



knowledge changing life

Space Management Program Overview

November 17, 2022

Planning, Design and Construction Office

ULTIMATE GOAL

$$\frac{\$}{SF}$$

It seems so simple...

- At an institutional level, it may be
- Real benefit comes at organizational level
- Needs to be repeatable and transparent
- The denominator is what we control

CHALLENGES



Core Concepts are around...

- Measuring allocated or assigned space when we are trying to share more
- Nuances with each researcher (PI) can create headwinds, but as a whole an extremely useful metric at high levels for management
- Dry vs. wet (and hybrid) research trends

The reality is space will continue to be assigned to PI labs/efforts and shared space still can be incorporated and valued.

...so we press on...

ABOUT MCW

Academic Medical Center Partners

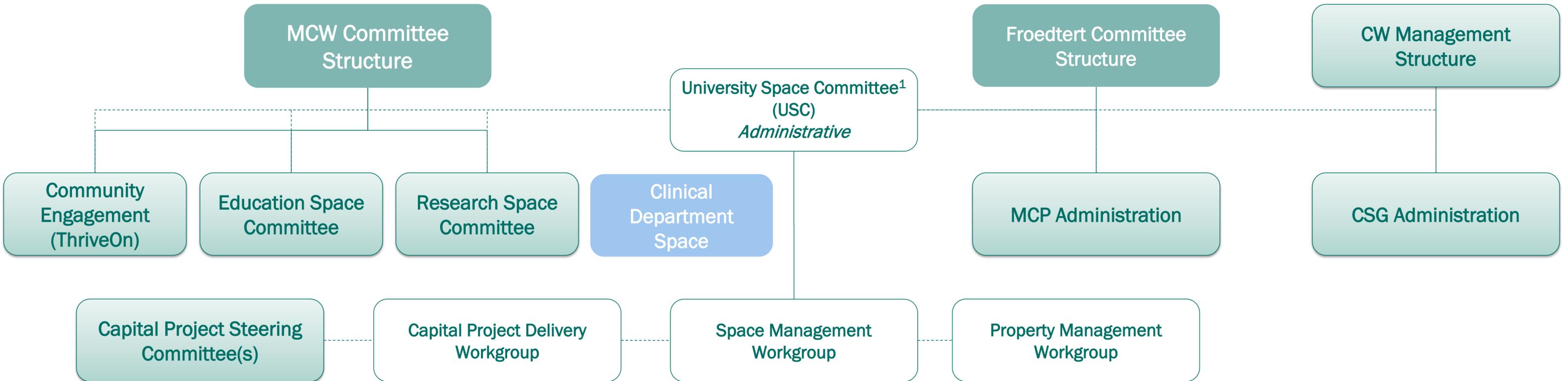
Medical College of Wisconsin

Top 1/3 of all US medical schools in NIH research support

- Faculty: >1,949 Full Time
- Staff: >3,756 Full Time
- Learners: ~1,540
- Residents: 700
- Fellows: 200
- Volunteer Faculty: 2,500
- School of Medicine
- School of Graduate Studies
- School of Pharmacy

