

Center for Advanced Materials and Clean Energy Technologies

06.17.2016



UNIVERSITY OF WASHINGTON

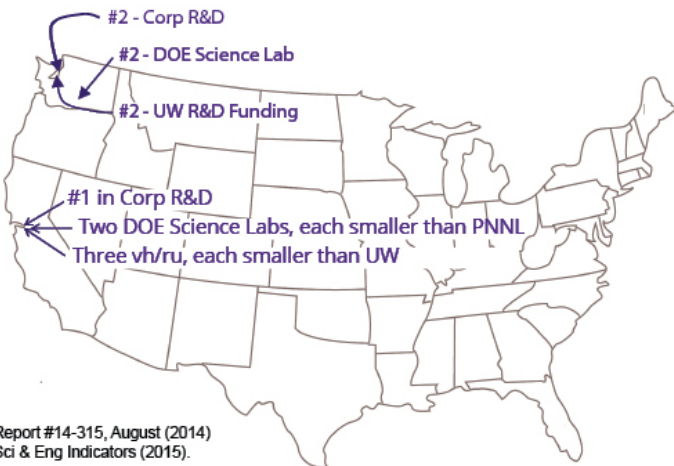
CAMCET will be an innovation hub that connects Washington to the world by catalyzing the key partnerships needed to accelerate solutions for a healthy planet.

CAMCET @ the Innovation District

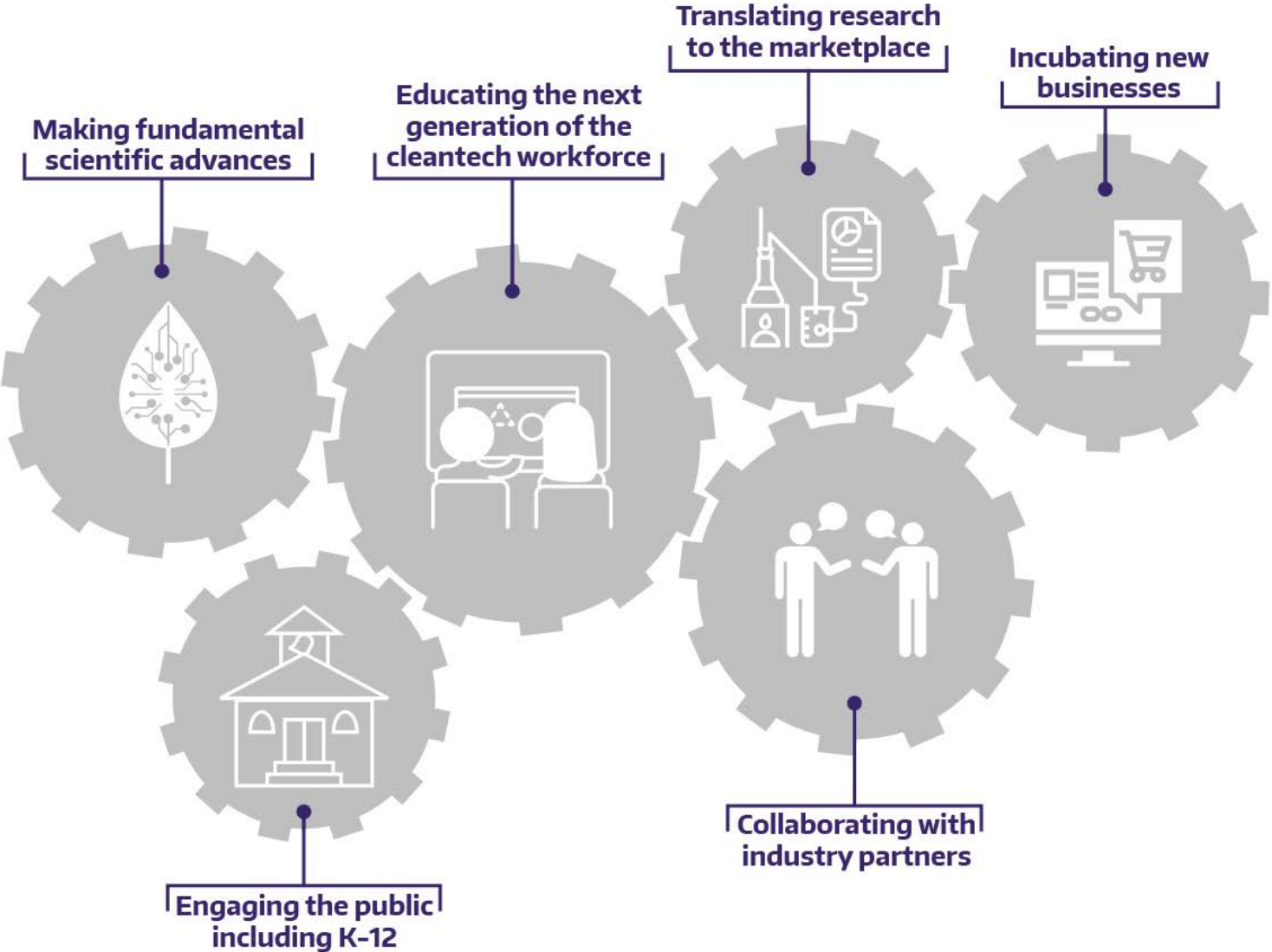


Clean technology, “cleantech,” is one of the fastest growing sectors in the nation, and the State of Washington has a unique opportunity for sustained leadership across the country.

Shared Infrastructure, R&D Ideas, and Funding create an ecosystem



NSF Report #14-315, August (2014)
NSF Sci & Eng Indicators (2015).



Goals

CAMCET will foster collaborative research that accelerates solutions for a healthy planet.

CAMCET will catalyze partnerships.

