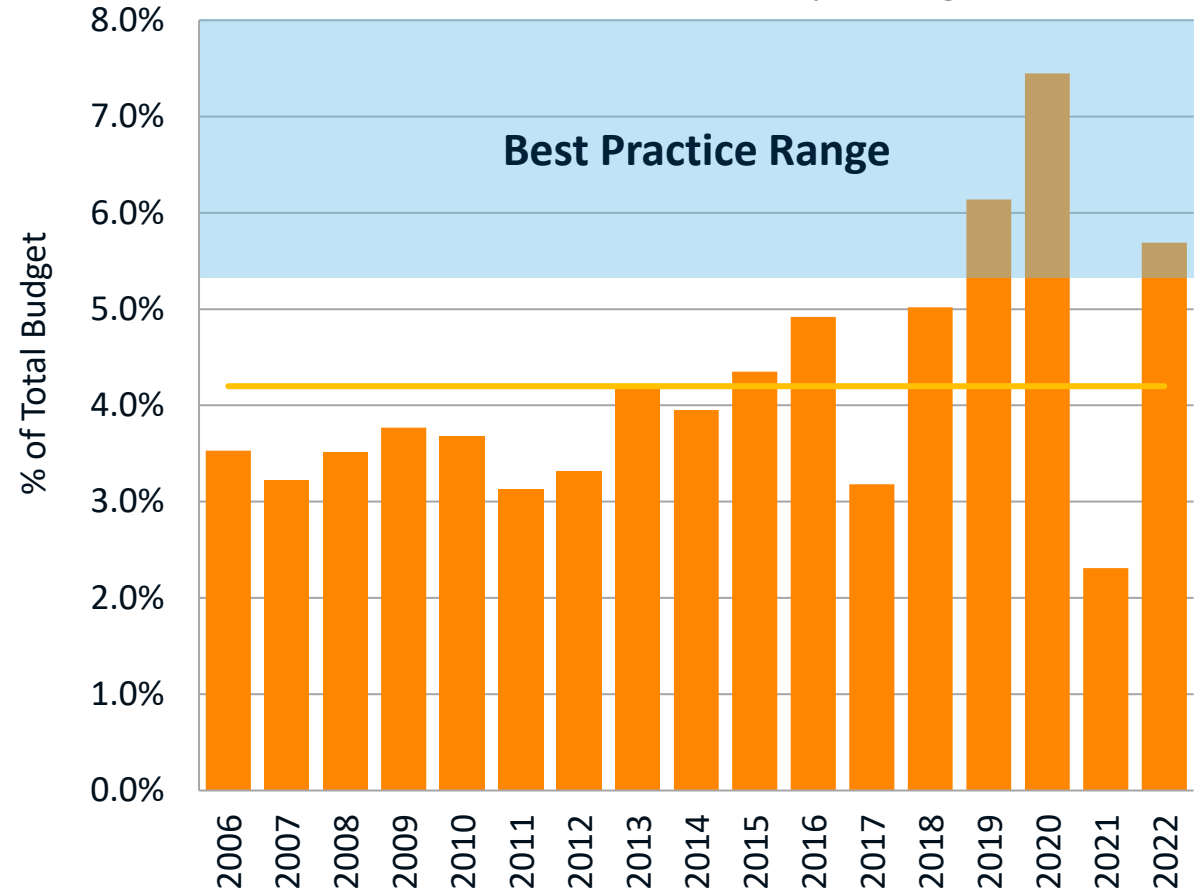


PM spending has rebounded from FY21 historic low

Preventive Maintenance Spending