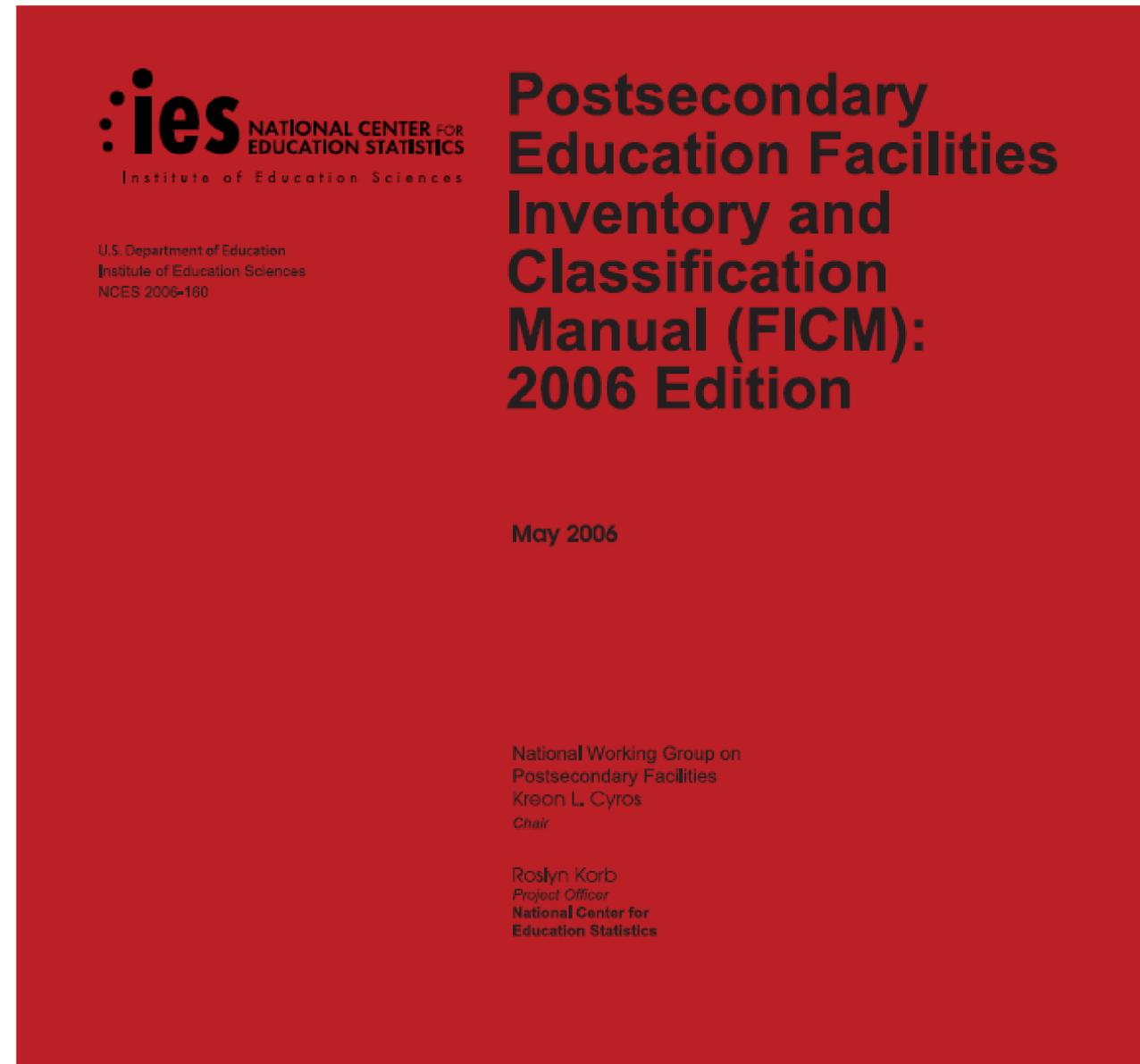


FRAMEWORK



THE SPACE MANAGEMENT FOUNDATION

GUIDING DOCUMENTS



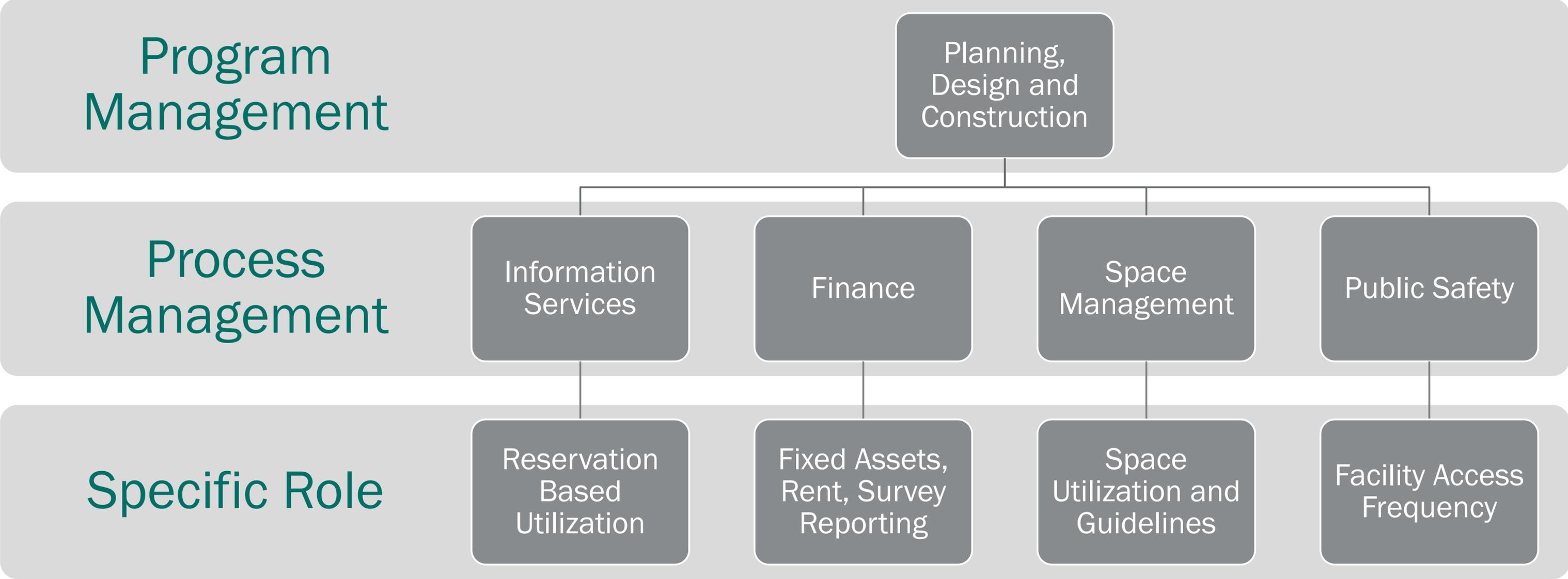
- U.S. DoE Postsecondary Education Facilities
- Fixed Asset Policy
- Office Space Guidelines
- Space Information System Handbook
- Process & Procedures Manual

Why an Effective Space Management System is Critical

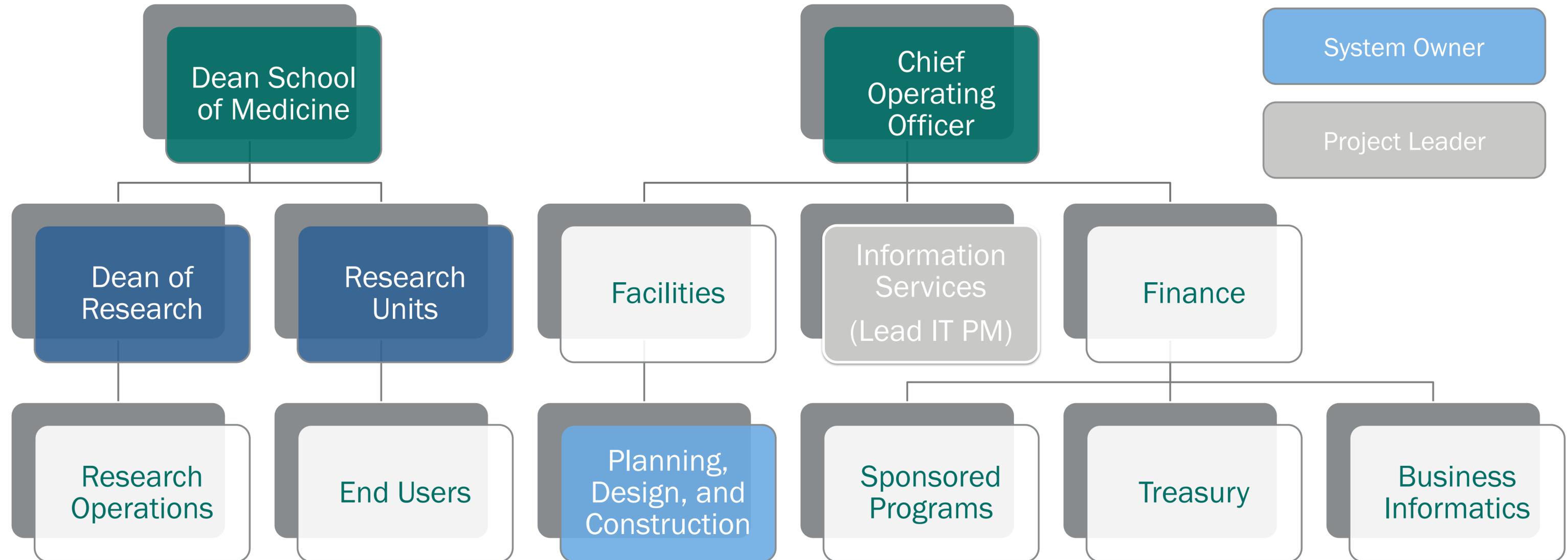
- Respond to Data Queries
- Augment audits or submissions leaving MCW
- Keep master architectural digital files vs. hard copy as-builts
- Central transparent repository of who has been allocated space and where
- Day to day planning and management
- **Using data to make informed decisions**



