



**MAKING MORE INFORMED SPACE DECISIONS
FROM YOUR EXISTING REPORTS & DATA** #AItraining



Bruce Denis | Northwest Community College | BDenis@nwcc.bc.ca


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IMPRESSIONS**

 **LEARNING OUTCOME**


After participating...


...you will be able to better utilize your space metrics to guide planning and decision making on campus.

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 AGENDA

- Using specific data and reports to effect change on campus
- Leveraging change using essential tools
- Real-world examples

 3

 POLL

As higher education administrators, what benefit do you see personally from effective space management?

 4

#Altraining

USING SPECIFIC DATA AND REPORTS TO EFFECT CHANGE ON CAMPUS

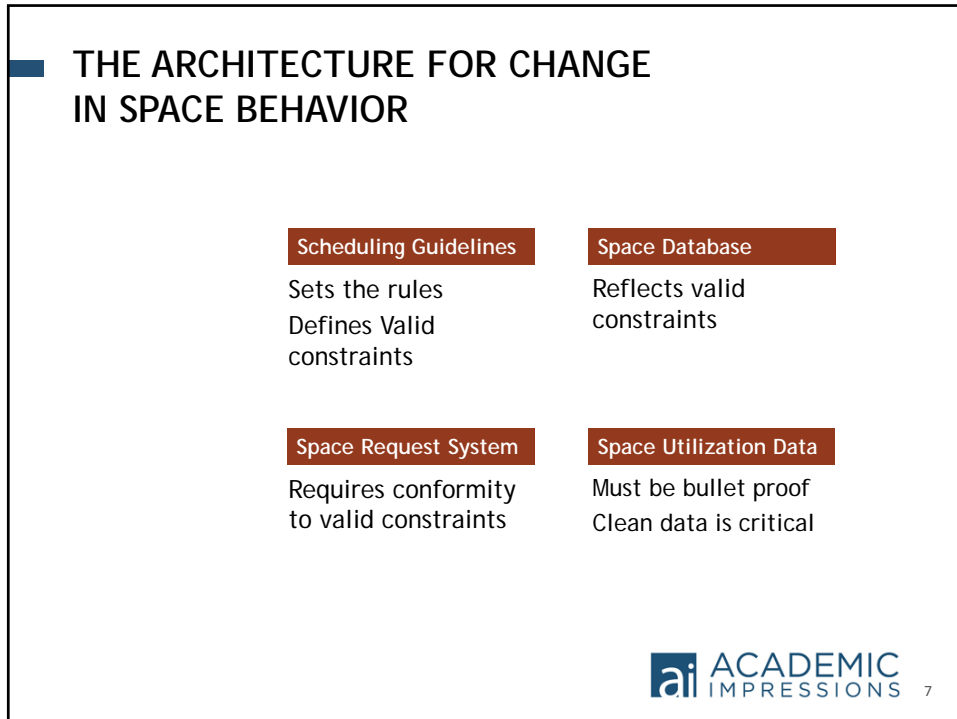


The change you
resist today will be
the norm you defend
in 5 years.

The secret of change is to
focus all of your energy, not
on fighting the old, but on
building the new.