Preventive Maintenance Spending

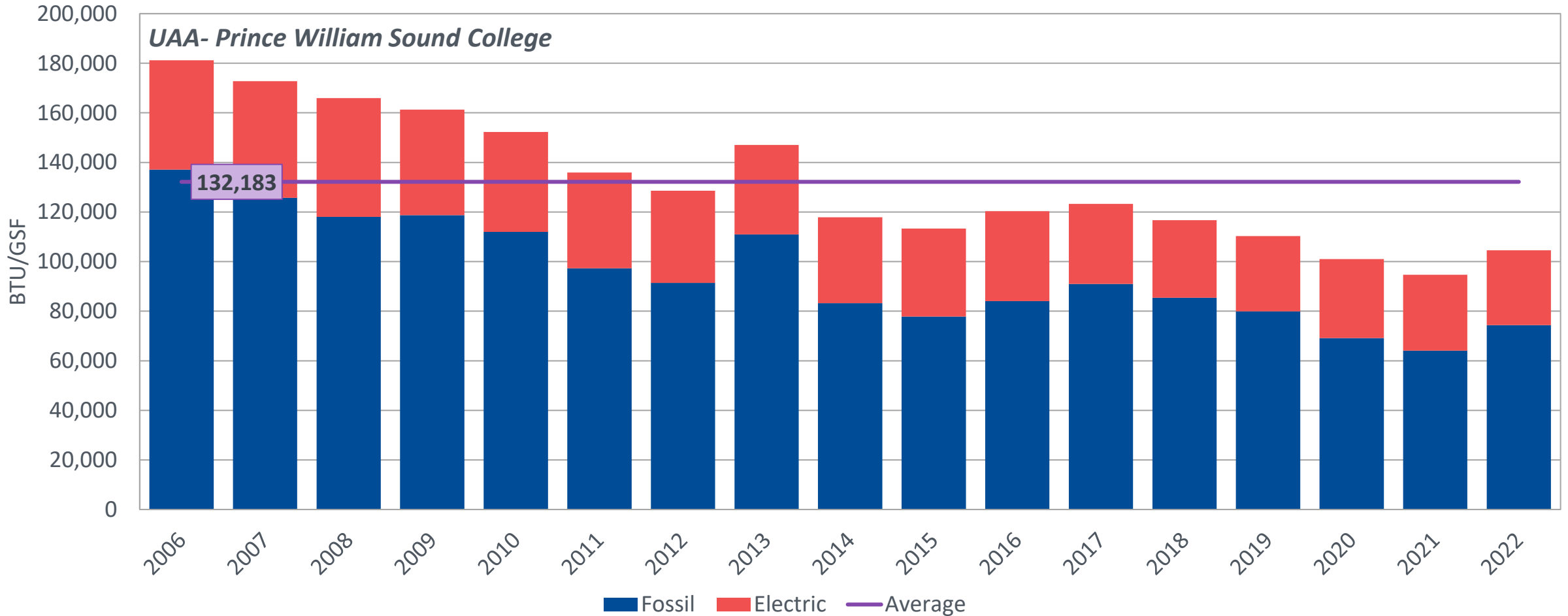


Total Energy Consumption