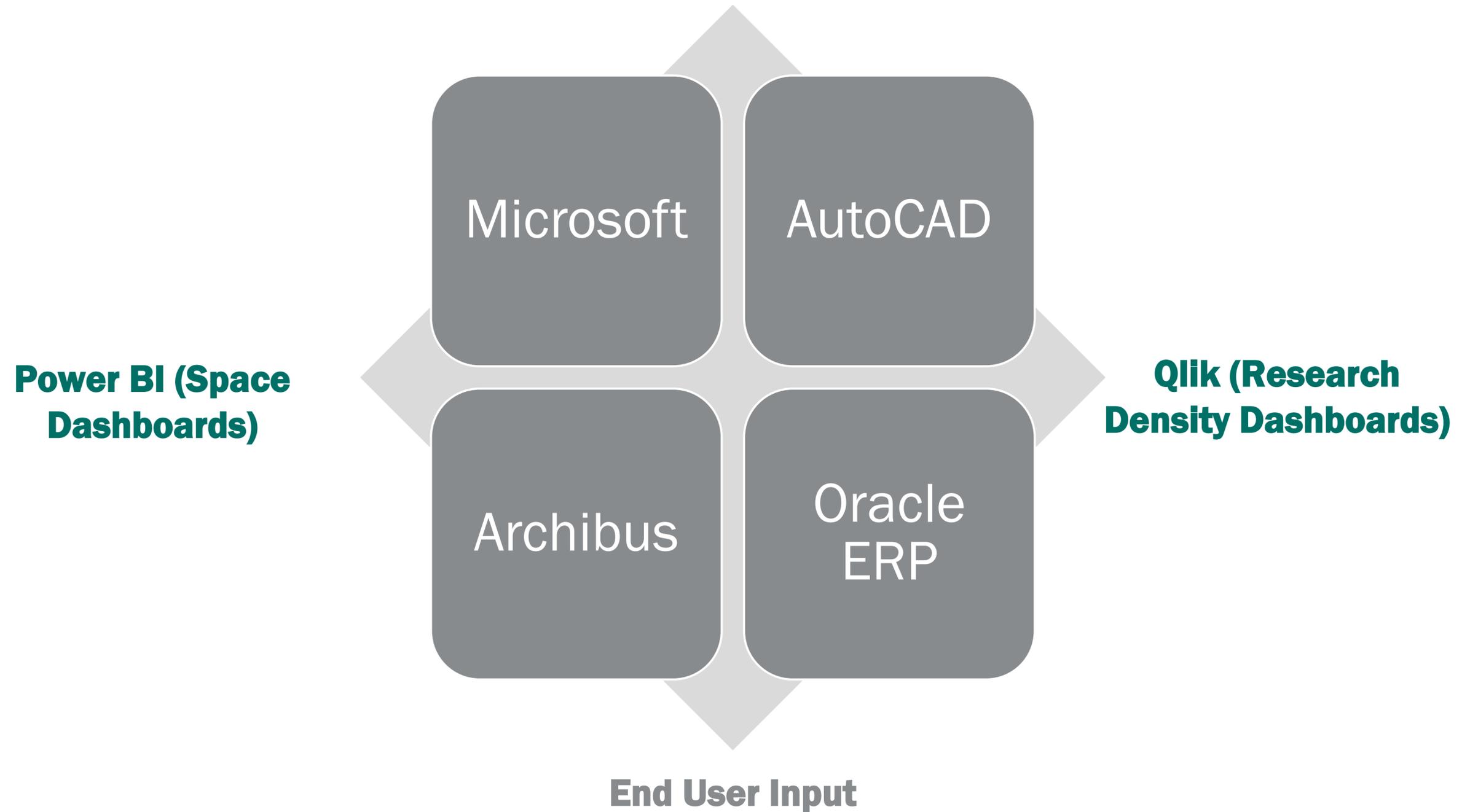
SPACE MANAGEMENT RESOURCES



RESEARCH SPACE PERSEPECTIVE

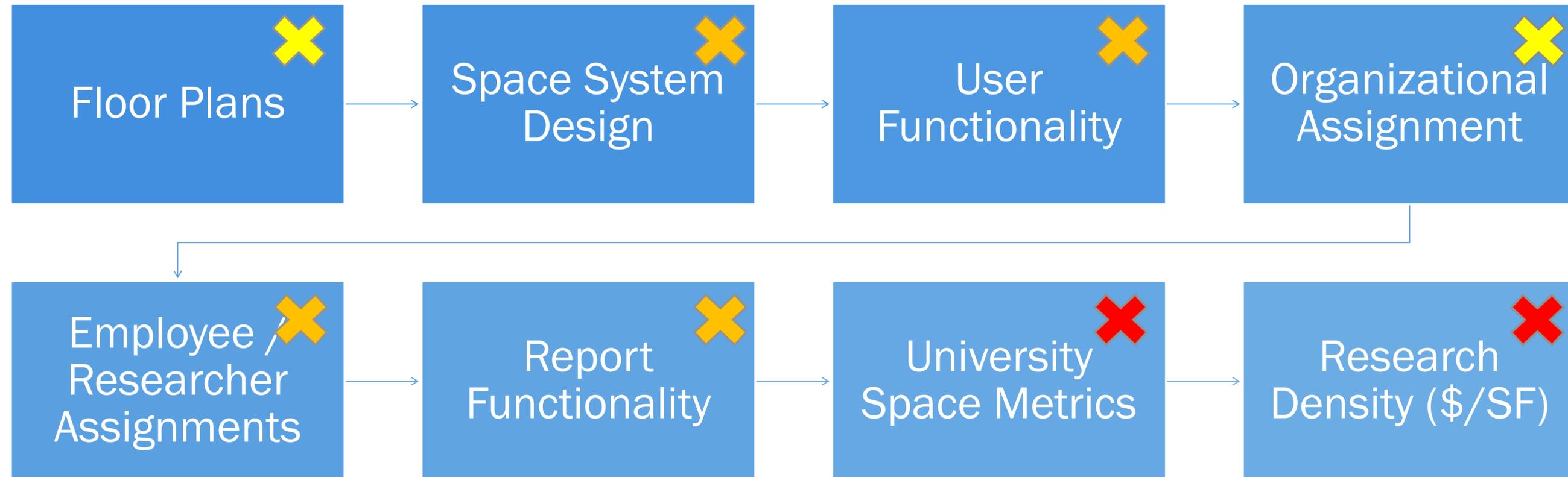


SYSTEMS INVOLVED

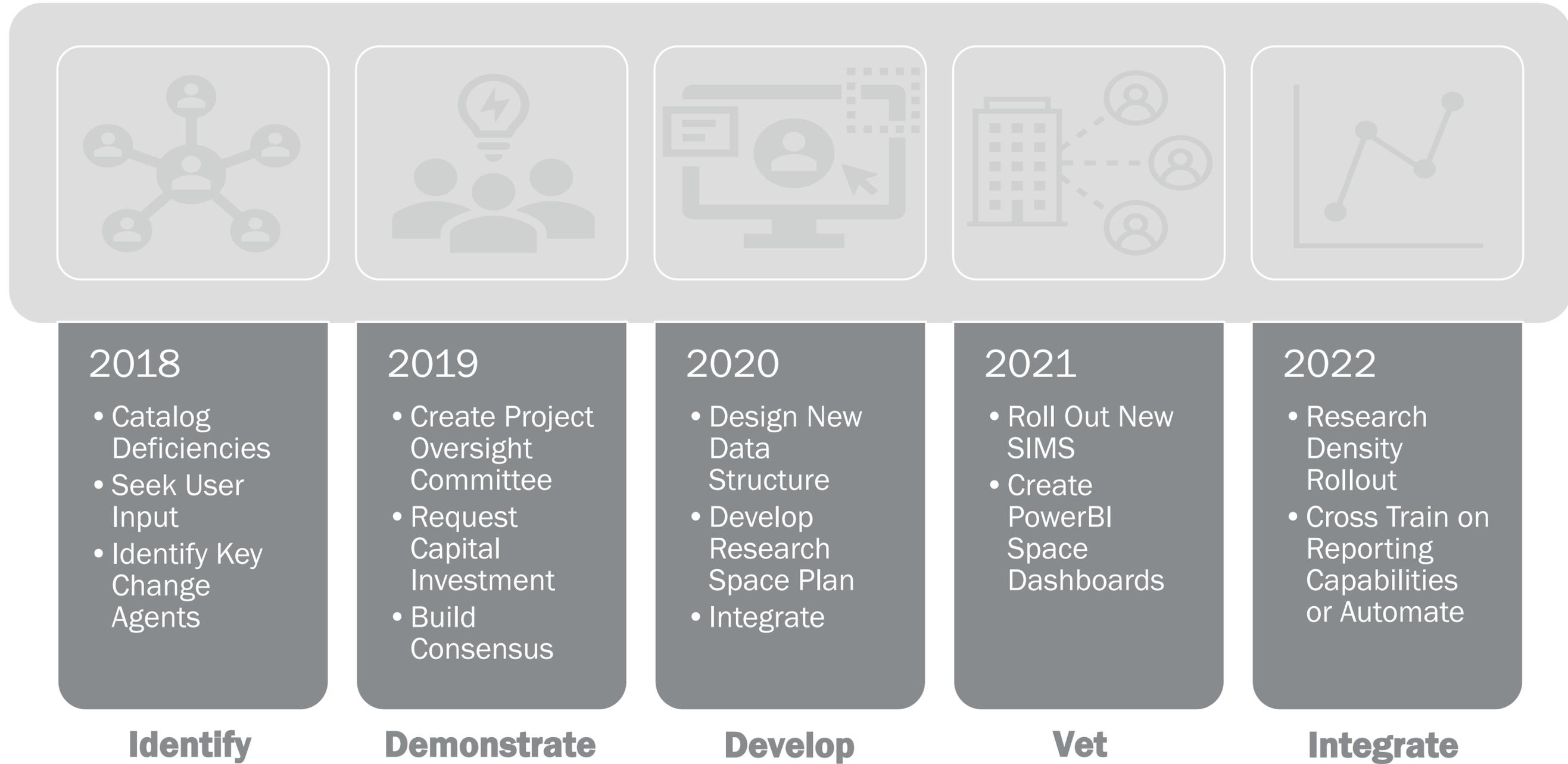


FIXING THE DENOMINATOR

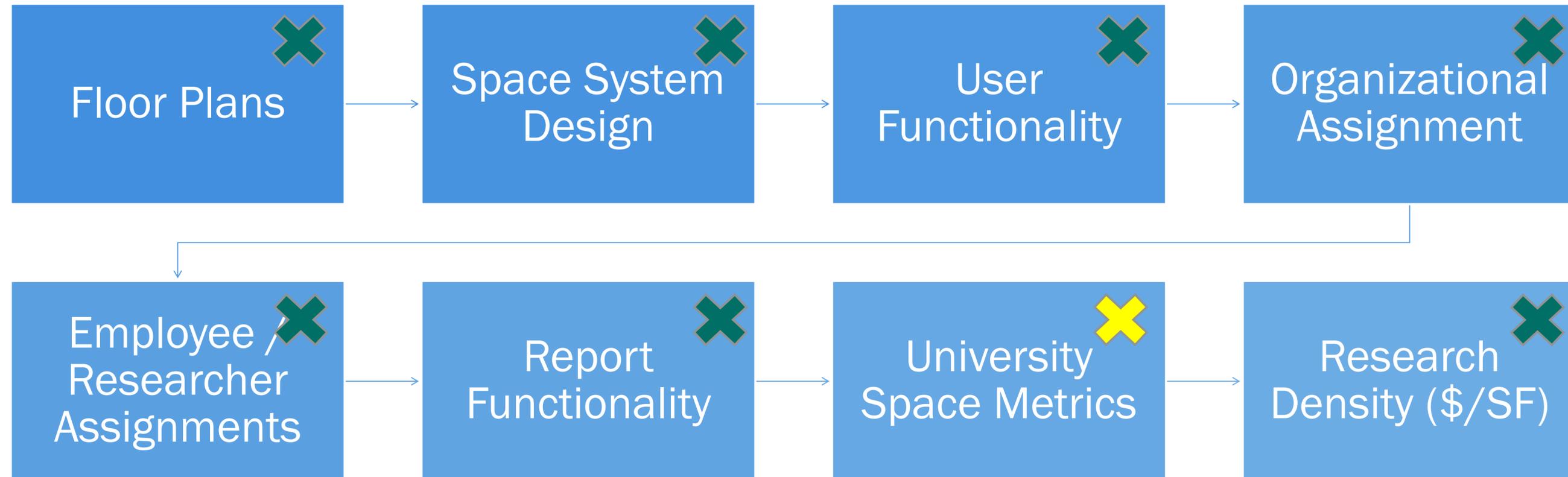
PATHWAY TO SUCCESS - 2018



PROGRAM PLAN



PATHWAY TO SUCCESS - 2022



STANDARD QUERY

ARCHIBUS Home

Queries and Reports

- Room Query
- Occupiable Space
- Employee
- Locate Employee
- Contact List

Room Query

Filter

Building Code

Floor Code

Room Number

Controlling Department

Occupying Department

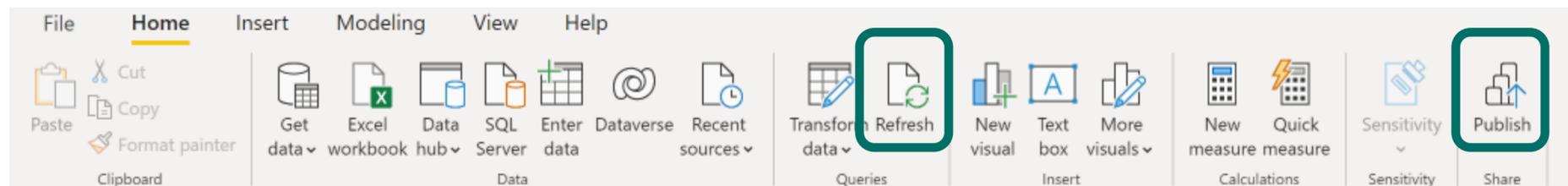
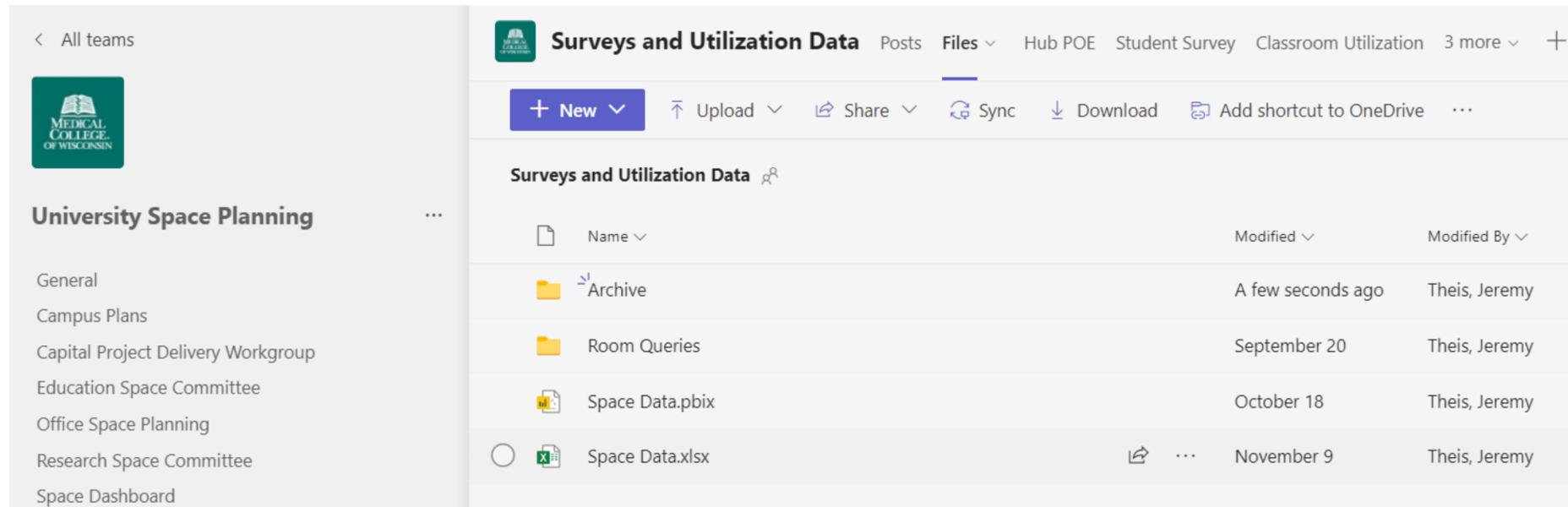
Controlling Division

Occupying Division

Room Details

Building Code	Building Name	Floor Code	Room Number	Room Name	Controlling Department	Controlling Dept Name	Controlling Division	Controlling Div Name	Occupying Department	Occupying Dept Name	Occupying Division
BSB	Basic Science Building	00	171		000100	Institutional	000100	Institutional	000100	Institutional	000100
BSB	Basic Science Building	00	174		000100	Institutional	000100	Institutional	000100	Institutional	000100
BSB	Basic Science Building	00	B76		000100	Institutional	000100	Institutional	000100	Institutional	000100
BSB	Basic Science Building	00	B77		000100	Institutional	000100	Institutional	000100	Institutional	000100
BSB	Basic Science Building	00	ELEV 06		000100	Institutional	000100	Institutional	000100	Institutional	000100
BSB	Basic Science Building	00	ELEV 07		000100	Institutional	000100	Institutional	000100	Institutional	000100
BSB	Basic Science Building	00	ELEV 08		000100	Institutional	000100	Institutional	000100	Institutional	000100