Socrates



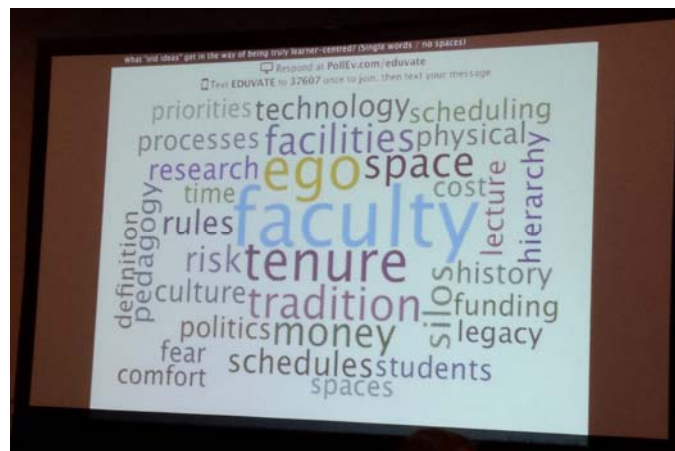


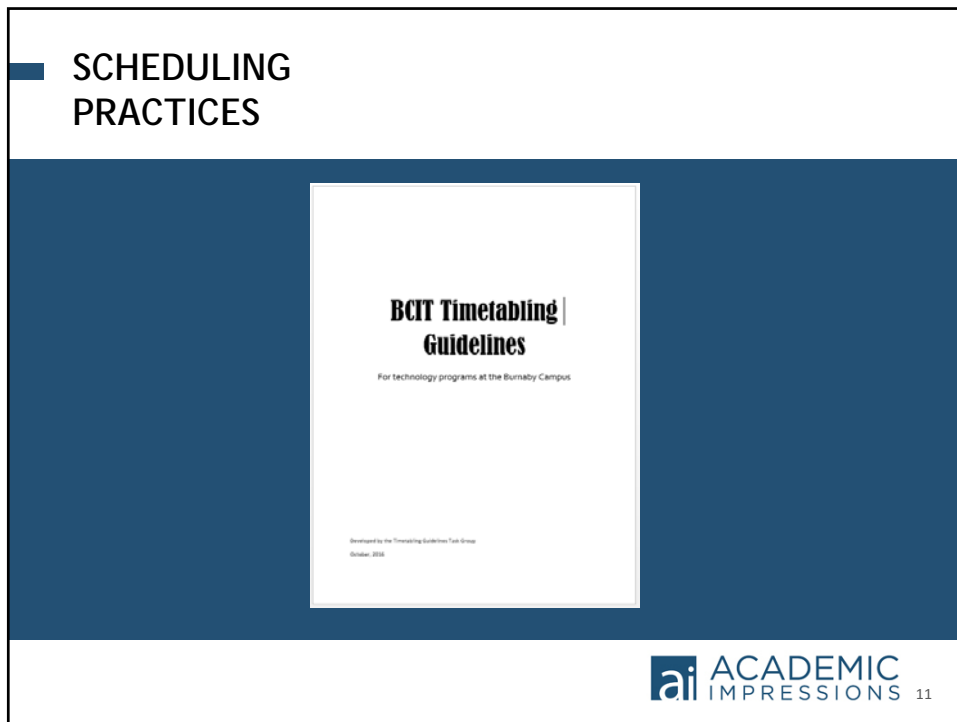
KEY STAKEHOLDERS

- Leadership
- Provost/VP Academic
- Scheduling Staff (RO)
- Facilities
- Campus Planning
- IT
- Audio Visual
- Faculty
- Students
- Space Planners/Managers
- Learning and Teaching Centre

KEY STAKEHOLDERS

What 'old ideas' get in the way of being truly learner-centered?





SCHEDULING PRACTICES

- Guiding Principles
- Quality Indicators for student timetables
- Responsibilities and accountabilities
- Stakeholder expectations
- **Timetabling and space constraints**
- Prioritizing scheduled activity
- Schedule development process

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■ SCHEDULING PRACTICES

- **Binding Constraints**
 - Collective Agreements
 - Student Timetable Quality Indicators
- **Basic Constraints**
 - Day, time, location, special needs
- **Room attribute constraints**
 - Capacity, room type, technology, furniture
- **Program level constraints**
 - Home-basing, double-booking, field work, course sequencing
- **Course level constraints**
 - Prep time, learning objects, faculty availability

13





TAKEAWAYS

- Timetabling Guidelines should be user created.
- This document should clearly articulate what is acceptable scheduling practice and what is not.
- Middle-management (Deans/Associate Deans) should be the enforcers, not the scheduling department.

