

# Archibus: Facility Space Database

Facilities Planning, Design and Construction at BIDMC collects, maintains and analyzes space data for over 3 million gross square feet of clinical and administrative spaces using Archibus facility management (CAFM) software. A number of internal departments and external organizations rely on this data to support compliance, construction and financial activities.

# Introduction/Problem

Facilities Planning, Design and Construction implemented Drawbase software in 1996, shortly after the merger of Beth Israel and Deaconess Hospitals. This CAFM system was used for the for the maintenance and analysis of BIDMC-wide space data.

Drawbase required a lot of manual data entry, which meant that information was usually out-of-date, with no way to see when it was last verified. Additionally, there were few parameters within which the data could be visualized, resulting in poor reporting functionality. As needs changed and the hospital grew, Facilities desired a more robust system with additional capabilities.

# Aim/Goa

Since the data maintained in Drawbase was used by both the Facilities department and external groups, our Space Planning team was determined to improve the records and ensure proper reporting. With Archibus, the major goals for future data collection, maintenance, and reporting were:

- Ability to tie into database records that would automatically update
- 2 More parameters for visualization (Division, Department, Use, etc)
- **3** Mobile surveying capabilities
- 4 Advanced reporting functionality

### The Team

### **Facilities Space Planning**

- Sarah Holton
- Rachel Mutschler
- Branden Etheridge
- Adriana Tzigantcheva
- Jennifer Vasington

### **Implementation & Data**

- Archibus
- IS: Brendan Fitzmaurice, Leon Vitale, Rob Cook
- Steve Berry, Academic Computing
- Matt Glynn, R&AA