UPLOADING SPACE DATA




MEDICAL COLLEGE OF WISCONSIN
PLANNING, DESIGN AND CONSTRUCTION

Medical College of Wisconsin
Space Management Dashboards
November 2022 Space Data
Questions: Contact Jeremy Theis at jtheis@mcw.edu

- Paste in Room Query to Teams File
- Hit Refresh on PowerBI
- Publish PowerBI to Teams SharePoint Site
- Takes a total of 3 min to upload to Dashboard vs. integration that would need consistent maintenance and cost

REPORTING

POWERBI START PAGE

- Needs to be useful to all types of scenarios
- Slicers function around
 - Organizations and Groups of Orgs
 - Campus and Building
 - Owned vs. Leased
 - Primary Mission
 - Research Type (Wet/Dry/Admin)
 - Research Assignment
 - PI Assigned, Shared, Core
 - PI Assignment
 - PI Assigned, Reserved, Unassigned, Non-MCW PI Assigned

MEDICAL COLLEGE OF WISCONSIN
PLANNING, DESIGN AND CONSTRUCTION

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Directions:
Use Slicers to update reports to datasets you desire.
Hold Cntrl to select multiple elements.
Default is set to MCW Owned and Leased Space

Allocated Organization Slicer

- Administration
- Administrative Support
- Basic Sciences
- Centers & Institutes
- CSG Organizations
- Finance & Admin
- MCP Organizations
- Other

Assigned Organization Slicer

- (Blank)
- Academic Affairs
- Academic Outreach
- Advancing a Healthier Wisconsin Endo...
- Anesthesiology
- Biochemistry
- Biomedical Engineering
- Biophysics
- Biotechnology and Bioengineering Ce...
- Cancer Center
- Cardiovascular Center
- Cell Biology, Neurobiology and Anato...
- Center for Advancing Population Scien...