OPTIMIZING & LEVERAGING YOUR CURRENT DATABASE

FIS Database										Archibus										New Space Database										Cherwell									
Building	Room	Room Name	Room Type	Room Category	Room Subcategory	Room Description	Room Availability	Room Status	Room Notes	Room Capacity	Room Area	Room Volume	Room Height	Room Length	Room Width	Room Depth	Room Orientation	Room Color	Room Material	Room Finish	Room Furniture	Room Equipment	Room Technology	Room Media	Room Lighting	Room Heating	Room Cooling	Room Ventilation	Room Acoustics	Room Security	Room Access	Room Maintenance	Room Cleaning	Room Repairs	Room Renovation	Room Replacement	Room Relocation	Room Reconfiguration	
100	1000	CORRIDOR	0	NE25	1000																																		
100	1001	VESTIBULE	0	NE25	1001																																		
100	1002	EMERGENCY RESEARCH	0	NE25	1002																																		
100	1003	LAB-ELEC-C	0	NE25	1003																																		
100	1004	RESEARCH	0	NE25	1004																																		
100	1005	OFFICE-GEN	0	NE25	1005																																		
100	1006	OFFICE	0	NE25	1006																																		
100	1007	WASH-PPH-RH	0	NE25	1007																																		
100	1008	JANITOR	0	NE25	1008																																		
100	1009	MECH	0	NE25	1009																																		
100	1010	ELEV-MACH	0	NE25	1010																																		
100	1011	SHUTT	0	NE25	1011																																		
100	1012	CLASS	40	NE25	1012																																		
100	1013	LAB-ELEC-S	36	NE25	1013																																		
100	1014	CLASS	16	NE25	1014																																		
100	1015	CLASSROOM	16	NE25	1015																																		
100	1016	CLASSROOM	14	NE25	1016																																		
100	1017	CLASSROOM	32	NE25	1017																																		
100	1018	CORRIDOR	0	NE25	1018																																		
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100	1020	LAB-ELEC-C	36	NE25	1020																																		
100	1021	VESTIBULE	0	NE25	1021																																		
100	1022	LAB-ELEC-C	16	NE25	1022																																		
100	1023	OFFICE-GEN	0	NE25	1023																																		
100	1024	VESTIBULE	0	NE25	1024																																		
100	1025	LAB-ELEC-C	16	NE25	1025																																		
100	1026	OFFICE-GEN	0	NE25	1026																																		
100	1027	STOR-GEN	0	NE25	1027																																		
100	1028	OFFICE	0	NE25	1028																																		
100	1029	LAB-ELEC-C	36	NE25	1029																																		
100	1030	WASH-PPH-RH	0	NE25	1030																																		
100	1031	JANITOR	0	NE25	1031																																		
100	1032	MECH	0	NE25	1032																																		

OPTIMIZING & LEVERAGING YOUR CURRENT DATABASE

SPACE DATA FIELD INVENTORY

Location	Identity	Attributes	Technology
Campus	Primary Suitability	Capacity	Instructor Workstation
Building	Secondary Suitability	Table Type	Bookable Capacity
Floor	Steward	Scheduled hours	Display type
Room	Scheduling responsibility	Access Type	Presentation device
	Scheduling Priority		Document camera
			Sound
			Videoconference

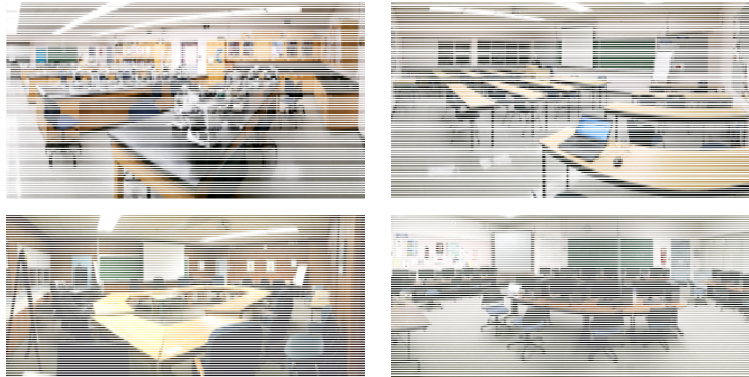
OPTIMIZING & LEVERAGING YOUR CURRENT DATABASE

DATA INTEGRATION

- Who manages data that is useful for space management?
- Who uses space data?
- Who needs space data reports?

OPTIMIZING & LEVERAGING YOUR CURRENT DATABASE

SPACE PHOTOS



TAKEAWAYS

- Space Data fields should relate directly to valid scheduling constraints.
- Have the right people manage the right data at the right time.
- Make the data and photos available to everyone



QUESTIONS

ROOM UTILIZATION-ROOM TYPE

DAY	BEGIN_TIME	END_TIME	BLDG	ROOM	COURSE	ROOM HOURS	ROOM UTE
Mon	1030	1120	SE12	310	MKTG 4431	1	
Mon	1130	1320	SE12	310	MKTG 4380	2	
Mon	1530	1720	SE12	310	COMM 4488	2	
Tue	930	1020	SE12	310	MATH 2491	1	
Tue	1030	1120	SE12	310	COMP 2526	1	
Tue	1130	1220	SE12	310	COMP 2526	1	
Tue	1230	1320	SE12	310	MKTG 4431	1	
Tue	1430	1720	SE12	310	ELEX 4405	3	
Wed	930	1120	SE12	310	BSYS 2060	2	
Wed	1230	1420	SE12	310	MATH 3782	2	
Thu	930	1020	SE12	310	MATH 4442	1	
Thu	1030	1220	SE12	310	COMP 3975	2	
Thu	1630	1720	SE12	310	COMP 1510	1	
Fri	1130	1220	SE12	310	NURS 1181	1	
Fri	1230	1320	SE12	310	MATH 4442	1	
Fri	1330	1520	SE12	310	BSYS 2060	2	
						24	53%