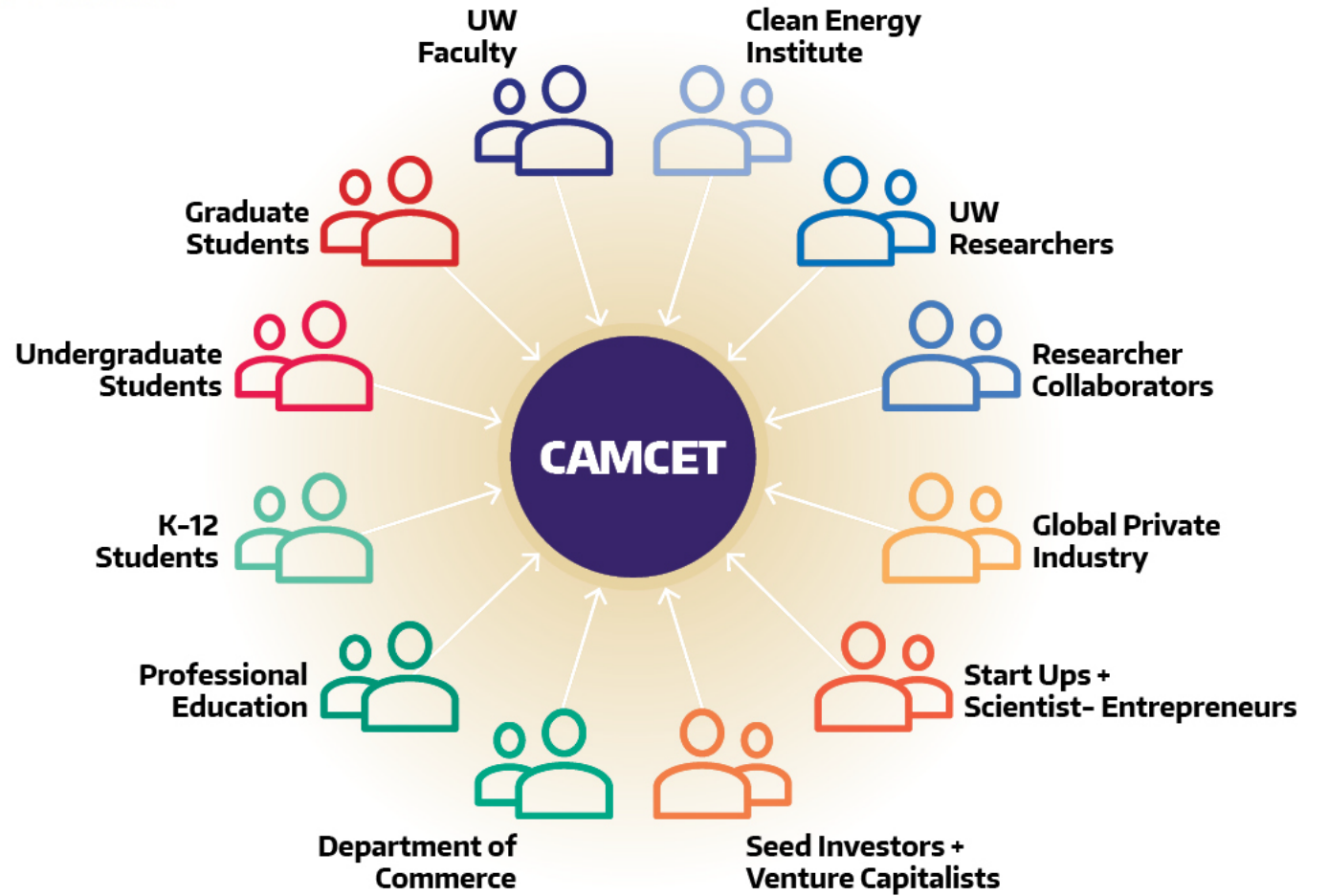
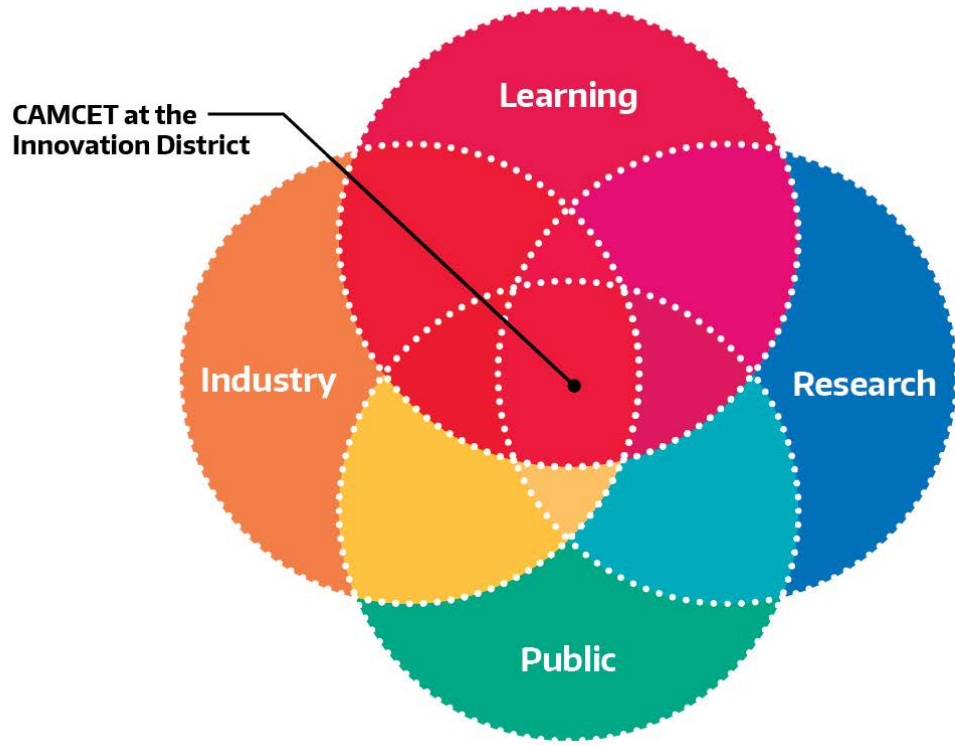
CAMCET will kick start the Innovation District.

CAMCET will increase STEM degree production and provide students with innovative STEM learning environments.

CAMCET will convene the clean tech community, and incubate start-up companies that succeed in the marketplace.

CAMCET will accommodate FTE growth and relieve some critical campus classroom needs.

CAMCET AT THE INNOVATION DISTRICT



STAKEHOLDERS



CLEAN TECH



ECOSYSTEM



ASSUMPTIONS

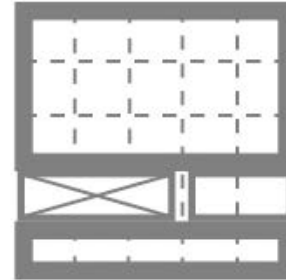
CAMCET will foster university research, learning, and technology activities that collaborate with key business and government partners to create impact in the clean technology sector.



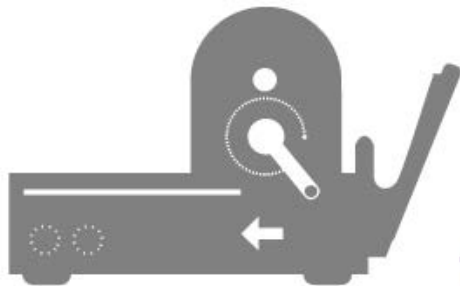
Learning happens everywhere.



Collaboration is deliberate.



Space is flexible.



Technology is shared.



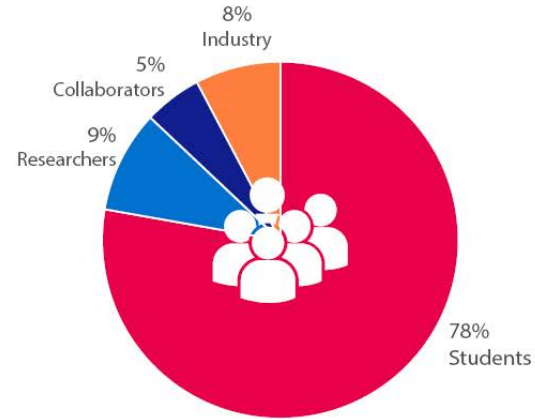
Test Beds are co-located.

