

University of Alaska – Southeast

Strategic Capital Planning
July 22, 2021

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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



Assessment Process



FACILITIES ASSESSMENT & PLANNING





Identified Needs



Identified Needs by Timeframe



High need in Timeframe C presents strategic opportunities



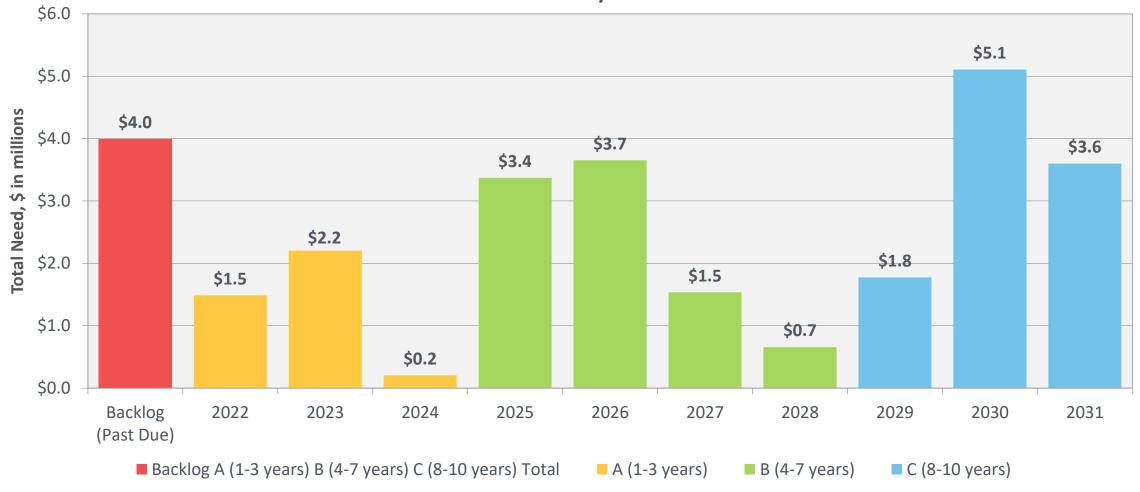


Identified Need By Year

Timeframes Backlog, A, B, & C only



Identified Needs by Year



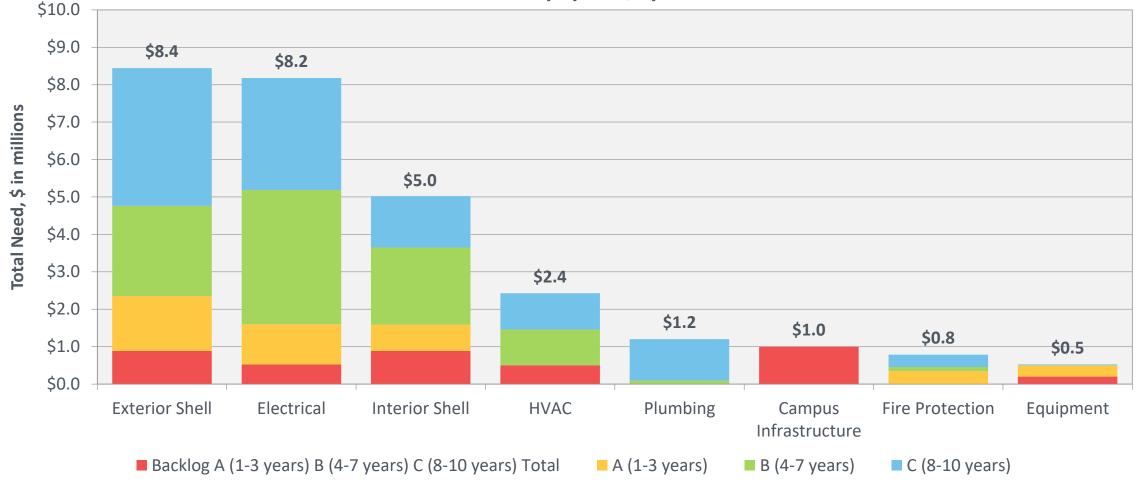


Identified Needs by System

Timeframes Backlog, A, B, & C only