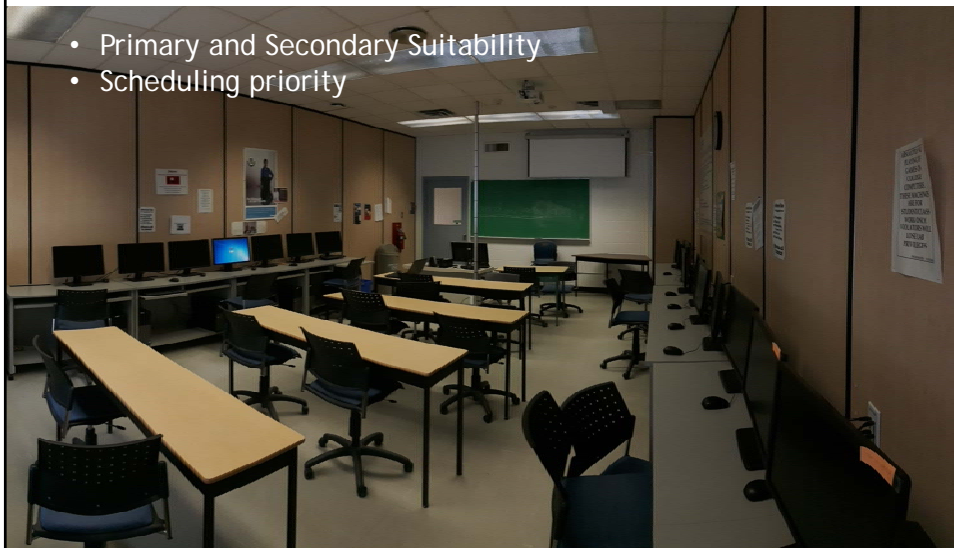
BASED ON A
45
HOUR WEEK

SEAT UTILIZATION-ROOM TYPE

DAY	BEGIN_TIME	END_TIME	BLDGROOM	COURSE	ACT	CAPACITY	SEAT UTE
Mon	1030	1120	SE12 310	MKTG 4431	20	30	67%
Mon	1130	1320	SE12 310	MKTG 4380	26	30	87%
Mon	1530	1720	SE12 310	COMM 4488	18	30	60%
Tue	930	1020	SE12 310	MATH 2491	16	30	53%
Tue	1030	1120	SE12 310	COMP 2526	22	30	73%
Tue	1130	1220	SE12 310	COMP 2526	24	30	80%
Tue	1230	1320	SE12 310	MKTG 4431	26	30	87%
Tue	1430	1720	SE12 310	ELEX 4405	16	30	87%
Wed	930	1120	SE12 310	BSYS 2060	25	30	83%
Wed	1230	1420	SE12 310	MATH 3782	22	30	73%
Thu	930	1020	SE12 310	MATH 4442	22	30	73%
Thu	1030	1220	SE12 310	COMP 3975	23	30	77%
Thu	1630	1720	SE12 310	COMP 1510	25	30	83%
Fri	1130	1220	SE12 310	NURS 1181	13	30	43%
Fri	1230	1320	SE12 310	MATH 4442	22	30	73%
Fri	1330	1520	SE12 310	BSYS 2060	24	30	80%
						30	74%