Program Summary

#	Area Name	ASF	%
A LEARNING			
1.00	Exhibition & Conference	4,500	4%
2.00	Collaborative Commons	7,120	7%
3.00	Learning	16,230	16%
4.00	Meeting Rooms	3,300	3%
5.00	Administration	200	0.19%
	Sub total	31,350	30%
B RESEARCH			
6.00	Research Labs	31,918	31%
7.00	Shared Instruments	8,400	8%
8.00	Administration	950	1%
	Sub total	41,268	40%
C INDUSTRY			
9.00	Incubation Labs	4,410	4%
10.00	Test Beds	17,030	16%
11.00	Administration	1,145	1%
	Sub total	22,585	22%
D PUBLIC			
12.00	Building Entry	1,975	2%
13.00	Central Cafe	1,700	2%
14.00	Back of House	4,680	5%
	Sub total	8,355	8%
	Total Net ASF	103,558	
	Net To Gross	x1.67	
	GROSS INTERNAL AREA	172,596	

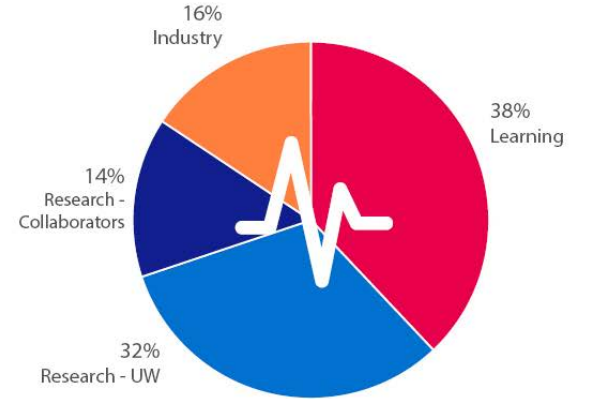
LENS: PEOPLE

How many people will CAMCET accommodate?



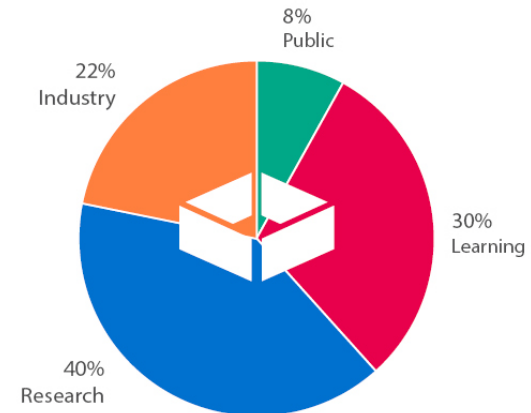
LENS: FUNCTION

What activities will occur in the building?



LENS: AREA

What are the main intentions of the spaces?



