

How to Create a Capital Renewal Plan



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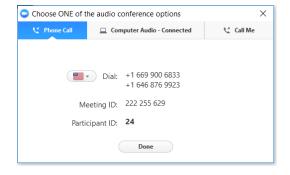
Facilities Forum

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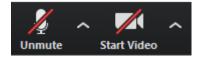


Using Zoom



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Click the mic and camera pictures until they have a red line indicating they are both off.



Asking a Question

To ask the presenter a question, type it into the Chat panel and press send.



Quantify Impact of Individual Capital Projects on Strategic Goals

2 Improve Transparency of Capital Project Prioritization

Condition Information Only One Piece of the Puzzle

Institutions Must Consider Strategic Goals When Prioritizing Projects

Sample List of Buildings Ranked by FCI

Building FCI Science Lab Building 66% Administration Building 64% Upperclass Res Hall 51% 48% Academic Office Building Student Center 40% Classroom Building 33% Dining Hall 28% Undergraduate Gym 28% 25% Lecture Hall Freshman Res Hall 23%

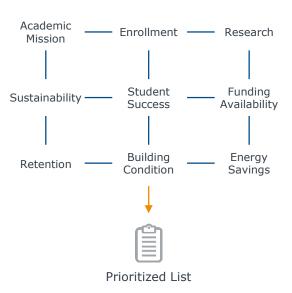
Sample List of Buildings Ranked by Impact on Strategic Priorities

	Desilation of	FOT						
	Building	FCI		Poor condition impeding				
-	Science Lab Building	66%	Н	undergraduate learning				
1	Classroom Building	33%•		Central to academic mission; historic value				
1	Freshman Res Hall	23%•	Н	Important for first-to-				
	Academic Office Building			second year retention				
	Student Center	40%						
	Upperclass Res Hall	51%						
	Dining Hall	28%						
	Undergraduate Gym	28%						
	Lecture Hall	25%						
1	Administration Building	64%		Repairs not crucial to achieve strategic goals				

Competing Goals Complicate Prioritization Process

Facilities Leaders Seek a Better Way to Evaluate Investment Tradeoffs

Many Strategic Inputs Necessary for Capital Renewal Prioritization





Strategic goals and institutional mission are more challenging to quantify than FCI, making it difficult for campus leaders to compare the relative priority of different maintenance projects.

Trickle-Down Prioritization

"The importance of a roof depends on who it's leaking on."

Academic Leader Private Research University





Prioritization Is Simplified When One Factor Takes Center Stage



Curb Appeal

Elon prioritizes projects that maintain and enhance curb appeal, aiming to attract prospective students with a beautiful campus from the moment they arrive.



Student Success

UWG moving to a system where they prioritize renovations of buildings that provide highest number of student contact hours, leveraging academic and space utilization data to identify spaces with high academic impact.

Straight from the Source



Partnering with the Academy to Understand Academic Priorities



Whitefall University¹ Scores Academic Departments

- Facilities develops a condition-based project list, categorized by building subsystem
- Subsystems ranked using 250-point algorithm evaluating age and current condition
- Facilities executive asks assistant provost to confidentially prioritize departments by program growth
- 4 Facilities cross-checks project list and department rankings to develop mutually prioritized list of renewal investments

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"Many academic leaders think it's academic political suicide to prioritize certain buildings over others, especially if it's enshrined in a paper trail."

Facilities Leader Public Flagship University

UCI University of California, Irvine

UCI's Academic Prioritization Process

Facilities creates project list based on condition, knowledge of buildings, and risk of failure

Facilities executive meets with 50 academic building facility managers to adjust the list based on academic input

Facilities sends list to assistant deans for review and approval

Oversight Committee (25 senior-level members) meets to review list; committee does not have approval authority, but meeting provides opportunity for members to give input into prioritization process



Project priority list finalized

Quantifying Considerations to Facilitate Comparison

WIU's Matrix Evaluates Projects on a Consistent Scale

Western Illinois University's Strategic Building-Wide Renovation Matrix

	Building		Waggoner Hall	Horrabin Hall				
	Building Type		Academic	Academic •				
	Utilization	2.0	5	3				
		WT	10	6				
	Life Safety and ADA	3.0	3	2				
NC		WT	9	6				
	Fundable	1.0	1	5				
		WT	1	5				
ERIC	Master Plan Factor	2.0	4	3				
CRIT		WT	8	6				
STRATEGIC RENOVATION CRITERION	Staff and Student Needs	3.0	3	5				
/ATI		WT	9	15				
δN	Visibility	2.0	4	5				
REI		WT	8	10				
255	Building Exterior Needs	2.0	2	3				
RAT		WT	4	6				
ST	Deferred Maintenance	3.0	5	5				
		WT	15	15				
	FCA Factor**	2.0	2.75	2.4				
		WT	5.5	4.8				
	Other	2.0	4	2				
		WT	8	4				
	Comments							
	Strategic Renovation Factor ou possible points	77.5	77.8					

Members of the Master Plan Implementation Team fill out matrix for each building their department occupies



UNIVERSITY

Each score (from 1 to 5) weighted 1, 2, or 3 to reflect metric's relative strategic importance

Matrix assigns score up to 110, a scale sensitive enough to yield sufficiently different outcomes and facilitate comparison

For a complete version of WIU's Building Renovation Matrix, please access the full research study here.