Consumption still below average, but has increased from FY21 low

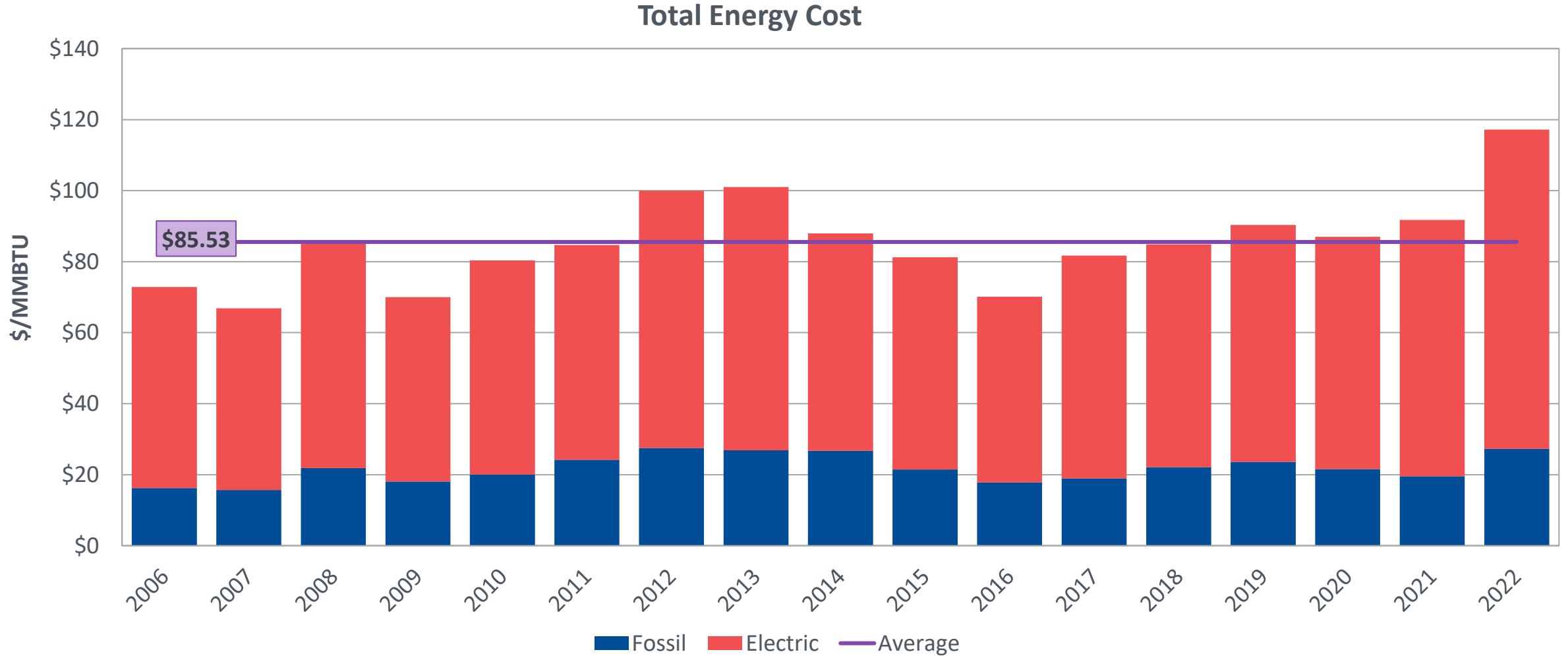
Total Energy Consumption