Site Analysis



Solar Studies

SPRING - FALL EQUINOX

SUMMER SOLSTICE

WINTER SOLSTICE

10AM



12PM



14PM



Massing Studies

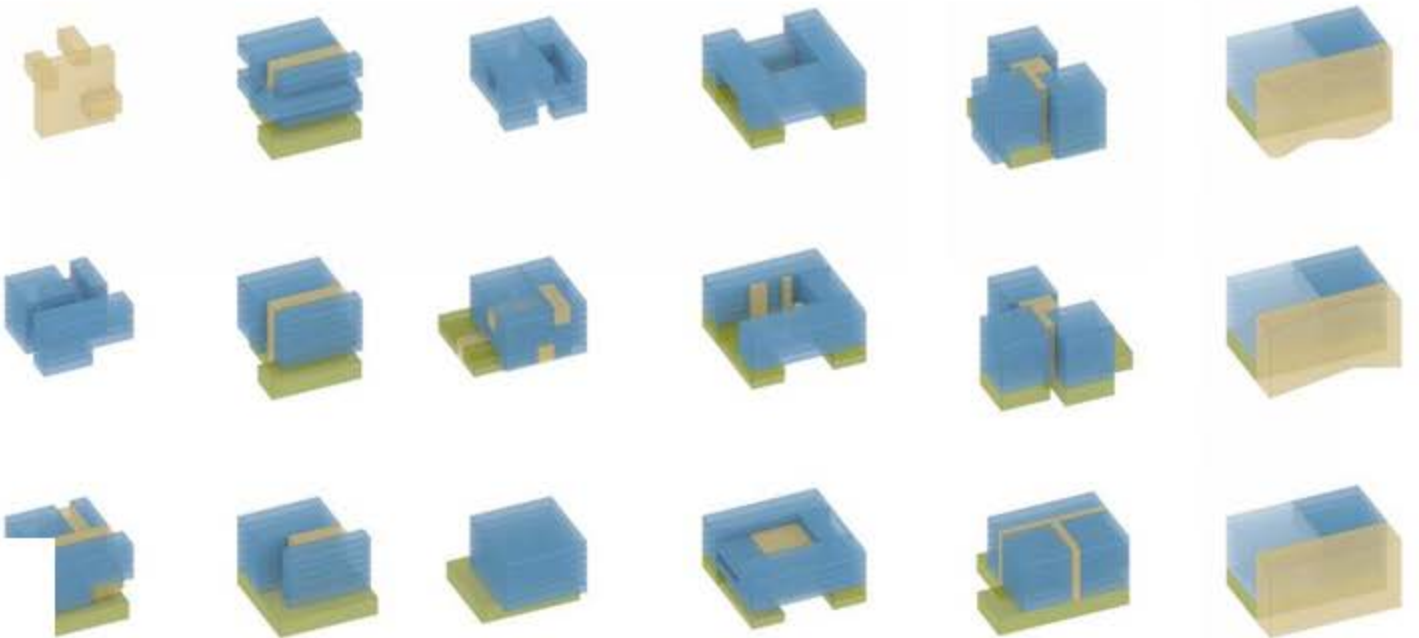


4.2 Minimizing Mitigation Requirement

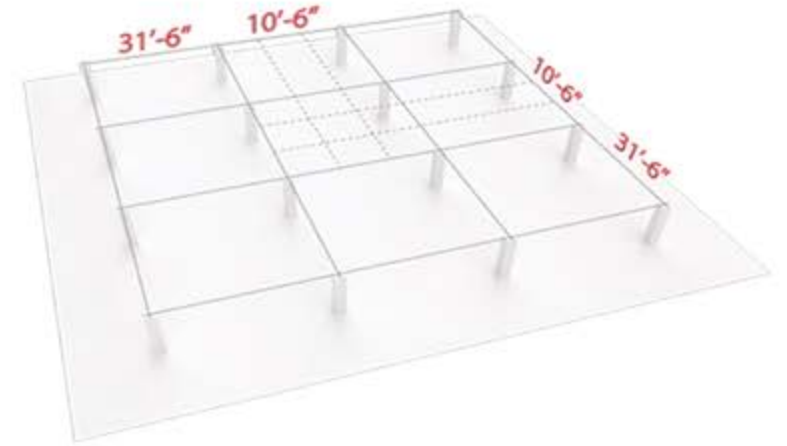
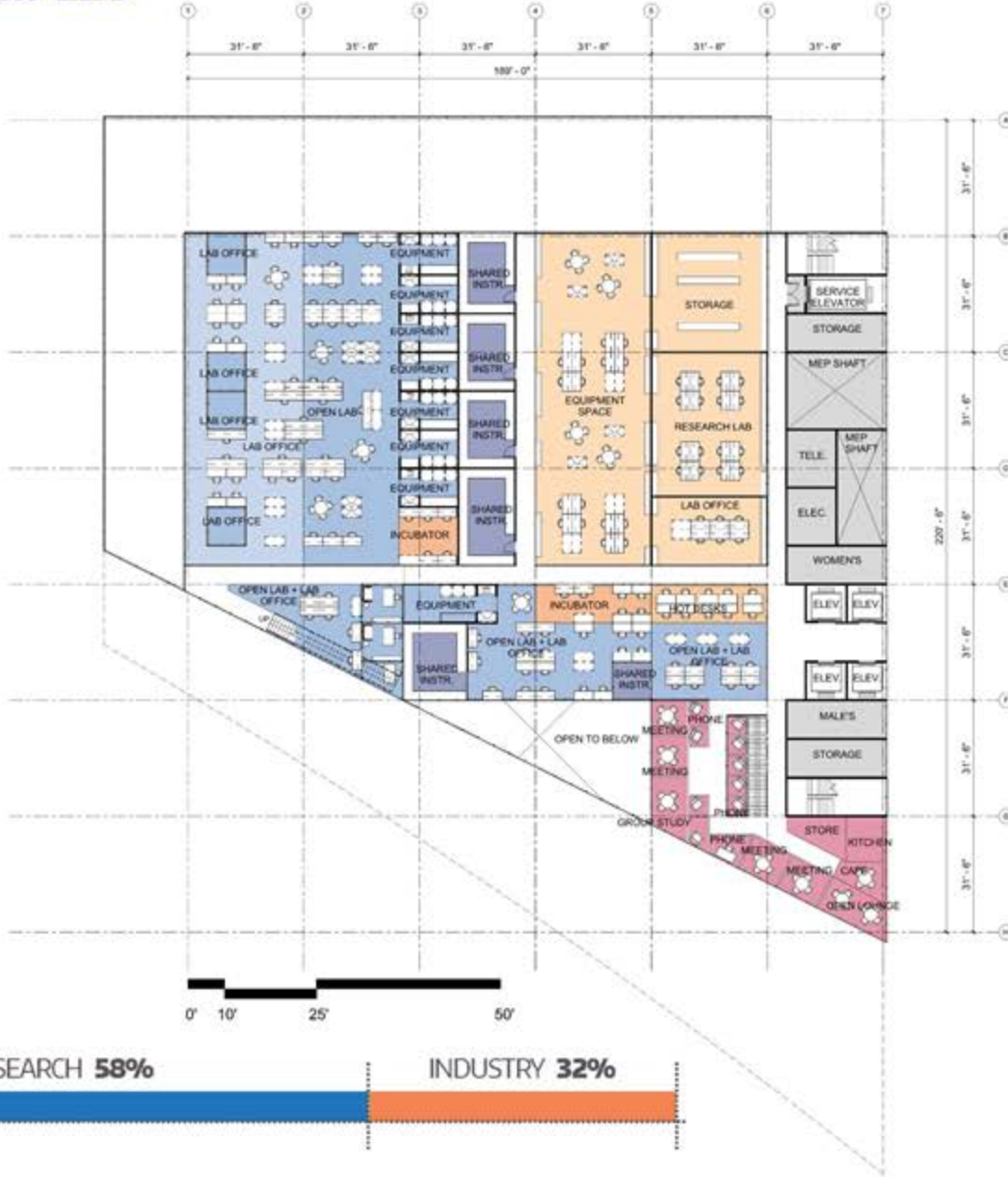
4.3 Acquisition Process