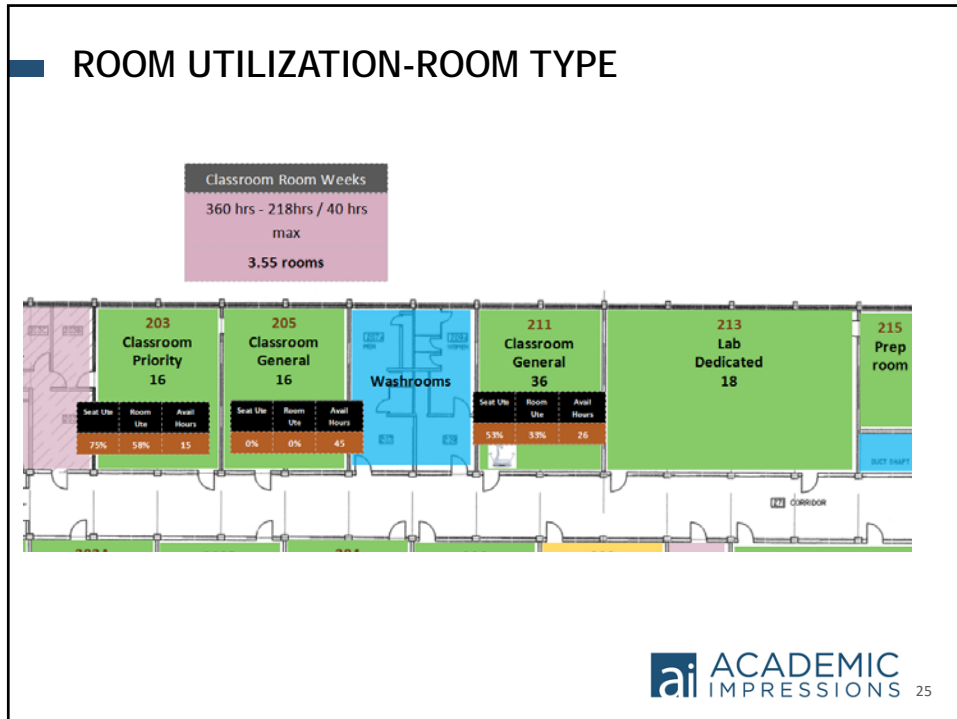
23

ROOM UTILIZATION-ROOM TYPE



- Primary and Secondary Suitability
- Scheduling priority

24



ROOM WEEKS

Lab	Capacity	Average Actual Enrolment	Seat Utilization	Room Utilization	Unused Room hours Fall 14	Unused Room hours Winter A	Unused Room Hours Winter B	Total Unused Room Hours
SE12 310	30	21.14	70%	64%	8	15	19	42
SE12 318	26	19.09	73%	63%	12	11	19	42
SE12 321	28	21.94	78%	73%	13	7	8	28
SE12 322	28	21.95	78%	73%	7	13	7	27
SE12 325	27	21.11	78%	76%	4	7	12	23
SE06 102	29	20.92	72%	73%	7	9	12	28
SE06 103	29	23.55	81%	78%	6	7	8	21
SE06 104	29	21.94	76%	78%	9	4	8	21
SE06 105	29	21.7	75%	69%	9	14	9	32
SE06 106	29	22.07	76%	75%	10	4	10	24
SE06 107	29	21.18	73%	69%	8	9	16	33
SW03 2695	30	19.17	64%	62%	15	9	18	42
SW03 3655	30	17.31	58%	54%	12	19	22	53
Total Room Hours unused					120	128	168	416
Total Room Weeks					2.7	2.8	2.7	9.2
Room weeks at 85%					2.3	2.4	3.2	7.9