Building and Campus Slicer

- Center for Aids Intervention Research
- Children's Hosp Facilities
- Community Clinics
- Curative Care Network
- Froedtert Hospital
- Milwaukee Campus
- Regional Campuses
- Research Park
- Thrive On King
- VA Grounds

Property Manager Slicer

- (Blank)
- CHW Lessee
- CHW Own
- FMLH Lessee
- MCW Lessee (direct)
- MCW Lessee (pool)
- MCW Own
- MCW/CHW Own

Primary Mission Slicer

- Clinical
- Community Engagement
- Education
- Institutional
- Research

Research Type Slicer

- Dry Research
- Not Applicable
- Research Administration
- Wet Research

Research Assignment Slicer

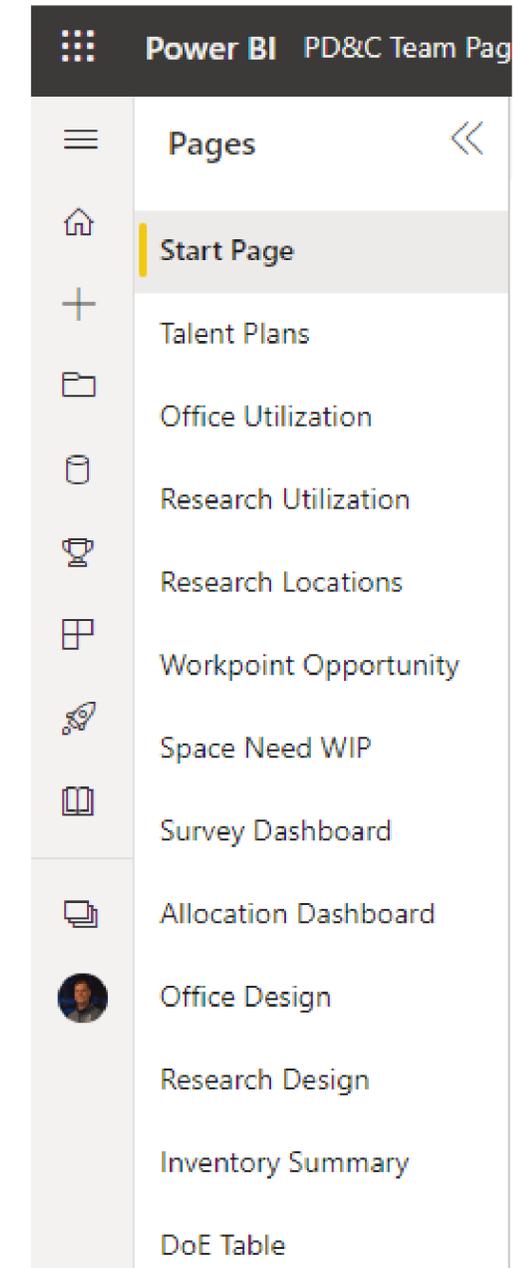
- Not Assignable
- PI Assignable
- Research Core
- Shared

PI Assignment Type Slicer

- MCW PI Assigned
- Non-MCW PI Assigned
- Not Applicable
- Reserved
- Unassigned

POWERBI DASHBOARDS

- Personnel Virtual/Remote Work Plans
- Office Space Utilization
- Research Utilization
- Research Location
- Space Survey Completion Rate
- Office Design Standards
- Research Design Standards
- Inventory Composition
- DoE Table



SPACE DASHBOARD EXAMPLES

- Utilization Rates
- Capacity
- Headcounts
- Sharing Ratio
- Private Office Ratio
- Open Office Ratio
- People Density

Organization Groups

- Administration
- Administrative Support
- Basic Sciences
- Centers & Institutes
- CSG Organizations
- Finance & Admin
- MCP Organizations
- Other

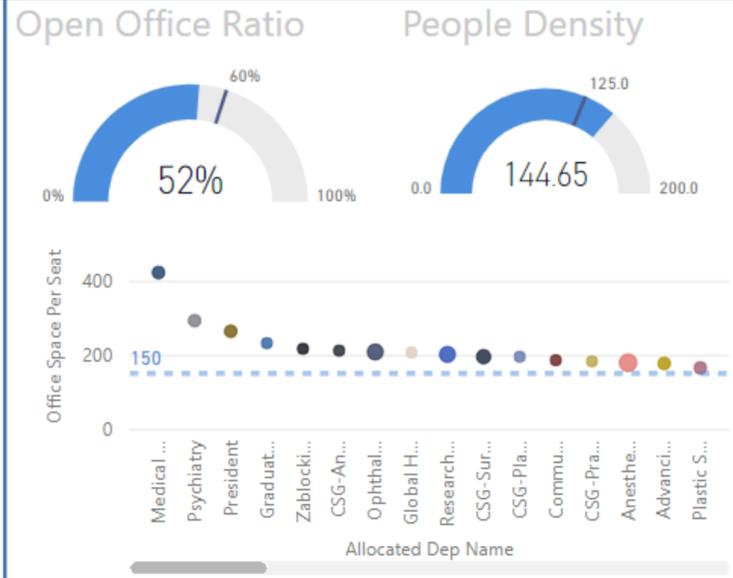
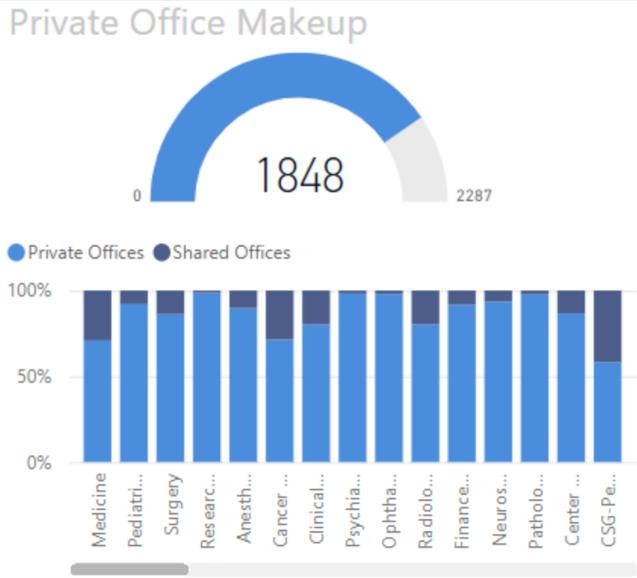
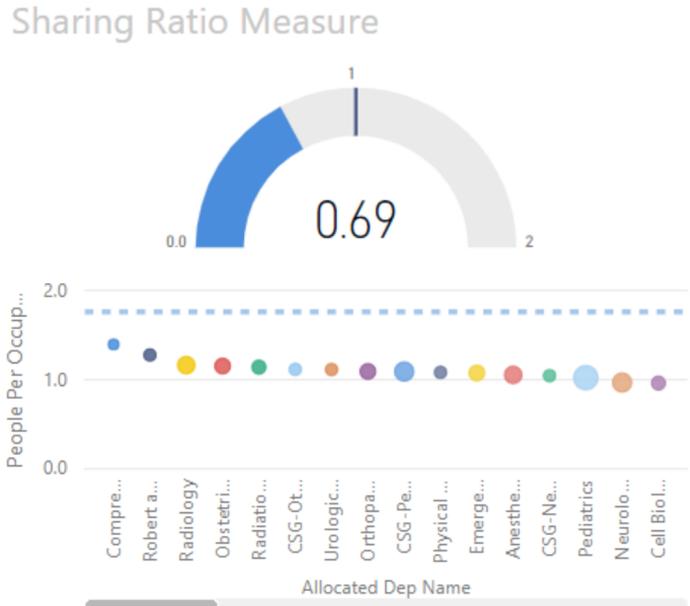
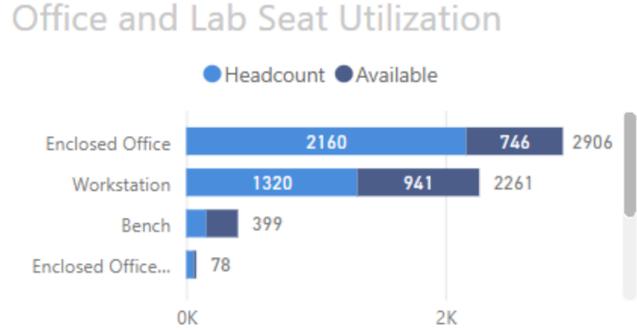
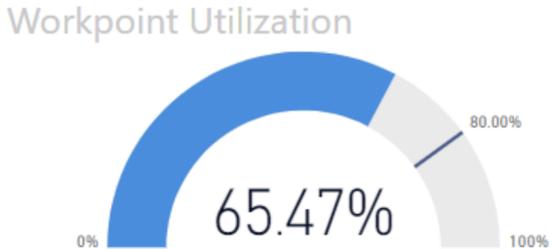
Primary Mission