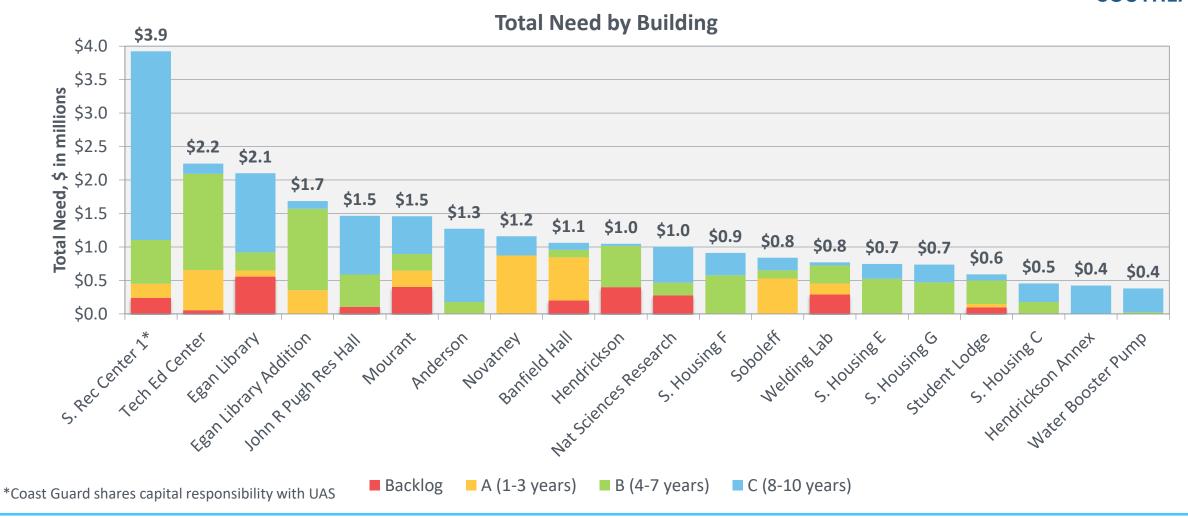
Identified Needs by Building



A Look at Building Needs Over 10 Years

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Top twenty buildings with highest amount of need





A Look at Building Needs Over 10 Years, High Need



5 buildings have an assessed need over \$100/GSF, averaging \$142/GSF







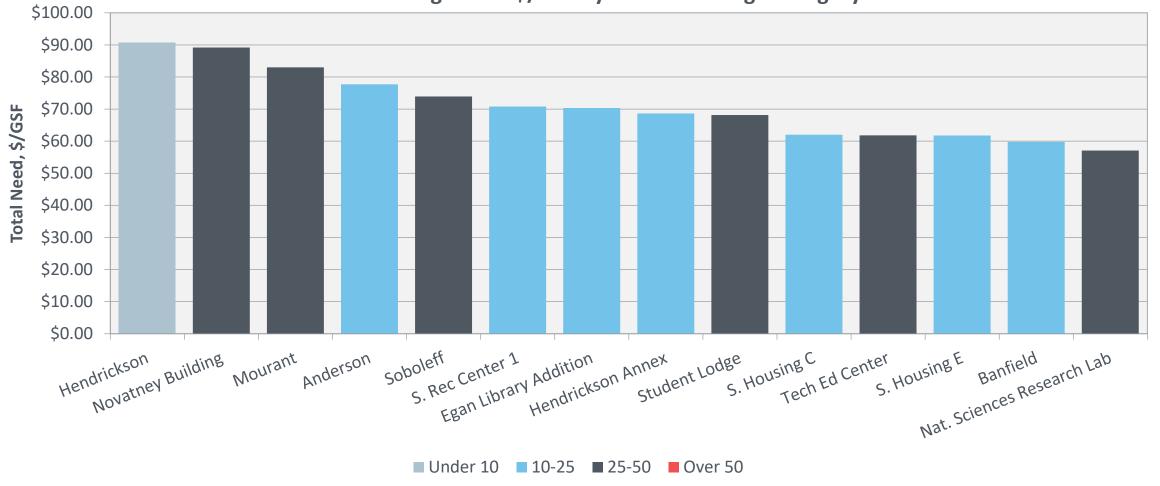
A Look at Building Needs Over 10 Years, Medium Need

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16 buildings have need between \$50 and \$100/GSF, averaging \$69/GSF