4.4 Preferred Site(s)

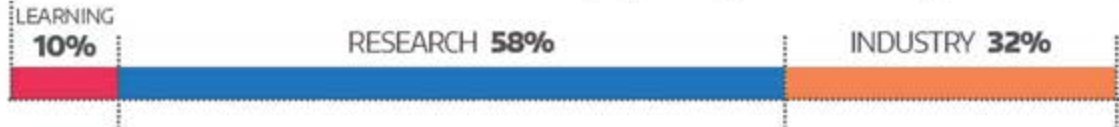
Generic Program Organization Studies



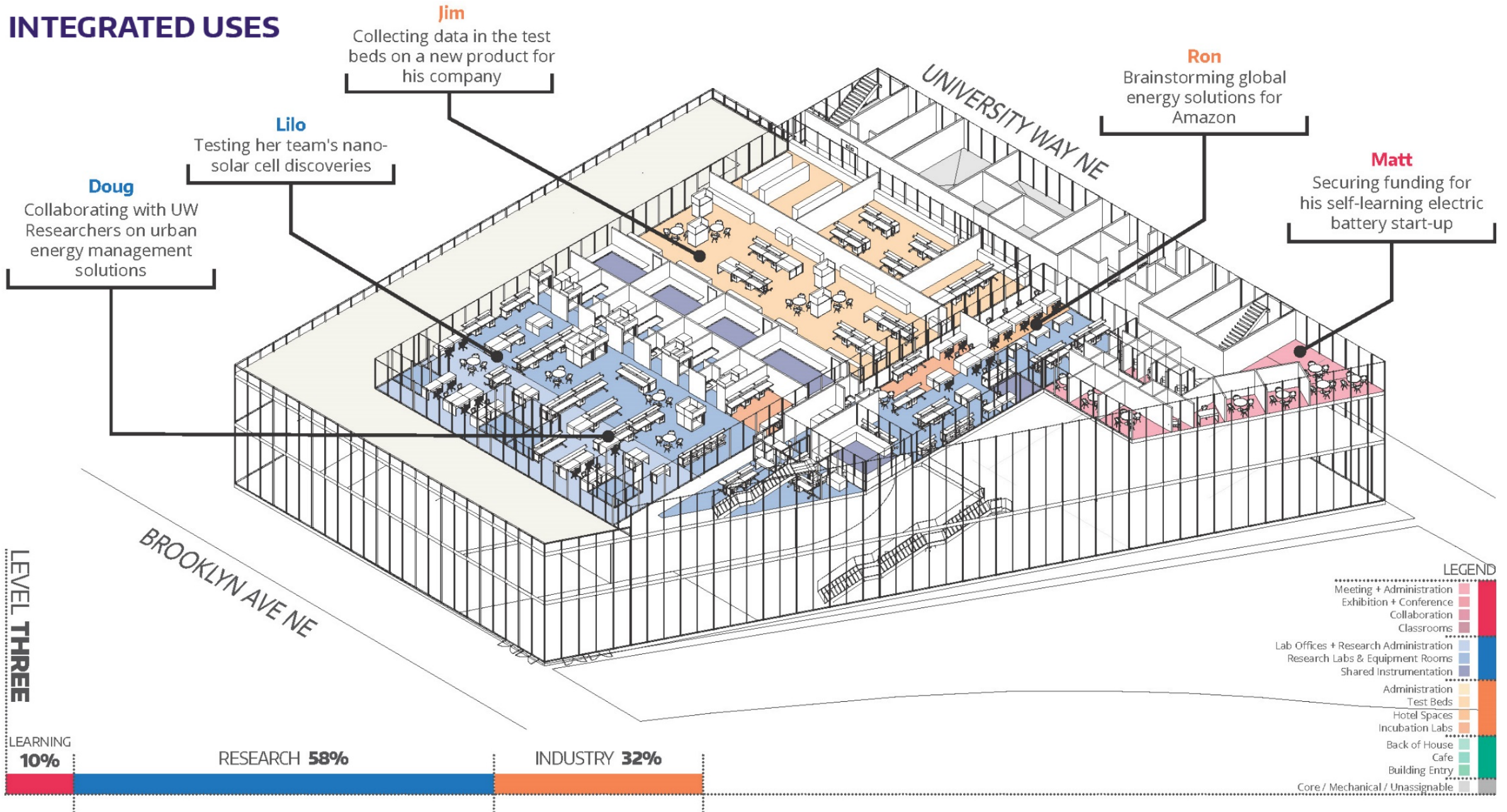
PLANNING PRINCIPLES



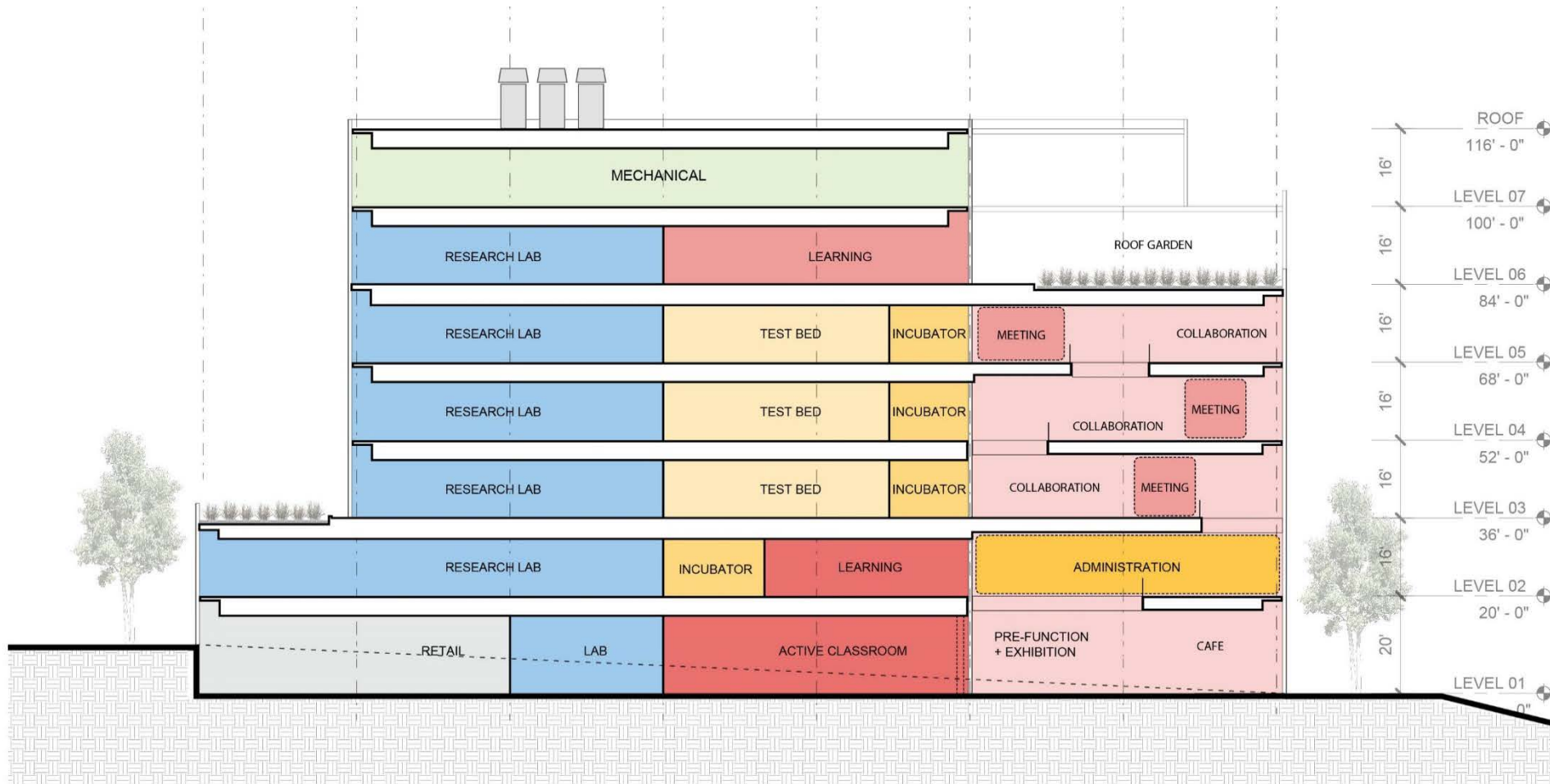
LEVEL THREE



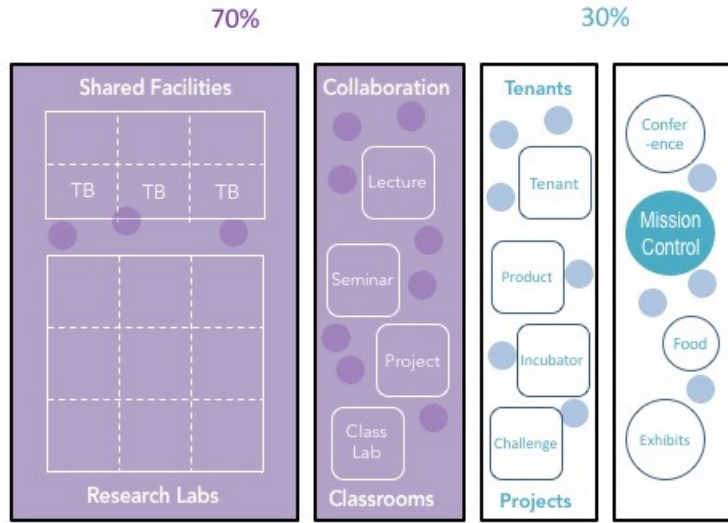
INTEGRATED USES



Section



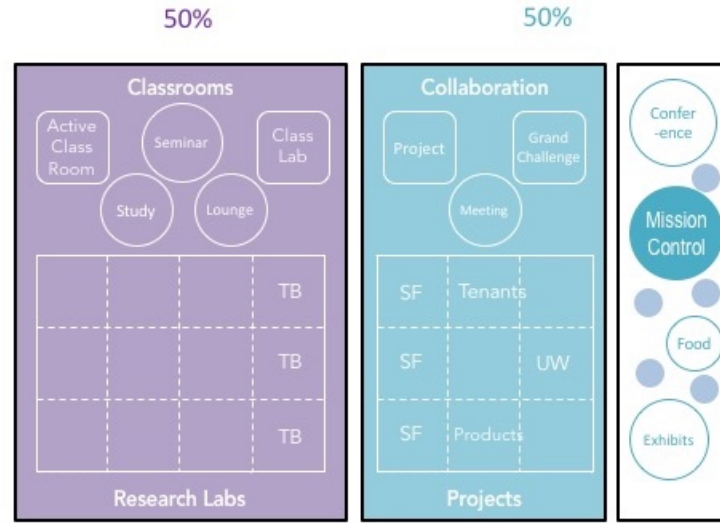
Lab Planning Conceptual Approach



Research Learning Translation Partnerships

Hopeful

UW Research
UW Learning
Incubation
Conference



Research Learning Translation Partnerships

Indirect

UW Research
UW Learning
Tenant Space
Incubation

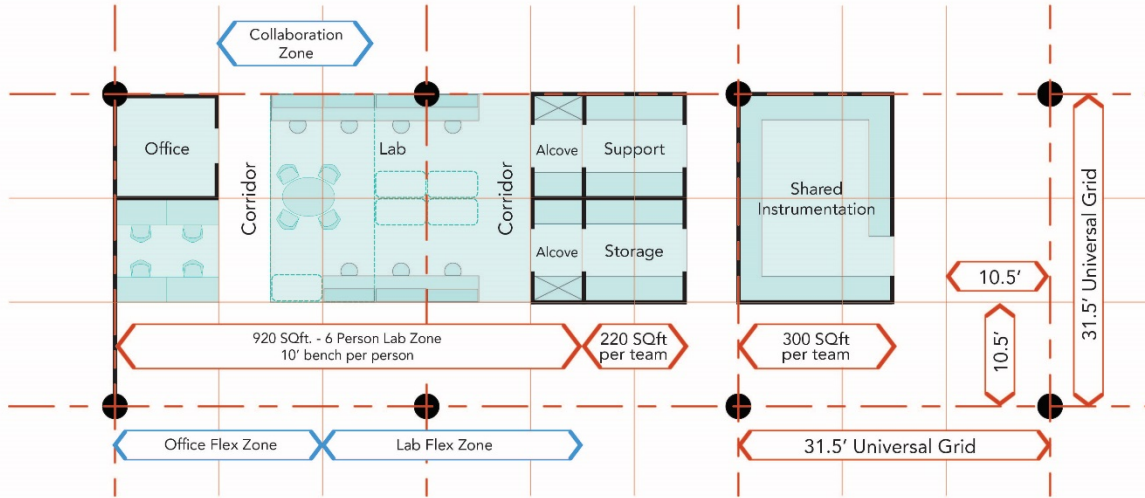