- Clinical
- Community Eng...
- Education
- Institutional
- Research

Employee Capacity: 0 to 16

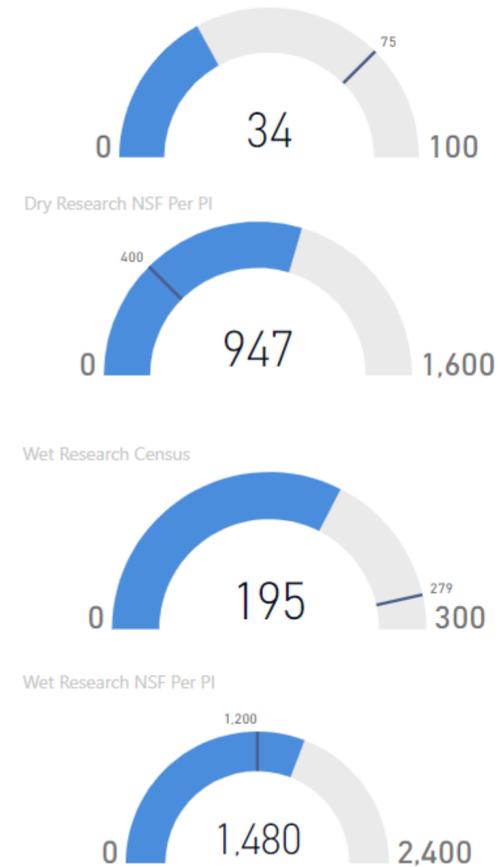
Building Name (groups)	Utilization	Employee Capacity
Center for Aids Intervention Research	0.00%	49
Community Clinics	49.47%	95
Curative Care Network	60.96%	146
Froedtert Hospital	76.75%	744
Milwaukee Campus	74.40%	3172
Regional Campuses	65.71%	35
Total	63.92%	5039

Allocated Dep Name	Utilization	Employee Capacity
Robert and Patricia Kern Institute for the Transfo	118.75%	16
Ophthalmology and Visual Sciences	101.54%	65
Anesthesiology	100.00%	97
CSG-Pediatrics	94.87%	156
Pediatrics	94.78%	268
Comprehensive Injury Center	94.74%	19
Radiology	94.23%	104
Cell Biology, Neurobiology and Anatomy	93.65%	63
Obstetrics and Gynecology	92.31%	78
Advancing a Healthier Wisconsin Endowment	90.00%	20
Total	65.03%	5719



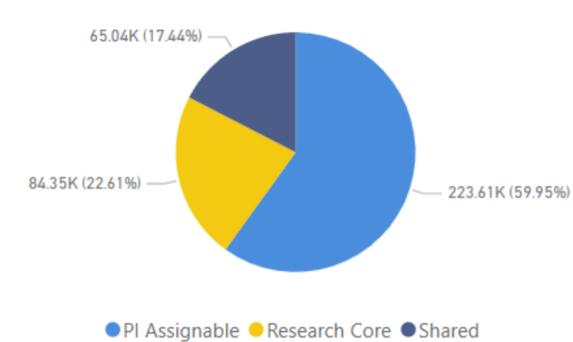
RESEARCH SPACE DASHBOARD

- Dry Research Census
- Dry Research SF Per PI
- Wet Research Census
- Wet Research SF Per PI
- Wet Research Assignment Summary
- Wet Research PI Utilization
- Researcher Locations
- Research Space Per Org