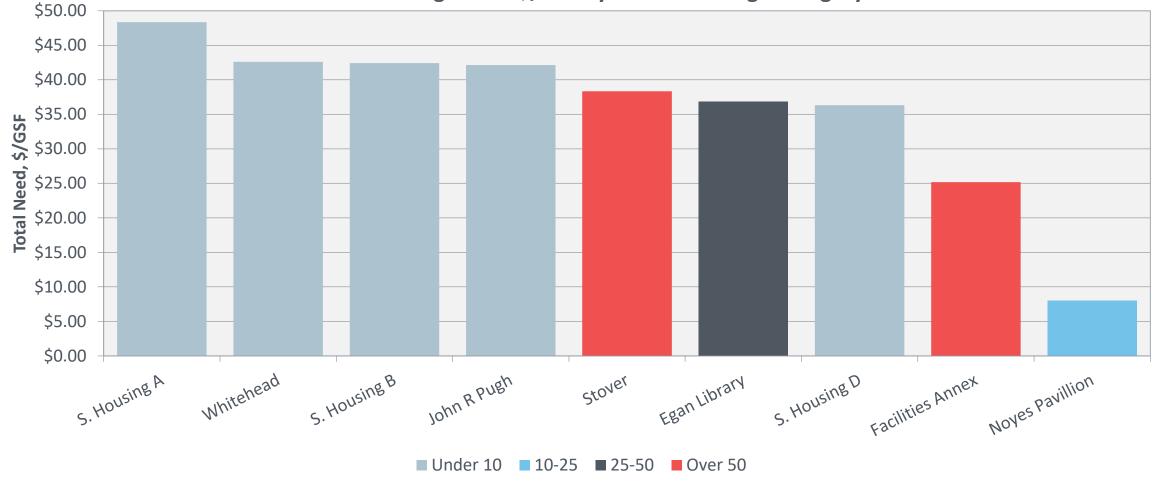


A Look at Building Needs Over 10 Years, Low Need



11 buildings with need less than \$50/GSF, averaging \$36/GSF









Project Categorization Tools

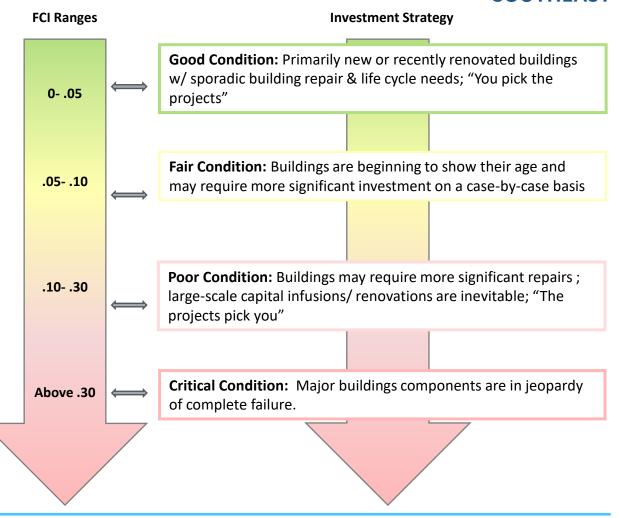


Facilities Condition Index

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Condition based investment strategy