27

CLASSROOM USE & TECHNOLOGY CONDITION

- Technology and furniture standardization
- Learning objects



CAMPUS MASTER PLANNING

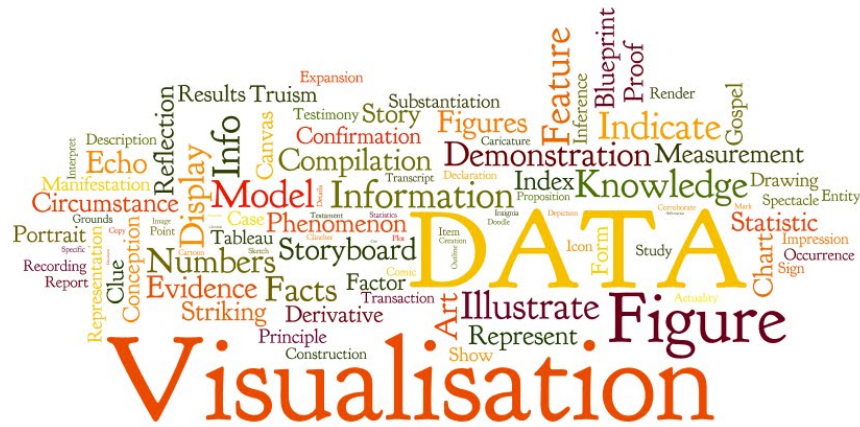


CAMPUS MASTER PLANNING

Room Steward and Room Occupant data fields



ORGANIZING DATA FOR DECISION MAKING