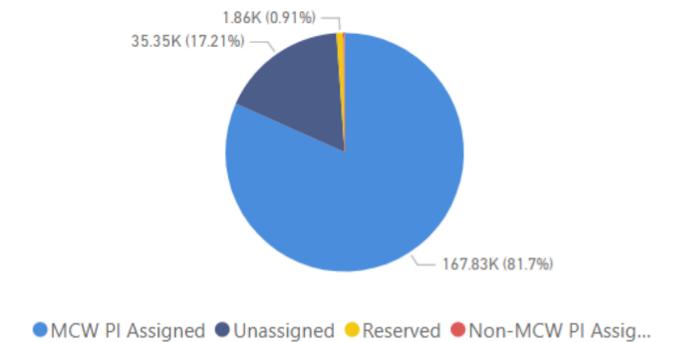


Research Utilization Dashboard

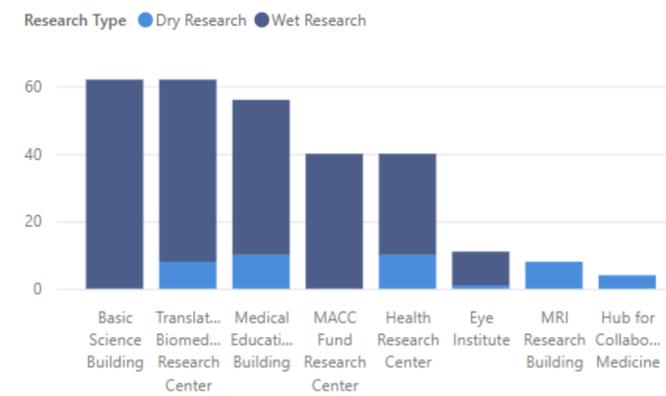
Wet Research Assignment Summary



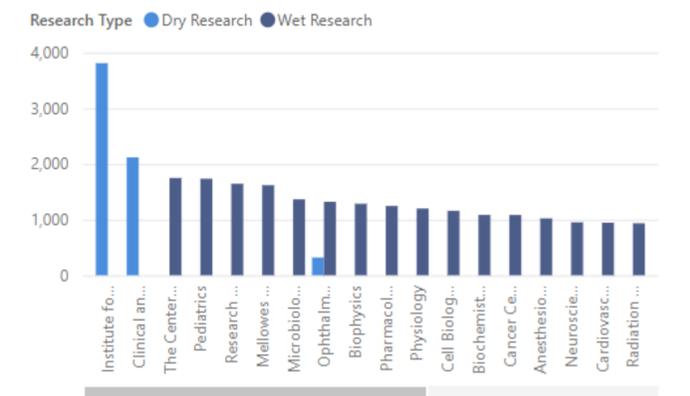
Wet Research PI Utilization



Researcher Locations

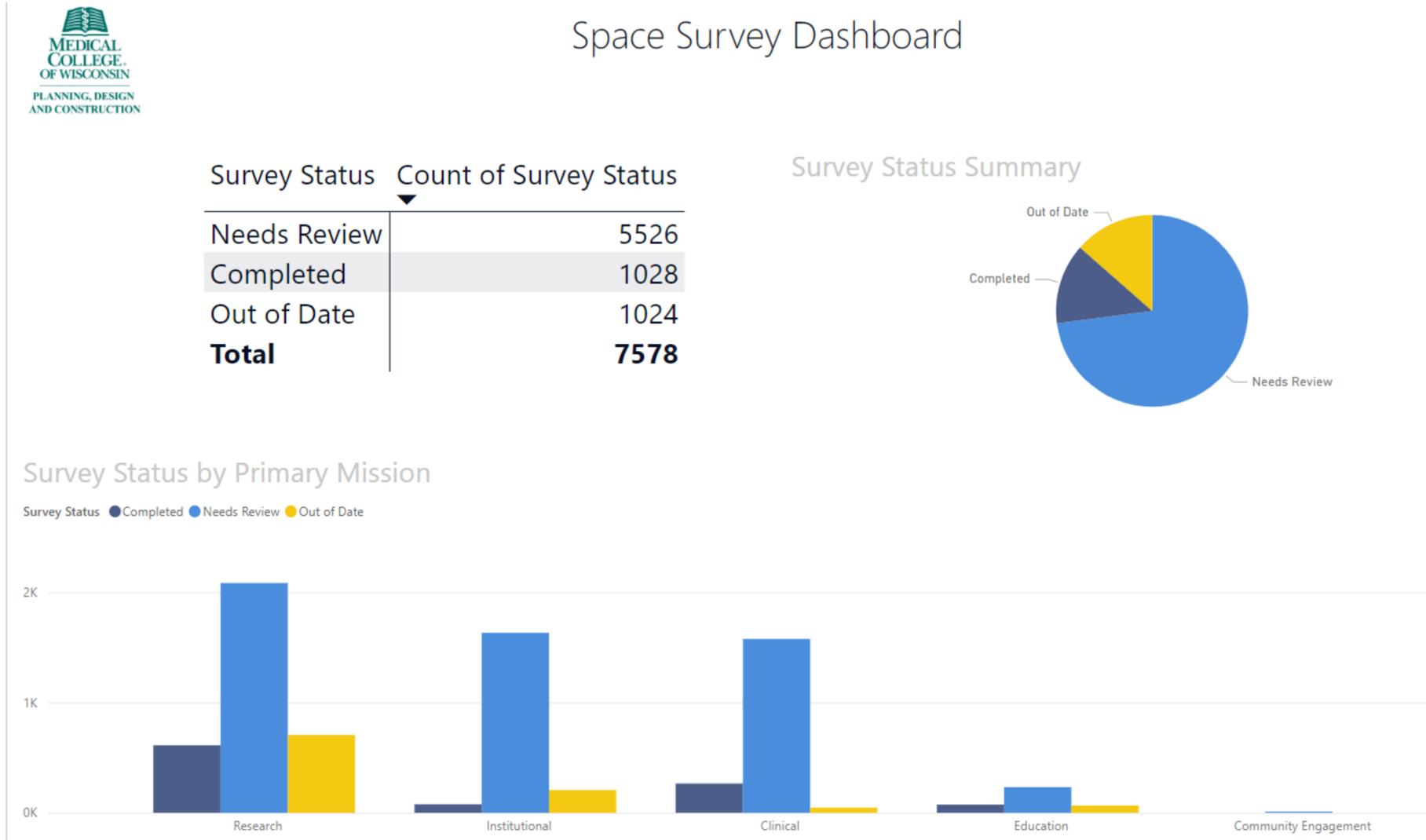


Research Space Per Controlling Organ...



SPACE SURVEY DASHBOARD

- Breakdowns by:
 - Primary Mission
 - Organization
 - Lists of Rooms to Be Surveyed



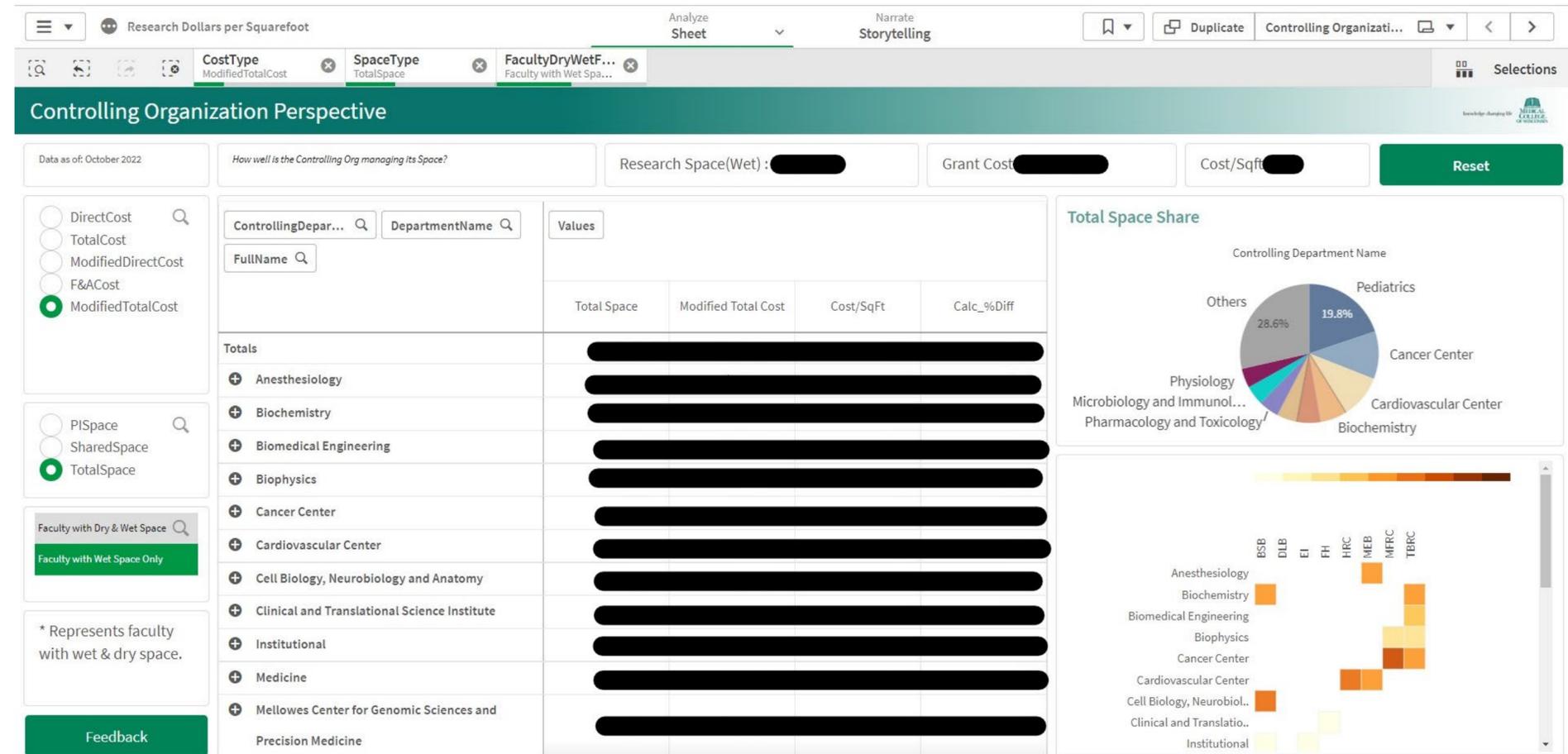
VISUALLY IN SIMS

- Space Types
- Space Use
- Occupiable Space Utilization
- Research Data
- Employee Key Work Info
- Space Survey Completion
- Mass Data Input
- Furniture Plans



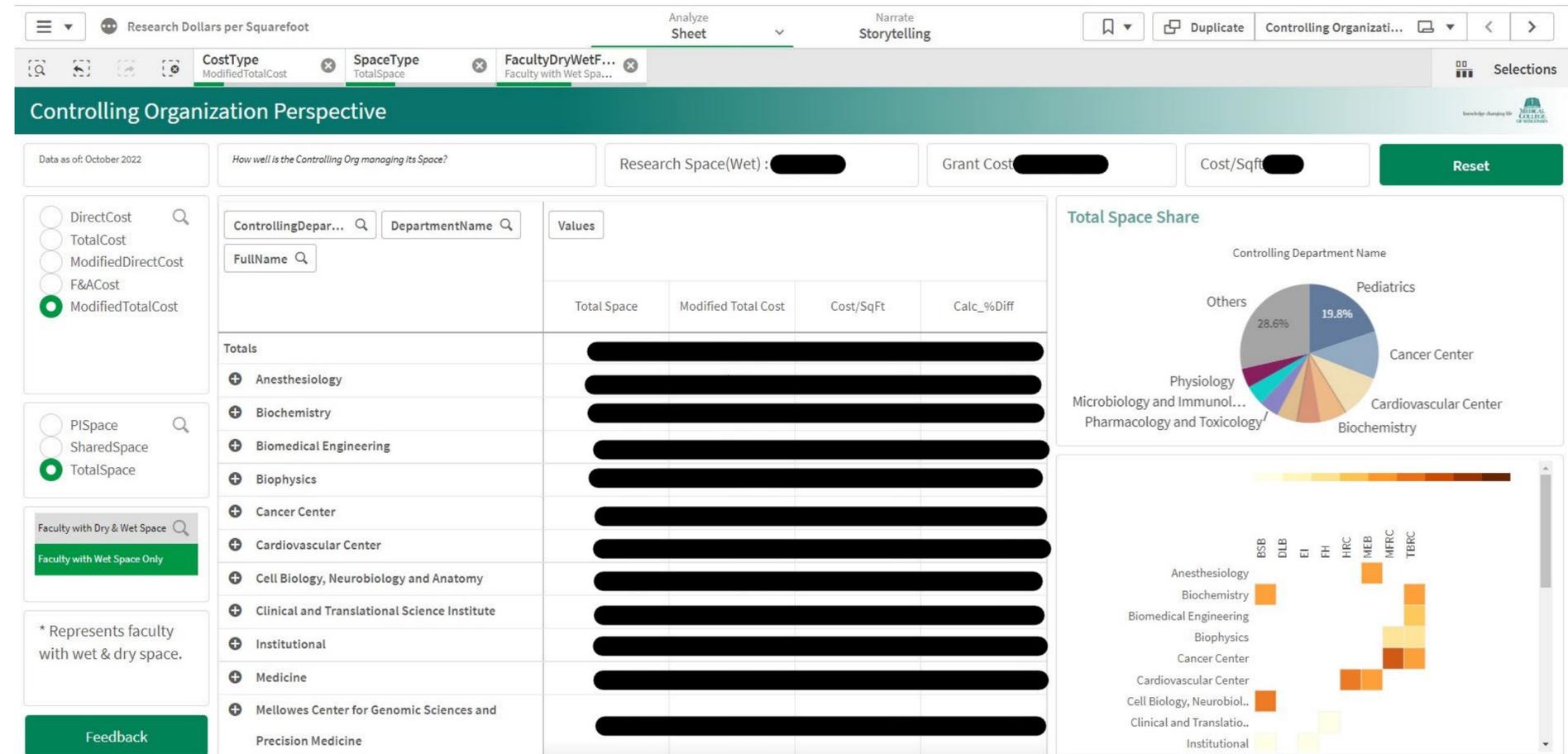
RESEARCH DENSITY DASHBOARD

- The journey is complete.
- Research density for wet/dry information built up from PI/grant level.
- Typically used for organization or institutional reviews, but available to Chairs/Directors for PI data.