Many Facilities Leaders Draw on Military Experience in Higher Ed Work



ASU is developing a prioritization model based on the U.S. Navy's Mission Dependency Index, which evaluates a building's priority level based on the projected repercussions of its failure.



USF uses a scoring matrix inspired by the U.S. Air Force for prioritizing projects, assessing and scoring projects on five criteria: life safety, operational impact, condition, user priority, and quality.

Immediately Available Resource



Access the Full Research Study Online





To learn more about how institutions can reduce deferred maintenance backlogs through communication, assessment, prioritization, and planning, access the full research study here.

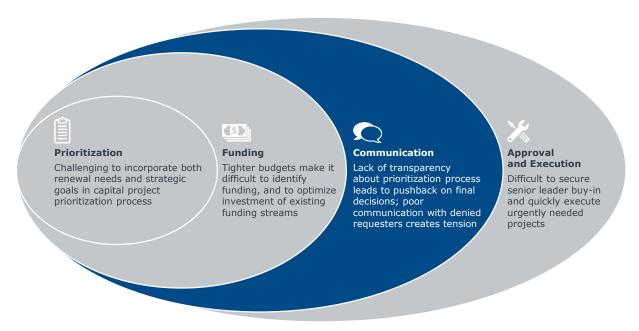
Quantify Impact of Individual Capital Projects on Strategic Goals

2 Improve Transparency of Capital Project Prioritization

Improve Transparency of Capital Project Prioritization to Demonstrate Strategic Alignment



Four Key Components and Challenges of Capital Planning



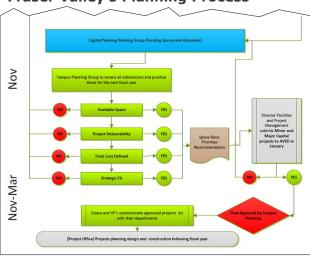
Showcasing Principled Prioritization



UFV Codifies Updated Planning Process With Single-Page Flowchart



Screenshot of the University of the Fraser Valley's Planning Process



Elements of Effective Prioritization Flowchart



Highlight Stakeholders Involved

UFV highlights Capital Planning Working Group, which includes cross-campus representation (e.g., deans, SFO, Provost, VP of Students)



Succinctly Outline Key Process Steps and Timeline

Depicts step-by-step prioritization process with general timeline and stakeholders involved in one page



Preview High-Level Decision-Making Criteria

Provides high-level depiction of project prioritization criteria and decision-making process

Download the University of the Fraser Valley's Planning Process Map here.

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Communicate Both Process and Outcome

UBC Illustrates Procedure, Prioritization Criteria, and Final Project List

Screenshots of the University of British Columbia's Capital Planning and Prioritization Process Presentation





Topics Covered in Presentation

- Capital planning governance and responsibilities
- Description of capital planning principles that inform decisions
- High-level capital planning and prioritization process map
- List of stakeholders who provide input into capital planning
- Detailed explanation of prioritization model and criteria with weightings
- Table of five-year capital plan with deferred maintenance reduction for each project

Download UBC's Capital Planning and Prioritization Process Presentation here.



Visualizing Prioritization for Stakeholders

UBC's Matrix Depicts Inputs and Outputs of Prioritization

University of British Columbia's Strategic and Operational Scoring Matrix







Quantifying Strategic and Operational Factors

UBC Leverages Scoring Model to Evaluate Capital Projects on Uniform Scale

University of British Columbia's Project Prioritization Criteria



	Contribution to University Strategic Priorities							Contribution to Operational Risk Mitigation and Performance					
Criteria	Teaching & Learning	Research & Innovation		Community Engagement	Other Key Priorities	Total Weighted Strategic	Health & Safety		Legal, Regulatory, Reputation	Business Case	Total Weighted Operational		
Criteria Weighting	30%	30%	20%	10%	10%	Score (out of 10)	25%	25%	25%	25%	Score (out of 10)		

Sample Capital Project Scoring

Capital Project	Raw Score (out of 10)	Total (out of 10)	Raw Score (out of 10)	Total (out of 10)							
Biological & Environmental Engineering Building	10	10	3	3	3	7.20	3	3	0	8	3.50
Undergraduate Chemistry Teaching Labs	10	3	6	3	5	5.90	10	10	3	6	7.25
UBC Life Building	2	0	10	3	3	3.20	0	3	0	3	1.50
Biomedical Engineering	10	10	0	0	3	6.30	0	0	0	8	2.00
UBCO Industrial Scale Engineering Lab	7	9	3	3	0	5.83	3	3	0	6	3.00
Asian Centre Renovation & Library Addition	6	6	6	8	9	6.50	6	3	0	0	2.25

Immediately Available Resource



Access the Full Research Study Online



Capital Project Planning Toolkit

For strategies to better educate stakeholders about capital projects, access the full toolkit here.



Contact Information



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Evaluating Today's Session



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