Energy Expenses are Increasing Over Time

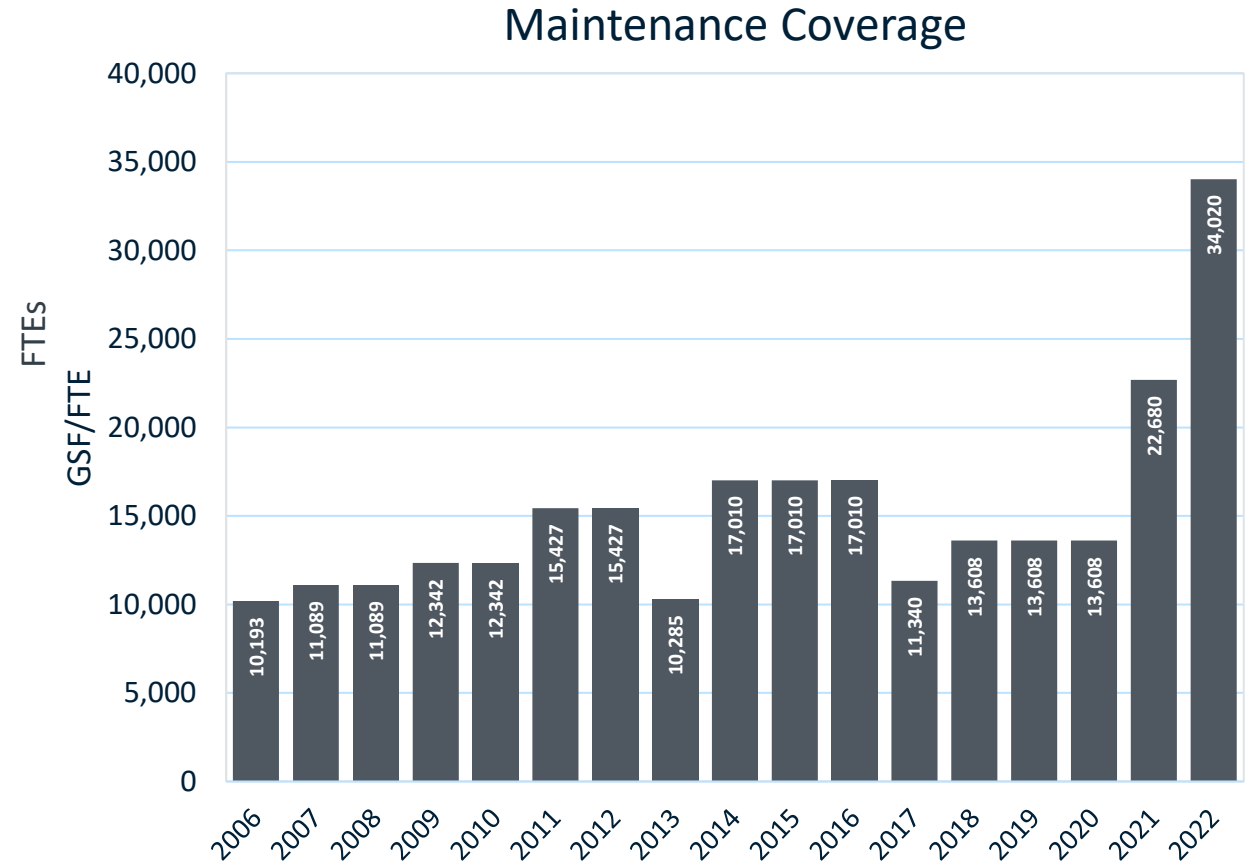
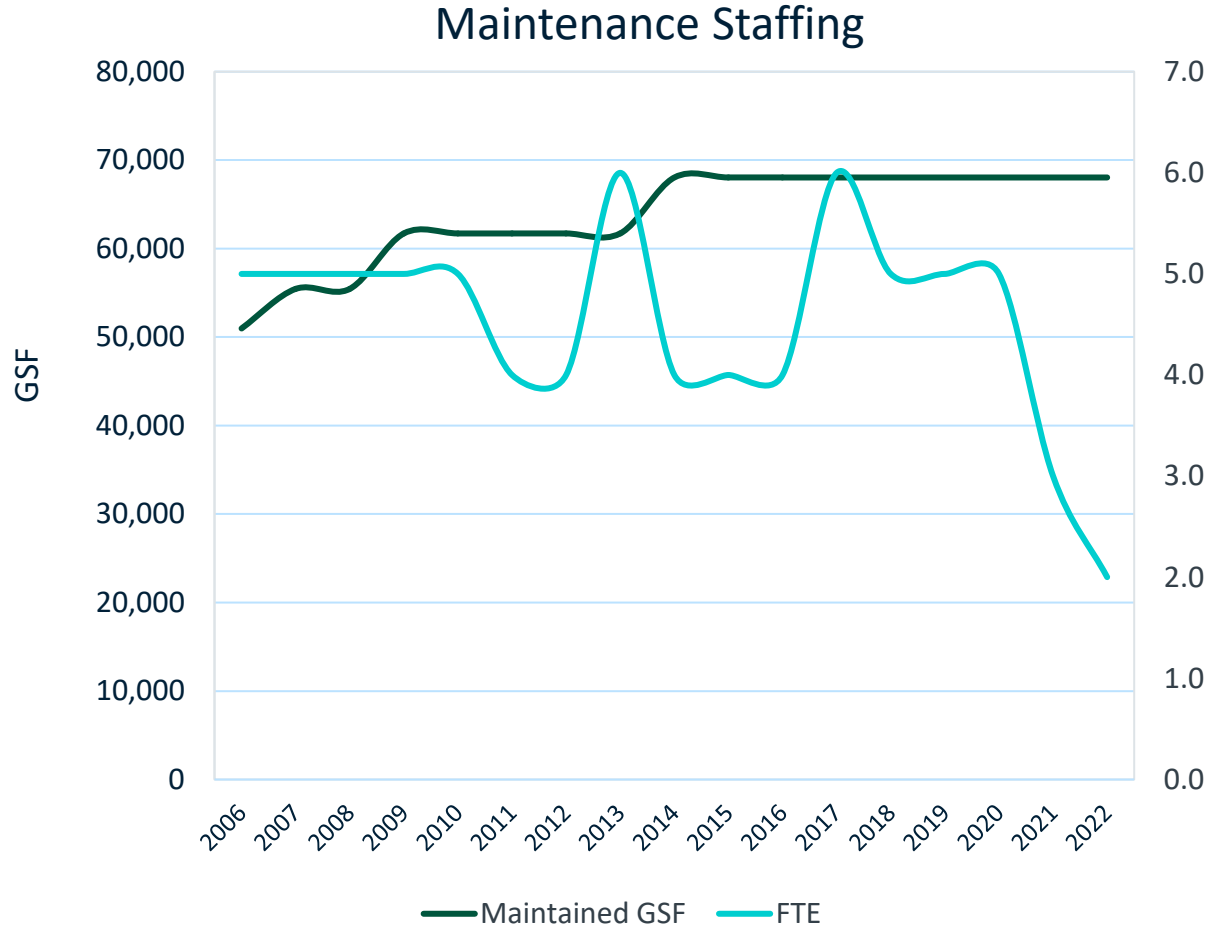