### The Interventions

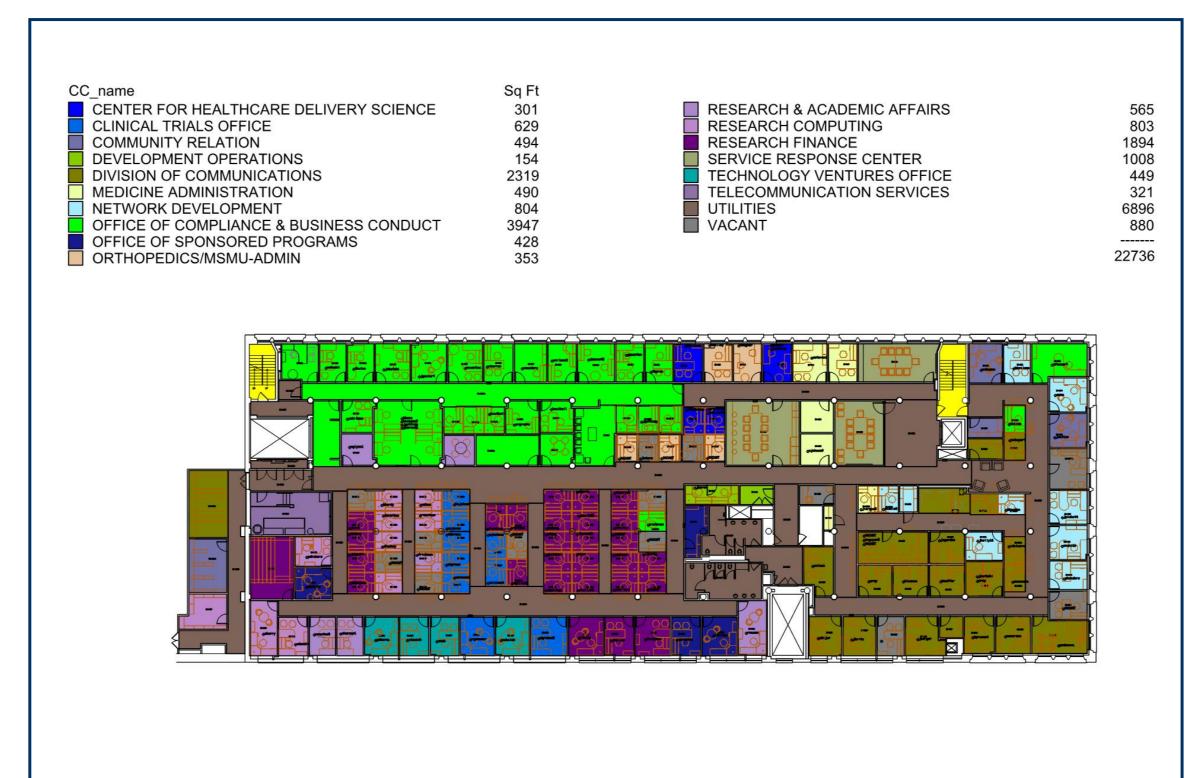
#### **Setup**

- Migrate Drawbase data to new server
- 2 Clean up and update existing plans
- 3 Link to Division, Department and Employee databases
- Meet with department managers to capture space data through inperson surveys. Areas surveyed include East Campus, West Campus, nearby leased facilities and off-site BIDHC locations.
- **6** Link to R&AA database to reduce data inconsistencies

### Rollout

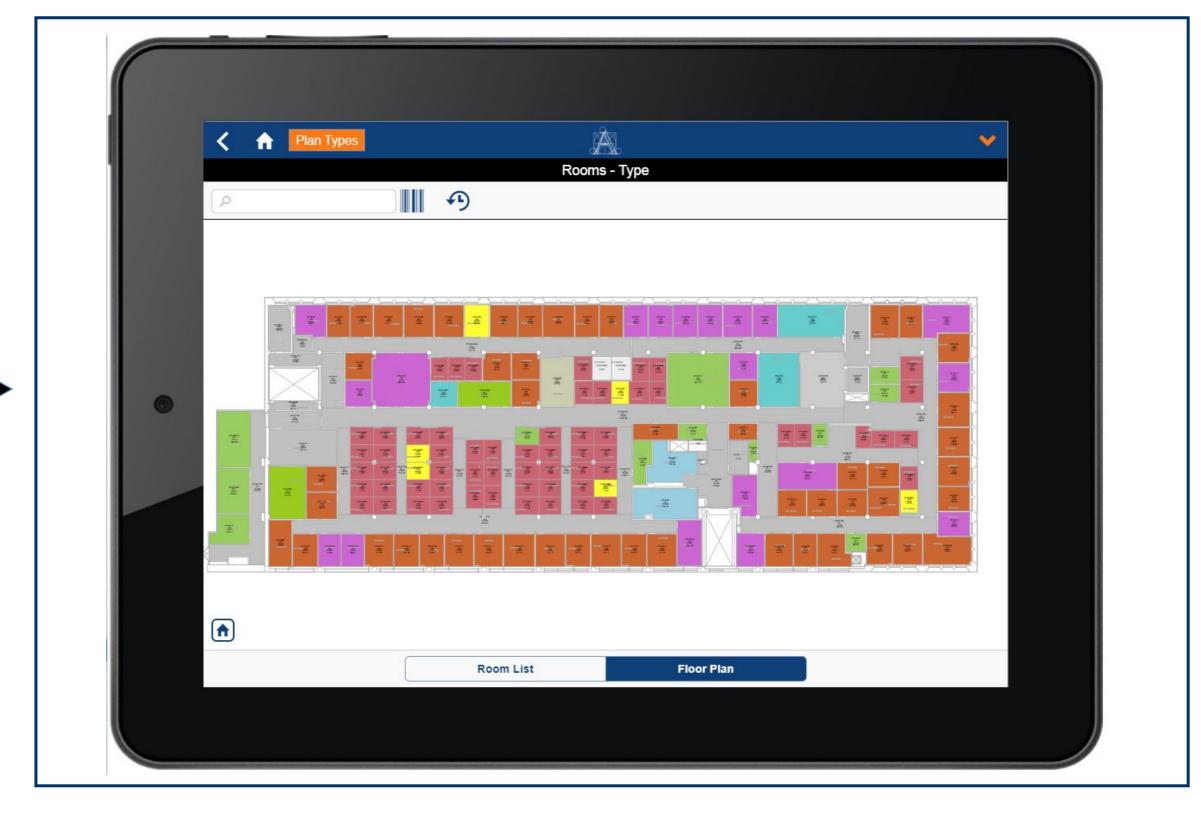
- Create online accounts for Facilities staff to test (view only access)
- 2 Implement mobile access for select staff
- **3** Generate custom reports for consistent year-to-year data