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



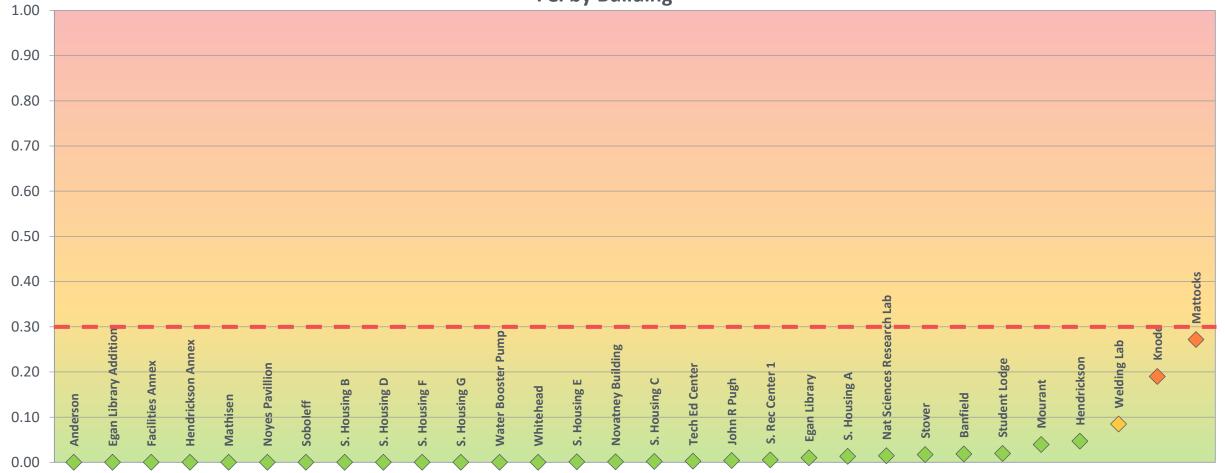


Facilities Condition Index By Building



Buildings over 25 years of age Average FCI is .32





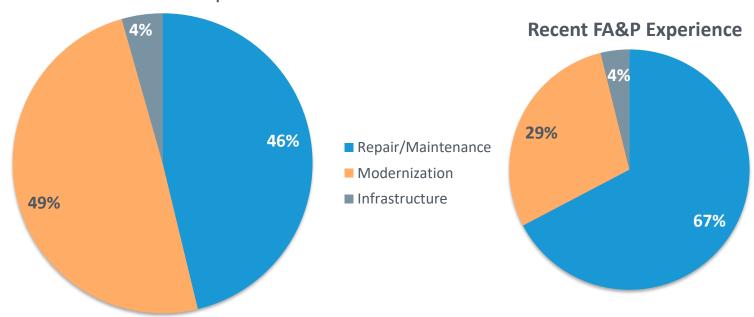


Identified Needs by Project Category

Timeframes A, B, & C only







Project Category

- **Repair/Maintenance:** Replacement of components that have failed or are failing, or planned replacement at the end of a component's life expectancy
- Modernization: Upgrades to buildings and components to meet today's needs.
- Infrastructure: Replacement/modernization of grounds and utility components outside of buildings



Identified Needs by Investment Criteria

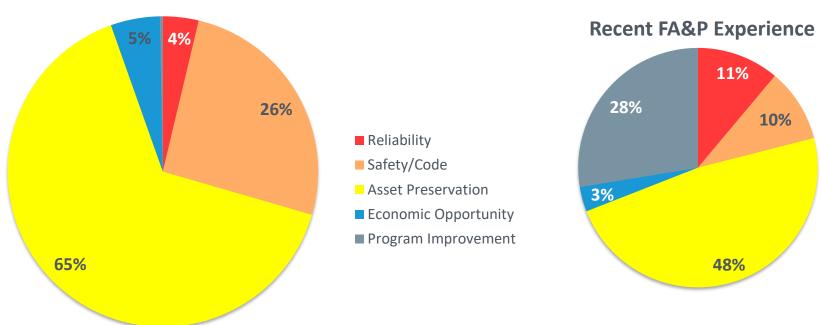
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Timeframes A, B, C, and Backlog





- Reliability: Issues of imminent failure of compromise to the system that may result in interruption to program or use of space.
- Safety/Code: Code compliance issues and institutional safety priorities or items that are not in conformance with current codes, even though the system is "grandfathered" and exempt from current code.
- Asset Preservation: Projects that preserve or enhance the integrity of buildings systems, structure, or campus infrastructure.
- Economic Opportunity: Projects that result in a reduction of annual operating costs or capital savings.
- **Program Improvement**: Projects that improve the functionality of space, primarily driven by academic, student life, and athletic programs or departments. These projects are also issues of campus image and impact.



Concept: Building Portfolios

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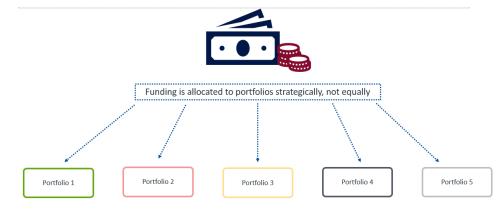
WHY?

HOW?

WHO?

Key Consideration: campus mission and existing master plan





Not all buildings are created equal

Developing a portfolio approach will allow for a focused investment approach based on the Institutional Strategic Direction.