Significant increases in energy commodity costs result in dramatic rise



Maintenance Staffing Coverage

Coverage increases as a result of steep decline in FTEs

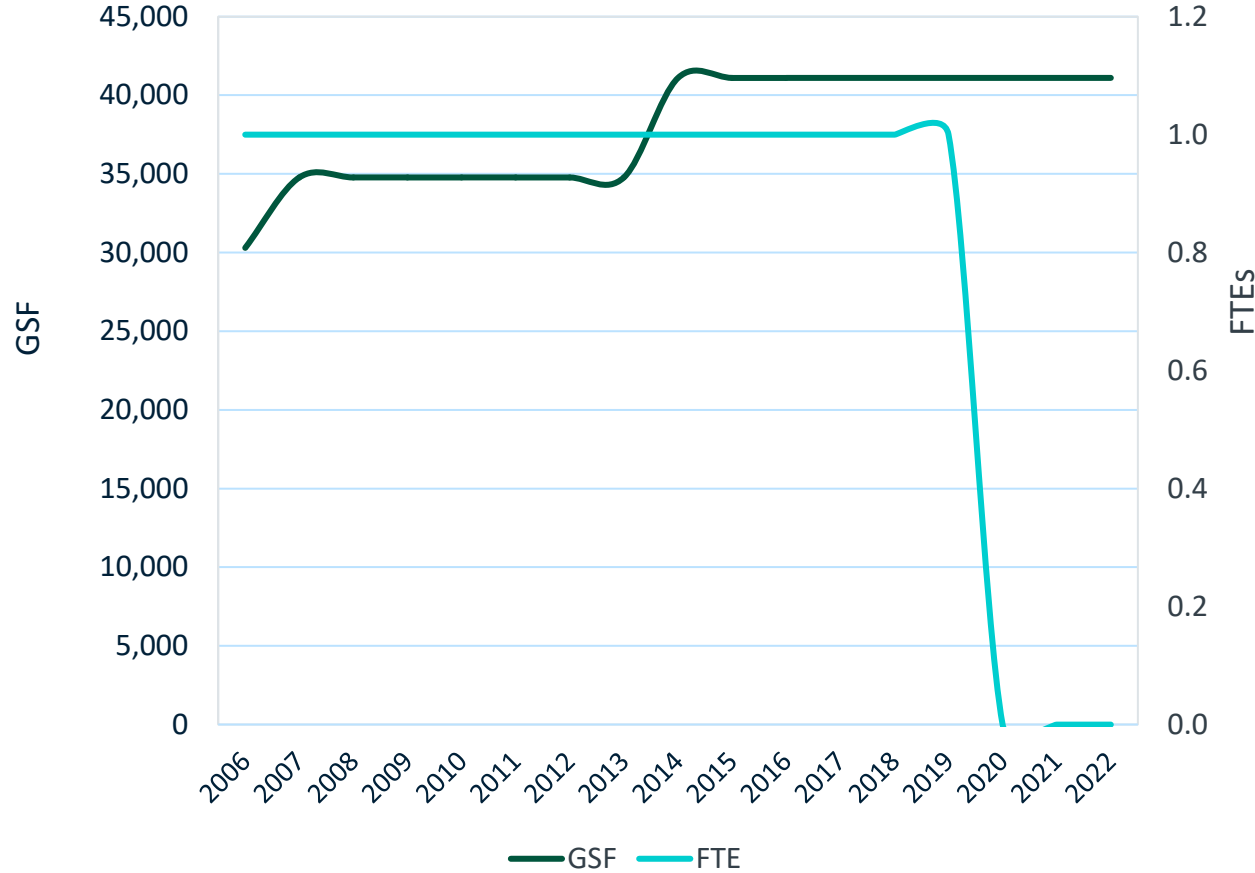