# Results/Progress to Date



### January 2017: Drawbase software

Inaccurate data. Inability to visualize additional levels of information. Archival employee data (manual entry). Poor reporting functionality

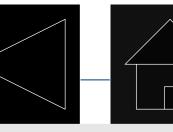


#### **March 2018: Archibus software**

Tied to database records. Ability to generate highlight plans by Room Type, Department, Occupancy etc. Advanced reporting. Mobile surveying.

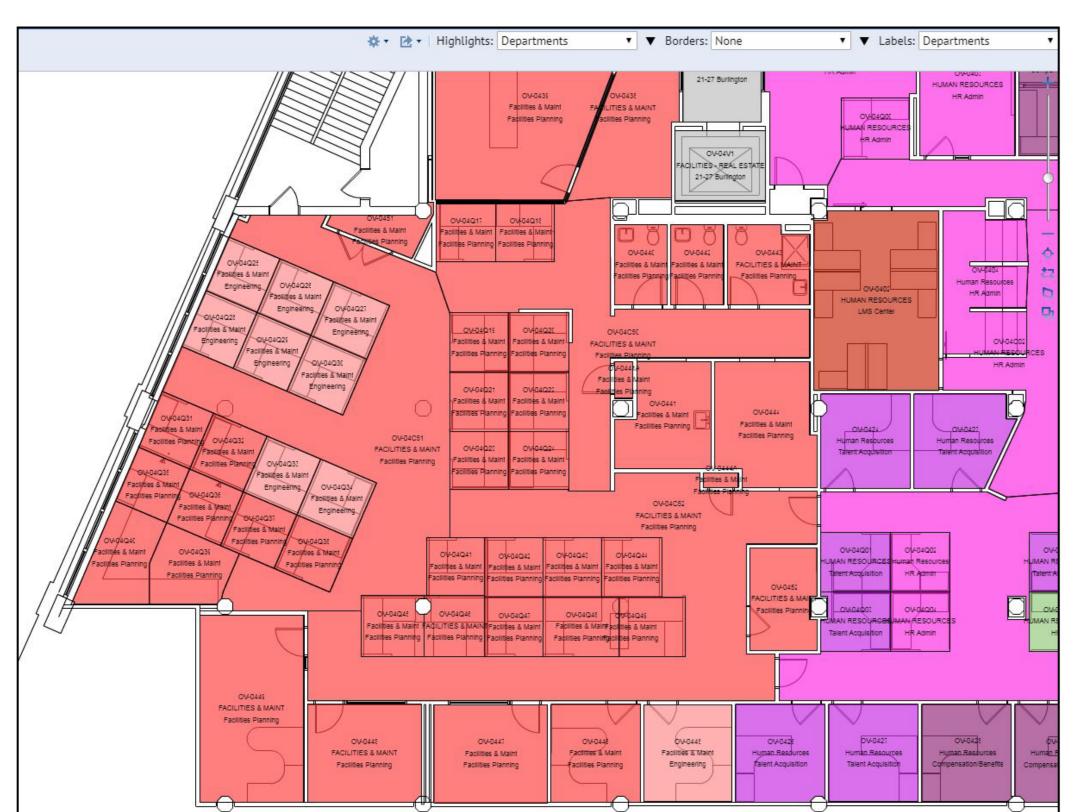
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# More Results/Progress to Date





To date, we have conducted in-person surveys to verify information across 3 million square feet on- and offcampus.