Core considerations to the portfolio approach

- Building Age
- Building Condition
- Building Location
- Institutional function
- Academic requirements
- Student needs

- Historical Significance
- Safety/Code requirements
- Recruitment/Retention
- Transitional Space
- Adaptive Reuse

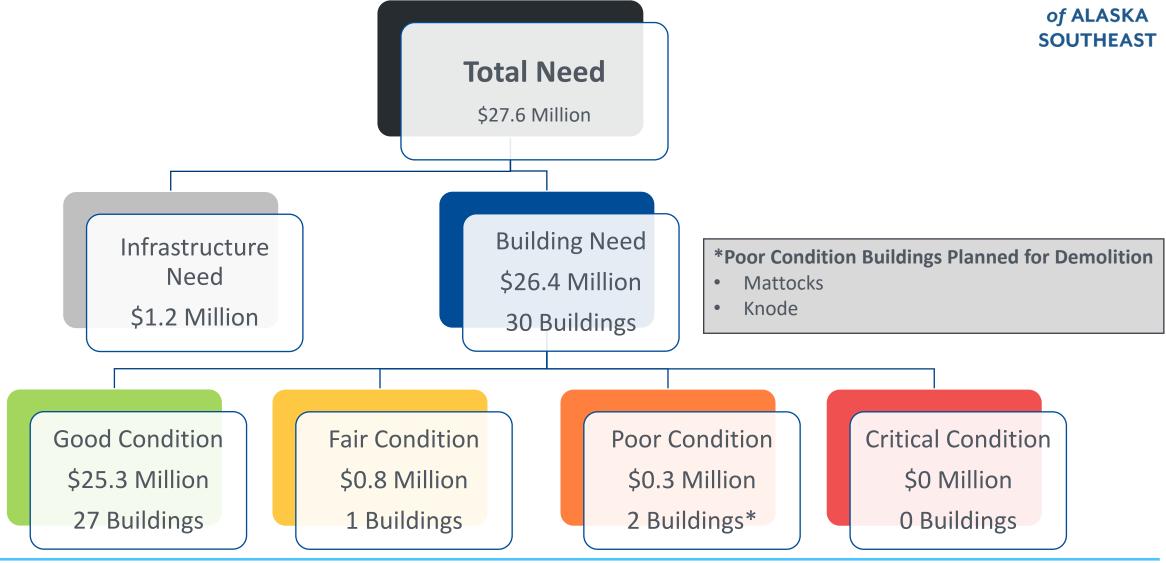
Institutional Leaders for buy in and communication

- Institutional Priorities
- Building Needs
- Future Campus Direction



Portfolios By Facilities Condition Index

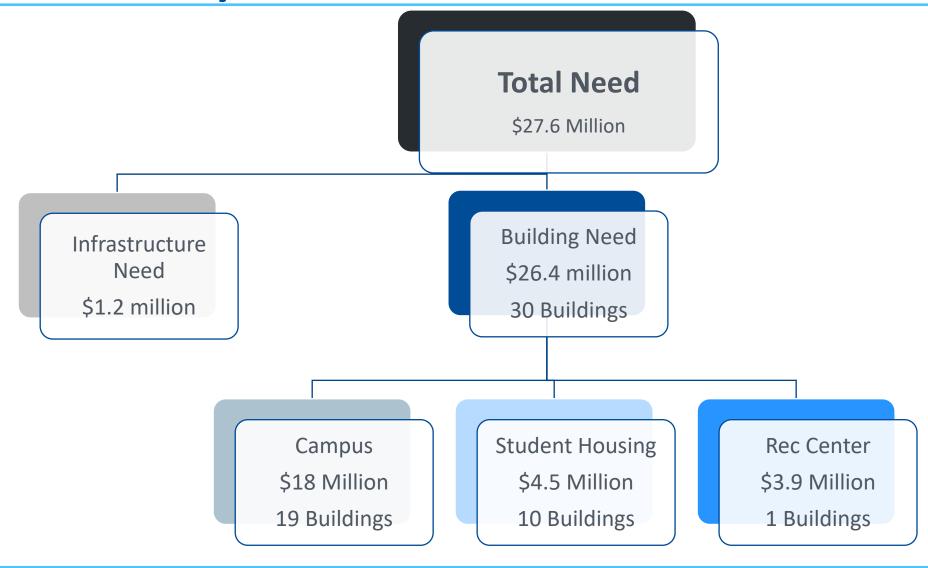






Portfolios By Function







Option - Select Projects based on Project Scoring

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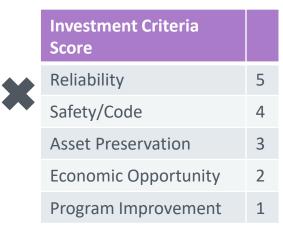
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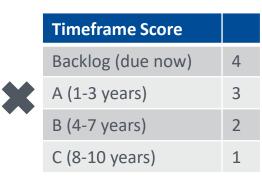
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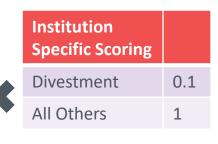
Scoring metrics are flexible