RESEARCH DENSITY DASHBOARD

- Cost Options
- Space Options
- Research Type Options
- Build Up from PI Level to Organizations
- Space Distribution by Orgs
- Heat Map for Research Density by Org and Building



RESEARCH DENSITY DASHBOARD

- Cost Options:
 - Direct Cost
 - Total Cost
 - Modified Direct Cost
 - F&A Cost
 - Modified Total Cost
- Space Options
 - PI Space
 - Shared Space
 - Total Space
- Research Type Options
- Dry & Wet
- Dry a Work in Progress

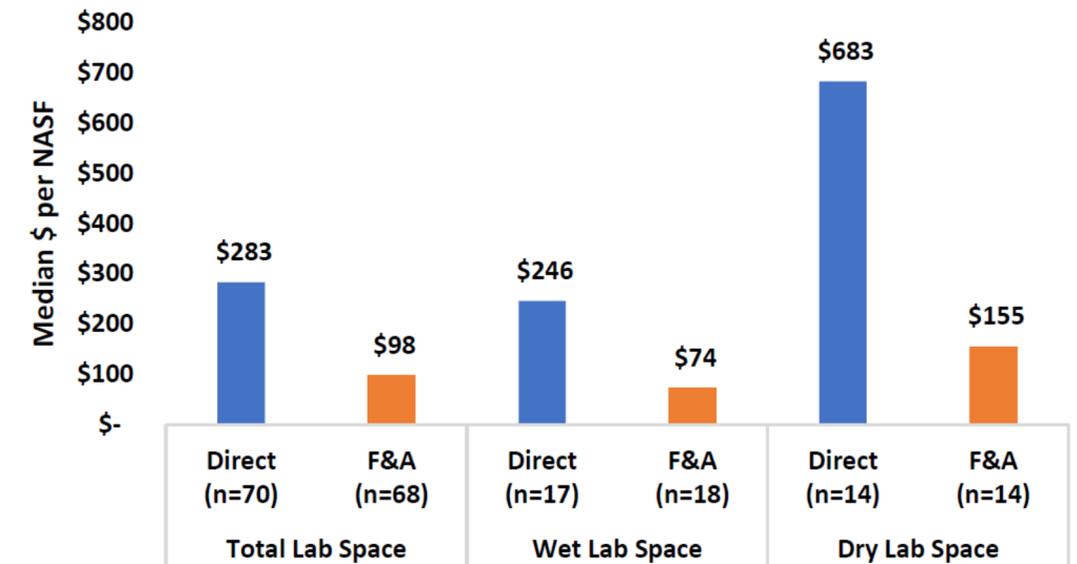
The screenshot displays three filter panels on the right side of the dashboard. Each panel has a search icon in the top right corner.

- Cost Options Panel:** Contains five radio button options: DirectCost, TotalCost, ModifiedDirectCost, F&ACost, and ModifiedTotalCost. The ModifiedTotalCost option is selected, indicated by a green dot.
- Space Options Panel:** Contains three radio button options: PISpace, SharedSpace, and TotalSpace. The TotalSpace option is selected, indicated by a green dot.
- Research Type Options Panel:** Contains two options: Faculty with Dry & Wet Space and Faculty with Wet Space Only. The Faculty with Wet Space Only option is selected, indicated by a green background.

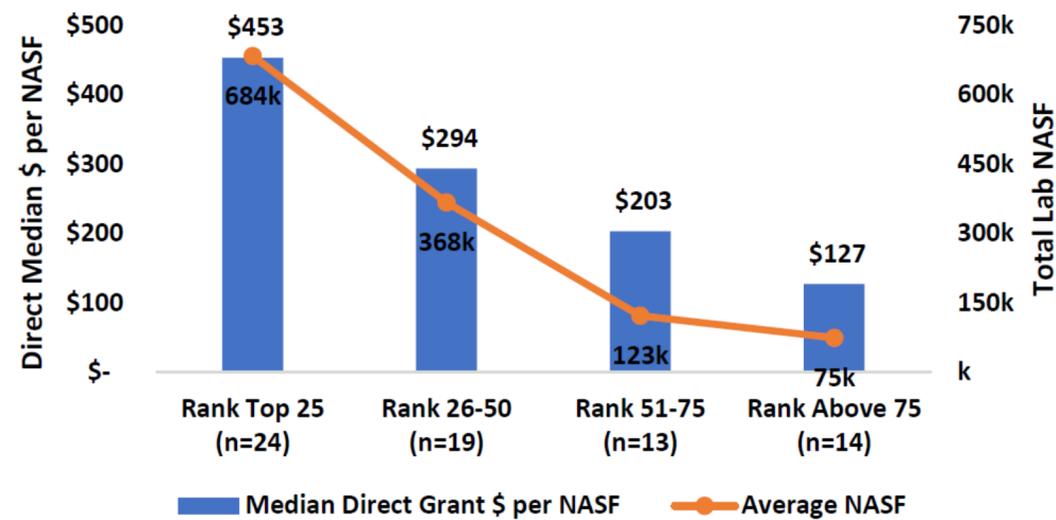
COMPARATIVE TOOLS FROM AAMC

- AAMC Data Snapshot Comparisons for Faculty and Staff Awareness
- Easily plot our journey towards a more mature organization

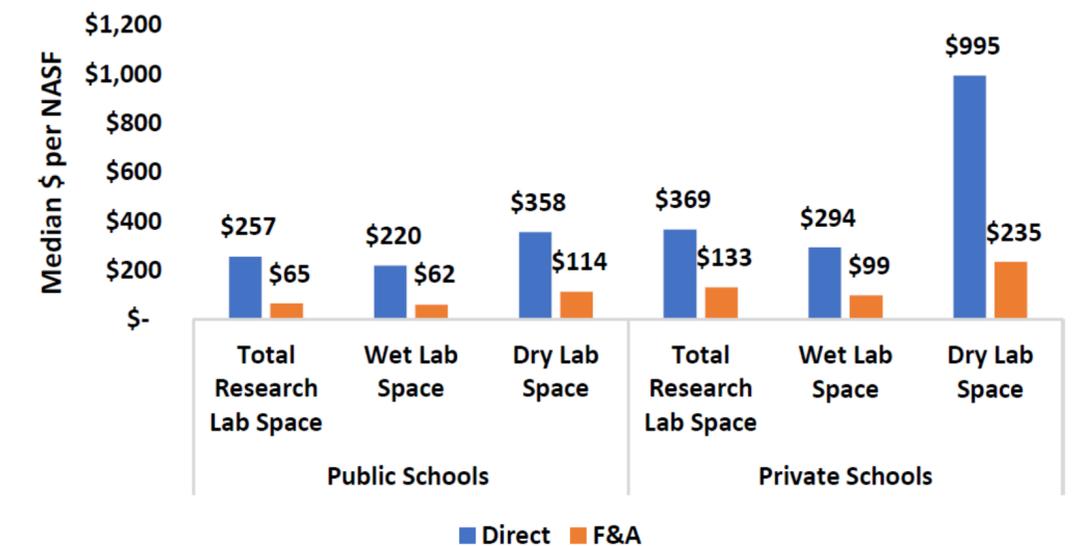
Research Lab Expenditures per NASF



Direct Expenditures per NASF by Research Ranking



Research Lab Expenditures per NASF by Ownership



Thank you!