Custodial Staffing Coverage

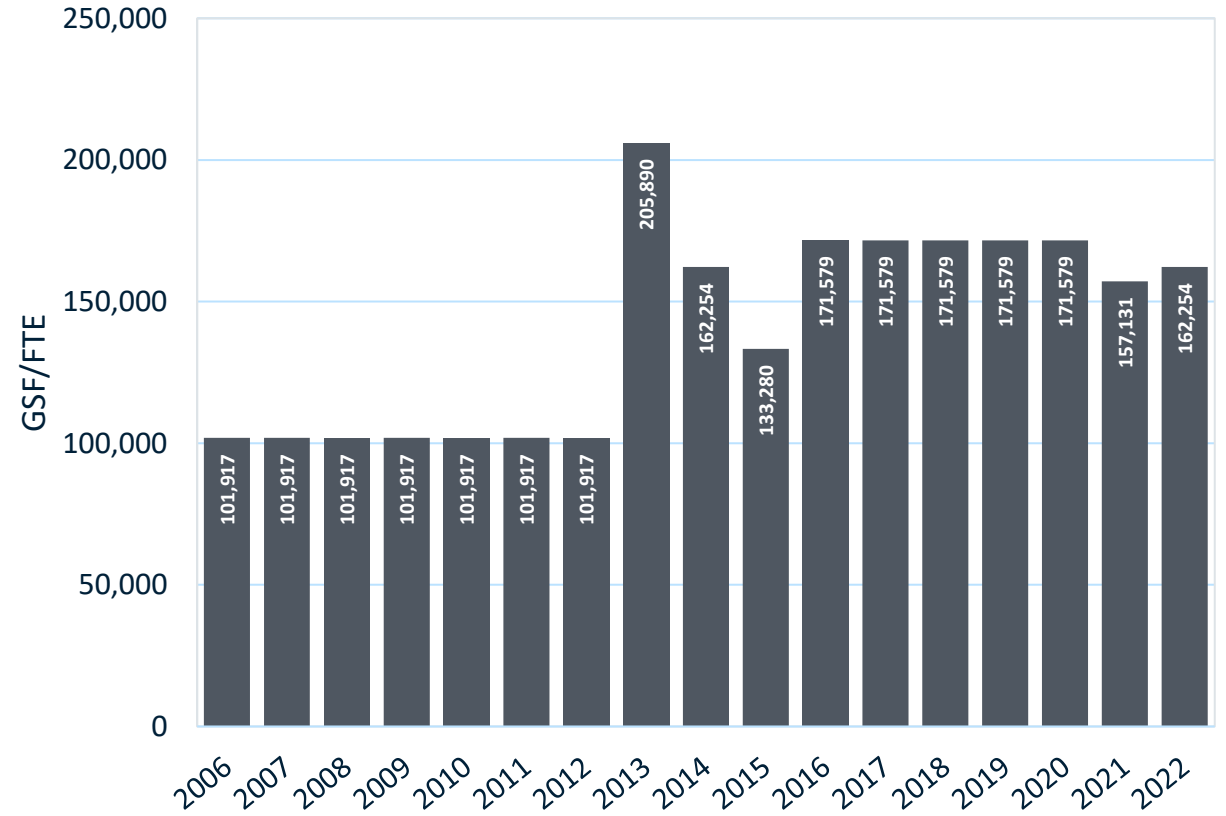


No dedicated full-time custodian at PWSCC

Custodial Staffing



Custodial Coverage





Questions & Discussion