For every space we surveyed, we have captured the following information:

- Division
- Department
- Room Type
- Room Use
- Capacity & Occupancy
- Employee Names
- Architectural changes

▲ Room Types

#### **▼** Data

▲ Departments

Building Name	Floor Code	Room Code	Room Category	Category Description	Room Type	Type Description	Room Use	Room Area ft <sup>2</sup>	Is Accessible?	Employee Capacity	Occupancy Count	Division Name	Department Code	Department Name
20 Overland Street	04	OV-04L1	W01	Circulation	W0103	Public Lobby	NOT NASF	96.60	N/A	0	0.00	Facilities - Real Estate	1081620	21-27 Burlington
0 Overland Street	04	OV-04V1	W02	Vertical Circulation	W0202	Elevator	NOT NASF	73.18	N/A	0	0.00	Facilities - Real Estate	1081620	21-27 Burlington
0 Overland Street	04	OV-0405	310	Office	31001	Office - Private	ADMIN	153.35	N/A	2	2.00	Human Resources	1080730	Compensation/Benefits
20 Overland Street	04	OV-0409	310	Office	31013	Office - Administrative	ADMIN	156.50	N/A	2	2.00	Human Resources	1080730	Compensation/Benefits
20 Overland Street	04	OV-0411	310	Office	31013	Office - Administrative	ADMIN	151.42	N/A	2	2.00	Human Resources	1080730	Compensation/Benefits
0 Overland Street	04	OV-0420	310	Office	31013	Office - Administrative	ADMIN	80.47	N/A	1	1.00	Human Resources	1080730	Compensation/Benefits
0 Overland Street	04	OV-0428	310	Office	31001	Office - Private	ADMIN	99.78	N/A	1	1.00	Human Resources	1080730	Compensation/Benefits
0 Overland Street	04	OV-0429	310	Office	31001	Office - Private	ADMIN	100.10	N/A	1	1.00	Human Resources	1080730	Compensation/Benefits
0 Overland Street	04	OV-0430	310	Office	31013	Office - Administrative	ADMIN	100.62	N/A	1	1.00	Human Resources	1080730	Compensation/Benefits
0 Overland Street	04	OV-0431	310	Office	31013	Office - Administrative	ADMIN	123.26	N/A	1	1.00	Human Resources	1080730	Compensation/Benefits
0 Overland Street	04	OV-0433	310	Office	31013	Office - Administrative	ADMIN	93.50	N/A	1	1.00	Human Resources	1080730	Compensation/Benefits
Overland Street	04	OV-0434	310	Office	31013	Office - Administrative	ADMIN	93.44	N/A	1	1.00	Human Resources	1080730	Compensation/Benefits
Overland Street	04	OV-0435	310	Office	31013	Office - Administrative	ADMIN	92.24	N/A	1	1.00	Human Resources	1080730	Compensation/Benefits
Overland Street	04	OV-0445	310	Office	31001	Office - Private	ADMIN	98.38	N/A	1	1.00	Facilities & Maint	1081480	Engineering
Overland Street	04	OV-04Q25	310	Office	31003	Office - Cubicle	ADMIN	37.21	N/A	1	1.00	Facilities & Maint	1081480	Engineering
Overland Street	04	OV-04Q26	310	Office	31003	Office - Cubicle	ADMIN	39.15	N/A	1	1.00	Facilities & Maint	1081480	Engineering
Overland Street	04	OV-04Q27	310	Office	31003	Office - Cubicle	ADMIN	40.86	N/A	1	1.00	Facilities & Maint	1081480	Engineering
Overland Street	04	OV-04Q28	310	Office	31003	Office - Cubicle	ADMIN	38.94	N/A	1	1.00	Facilities & Maint	1081480	Engineering
0 Overland Street	04	OV-04Q29	310	Office	31003	Office - Cubicle	ADMIN	40.77	N/A	1	1.00	Facilities & Maint	1081480	Engineering
Overland Street	04	OV-04Q30	310	Office	31003	Office - Cubicle	ADMIN	42.55	N/A	1	1.00	Facilities & Maint	1081480	Engineering