Building Score	
High need (>\$100/gsf)	3
Medium need (\$100/gsf >\$50/gsf)	2
Low need (< \$50/gsf) and majority life cycle/modernization	1







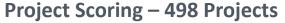


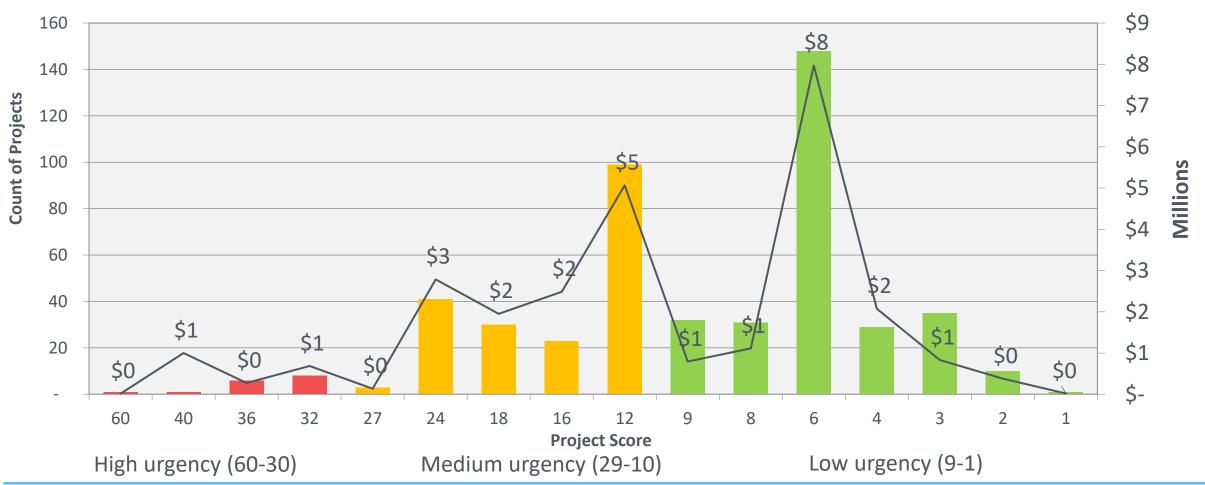
Project Scoring

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Comparing urgency of projects to total cost







High Priority Project Breakout

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Top twenty scoring projects using current methodology.