Deliberate

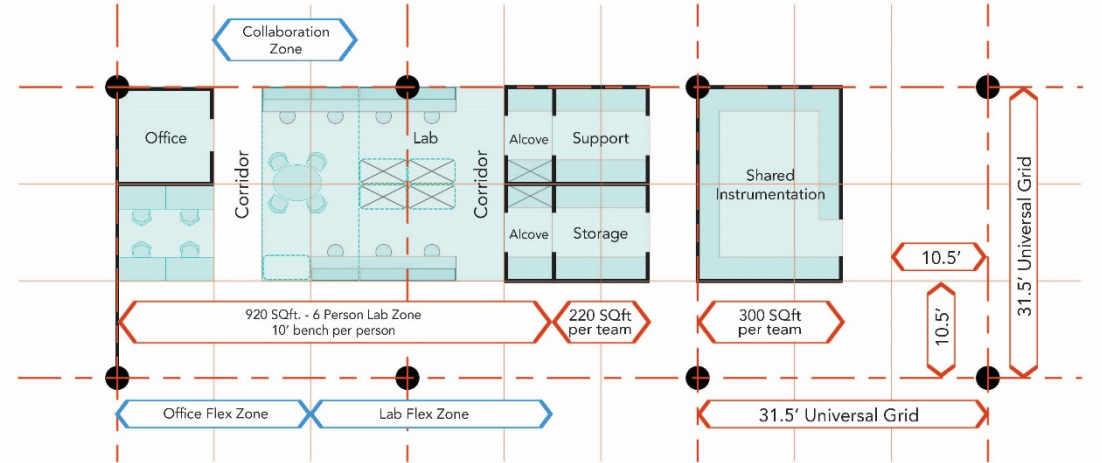
Mission Control
Project Space
Scale Up
Grow On

Modularity in Planning

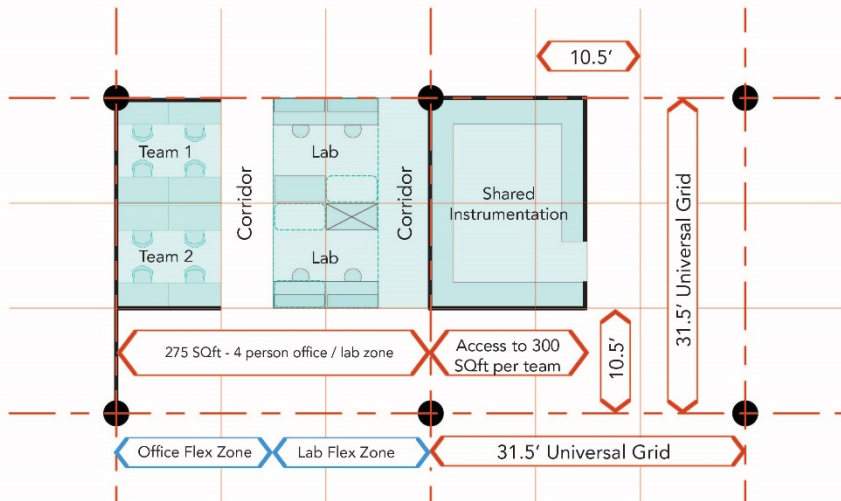
Lab Module - With Alcove



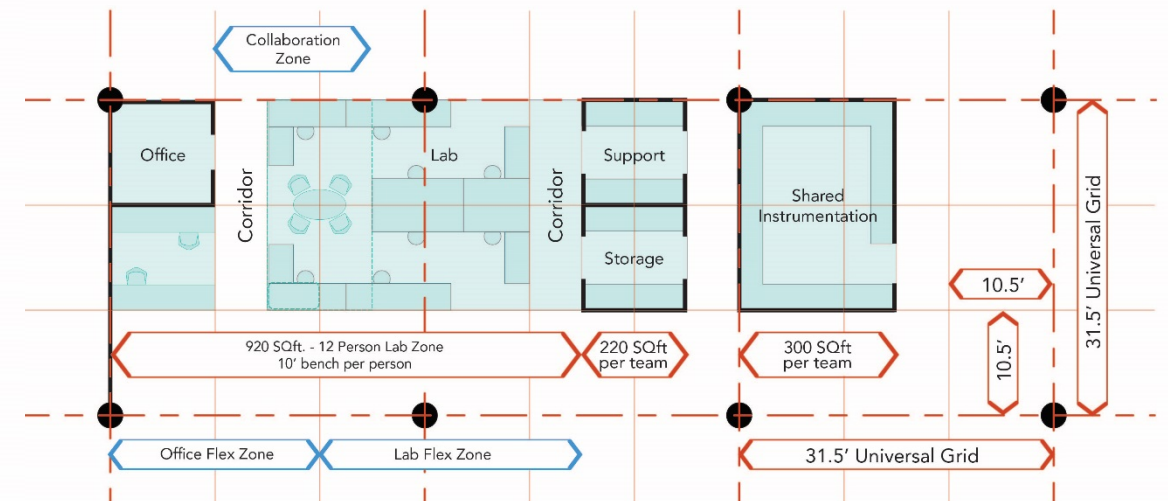
Lab Module - Chemistry With Alcove



Lab Module - Startup / Incubator



Lab Module - Computation







GUIDING PRINCIPLES OF THE CAMPUS MASTER PLAN

1. Flexible Framework for growth and expansion
2. Pedagogy based University / Industry
3. Partnership
4. Sustainable development
5. Connectivity
6. Stewardship of Historic & Cultural resources