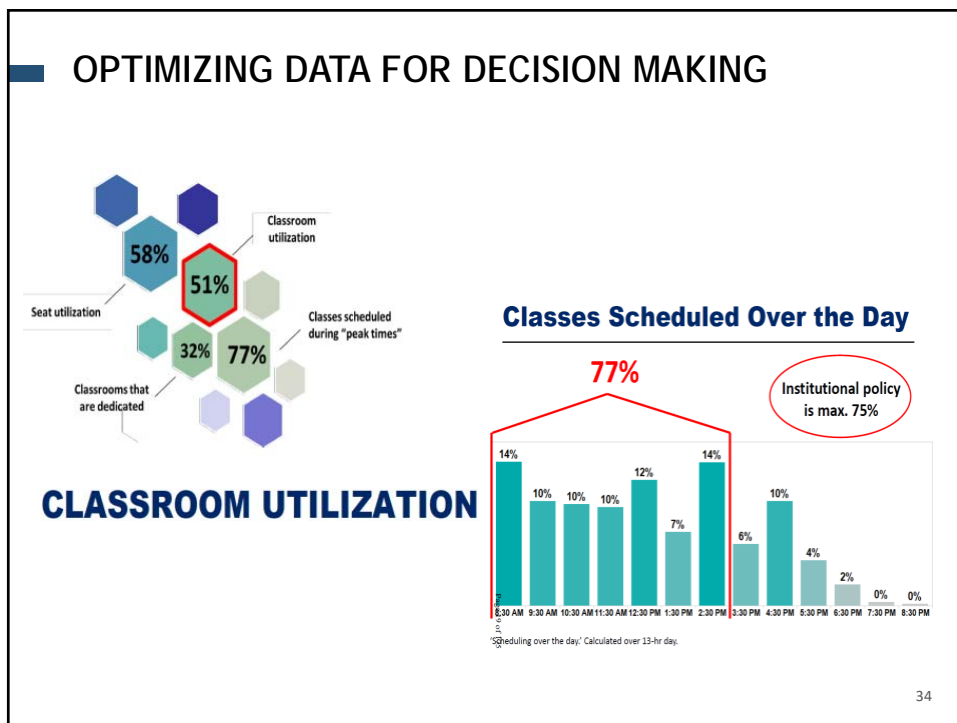
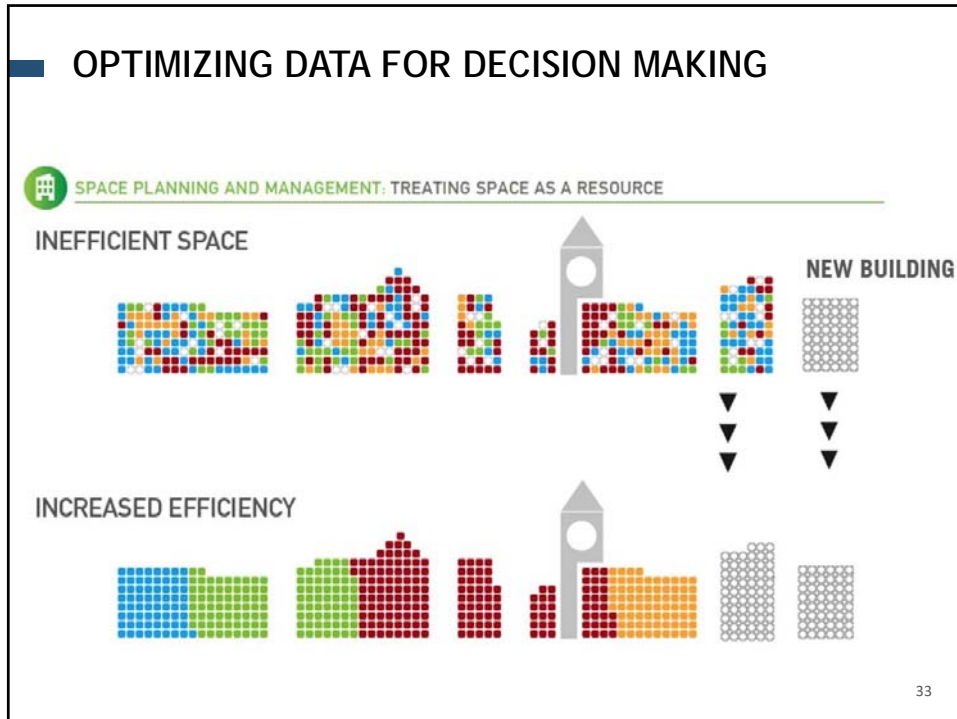
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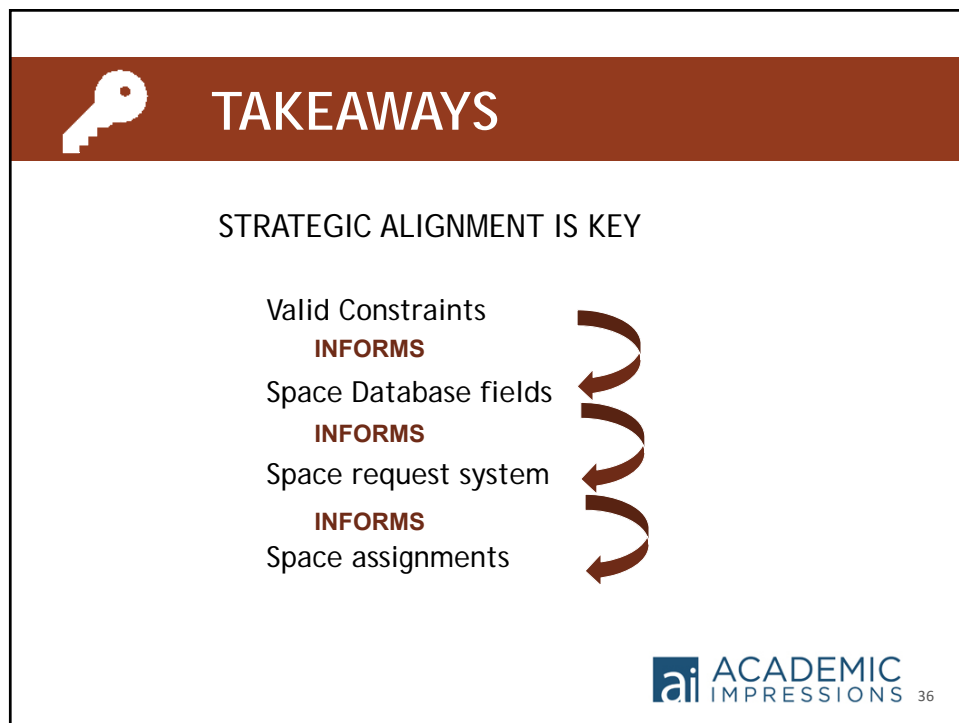
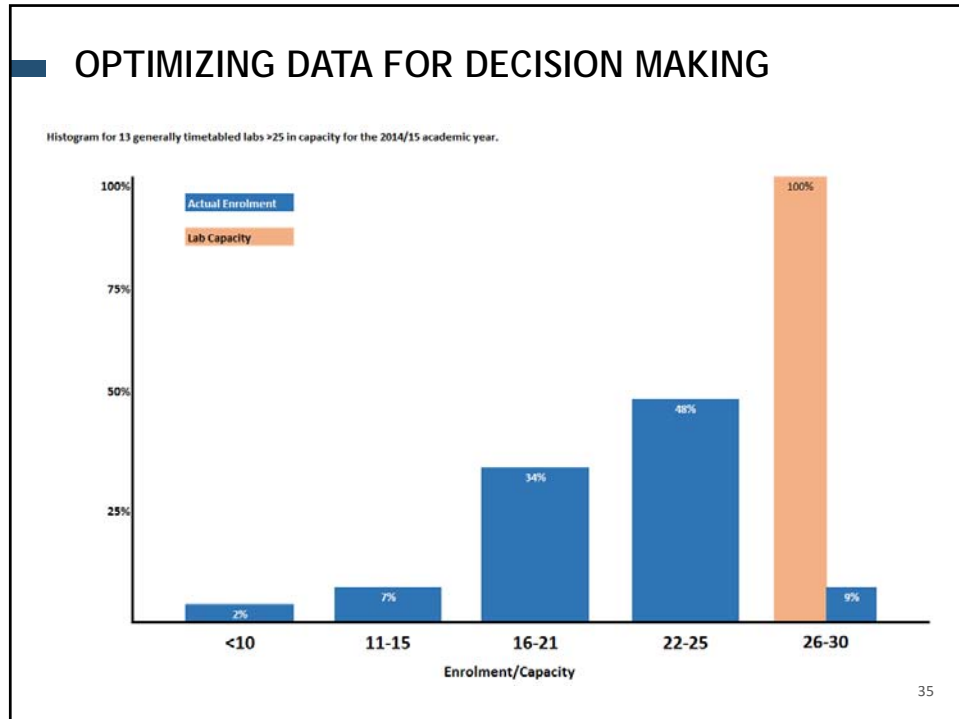
"Numbers have an important story to tell. They rely on you to give them a clear and convincing voice."

