Facility Information Systems

As a Campus Planning Tool

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UML Facts

- Just over 18,000 students (approx. 11,000 Undergraduate)

- Over 2,000 faculty & staff

- Situated on 3 separate campuses throughout Lowell encompassing 180 acres; North, East, and South Campuses

- FIS (Facilities Information Systems) Department manages over 10,000 interior spaces across campus (includes instructional spaces, offices, closets, utility shafts, etc.)

- 9 people in the Planning Department, 4 of which make up the FIS Department (Assistant Director of Planning, Urban Design, and Transportation; FIS Manager; GIS Specialist; CAD Specialist)
Universities are Complex Systems

... to create an integrated, map-based, Facilities Information System that fosters collaboration and efficiency within Facilities Management and enables targeted data sharing throughout the University by offering a wide range of accurate, verifiable, secure, current, and accessible information.
Instructional Space Survey

Section 1
Room Number *
Use Floor Plan, i.e. WAN-450
Room Name
Number of Stations *

Lab Type
- Wet
- Dry
- Computer
- Other
Room Setup
- Art or Music Studio
- Shop
- Classroom
- Project Space
Number of Stations *
Station Type
- Bench
- Computer
- Other

Seating
- Tables & Chairs in a row
- Tablet Arm Chairs
- Conference Table & Chairs
- Round Table & Chairs
- Other
Overflow Seating?
- Yes
- No

Section 2
Fixed Digital Presentation Wall?
- Yes
- No
Whiteboard
- Yes
- No
Chalkboard
- Yes
- No
Number of Power Outlets
Location of Power Outlets
- Walls

Survey123 for ArcGIS (Beta)
Mechanical Spaces & Keys
Space Tracking & Photos

- Institutional Commitment
- Information Management
- Tools for Departments
How is this data used?

Public
How is this data used?

Public

Accessible routes
How is this data used?

Registrar

Maximum capacity
Architectural features
Seating arrangements
etc.
How is this data used?

within Campus Planning
as we plan for the current and future needs of the campus

Accurate space data + projections and trends = more precise planning

**Campus Planning**: long-term planning context for decisions about campus growth and evolution. how all university activities and locations can best function as a unified whole.

**Space Planning**: Focuses on identifying space needs, conducting feasibility studies, and providing programming and design oversight to support appropriately-sized and up-to-date facilities.
Right-sizing spaces and projects

One chair is too big, one chair is too little, but the last chair is just right...
How big?
Campus Viewer

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Learning with Purpose

How is this data used?
Test Fits from Existing Plans

SIZE
Room Number
Class Lab (FICM)
Department
Test Fits from Existing Plans

Evaluate possible re-uses of individual spaces

Understand scope of work required
Test Fit

Shared Physio Lab
To remain
Analysis of Existing Space

22 Current Faculty
+ 6 Projected 5-year Growth
= 28

30 Faculty Offices
Analysis of Existing Spaces

View classroom schedules
- Is classroom space maximized?
- More Classrooms needed vs. scheduling solution
What don’t we know?

Some planning questions can be answered by collecting more data:

How much student space do we have? Where is it?

Mechanical Space Survey

Lab survey – equipment, hoods, bench space, as instructional and research lab needs increase
What don’t we know?

Which key opens this door?
Questions?

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