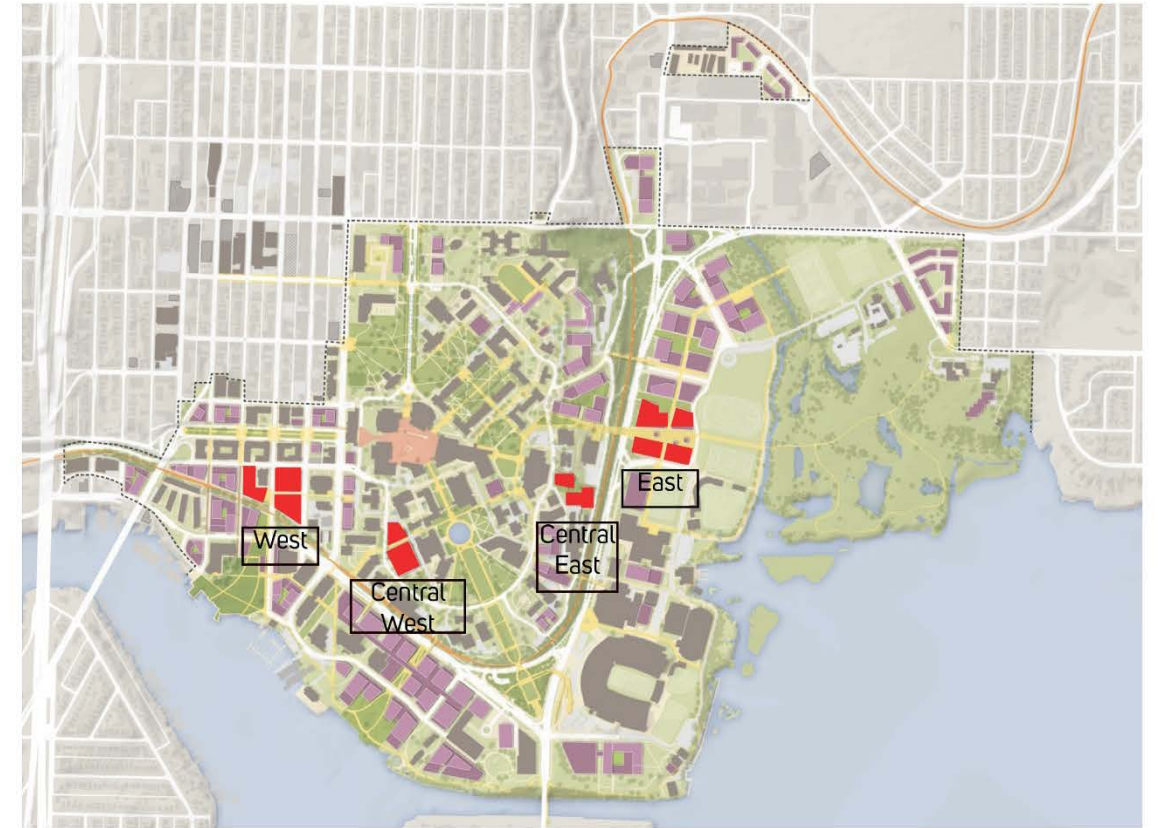
Four Districts identified by the University of Washington Master Plan were evaluated and the west campus specifically the Innovation District was determined as the ideal location for the CAMCET building.



Campus Precinct Plan

EVALUATION CRITERIA

1. Access to campus research diversity and multidisciplinary interaction
2. Campus connectivity
3. Access to ecosystem support amenities (food, Recreation and living)
4. Site availability for Ecosystem growth
5. Proximity to university resources
6. Vehicular and public transportation accessibility by UW and partners
7. Visibility and exposure (inward and outward)
8. Site Capacity
9. Impact on Existing Uses
10. Relative Construction Cost



Alternative Sites

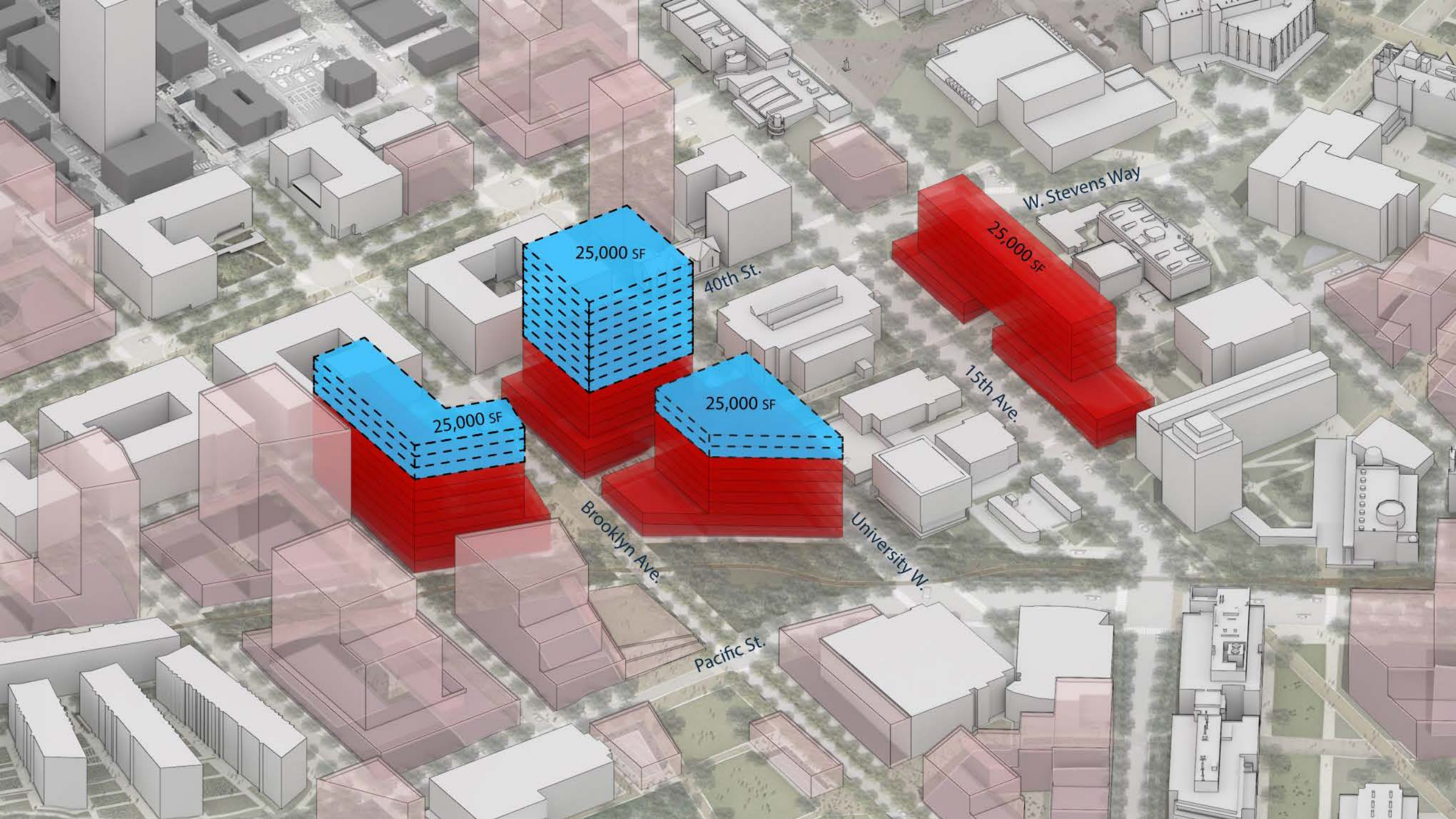


A

B

C

D



25,000 SF

40th St.

W. Stevens Way

25,000 SF

25,000 SF

15th Ave.

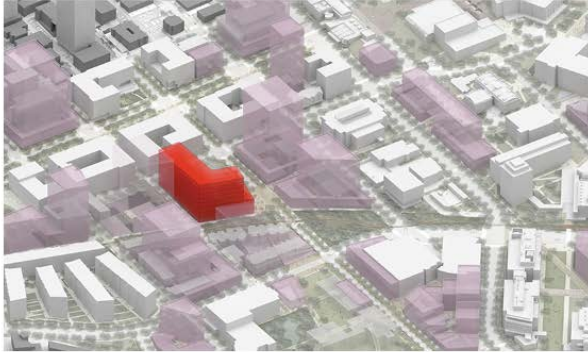
25,000 SF

Brooklyn Ave.

University W.

Pacific St.