-Stephen Few



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POLL


Who holds the most space-
change influence at your
institution?

SPACE DECISIONS & SPACE DATA SYSTEMS

Business processes before business systems

**PICK ONE OR TWO
QUICK WIN PROJECTS**


Be a problem solver.

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**TECHNOLOGY IS AN
AMPLIFIER**

Technology amplifies underlying human forces.
For technology to have a positive impact, the right
human forces have to be there first.

Kentaro Toyama

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It's not the system,
it's the processes
and the people.



BUSINESS PROCESSES

- Scheduling guidelines
- Space requests/allocation
- Space database entry, changes and validation
- Technology (AV, IT, Learning Aids)
- Learning and Teaching (Curriculum design, assessment and faculty development)
- Space improvements
- Capital planning
- Campus Master Planning

■ ADDRESSING SPACE CHALLENGES



It's about "The transaction"

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■ DATA

You cannot move Space Management forward without easy access to good data.

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■ **STAKEHOLDERS**

You have the freedom to move any activity to any space as long as stakeholder needs are met.

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■ **SUPPORT**

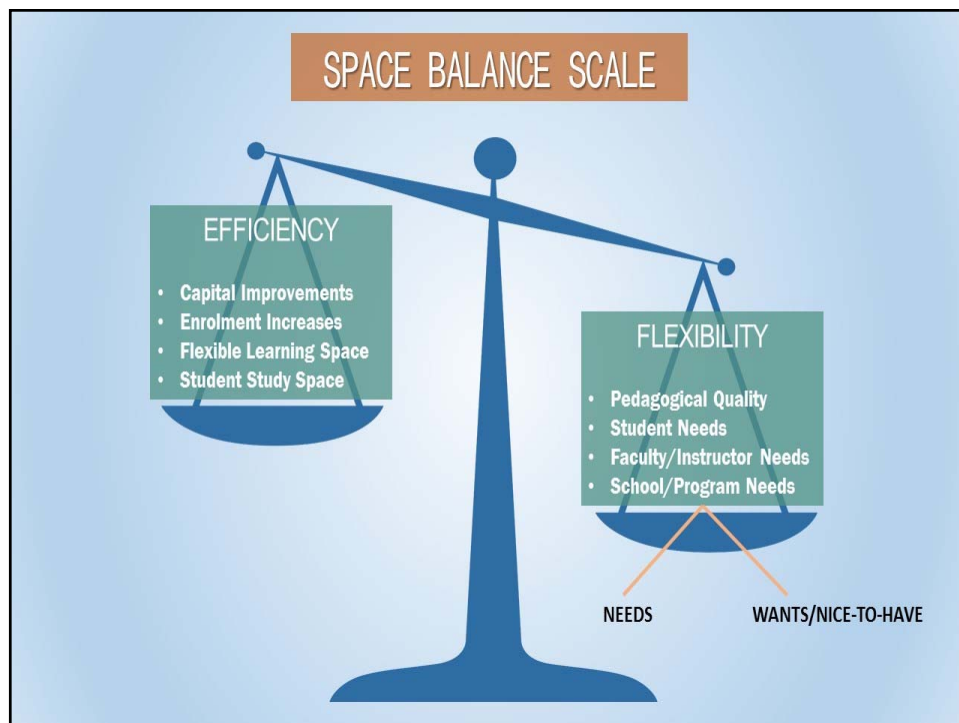
Space managers must have the support and leverage of leadership to solve space challenges.

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PEER TO PEER ACCOUNTABILITY

- Know who the influencers are
- Understand needs
- Backstop crucial conversations with good data
- Always match the space giver with the space taker
 - For every problem space there is a user with a solution

Most importantly, understand **WHY** you are managing space.



LEVERAGE IN SPACE DISCUSSIONS

- Learning commons
- Tech enabled Project space
- Lockers
- Informal learning space
- Secure storage for Learning objects
- New AV Technology
- BYOD
- Virtual deployment
- New Furniture
- Flexible learning spaces
- Curriculum development
- Faculty Development
- Enrolment increases
- New revenue
- Climb the prioritization ladder



TAKEAWAYS

Preparation checklist for space change meetings

- ☐ Do I have valid data?
- ☐ Have I validated that data with the stakeholders?
- ☐ Is the data in dashboard format?
- ☐ What are the specific needs of each party?
- ☐ Have I invited the right peers to the meeting?
- ☐ What improvements will each party see from the change?

■ THE BALLAD OF THE
LONG HOUSE AND THE LIBRARY



53

■ THE BALLAD OF MECHANICAL
ENGINEERING VS MINING



54

■ THE BALLAD OF CIVIL ENGINEERING &
THE NICEST ACADEMIC SPACE ON CAMPUS



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❓ QUESTIONS

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EVALUATION

Thank you!

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57