Overland Street	04	OV-04Q33	310	Office	31003	Office - Cubicle	ADMIN	40.97	N/A	1	1.00	Facilities & Maint	1081480	Engineering
Overland Street	04	OV-04Q34	310	Office	31003	Office - Cubicle	ADMIN	42.40	N/A	1	1.00	Facilities & Maint	1081480	Engineering
Overland Street	04	OV-41417	X01	Building Service Area	X0104	Custodial Supply Closet	SUPPORT	11.78	N/A	0	0.00	Support Services	1081310	Environmental Services
Overland Street	04	OV-0438	315	Office Service	31500	Office Corridor	ADMIN	154.24	N/A	1	0.00	Facilities & Maint	1081260	Facilities Planning
Overland Street	04	OV-0439	350	Conference Room	35001	Conference Room	ADMIN	347.83	N/A	0	0.00	Facilities & Maint	1081260	Facilities Planning
Overland Street	04	OV-0440	315	Office Service	315XX	Toilet	ADMIN	48.87	N/A	0	0.00	Facilities & Maint	1081260	Facilities Planning
Overland Street	04	OV-0441	315	Office Service	31503	Kitchen	ADMIN	105.12	N/A	0	0.00	Facilities & Maint	1081260	Facilities Planning
Overland Street	04	OV-0441A	315	Office Service	31513	Supply Storage	ADMIN	7.89	N/A	0	0.00	Facilities & Maint	1081260	Facilities Planning
O Overland Street	04	OV-0442	315	Office Service	315XX	Toilet	ADMIN	48.88	N/A	0	0.00	Facilities & Maint	1081260	Facilities Planning
Overland Street	04	OV-0443	315	Office Service	31507	Toilet/Shower	ADMIN	73.29	YES	0	0.00	Facilities & Maint	1081260	Facilities Planning
Overland Street	04	OV-0444	315	Office Service	31504	Copy Room	ADMIN	136.56	N/A	0	0.00	Facilities & Maint	1081260	Facilities Planning
Overland Street	04	OV-04448	350	Conference Room	35001	Conference Room	ADMIN	128.37	N/A	0	0.00	Facilities & Maint	1081260	Facilities Planning
Overland Street	04	OV-0444A	350	Conference Room	35001	Conference Room	ADMIN	6.00	N/A	0	0.00	Facilities & Maint	1081260	Facilities Planning
Overland Street	04	OV-0446	310	Office	31001	Office - Private	ADMIN	99.81	N/A	1	1.00	Facilities & Maint	1081260	Facilities Planning
0 Overland Street	04	OV-0447	350	Conference Room	35001	Conference Room	ADMIN	128.26	N/A	0	0.00	Facilities & Maint	1081260	Facilities Planning
0 Overland Street	04	OV-0448	350	Conference Room	35001	Conference Room	ADMIN	128.37	N/A	0	0.00	Facilities & Maint	1081260	Facilities Planning
0 Overland Street	04	OV-0449	310	Office	31001	Office - Private	ADMIN	224.43	N/A	1	1.00	Facilities & Maint	1081260	Facilities Planning

#### ▲ Occupancy

### Lessons Learned

- Meeting with a department manager when surveying is very helpful for collecting accurate data that may be difficult to identify in the field.
- 2 The use of a dynamic data management system like Archibus has fostered an interdepartmental, collaborative effort to update the database across different disciplines.
- 3 Improved data accuracy and reporting has been very useful in the evaluation of current and future Facilities projects.

## Next Steps

- Research: work with R&AA team to input shared use spaces into Archibus and streamline tracking systems
- ☐ Moves: tie to move requests (RFRs) and automate employee & departmental moves
- Telecomm: input jack data in partnership with Telecomm
- Clean Building: overlay testing and abatement information and tie to reports