West Site A



Master Plan

Podium Height	56Ft / 4 Floors
Tower Height	196 Ft / 14 Floors
Max Sf	401,542 Sf
Ground Floor	33,469 Sf
Demolished Sf	Empty Lot

West Site B



Master Plan

Podium Height	56Ft / 4 Floors
Tower Height	224 Ft / 16 Floors
Max Sf	486,752 Sf
Ground Floor	41,252 Sf
Demolished Sf	32,497 Sf
	S. Of Terry Lander

Massing

Podium Sf	41,200 Sf X 3 Floors
Tower Sf	25,000 Sf X 4 Floors

West Site C



Master Plan

Podium Height	42Ft / 3 Floors
Tower Height	140 Ft / 10 Floors
Max Sf	283,649 Sf
Ground Floor	36,363 Sf
Demolished Sf	32,497 Sf
	S. Of Terry Lander

Massing

Podium Sf	36,363 Sf X 2 Floors
Tower Sf	25,000 Sf X 6 Floors

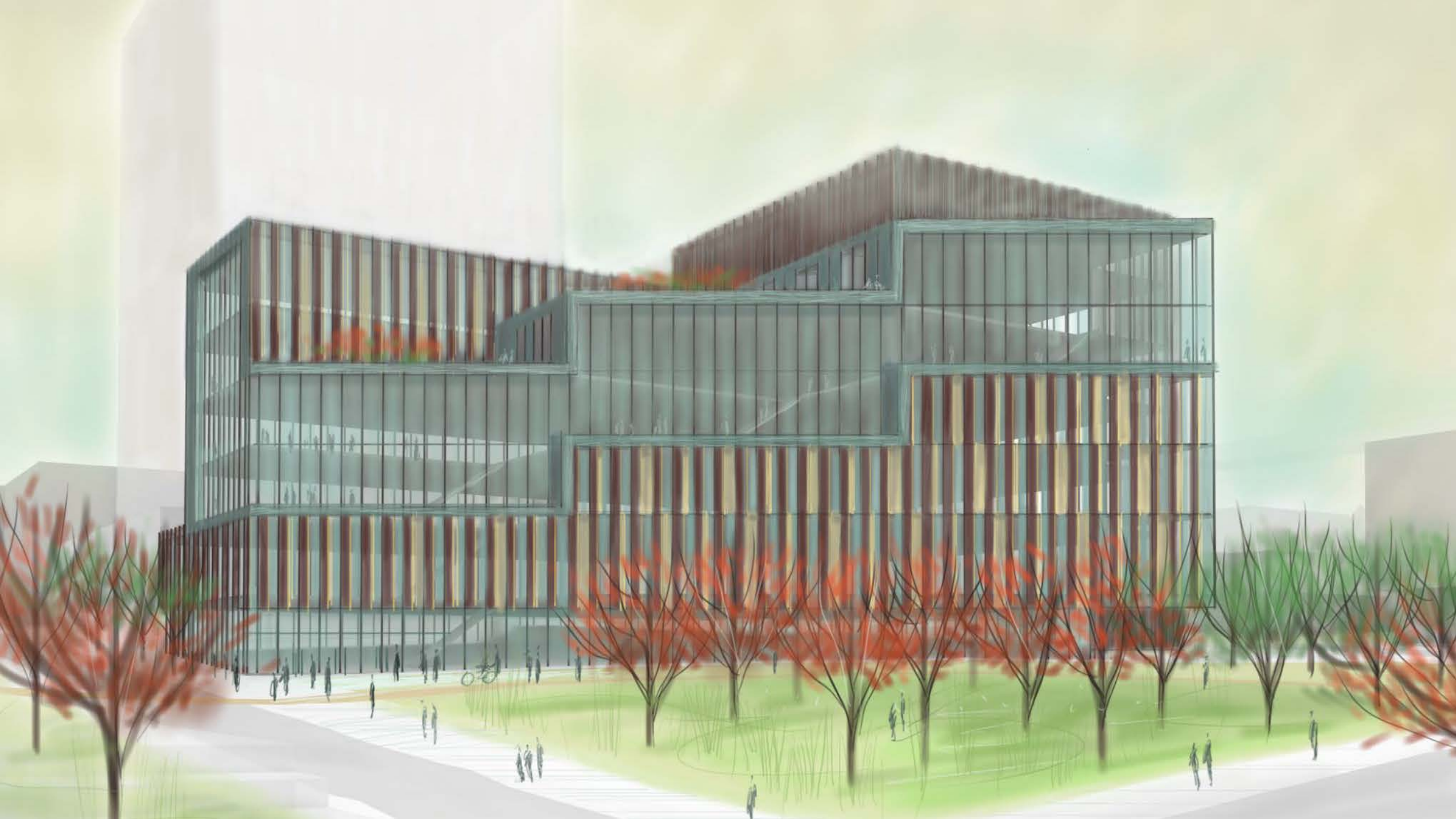
West Site D



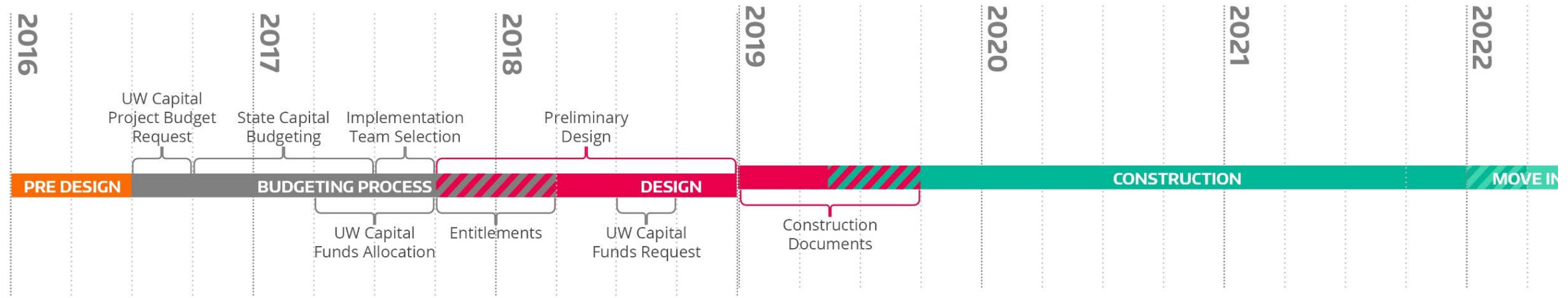
Master Plan

Podium Height	56 Ft / 4 Floors
Tower Height	70 Ft / 5 Floors
Max Sf	259,833 Sf
Ground Floor	37,249 Sf
Demolished Sf	Guthrie Annex 1-2-3





Schedule and Milestone Dates



Activity	Targeted Start Date	Targeted Completion Date
Establish Project		
Project Predesign	September 10, 2015	June 24, 2016
UW Capital Budget Request (17-19 Biennium)	August 1, 2016	June 27, 2017
State Capital Budgeting (17-19 Biennium)	September 12, 2016	June 27, 2017
UW Capital Funds Allocation (17-19 Biennium)	January 6, 2017	August 21, 2017
UW Capital Budget Request (19-21 Biennium)	August 1, 2018	September 12, 2018
State Capital Budgeting (19-21 Biennium)	September 12, 2018	June 28, 2019

Project Implementation		
Implementation Team Selection Process	June 27, 2017	September 6, 2017
Entitlements	October 17, 2017	March 1, 2019
Design	October 17, 2017	October 16, 2019
Construction	May 23, 2019	July 13, 2022
Owner Activities (Move-In)	April 28, 2022	June 22, 2022