Total Project Score	Building Score	Investment Criteria	Building Name	Project Id	Level4	Level5	Cost		
60	3	Reliability	Welding Lab	4529	957 C3013214 - Drywall	Replace 5/8" drywall	\$	15,000	
40	2	Reliability	Campus Infrastructure	5218	45 G3013XX0022 - Replace Main Water Line	Replace Main Water Line	\$	1,000,000	
36	3	Asset Preservation	Welding Lab	4528	11C3033107 - Gypsum Wall Board	Replace drop ceiling	\$	50,151	
36	3	Asset Preservation	Welding Lab	4529	25 C1013110 - Concrete Block, Painted	Refinish concrete block wall painted	\$	20,000	
36	3	Asset Preservation	Welding Lab	4529	40 B3013620 - Gutters and Downspouts	Replace aluminum downspout, 3" x 4", .024" thick	\$	10,000	
36	3	Asset Preservation	Welding Lab	4529	86B3013130 - Metal Panel Roofing	Replace Metal Roof	\$	175,000	
36	3	Asset Preservation	Welding Lab	4529	97 B3013620 - Gutters and Downspouts	Replace aluminum gutter, enameled, 5" K type, .032 " thick	\$	15,000	
36	3	Asset Preservation	Welding Lab	4530	96 C3013215 - Fiberglass Panels, Rigid	Replace glass cloth fiberglass panels	\$	5,276	
32	2	Safety/Code	Banfield Hall-Residence Hall	4521	E1093XX0187 - (Custom) Elevators and Vertical .75 Systems	Replace Elevator, Per Floor	\$	200,000	
32	2	Safety/Code	Mourant Building	4523	55 D5023132 - Safety Switch, Heavy Duty	Replace safety switch	\$	793	
32	2	Safety/Code	Natural Sciences Research Lab	4520	067 D5033760 - Fire Alarm Control Panel	Replace fire alarm control panel	\$	2,699	
32	2	Safety/Code	Natural Sciences Research Lab	4520	178 D5093XX0069 - (Custom) Fire Alarm System	Replace Fire Alarm System	\$	93,000	
32	2	Safety/Code	Natural Sciences Research Lab	4522	220 D5093XX0071 - (Custom) Smoke/Heat Detector	Replace combined smoke/heat detector	\$	89,362	
32	2	Safety/Code	Natural Sciences Research Lab		221 D5093XX0071 - (Custom) Smoke/Heat Detector	Replace combined smoke/heat detector	\$	89,362	
32	2	Safety/Code	Student Recreation Center 1		56 D5033760 - Fire Alarm Control Panel	Replace fire alarm control panel	\$	10,000	
32	2	Safety/Code	Student Recreation Center 1		.98 D5093XX0069 - (Custom) Fire Alarm System	Replace Fire Alarm System	\$	200,000	
27	3	Asset Preservation	Welding Lab	4525	11B2033513 - Electric Bifolding Hangar Door	Remove and replace electric bi-folding hangar door	\$	86,053	
27	3	Asset Preservation	Welding Lab	4527	21 B2013157 - Overhang, Exterior Entry	Refinish wood overhang	\$	50,000	
24	3	Safety/Code	Welding Lab	4520	168 D5033760 - Fire Alarm Control Panel	Replace fire alarm control panel	\$	10,000	
24	3	Safety/Code	Welding Lab	4522	:04D5093XX0071 - (Custom) Smoke/Heat Detector	Replace combined smoke/heat detector	\$	60,452	



Tying Project Scoring Into Planning Efforts





Is the project scoring concept beneficial for your short-term planning efforts? If so – what institution specific scoring attribute would be most impactful?

- Feasibility Score Lower cost projects receive a higher score to identify low hanging fruit
- Future Plan Score Do you expect to keep the building long-term?
- Program Impact Score Is the project in a high-use building?
- FCI score, aligned with UAA?





Future Need and Funding Scenarios

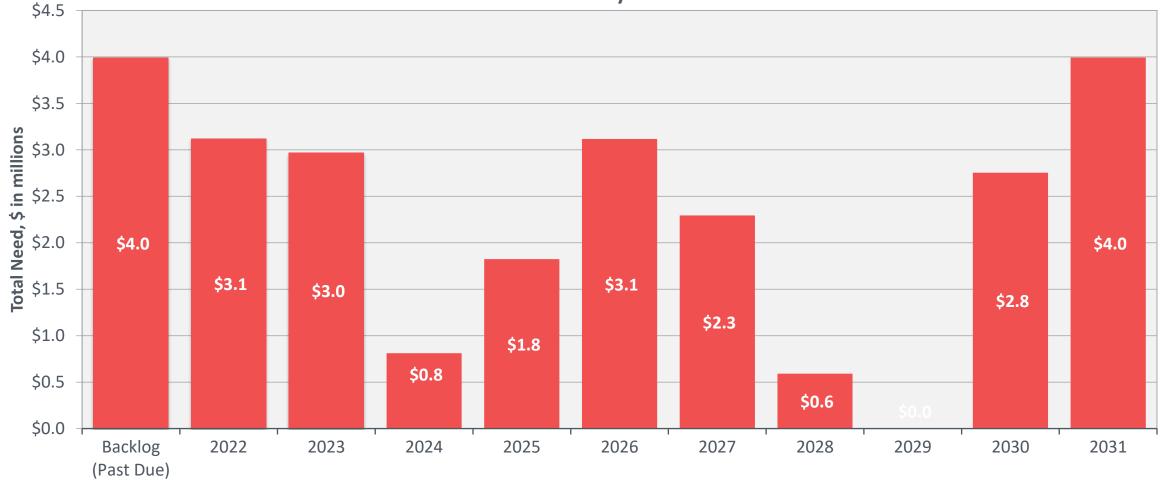


Funding Scenario- Backlog Maintained



To maintain current backlog, UAS should invest \$2.4 million annually







Funding Scenario- Backlog Reduced

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By investing \$2.5 million each year UAA will reduce backlog by 35%

